

	<b>Nomina generalia</b>	<b>General terms</b>
<b>E1.0.0.0.0.0.1</b>	Modus reproductionis	Reproductive mode
<b>E1.0.0.0.0.0.2</b>	Reproductio sexualis	Sexual reproduction
<b>E1.0.0.0.0.0.3</b>	Viviparitas	Viviparity
<b>E1.0.0.0.0.0.4</b>	Heterogamia	Heterogamy
<b>E1.0.0.0.0.0.5</b>	Endogamia	Endogamy
<b>E1.0.0.0.0.0.6</b>	Sequentia reproductionis	Reproductive sequence
<b>E1.0.0.0.0.0.7</b>	Ovulatio	Ovulation
<b>E1.0.0.0.0.0.8</b>	Erectio	Erection
<b>E1.0.0.0.0.0.9</b>	Coitus	Coitus; Sexual intercourse
<b>E1.0.0.0.0.0.10</b>	Ejaculatio <sup>1</sup>	Ejaculation
<b>E1.0.0.0.0.0.11</b>	Emissio	Emission
<b>E1.0.0.0.0.0.12</b>	Ejaculatio vera	Ejaculation proper
<b>E1.0.0.0.0.0.13</b>	Semen	Semen; Ejaculate
<b>E1.0.0.0.0.0.14</b>	Inseminatio	Insemination
<b>E1.0.0.0.0.0.15</b>	Fertilisatio	Fertilization
<b>E1.0.0.0.0.0.16</b>	Fecundatio	Fecundation; Impregnation
<b>E1.0.0.0.0.0.17</b>	Superfecundatio	Superfecundation
<b>E1.0.0.0.0.0.18</b>	Superimpregnatio	Superimpregnation
<b>E1.0.0.0.0.0.19</b>	Superfetatio	Superfetation
<b>E1.0.0.0.0.0.20</b>	Ontogenesis	Ontogeny
<b>E1.0.0.0.0.0.21</b>	Ontogenesis praenatalis	Prenatal ontogeny
<b>E1.0.0.0.0.0.22</b>	Tempus praenatale; Tempus gestationis	Prenatal period; Gestation period
<b>E1.0.0.0.0.0.23</b>	Vita praenatalis	Prenatal life
<b>E1.0.0.0.0.0.24</b>	Vita intrauterina	Intra-uterine life
<b>E1.0.0.0.0.0.25</b>	Embryogenesis <sup>2</sup>	Embryogenesis; Embryogeny
<b>E1.0.0.0.0.0.26</b>	Fetogenesis <sup>3</sup>	Fetogenesis
<b>E1.0.0.0.0.0.27</b>	Tempus natale	Birth period
<b>E1.0.0.0.0.0.28</b>	Ontogenesis postnatalis	Postnatal ontogeny
<b>E1.0.0.0.0.0.29</b>	Vita postnatalis	Postnatal life
<b>E1.0.1.0.0.0.1</b>	<b>Mensurae embryonicae et fetales<sup>4</sup></b>	<b>Embryonic and fetal measurements</b>
<b>E1.0.1.0.0.0.2</b>	Aetas a fecundatione <sup>5</sup>	Fertilization age
<b>E1.0.1.0.0.0.3</b>	Aetas ab ovulatione <sup>6</sup>	Ovulation age
<b>E1.0.1.0.0.0.4</b>	Aetas ab inseminatione <sup>7</sup>	Insemination age
<b>E1.0.1.0.0.0.5</b>	Hebdomades post coitum <sup>8</sup>	Coital weeks
<b>E1.0.1.0.0.0.6</b>	Hebdomades post menses ultimas <sup>9</sup>	Menstrual weeks

<sup>1</sup> E1.0.0.0.0.0.10 *Ejaculatio* The reflex process of *ejaculation* occurs in two phases: in the first – *emission* – contraction of smooth muscle of glands and ducts delivers the various components of semen into the prostatic urethra; in the second – *ejaculation proper* – the striated muscles of the urogenital triangle (particularly the bulbospongiosus muscles) contract spasmodically and expel semen from the urethra.

<sup>2</sup> E1.0.0.0.0.0.25 *Embryogenesis* Embryogenesis is the process of embryo formation. It entails the formation of the principal organs and systems and the acquisition of uniquely human surface features that are apparent with the unaided eye. The process begins at fertilization and ends, somewhat arbitrarily, 56 days later. It is divided into 23 internationally accepted Carnegie Stages (O’Rahilly R, Müller F. Developmental stages in human embryos. Washington DC: Carnegie Institution of Washington; 1987). Each Carnegie Stage is an arbitrarily defined cut through the time axis of the embryo but is based upon carefully-defined external and internal morphological criteria and not on either measured length or estimated age. Thus, an embryo of a particular length or age is not necessarily an embryo of a particular stage. It is important to note that, while the stages have not been redefined, the norm for the estimated age of certain stages has been revised in subsequent papers and textbooks by these authors on the basis of ultrasound investigations [see footnote<sup>31</sup>].

<sup>3</sup> E1.0.0.0.0.0.26 *Fetogenesis* Fetogenesis entails the growth and differentiation, particularly functional differentiation, of the conceptus after embryogenesis is completed. It thus begins on day 57, following the Stage 23 embryo that already has its principal organs, systems and distinctly human features, and ends at birth, when the fetus becomes a newborn infant or neonate. The time in which fetogenesis occurs may be divided into early, intermediate and late fetal periods, which correspond to the trimesters of pregnancy in which they occur. There is, however, no agreement on precisely which weeks are encompassed by the first trimester: here it is regarded as beginning at fertilization and as being occupied by embryogenesis and the early fetal period, the 9<sup>th</sup> to the 13<sup>th</sup> post fertilization week.

<sup>4</sup> E1.0.1.0.0.0.1 *Mensurae embryonicae et fetales* The norms for measurements of lengths, diameters and circumferences in mm and of weights in grams are given for each postfertilization week in Table A-4 in O’Rahilly R, Müller F. Human Embryology & Teratology. 3<sup>rd</sup> ed. New York: Wiley-Liss; 2001.

<sup>5</sup> E1.0.1.0.0.0.2 *Aetas a fecundatione* *Fertilization age* begins at the time of fertilization with the sperm penetrating the oocyte and the formation of the zygote. It is the true age of the conceptus and the preferred measure.

<sup>6</sup> E1.0.1.0.0.0.3 *Aetas ab ovulatione* *Ovulation age* begins on the day of the ovulation that preceded fertilization and the formation of the zygote: it is about 0.5 day longer than fertilization age.

<sup>7</sup> E1.0.1.0.0.0.4 *Aetas ab inseminatione* *Insemination age* begins when the sperm and oocyte are introduced in artificial insemination or in vitro fertilization.

<sup>8</sup> E1.0.1.0.0.0.5 *Hebdomades post coitum* *Coital weeks* begin from the time of the coitus that resulted in the pregnancy. Normally, fertilization occurs early in the first coital week. Since the embryo does not exist for the first part of the first coital week, the term coital age is inappropriate.

<b>E1.0.1.0.0.0.7</b>	Longitudo corona calx	Crown-heel length; CHL; Total length; Standing height
<b>E1.0.1.0.0.0.8</b>	Longitudo maxima <sup>10</sup>	Greatest length; GL
<b>E1.0.1.0.0.0.9</b>	Longitudo corona nates	Crown-rump length; CRL; Sitting height
<b>E1.0.1.0.0.0.10</b>	Longitudo cervix nates	Neck-rump length
<b>E1.0.1.0.0.0.11</b>	Longitudo femoris ossificati	Length of ossified femur
<b>E1.0.1.0.0.0.12</b>	Longitudo pedis	Foot length; FL
<b>E1.0.1.0.0.0.13</b>	Diameter biparietalis	Biparietal diameter
<b>E1.0.1.0.0.0.14</b>	Diameter cavitatis amnioticae	Diameter of amniotic cavity
<b>E1.0.1.0.0.0.15</b>	Diameter cavitatis chorionicae	Diameter of chorionic cavity
<b>E1.0.1.0.0.0.16</b>	Diameter vesiculae umbilicalis; Diameter sacci vitellini	Diameter of umbilical vesicle; Diameter of yolk sac
<b>E1.0.1.0.0.0.17</b>	Circumferentia abdominis	Abdominal circumference
<b>E1.0.1.0.0.0.18</b>	Circumferentia capitis	Head circumference
<b>E1.0.1.0.0.0.19</b>	Pondus corporis	Body weight
<b>E1.0.1.0.0.0.20</b>	Pondus encephali	Brain weight
<b>E1.0.1.0.0.0.21</b>	Pondus placentae	Placental weight
<b>E1.0.2.0.0.0.1</b>	<b>Cycli genitales feminini</b>	<b>Female reproductive cycles</b>
<b>E1.0.2.1.0.0.1</b>	<b>PHASES OVARICAE</b>	<b>OVARIAN PHASES</b>
<b>E1.0.2.1.0.0.2</b>	Phasis infantilis	Infantile phase
<b>E1.0.2.1.0.0.3</b>	Phasis praepubertalis	Prepubertal phase
<b>E1.0.2.1.0.0.4</b>	Phasis pubertalis	Pubertal phase
<b>E1.0.2.1.0.0.5</b>	Phasis matura	Mature phase
<b>E1.0.2.1.0.0.6</b>	Phasis involutionis	Involution phase
<b>E1.0.2.2.0.0.1</b>	<b>CYCLUS OVARICUS</b>	<b>OVARIAN CYCLE</b>
<b>E1.0.2.2.0.0.2</b>	Oogenesis	Oogenesis
<b>E1.0.2.2.0.0.3</b>	Phases cycli ovarici	Phases of ovarian cycle
<b>E1.0.2.2.0.0.4</b>	Phasis follicularis	Follicular phase
<b>E1.0.0.0.0.0.7</b>	Ovulatio	Ovulation
<b>E1.0.2.2.0.0.5</b>	Phasis corporis lutei	Luteal phase; Corpus luteum phase
<b>E1.0.2.2.0.0.6</b>	Phasis involutionis	Involution phase
<b>E1.0.2.2.0.0.7</b>	Typi ovulationis	Types of ovulation
<b>E1.0.2.2.0.0.8</b>	Ovulatio uniovularis	Uni-ovular ovulation
<b>E1.0.2.2.0.0.9</b>	Ovulatio multiovularis	Multi-ovular ovulation
<b>E1.0.2.2.0.0.10</b>	Ovulatio spontanea	Spontaneous ovulation
<b>E1.0.2.2.0.0.11</b>	Ovulatio superovularis; Superovulatio	Superovulation
<b>E1.0.2.2.0.0.12</b>	Superovulatio inducta	Induced superovulation
<b>E1.0.2.3.0.0.1</b>	<b>CYCLUS MENSTRUALIS ENDOMETRII</b>	<b>ENDOMETRIAL MENSTRUAL CYCLE</b>
<b>E1.0.2.3.0.0.2</b>	Amenorrhoea primaria	Primary amenorrhoea <sup>▲</sup>
<b>E1.0.2.3.0.0.3</b>	Menarcha	Menarche
<b>E1.0.2.3.0.0.4</b>	Phasis proliferativa; Phasis follicularis	Proliferative phase; Follicular phase; Oestrogenic phase <sup>▲</sup>
<b>E1.0.2.3.0.0.5</b>	Phasis ovulatoria	Ovulatory phase
<b>E1.0.2.3.0.0.6</b>	Phasis secretoria; Phasis lutealis	Secretory phase; Luteal phase; Progesterone phase
<b>E1.0.2.3.0.0.7</b>	Phasis gestatoria	Gestatory phase
<b>E1.0.2.3.0.0.8</b>	Phasis ischaemiae	Ischaemic phase <sup>▲</sup>
<b>E1.0.2.3.0.0.9</b>	Phasis menstrualis; Phasis desquamativa	Menstrual phase; Desquamation phase
<b>E1.0.2.3.0.0.10</b>	Menses	Menses
<b>E1.0.2.3.0.0.11</b>	Phasis postmenstrualis	Postmenstrual phase
<b>E1.0.2.3.0.0.12</b>	Amenorrhoea secundaria	Secondary amenorrhoea <sup>▲</sup>
<b>E1.0.2.3.0.0.13</b>	Climacter	Climacteric

<sup>9</sup> E1.0.1.0.0.0.6 *Hebdomades post menses ultimas* Menstrual ("gestational") weeks begin from the first day of the mother's last menstrual period [LMP] before becoming pregnant and are the usual measure in obstetric practice. Since the embryo does not usually come into being until the first two menstrual weeks have passed, the term menstrual "age" is inappropriate. The term gestational age is superfluous, ambiguous and should be abandoned, it having been variously equated with menstrual weeks, ovulation age and fertilization age (O'Rahilly R, Müller F. Prenatal ages and stages: measures and errors. *Teratology* 2000;61:382-384).

<sup>10</sup> E1.0.1.0.0.0.8 *Longitudo maxima* Greatest length [GL] is the preferred measure of length, being independent of fixed points, which are not always easy to determine. GL coincides with crown-rump length [CRL] at Stages 11 and 12; GL is generally more than CRL and coincides with neck-rump length from Stages 13-17; GL and CRL again coincide from Stages 18-20 onwards (O'Rahilly R, Müller F. Embryonic length and cerebral landmarks in staged human embryos. *Anat Rec* 1984;209:265-271).

<b>E1.0.2.3.0.0.14</b>	Menopausa	Menopause
<b>E1.0.2.4.0.0.1</b>	<b>CYCLUS VAGINALIS<sup>11</sup></b>	<b>VAGINAL CYCLE</b>
<b>E1.0.2.4.0.0.2</b>	Phasis initialis	Initial phase
<b>E1.0.2.4.0.0.3</b>	Phasis ovulationis	Ovulation phase
<b>E1.0.2.4.0.0.4</b>	Phasis sera	Later phase
<b>E1.0.2.5.0.0.1</b>	<b>CYCLUS GLANDULAE MAMMARIAE</b>	<b>MAMMARY GLAND CYCLE</b>
<b>E1.0.2.5.0.0.2</b>	Phasis inactiva	Inactive phase
<b>E1.0.2.5.0.0.3</b>	Phasis proliferativa	Proliferative phase
<b>E1.0.2.5.0.0.4</b>	Lactatio	Lactation
<b>E1.0.2.5.0.0.5</b>	Phasis colostralis	Colostrals phase
<b>E1.0.2.5.0.0.6</b>	Phasis lactifera	Milk phase
<b>E1.0.2.5.0.0.7</b>	Phasis involutionis	Involution phase
<b>E1.0.2.6.0.0.1</b>	<b>PREGNATIO; GRAVIDITAS</b>	<b>PREGNANCY; GESTATION</b>
<b>E1.0.2.6.1.0.1</b>	<b>Graviditas</b>	<b>Gravidity</b>
<b>E1.0.2.6.1.0.2</b>	Nulligraviditas	Nulligravidity
<b>E1.0.2.6.1.0.3</b>	Nulligravida	Nulligravida
<b>E1.0.2.6.1.0.4</b>	Primigraviditas	Primigravidity
<b>E1.0.2.6.1.0.5</b>	Primigravida	Primigravida
<b>E1.0.2.6.1.0.6</b>	Multigraviditas	Multigravidity
<b>E1.0.2.6.1.0.7</b>	Multigravida	Multigravida
<b>E1.0.2.6.2.0.1</b>	<b>Paritas</b>	<b>Parity</b>
<b>E1.0.2.6.2.0.2</b>	Nulliparitas	Nulliparity
<b>E1.0.2.6.2.0.3</b>	Nullipara	Nullipara
<b>E1.0.2.6.2.0.4</b>	Primiparitas	Primiparity
<b>E1.0.2.6.2.0.5</b>	Primipara	Primipara
<b>E1.0.2.6.2.0.6</b>	Multiparitas	Multiparity
<b>E1.0.2.6.2.0.7</b>	Multipara	Multipara
<b>E1.0.2.6.3.0.1</b>	<b>Pregnatio uterina</b>	<b>Uterine pregnancy</b>
<b>E1.0.2.6.3.0.2</b>	Pregnatio cornualis	Cornual pregnancy
<b>E1.0.2.6.3.0.3</b>	Pregnatio fundica	Fundal pregnancy
<b>E1.0.2.6.3.0.4</b>	Pregnatio corporalis	Uterine body pregnancy
<b>E1.0.2.6.3.0.5</b>	Pregnatio cervicalis <sup>12</sup>	Cervical pregnancy
<b>E1.0.2.6.3.0.6</b>	Placenta praevia	Placenta praevia <sup>▲</sup>
<b>E1.0.2.6.4.0.1</b>	<b>Cyclus pregnationis</b>	<b>Pregnancy cycle</b>
<b>E1.0.2.6.4.0.2</b>	Conceptio	Conception
<b>E1.0.2.6.4.0.3</b>	Conceptus <sup>13</sup>	Conceptus
<b>E1.0.2.6.4.0.4</b>	Cyema <sup>14</sup>	Cyema
<b>E1.0.2.6.4.0.5</b>	Embryo [St.1 ad 23] <sup>15</sup>	Embryo [St.1-23]
<b>E1.0.2.6.4.0.6</b>	Fetus <sup>16</sup>	Fetus

<sup>11</sup> E1.0.2.4.0.0.1 *Cyclus vaginalis* Cyclical changes in the stratified squamous epithelium of the vagina are not obvious in histological sections: under normal circumstances its desquamated cells remain nucleated and it does not keratinize. However, according to Papanicolaou, there is a relative increase in acidophilic cells with small dark nuclei at the time of ovulation and thus the three phases of the vaginal cycle may be recognized (Papanicolaou GN. The sexual cycle in the human female as revealed by vaginal smears. Am J Anat 1933;52:519-637). The changes at ovulation may represent a prekeratinization process, which is completed when the epithelium is exposed to the air, as in cases of prolapse.

<sup>12</sup> E1.0.2.6.3.0.5/ E1.0.4.0.1.1.1 *Pregnatio cervicalis/ Pregnatio ectopica; Pregnatio extrauterina* Although appropriately listed with uterine pregnancy sites, a cervical pregnancy is often considered to be an ectopic pregnancy.

<sup>13</sup> E1.0.2.6.4.0.3/ E1.0.2.7.1.0.1 *Conceptus* *Conceptus* refers to the entire product of conception from fertilization onwards.

<sup>14</sup> E1.0.2.6.4.0.4 *Cyema* The *cyema* is the embryonic or fetal part of the conceptus and thus excludes the *developmental adnexa* (q.v.), which are the placenta, umbilical cord and extra-embryonic membranes.

<sup>15</sup> E1.0.2.6.4.0.5 *Embryo* [St.1 ad 23] Both embryonic and extra-embryonic cell lineages extend forward from the zygote and both extra-embryonic and embryonic tissues are necessary for normal development. Nevertheless, it has been argued that to include the early stages in the use of the term embryo is misleading because a discrete and identifiable population of exclusively embryonic or cyemic cells does not exist until gastrulation is under way and because most of the tissues formed prior to this are extra-embryonic or adnexal (Johnson MH and Selwood L. Nomenclature of early development in mammals. Reprod Fertl Dev 1996;8:759-64). However, communication risks attend the redefining of a commonly and colloquially used term such as embryo and scientific purposes can be as well served by not redefining the term but defining the cells present at a particular time. Embryo remains the preferred term for all 23 Carnegie Stages.

<sup>16</sup> E1.0.2.6.4.0.6 *Fetus* There is no doubt that etymologically the correct spelling is *fetus* (from *fero* – I beget), as has been used in America for many years: in Europe the traditional use of the spelling *foetus* is decreasing.

<b>E1.0.2.6.4.0.7</b>	Adnexa <sup>17</sup>	Adnexa
<b>E1.0.2.6.4.0.8</b>	Tempus tubale	Tubal period
<b>E1.0.2.6.4.0.9</b>	Tempus uterinum	Uterine period
<b>E1.0.2.6.4.0.10</b>	Phasis praegastrulationis <sup>18</sup>	Pregastrulation phase
<b>E1.0.2.6.4.0.11</b>	Phasis praeimplantationis	Pre-implantation phase
<b>E1.0.2.6.4.0.12</b>	Phasis implantationis	Implantation phase
<b>E1.0.2.6.4.0.13</b>	Phasis gastrulationis	Gastrulation phase
<b>E1.0.2.6.4.0.14</b>	Phasis praeparatoria; Phasis embryogenica <sup>19</sup>	Preparative phase; Embryogenic phase
<b>E1.0.2.6.4.0.15</b>	Phasis postgastrulationis	Postgastrulation phase
<b>E1.0.2.6.4.0.16</b>	Phasis placentalis	Placental phase
<b>E1.0.2.6.4.0.17</b>	Terminus	Term; End of pregnancy
<b>E1.0.2.6.4.0.18</b>	Terminatio	Termination
<b>E1.0.2.6.4.0.19</b>	Parturitio	Parturition; Labour <sup>▲</sup>
<b>E1.0.2.6.4.0.20</b>	Parturitio praematura	Premature labour <sup>▲</sup>
<b>E1.0.2.6.4.0.21</b>	Parturitio matura	Mature labour; Full term labour <sup>▲</sup>
<b>E1.0.2.6.4.0.22</b>	Parturitio postmatura	Postmature labour <sup>▲</sup>
<b>E1.0.2.7.0.0.1</b>	<b>PARTUS</b>	<b>BIRTH</b>
<b>E1.0.2.7.0.0.2</b>	Partus praematurus	Premature birth
<b>E1.0.2.7.0.0.3</b>	Partus maturus	Full term birth
<b>E1.0.2.7.0.0.4</b>	Partus postmaturus	Postmature birth
<b>E1.0.2.7.0.0.5</b>	Infans	Infant
<b>E1.0.2.7.0.0.6</b>	Infans praematurus	Premature infant
<b>E1.0.2.7.0.0.7</b>	Infans maturus	Mature infant
<b>E1.0.2.7.0.0.8</b>	Infans postmaturus	Postmature infant
<b>E1.0.2.7.0.0.9</b>	Neonatus	Newborn; Neonate
<b>E1.0.2.7.0.0.10</b>	Tempus postnatale	Postnatal period; Postpartum period
<b>E1.0.2.7.0.0.11</b>	Puerperium	Puerperium
<b>E1.0.2.7.0.0.12</b>	Involutio	Involution
<b>E1.0.2.7.1.0.1</b>	<b>Numerus conceptuum<sup>13</sup></b>	<b>Number of conceptuses</b>
<b>E1.0.2.7.1.0.2</b>	Pregnatio singularis	Single pregnancy
<b>E1.0.2.7.1.0.3</b>	Cyema singulare	Singleton; Single cyema
<b>E1.0.2.7.1.0.4</b>	Pregnatio duplex	Twin pregnancy
<b>E1.0.2.7.1.0.5</b>	Gemini	Twins
<b>E1.0.2.7.1.0.6</b>	Gemini dizygotici	Dizygotic twins
<b>E1.0.2.7.1.0.7</b>	Gemini monozygotici	Monozygotic twins
<b>E1.0.2.7.1.0.8</b>	Gemini monozygotici dichorionici diamniotici	Dichorial di-amniotic monozygotic twins
<b>E1.0.2.7.1.0.9</b>	Gemini monozygotici monochorionici diamniotici	Monochorial di-amniotic twins
<b>E1.0.2.7.1.0.10</b>	Gemini monozygotici monochorionici monoamniotici	Monochorial mono-amniotic twins
<b>E1.0.2.7.1.0.11</b>	Pregnatio multiplex	Multiple pregnancy
<b>E1.0.2.7.1.0.12</b>	Plurigemini polyzygotici	Polyzygotic fetuses
<b>E1.0.2.7.1.0.13</b>	Pseudopregnatio; Pseudocyesis	Pseudopregnancy; False pregnancy
<b>E1.0.3.0.0.0.1</b>	<b>Cyclus genitalis masculinus</b>	<b>Male reproductive cycle</b>
<b>E1.0.3.0.0.0.2</b>	Phases testiculares	Testicular phases
<b>E1.0.3.0.0.0.3</b>	Phasis infantilis	Infantile phase
<b>E1.0.3.0.0.0.4</b>	Phasis praepubertalis	Prepubertal phase
<b>E1.0.3.0.0.0.5</b>	Phasis pubertalis	Pubertal phase
<b>E1.0.3.0.0.0.6</b>	Phasis matura	Mature phase

<sup>17</sup> E1.0.2.6.4.0.7 *Adnexa/Membranae embryonicae et fetales; Adnexa developmentalia/Adnexa embryonica/Adnexa fetalia* The Latin word *adnexum* has been used almost exclusively in this plural form to indicate the structures (more than one) adjacent to or subservient to a major structure. The form *adnexae*, although frequently used, is incorrect.

<sup>18</sup> E1.0.2.6.4.0.10 *Phasis praegastrulationis* The pregastrulation and postgastrulation phases of the embryonic period and the fetal period are stages of prenatal development, each with its own distinctive characteristics, particularly in respect of its responses to teratogens. The *pre-gastrulation phase* begins at fertilization, continues through cleavage and implantation and ends with the establishment of a definite primitive streak in Carnegie Stage 6b at about 2 and a half weeks. It is a phase characterized by rapid increase in cell numbers and by regulation. As a result, response to teratogens is uncertain: induced errors of development may *regulate* but, if they do not, the errors are likely to be of such magnitude that early spontaneous abortion follows.

<sup>19</sup> E1.0.2.6.4.0.14 *Phasis praeparatoria; Phasis embryogenica* The characteristic of the *preparative phase* is that it is spent preparing extra-embryonic membranes and presumptive embryonic cells but that no cells of the conceptus have yet been determined as substantive embryonic cells. It has therefore been called the embryogenic phase (Johnson MH and Selwood L. Nomenclature of early development in mammals. *Reprod Fertil Dev* 1996;8:759-64). The term "pre-embryonic stage", which has been used in legal and clinical contexts, is not recommended.

<b>E1.0.3.0.0.7</b>	Phasis involuta	Involuntary phase
<b>E1.0.4.0.0.1</b>	<b>Anomaliae reproductionis</b>	<b>Reproductive anomalies</b>
<b>E1.0.4.0.0.2</b>	Infertilitas	Infertility
<b>E1.0.4.0.0.3</b>	Sterilitas	Sterility
<b>E1.0.4.0.0.4</b>	Mors praenatalis	Prenatal death
<b>E1.0.4.0.0.5</b>	Abortio	Abortion
<b>E1.0.4.0.0.6</b>	Abortus	Abortus
<b>E1.0.4.0.0.7</b>	Abortio voluntaria; Abortio therapeutica	Elective abortion; Therapeutic abortion
<b>E1.0.4.0.0.8</b>	Abortio spontanea	Spontaneous abortion
<b>E1.0.4.0.0.9</b>	Abortio imminens	Threatened abortion
<b>E1.0.4.0.0.10</b>	Abortio omissa	Missed abortion
<b>E1.0.4.0.0.11</b>	Resorptio	Resorption
<b>E1.0.4.0.0.12</b>	Retentio	Retention
<b>E1.0.4.0.0.13</b>	Retentio cum calcificatione	Retention with calcification
<b>E1.0.4.0.0.14</b>	Retentio cum compressione	Retention with compression
<b>E1.0.4.0.0.15</b>	Retentio cum mummificatione	Retention with mummification
<b>E1.0.4.0.0.16</b>	Partus mortuus	Stillbirth
<b>E1.0.4.0.0.17</b>	Fetus natus mortuus	Stillborn fetus
<b>E1.0.4.0.1.0.1</b>	<b>Anomaliae implantationis</b>	<b>Implantation defects</b>
<b>E1.0.4.0.1.0.2</b>	Implantatio corrupta	Defective implantation
<b>E1.0.4.0.1.0.3</b>	Implantatio ectopica	Ectopic implantation
<b>E1.0.4.0.1.1.1</b>	<b>Pregnatio ectopica; Pregnatio extrauterina</b>	<b>Ectopic pregnancy; Extra-uterine pregnancy</b>
<b>E1.0.4.0.1.1.2</b>	Pregnatio abdominalis	Abdominal pregnancy
<b>E1.0.4.0.1.1.3</b>	Pregnatio abdominalis primaria	Primary abdominal pregnancy
<b>E1.0.4.0.1.1.4</b>	Pregnatio abdominalis secundaria	Secondary abdominal pregnancy
<b>E1.0.4.0.1.1.5</b>	Pregnatio ovarica	Ovarian pregnancy
<b>E1.0.4.0.1.1.6</b>	Pregnatio tubalis	Tubal pregnancy
<b>E1.0.4.0.1.1.7</b>	Pregnatio tubalis infundibularis	Infundibular tubal pregnancy
<b>E1.0.4.0.1.1.8</b>	Pregnatio tubalis ampullaris	Ampullary tubal pregnancy
<b>E1.0.4.0.1.1.9</b>	Pregnatio tubalis isthmicaris	Isthmic tubal pregnancy
<b>E1.0.4.0.1.1.10</b>	Pregnatio tubalis partis uterinae	Intramural tubal pregnancy; Interstitial tubal pregnancy
<b>E1.0.4.0.2.0.1</b>	<b>Anomaliae fetales</b>	<b>Fetal anomalies</b>
<b>E1.0.4.0.2.0.2</b>	Fetus amorphicus	Amorphic fetus
<b>E1.0.4.0.2.0.3</b>	Fetus calcificatus	Calcified fetus
<b>E1.0.4.0.2.0.4</b>	Fetus papyraceus	Fetus papyraceus
<b>E1.0.4.0.2.0.5</b>	Geminus acardiacus	Acardiac twin
<b>E1.0.4.0.2.0.6</b>	Absentia totalis cordis	Total absence of heart
<b>E1.0.4.0.2.0.7</b>	Absentia subtotalis cordis	Subtotal absence of heart
<b>E1.0.4.0.2.0.8</b>	Gemini conjuncti <sup>20</sup>	Conjoined twins
<b>E1.0.4.0.2.0.9</b>	Gemini symmetrici	Symmetrical twins
<b>E1.0.4.0.2.0.10</b>	Conjunctio ventralis	Ventral conjunction
<b>E1.0.4.0.2.0.11</b>	Conjunctio ventralis rostralis	Rostral ventral conjunction
<b>E1.0.4.0.2.0.12</b>	Omphalopagia <sup>20</sup>	Omphalopagy
<b>E1.0.4.0.2.0.13</b>	Thoracopagia <sup>20</sup>	Thoracopagy
<b>E1.0.4.0.2.0.14</b>	Cephalopagia <sup>20</sup>	Cephalopagy
<b>E1.0.4.0.2.0.15</b>	Conjunctio ventralis caudalis	Caudal ventral conjunction
<b>E1.0.4.0.2.0.16</b>	Ischiopagia <sup>20</sup>	Ischiopagy
<b>E1.0.4.0.2.0.17</b>	Conjunctio ventralis lateralis	Lateral ventral conjunction
<b>E1.0.4.0.2.0.18</b>	Parapagia <sup>20</sup>	Parapagy
<b>E1.0.4.0.2.0.19</b>	Conjunctio dorsalis	Dorsal conjunction
<b>E1.0.4.0.2.0.20</b>	Craniopagia <sup>20</sup>	Craniopagy
<b>E1.0.4.0.2.0.21</b>	Rachipagia <sup>20</sup>	Rachipagy
<b>E1.0.4.0.2.0.22</b>	Pygopagia <sup>20</sup>	Pygopagy
<b>E1.0.4.0.2.0.23</b>	Gemini asymmetrici	Asymmetrical twins

<sup>20</sup> E1.0.4.0.2.0.8 *Gemini conjuncti* See Spencer R. Conjoined twins. Baltimore: Johns Hopkins University Press; 2003. In conjoined twins, as elsewhere, convention has the suffixes -ia in Latin and -y in English indicating the condition; the suffix -us, in either language, refers to an individual with that condition.

<b>E1.0.4.0.2.0.24</b>	Inclusio	Inclusion
<b>E1.0.4.0.2.0.25</b>	Hospes	Host
<b>E1.0.4.0.2.0.26</b>	Parasitus	Parasite
<b>E1.0.4.0.2.0.27</b>	Junctio superior	Superior junction
<b>E1.0.4.0.2.0.28</b>	Junctio superior cranialis parasitica	Cranial parasite
<b>E1.0.4.0.2.0.29</b>	Junctio superior mandibularis parasitica	Mandibular parasite
<b>E1.0.4.0.2.0.30</b>	Junctio media	Middle junction
<b>E1.0.4.0.2.0.31</b>	Junctio media thoracoepigastrica parasitica	Thoraco-epigastric parasite
<b>E1.0.4.0.2.0.32</b>	Junctio media abdominalis parasitica	Abdominal parasite
<b>E1.0.4.0.2.0.33</b>	Junctio inferior	Inferior junction
<b>E1.0.4.0.2.0.34</b>	Junctio inferior pygalis parasitica	Buttocks parasite
<b>E1.0.4.0.2.0.35</b>	Gigantismus	Gigantism
<b>E1.0.4.0.2.0.36</b>	Nanismus	Dwarfism
<b>E1.0.4.0.2.0.37</b>	Achondroplasia	Achondroplasia
<b>E1.0.4.0.2.0.38</b>	Ateliosis	Ateliosis
<b>E1.0.4.0.2.0.39</b>	Cretinismus	Cretinism
<b>E1.0.5.0.0.1</b>	<b>Gametogenesis</b>	<b>Gametogenesis</b>
	<i>Nomina generalia</i>	<i>General terms</i>
<b>E1.0.5.0.0.1.1</b>	<b>Interphasis</b>	<b>Interphase</b>
<b>E1.0.5.0.0.1.2</b>	Phasis G <sub>1</sub> ; Intervallum postmitoticum	G <sub>1</sub> phase; Postmitotic interval; First gap
<b>E1.0.5.0.0.1.3</b>	Phasis G <sub>0</sub>	G <sub>0</sub> phase; Resting phase
<b>E1.0.5.0.0.1.4</b>	Phasis S; Phasis synthetica	S phase; Synthesis phase
<b>E1.0.5.0.0.1.5</b>	Phasis G <sub>2</sub> ; Intervallum praemitoticum	G <sub>2</sub> phase; Premitotic interval; Second gap
<b>E1.0.5.0.0.2.1</b>	<b>Mitosis; Phasis M</b> <sup>21</sup>	<b>Mitosis; M phase</b>
<b>E1.0.5.0.0.2.2</b>	Prophasis	Prophase
<b>E1.0.5.0.0.2.3</b>	Prometaphasis	Prometaphase
<b>E1.0.5.0.0.2.4</b>	Metaphasis	Metaphase
<b>E1.0.5.0.0.2.5</b>	Anaphasis	Anaphase
<b>E1.0.5.0.0.2.6</b>	Telophasis	Telophase
<b>E1.0.5.0.0.3.1</b>	<b>Meiosis</b> <sup>21</sup>	<b>Meiosis</b>
<b>E1.0.5.0.0.3.2</b>	Meiosis I	Meiosis I
<b>E1.0.5.0.0.3.3</b>	Prophasis I	Prophase I
<b>E1.0.5.0.0.3.4</b>	Chromosoma bivalens	Bivalent chromosome
<b>E1.0.5.0.0.3.5</b>	Prometaphasis I	Prometaphase I
<b>E1.0.5.0.0.3.6</b>	Metaphasis I	Metaphase I
<b>E1.0.5.0.0.3.7</b>	Anaphasis I	Anaphase I
<b>E1.0.5.0.0.3.8</b>	Telophasis I	Telophase I
<b>E1.0.5.0.0.3.9</b>	Meiosis II	Meiosis II
<b>E1.0.5.0.0.3.10</b>	Prometaphasis II	Prometaphase II
<b>E1.0.5.0.0.3.11</b>	Metaphasis II	Metaphase II
<b>E1.0.5.0.0.3.12</b>	Anaphasis II	Anaphase II
<b>E1.0.5.0.0.3.13</b>	Telophasis II	Telophase II
<b>E1.0.5.0.0.3.14</b>	Chromosoma univalens	Univalent chromosome
<b>E1.0.5.0.0.4.1</b>	<b>Status ploideus</b>	<b>Ploidy</b>
<b>E1.0.5.0.0.4.2</b>	Status euploideus	Euploidy
<b>E1.0.5.0.0.4.3</b>	Status diploideus	Diploidy
<b>E1.0.5.0.0.4.4</b>	Status haploideus	Haploidy
<b>E1.0.5.0.0.5.1</b>	<b>Complementum chromosomatum</b>	<b>Chromosome complement</b>
<b>E1.0.5.0.0.5.2</b>	I; 1N	1N
<b>E1.0.5.0.0.5.3</b>	II; 2N	2N
<b>E1.0.5.0.0.5.4</b>	IV; 4N	4N
<b>E1.0.5.0.1.0.1</b>	<b>Sequentia gametogenesis</b>	<b>Gametogenetic sequence</b>
<b>E1.0.5.0.1.0.2</b>	Genum a parente impressum <sup>22</sup>	Parental gene imprinting; Genome imprinting; Genetic imprinting
<b>E1.0.5.0.1.1.1</b>	<b>Cellula germinalis praecursoria [Diploidia II]</b>	<b>Primordial germ cell [Diploid 2N]</b>

<sup>21</sup> E1.0.5.0.0.2.1/ E1.0.5.0.0.3.1 *Mitosis; Phasis M/Meiosis* Only the main stages of *Mitosis* and *Meiosis* are listed here; a fuller listing is in Terminologia Histologica.

<sup>22</sup> E1.0.5.0.1.0.2 *Genum a parente impressum* Genomic imprinting occurs during meiosis II of gametogenesis and persists until the primary gametocyte stage in the next generation.

<b>E1.0.5.0.1.1.2</b>	Mitosis	Mitosis
<b>E1.0.5.0.1.2.1</b>	<b>Gametogonium</b> [Diploidia II]	<b>Gametogonium</b> [Diploid 2N]
<b>E1.0.5.0.1.2.2</b>	Gametogonium in phasi G <sub>2</sub> [Diploidia IV]	Gametogonium in G <sub>2</sub> phase [Diploid 4N]
<b>E1.0.5.0.1.1.2</b>	Mitosis	Mitosis
<b>E1.0.5.0.1.3.1</b>	<b>Gametocytus primarius</b> [Diploidia IV]	<b>Primary gametocyte</b> [Diploid 4N]
<b>E1.0.5.0.1.3.2</b>	Erasio impressionis parentalis prioris	Erasure of previous parental imprinting
<b>E1.0.5.0.0.3.2</b>	Meiosis I	Meiosis I
<b>E1.0.5.0.1.4.1</b>	<b>Gametocytus secundarius</b> [Haploidia II]	<b>Secondary gametocyte</b> [Haploid 2N]
<b>E1.0.5.0.1.4.2</b>	Interkinesis	Interkinesis
<b>E1.0.5.0.0.3.9</b>	Meiosis II	Meiosis II
<b>E1.0.5.0.1.4.3</b>	Impressio parentalis nova	New parental imprinting
<b>E1.0.5.0.1.5.1</b>	<b>Gametus; Gonocytus</b> [Haploidia I]	<b>Gamete; Germ cell</b> [Haploid N]
<b>E1.0.5.0.0.3.14</b>	Chromosoma univalens	Univalent chromosome
<b>E1.0.5.0.1.5.2</b>	Autosoma	Autosome
<b>E1.0.5.0.1.5.3</b>	Chromosoma sexuelle; Gonosoma	Sex chromosome
<b>E1.0.5.0.1.5.4</b>	Chromosoma X; Gonosoma femininum	X chromosome
<b>E1.0.5.0.1.5.5</b>	Inactivatio chromosomatis X; Inactivatio gonosomatis feminini	X chromosome inactivation
<b>E1.0.5.0.1.5.6</b>	Chromosoma Y; Gonosoma masculinum	Y chromosome
<b>E1.0.2.2.0.0.2</b>	<b>OOGENESIS</b>	<b>OOGENESIS</b>
<b>E1.0.5.1.0.0.1</b>	Cyclus oogeneticus	Oogenetic cycle
<b>E1.0.5.1.0.0.2</b>	Oogonium [Diploidia II]	Oogonium [Diploid 2N]
<b>E1.0.5.1.0.0.3</b>	Oogonium in phasi G <sub>2</sub> [Diploidia IV]	Oogonium in G <sub>2</sub> phase [Diploid 4N]
<b>E1.0.5.1.0.0.4</b>	Oocytus primarius [Diploidia IV]	Primary oocyte [Diploid 4N]
<b>E1.0.5.1.0.0.5</b>	Polus animalis; Polus embryonicus praesumptivus <sup>23</sup>	Animal pole; Presumptive embryonic pole
<b>E1.0.5.1.0.0.6</b>	Polus vegetalis	Vegetal pole
<b>E1.0.5.1.0.0.7</b>	Corpus polare primum [Diploidia II]	First polar body; First polocyte [Diploid 2N]
<b>E1.0.5.1.0.0.8</b>	Oocytus secundarius; Gametus femininus [Diploidia II]	Secondary oocyte; Female gamete [Diploid 2N]
<b>E1.0.5.1.0.0.9</b>	Genum a matre impressum	Maternally imprinted gene
<b>E1.0.5.1.0.0.10</b>	Genum cum effectibus maternis	Maternal effect gene
<b>E1.0.5.1.0.0.11</b>	Genum extrachromosomale	Extrachromosomal gene
<b>E1.0.5.1.0.0.12</b>	Genum mitochondriale	Mitochondrial gene
<b>E1.0.5.1.0.0.13</b>	Oocytus secundarius repressus in Metaphasi II [Diploidia IV]	Secondary oocyte arrested in Metaphase II [Diploid 4N]
<b>E1.0.5.1.0.0.5</b>	Polus animalis; Polus embryonicus praesumptivus <sup>23</sup>	Animal pole; Presumptive embryonic pole
<b>E1.0.5.1.0.0.6</b>	Polus vegetalis	Vegetal pole
<b>E1.0.5.2.0.0.1</b>	<b>PELLUCIDAGENESIS; ZONAGENESIS</b> <sup>24</sup>	<b>ZONA PELLUCIDA FORMATION; CAPSULA PELLUCIDA FORMATION</b>
<b>E1.0.5.2.0.0.2</b>	Epithelium simplex cuboideum folliculi ovarici	Simple cuboidal epithelium of ovarian follicle
<b>E1.0.5.1.0.0.4</b>	Oocytus primarius [Diploidia IV]	Primary oocyte [Diploid 4N]
<b>E1.0.5.2.0.0.3</b>	Zona pellucida; Capsula pellucida <sup>25</sup>	Zona pellucida; Capsula pellucida
<b>E1.0.5.2.0.0.4</b>	Processus cellulae cuboidalis follicularis et oocytii	Processes of cuboidal epithelial follicle cell and oocyte
<b>E1.0.5.2.0.0.5</b>	Proteina zonae pellucidae 1-3	Zona pellucida proteins [ZP] 1-3

<sup>23</sup> E1.0.5.1.0.0.5 *Polus animalis* Being microlecithal, the human primary oocyte does not exhibit the obvious polarity characteristic of more richly yolked oocytes. It does, however, exhibit some degree of asymmetry in distribution of cytoplasmic elements. The *animal pole* of the arrested secondary oocyte is identified by the position of the second meiotic spindle and the lack of microvilli on the cell membrane overlying it. After fertilization, the animal pole of the ootid is characterized by the presence of the female and male pronuclei. There is no necessary relationship between the animal-vegetal axis and the future embryonic-abembryonic (dorsoventral) axis. In some (but not all) mouse zygotes, the animal-vegetal axis corresponds to the long axis of the ellipsoid blastocyst and thus to the anteroposterior axis of the embryo. In these cases the animal-vegetal axis is orthogonal to the embryonic-abembryonic axis (Selwood L, Johnson MH. Trophoblast and hypoblast in the monotreme, marsupial and eutherian mammal: evolution and origins. BioEssays 2006;28:128-145).

<sup>24</sup> E1.0.5.2.0.0.1 *Pellucidagenesis: Zonagenesis* Although the term *zonagenesis* is widely used in zoology, it is not recommended as it lacks a locational adjective and could thus apply to any zone. Although the *zona pellucida* cannot be seen with the light microscope before the *primary ovarian follicle* has developed, the heavily glycosylated proteins ZP 1-3 can be demonstrated in the oocytes and follicle cells of *primordial follicles* (Gook DA, Edgar DH, Borg J and Martic M. Detection of zona pellucida proteins during human folliculogenesis. Hum Reprod 2008;23:394-402).

<sup>25</sup> E1.0.5.2.0.0.3 *Zona pellucida; Capsula pellucida* The term *capsula pellucida* (Blechsmidt E, Gasser R. Biokinetics and biodynamics of human differentiation. Springfield: Charles C Thomas; 1978) is included because it appropriately describes the three-dimensional structure, which successively encloses the oocyte, the zygote, the morula and the unhatched blastocyst.

<b>E1.0.5.3.0.0.1</b>	<b>SPERMATOGENESIS</b>	<b>SPERMATOGENESIS: SPERMATOGENY</b>
<b>E1.0.5.3.0.0.2</b>	Unda spermatogenetica; Unda epithelii spermatogenici	Spermatogenic wave; Wave of spermatogenic epithelium
<b>E1.0.5.3.0.0.3</b>	Cyclus spermatogeneticus; Cyclus epithelii spermatogenici	Spermatogenic cycle; Cycle of spermatogenic epithelium
<b>E1.0.5.3.0.0.4</b>	Spermatogonium [Diploidia II] {vide Terminologia Histologica}	Spermatogonium [Diploid 2N] {see Terminologia Histologica}
<b>E1.0.5.3.0.0.5</b>	Spermatogonium in phasi G <sub>2</sub> [Diploidia IV]	Spermatogonium in G <sub>2</sub> phase [Diploid 4N]
<b>E1.0.5.3.0.0.6</b>	Spermatocytogenesis	Spermatocytogenesis
<b>E1.0.5.3.0.0.7</b>	Spermatocytus primarius [Diploidia IV]	Primary spermatocyte [Diploid 4N]
<b>E1.0.5.3.0.0.8</b>	Spermatocytus secundarius [Haploidia II]	Secondary spermatocyte [Haploid 2N]
<b>E1.0.5.3.0.0.9</b>	Spermatidium [Haploidia I]	Spermatid [Haploid 1N]
<b>E1.0.5.3.0.0.10</b>	Spermiatio; Disjunctio ab sustentatocyto	Spermiation; Detachment from sustentacular cell
<b>E1.0.5.3.0.0.11</b>	Spermiogenesis {vide Terminologia Histologica}	Spermiogenesis {see Terminologia Histologica}
<b>E1.0.5.3.0.0.12</b>	Spermatozoon; Spermium; Gametus masculinus [Haploidia I] {vide Terminologia Histologica}	Sperm; Sperm cell; Male gamete [Haploid 1N] {see Terminologia Histologica}
<b>E1.0.5.3.0.0.13</b>	Genum a patre impressum	Paternally imprinted gene
<b>E1.0.5.3.0.0.14</b>	Genum cum effectibus paternis	Paternal effect gene
<b>E1.0.5.3.0.0.15</b>	Capacitatio	Capacitation
<b>E1.0.5.4.0.0.1</b>	<b>FERTILISATIO ANTE PENETRATIONEM SPERMATOZOI</b>	<b>FERTILIZATION BEFORE SPERM PENETRATION</b>
<b>E1.0.5.4.0.0.2</b>	Via spermatica; Iter spermaticum	Sperm track
<b>E1.0.5.4.0.0.3</b>	Corona radiata	Corona radiata
<b>E1.0.5.4.0.0.4</b>	Via per coronam radiatam	Coronal penetration track
<b>E1.0.5.2.0.0.3</b>	Zona pellucida; Capsula pellucida <sup>25</sup>	Zona pellucida; Capsula pellucida
<b>E1.0.5.4.0.0.5</b>	Contactum spermatozoi capacitati cum zona pellucida	Sperm-zona contact
<b>E1.0.5.4.0.0.6</b>	Reactio acrosomalis	Acrosome reaction
<b>E1.0.5.4.0.0.7</b>	Via per zonam pellucidam; Via penetrationis	Pellucidal penetration track
<b>E1.0.5.4.0.0.8</b>	Spatium subzonale; Spatium subcapsulare	Subzonal space; Subcapsular space
	<b>Ontogenesis</b> <sup>26</sup>	<b>Ontogeny</b>
<b>E2.0.0.0.0.0.1</b>	<b>Ordo ontogeneticus</b>	<b>Ontogenetic sequence</b>
<b>E1.0.0.0.0.0.21</b>	<b>Ontogenesis praenatalis</b>	<b>Prenatal ontogeny</b>
<b>E2.0.1.1.0.0.1</b>	<b>FERTILISATIO POST PENETRATIONEM SPERMATOZOI</b> <sup>27</sup>	<b>FERTILIZATION FROM SPERM PENETRATION</b>
<b>E2.0.1.1.0.0.2</b>	Monospermia	Monospermy
<b>E2.0.1.1.0.0.3</b>	Dispermia	Dispermy
<b>E2.0.1.1.0.0.4</b>	Polyspermia	Polyspermy
<b>E2.0.1.1.0.0.5</b>	Coagmentatio spermatozoi ad oocytum	Binding of sperm to oocyte
<b>E2.0.1.1.0.0.6</b>	Conjunctio inter plasmalemmata spermatozoi et oocyti	Fusion between plasma membranes of sperm and oocyte
<b>E2.0.1.1.0.0.7</b>	Ingressio spermatozoi	Entry of sperm
<b>E2.0.1.1.0.0.8</b>	Determinatio sexus genetici	Determination of genetic sex
<b>E2.0.1.1.0.0.9</b>	Aditus natrii ionici in oocytum provocans reactionem positivam eius partis interioris	Sodium ion inflow into oocyte making internal charge positive
<b>E2.0.1.1.0.0.10</b>	Obsidio subita polyspermiae	Fast polyspermy block
<b>E2.0.1.1.0.0.11</b>	Propagatio undae calcii in oocyto	Calcium wave spreads in oocyte
<b>E2.0.1.1.0.1.1</b>	<b>Activatio oocyti</b>	<b>Activation of oocyte</b>
<b>E2.0.1.1.0.1.2</b>	Peractio divisionis meioticae secundae	Completion of second meiotic division
<b>E2.0.1.1.0.1.3</b>	Pronucleus femininus; Pronucleus maternus [Haploidia I]	Female pronucleus; Maternal pronucleus [Haploid 1N]

<sup>26</sup> *Ontogenesis* Ontogenesis is defined here as the development of the individual, beginning at fertilization and ending at death. It thus covers the principal concerns of this terminology (embryogenesis, fetogenesis and immediate postnatal development) but extends beyond them.

<sup>27</sup> *E2.0.1.1.0.0.1 Fertilisatio postpenetrationem spermatozoi* Some of the features included in this section are inferred because they are common to all mammalian fertilization: others, such as *Zonal reaction* and *Fertilization cone*, have been observed in the human as a result of *in vitro* fertilization.



<b>E2.0.1.1.0.1.4</b>	Corpus polare secundum; Polocytus secundarius <sup>28</sup> [Haploidia I]	Second polar body; Second polocyte[Haploid 1N]
<b>E2.0.1.1.0.1.5</b>	(Divisio corporis polaris primarii)	(Division of first polar body; Division of first polocyte)
<b>E2.0.1.1.0.1.6</b>	(Corpora polaria duo descendencia) [Haploidia I]	(Two daughter polocytes) [Haploid 1N]
<b>E2.0.1.1.0.1.7</b>	Reactio corticalis	Cortical reaction
<b>E2.0.1.1.0.1.8</b>	Conjunctio granulorum corticalium cum plasmalemmate oocytico	Fusion of cortical granules with oocytic plasma membrane
<b>E2.0.1.1.0.1.9</b>	Liberatio enzymatum in spatium zonale; Liberatio enzymatum in spatium subcapsulare	Enzyme release into subzonal space; Enzyme release into subcapsular space
<b>E2.0.1.1.0.1.10</b>	Discessio receptorum ligantium spermatozoa	Removal of sperm-binding receptors
<b>E2.0.1.1.0.1.11</b>	Obsidio lenta polyspermae	Slow polyspermy block
<b>E2.0.1.1.0.1.12</b>	Renegativatio interna	Return of internal charge to negative
<b>E2.0.1.1.0.1.13</b>	Dilatatio spatii subzonalis; Dilatio spatii subcapsularis	Expansion of subzonal space; Expansion of subcapsular space
<b>E2.0.1.1.0.1.14</b>	Liquor subzonalis copiosus	Plenteous subzonal fluid
<b>E2.0.1.1.0.1.15</b>	Reactio zonalis; Reactio capsularis	Zonal reaction; Capsular reaction
<b>E2.0.1.1.0.1.16</b>	Induratio zonae pellucidae; Induratio capsulae pellucidae	Hardening of zona pellucida; Hardening of capsula pellucida
<b>E2.0.1.1.0.1.17</b>	Conus fertilisationis	Fertilization cone
<b>E2.0.1.1.0.1.18</b>	Positio intraoocytica nuclei spermatozoi [Haploidia I]	Intra-oocytic sperm nucleus [Haploid 1N]
<b>E2.0.1.1.0.1.19</b>	Numerus diploideus chromosomatum non replicatorum in oocyto penetrato; Numerus diploideus chromosomatum non replicatorum in oocyto definitivo [II]	Diploid number of unreplicated chromosomes in penetrated oocyte; Diploid number of unreplicated chromosomes in definitive oocyte [2N]
<b>E2.0.1.1.0.1.20</b>	Dissolutio tegumenti nuclearis spermatozoi et decondensatio chromatini	Dissolution of sperm nuclear envelope and decondensation of chromatin
<b>E2.0.1.1.0.1.21</b>	Reconstitutio tegumenti nuclearis spermatozoi et reorganisatio chromatini formans pronucleum masculinum in ootidio	Reconstitution of sperm nuclear envelope and re-organization of chromatin to form male pronucleus in ootid
<b>E2.0.1.1.0.1.22</b>	Appropinquatio pronucleorum	Approximation of pronuclei
<b>E2.0.1.1.0.1.23</b>	Syngamia <sup>29</sup>	Syngamy
<b>E2.0.1.1.0.1.24</b>	Vesiculatio et disintegratio tegumentorum nuclearium	Vesiculation and disintegration of nuclear envelopes
<b>E2.0.1.1.0.1.25</b>	Coniugatio; Synapsis	Conjugation
<b>E2.0.1.1.0.1.26</b>	Formatio genomi embryonici	Formation of embryonic genome
<b>E2.0.1.1.0.1.27</b>	Activatio prima genorum zygoti <sup>30</sup>	First transcription; First zygotic activation [ZGA1]
<b>E2.0.1.1.0.1.28</b>	Dispositio chromosomatum homologorum conjunctorum super fusum fissionis primae extra centrum positum	Arrangement of paired homologous chromosomes on eccentric first cleavage spindle
<b>E2.0.1.1.0.1.29</b>	Axis polaris <sup>28</sup>	Plane of first cleavage division; Polar axis
<b>E2.0.1.1.0.1.30</b>	Fissio prima	First cleavage division
<b>E2.0.1.1.0.2.1</b>	<b>Fertilisatio simplex</b>	<b>Single fertilization</b>
<b>E1.0.2.7.1.0.3</b>	Cyema singulare	Singleton; Single cyema
<b>E2.0.1.1.0.3.1</b>	<b>Fertilisatio duplex</b>	<b>Double fertilization</b>
<b>E1.0.2.7.1.0.6</b>	Gemini dizygotici	Dizygotic twins

<sup>28</sup> E2.0.1.1.0.1.4 *Corpus polare secundum; Polocytus secundarius* A line through the centres of the zygote and the second polar body defines the polar axis and indicates the plane of the first cleavage division (Veeck L L, Zaninovic N. An atlas of human blastocysts. New York: Parthenon Publishing Group 2003).

<sup>29</sup> E2.0.1.1.0.1.23 *Syngamia* Traditionally, *syngamy* has meant sexual reproduction or, more specifically, the fusion of gametes. However, in *in vitro* fertilization it has come to describe a stage, beginning some 21-32 hr after insemination, in which maternal and paternal chromosomes intermingle, although this is not easily discernible by ordinary microscopy (Sathananthan H, Trounson AO, Wood C. Atlas of fine structure of human sperm penetration, eggs and embryos cultured in vitro. New York: Praeger Publishers 1986).

<sup>30</sup> E2.0.1.1.0.1.27 *Activatio geni zygotici una* This *first transcription* produces only a minor population of mRNAs whereas the second transcription (ZGA2), in the two-celled embryo, produces a major population: most maternal mRNA is degraded at this time although maternal proteins persist into the blastocyst stage (Selwood L, Johnson MH. Trophoblast and hypoblast in the monotreme, marsupial and eutherian mammal: evolution and origins. *BioEssays* 2006;28:128-145).

<b>E2.0.1.2.0.0.1</b>	<b>TEMPUS EMBRYONICUM; GRADUS CARNEGIENSES [St.1 ad 23]<sup>31</sup></b>	<b>EMBRYONIC PERIOD; CARNEGIE STAGES [St. 1-23]</b>
<b>E1.0.0.0.0.0.25</b>	Embryogenesis <sup>2</sup>	Embryogenesis; Embryogeny
<b>E2.0.1.2.0.0.2</b>	Blastogenesis [St.1-7]	Blastogenesis [St.1-7]
<b>E1.0.2.6.4.0.5</b>	Embryo [St.1 ad 23] <sup>15</sup>	Embryo [St.1-23]
<b>E2.0.1.2.0.0.3</b>	Embryo praegastrulationis [St.1 ad 6a] <sup>32</sup>	Pregastrulation embryo [St.1-6a]
<b>E2.0.1.2.0.0.4</b>	Embryo praeimplantationis [St.1 ad 4]	Pre-implantation embryo [St.1-4]
<b>E2.0.1.2.0.0.5</b>	Embryo praeblastocysticum [St.1 ad 2]	Preblastocystic embryo [St.1-2]
<b>E2.0.1.2.0.0.6</b>	Gradus cellulae unicae; Embryo unicellulare [St.1]	One-cell stage; Single cell embryo [St.1]
<b>E2.0.1.2.0.0.7</b>	Oocytus penetratus; Oocytus definitivus; Embryo primordiale [St.1a]	Penetrated oocyte; Definitive oocyte; Primordial embryo [St.1a]
<b>E2.0.1.2.0.0.8</b>	Ootidium; Ovum; Embryo pronuclearis [St.1b]	Ootid; Ovum; Pronuclear embryo [St.1b]
<b>E2.0.1.2.0.0.9</b>	Zygotum; Embryo syngamicum [St.1c]	Zygote; Syngamic embryo [St.1c]
<b>E2.0.1.2.0.0.10</b>	Zygotum findens [St.2]	Cleaving zygote [St. 2]
<b>E2.0.1.2.0.0.11</b>	Morula	Morula
<b>E1.0.2.7.1.0.3</b>	Cyema singulare	Singleton; Single cyema
<b>E1.0.2.7.1.0.8</b>	Gemini monozygotici dichorionici diamniotici	Dichorial di-amniotic monozygotic twins
<b>E2.0.1.2.0.0.12</b>	Blastocystis [St.3 ad 5]	Blastocyst [St.3-5]
<b>E2.0.1.2.0.0.13</b>	Blastocystis libera [St.3]	Free blastocyst [St.3]
<b>E2.0.1.2.0.0.14</b>	Discus embryonicus	Embryonic disc
<b>E2.0.1.2.0.0.15</b>	Facies dorsalis embryonis	Dorsal embryonic surface
<b>E2.0.1.2.0.0.16</b>	Facies ventralis embryonis	Ventral embryonic surface
<b>E1.0.2.7.1.0.3</b>	Cyema singulare	Singleton; Single cyema
<b>E1.0.2.7.1.0.9</b>	Gemini monochorionici diamniotici	Monochorial di-amniotic twins
<b>E2.0.1.2.0.0.17</b>	Adplantatio <sup>33</sup>	Adplantation
<b>E2.0.1.2.0.0.18</b>	Blastocystis adhaerens [St.4]	Attaching blastocyst [St.4]
<b>E1.0.2.7.1.0.3</b>	Cyema singulare	Singleton; Single cyema
<b>E1.0.2.7.1.0.9</b>	Gemini monochorionici diamniotici	Monochorial di-amniotic twins
<b>E2.0.1.2.0.0.19</b>	Implantatio interstitialis	Interstitial implantation
<b>E2.0.1.2.0.0.20</b>	Blastocystis implantata; Blastocystis invadens; Conceptus praevillosus [St.5]	Implanted blastocyst; Invading blastocyst; Previllos conceptus[St.5]
<b>E1.0.2.7.1.0.3</b>	Cyema singulare	Singleton; Single cyema
<b>E1.0.2.7.1.0.10</b>	Gemini monochorionici monoamniotici	Monochorial mono-amniotic twins
<b>E2.0.1.2.0.0.21</b>	Blastocystis invadens sine lacunis trophoblasticis [St.5a]	Invading blastocyst without trophoblastic lacunae [St.5a]
<b>E2.0.1.2.0.0.22</b>	Blastocystis invadens cum lacunis trophoblasticis separatis [St.5b]	Invading blastocyst with isolated trophoblastic lacunae [St.5b]
<b>E2.0.1.2.0.0.23</b>	Blastocystis invadens cum lacunis communicantibus [St.5c]	Invading blastocyst with intercommunicating lacunae [St.5c]
<b>E2.0.1.2.0.0.24</b>	Margo disci embryonici	Border of embryonic disc
<b>E2.0.1.2.0.0.25</b>	Polus caudalis embryonis	Caudal pole of embryo; Caudal end of embryo
<b>E2.0.1.2.0.0.26</b>	Polus rostralis embryonis <sup>34</sup>	Rostral pole of embryo; Rostral end of embryo
<b>E2.0.1.2.0.0.27</b>	Latus dextrum embryonis <sup>35</sup>	Right side of embryo

<sup>31</sup> E2.0.1.2.0.0.1 *Tempus embryonicum; Gradus carnegiensis [1-23]* There are 23 defined stages of development during the embryonic period, which begins at fertilization and ends, somewhat arbitrarily, 56 days later, by which time the embryo has already acquired uniquely human surface features that are apparent with the unaided eye. The stages are the internationally accepted Carnegie Stages (O'Rahilly R, Müller F. Developmental stages in human embryos. Washington DC: Carnegie Institution of Washington; 1987). Each Carnegie Stage is an arbitrarily defined cut through the time axis of the embryo and is based upon carefully-defined external and internal morphological criteria and not length or age. Thus, embryos of a particular length or age are not necessarily embryos of a particular stage. Carnegie Stage cannot be assigned solely on the basis of such measurements. Details of the individual Stages and related footnotes begin on page XX E7.0.1.1.0.1. Their corresponding ages, which are given in footnotes, are based on current data from ultrasonic studies (Dickey RP, Gasser RF. Ultrasound evidence for variability in the size and development of normal human embryos before the tenth postinsemination week after assisted reproductive technologies. Hum Reprod 1993;8:331-337; Wisser J, Dirschedl P, Krone S. Estimation of gestational age by transvaginal sonographic measurement of greatest embryonic length in dated human embryos. Ultrasound Obstet Gynecol 1994;4:457-462).

<sup>32</sup> E2.0.1.2.0.0.3 *Embryo praegastrulationis [St.1 ad 6a]* The term *pregastrulation embryo* is useful because such an embryo has distinctive attributes (see footnote<sup>18</sup>). The foreshortened term "pre-embryo", which has been used in legal and clinical contexts, is not recommended.

<sup>33</sup> E2.0.1.2.0.0.17 *Adplantatio* *Adplantation* is a useful term defined as "the act of the blastocyst drawing towards and attaching to the uterine mucosa" (Blechschild E, Gasser R. Biokinetics and biodynamics of human differentiation. Springfield: Charles C Thomas; 1978).

<sup>34</sup> E2.0.1.2.0.0.26 *Polus rostralis embryonis* Although *rostrum* means a beak, a snout or the prow of a ship, *rostral* is commonly used as the opposite of caudal, particularly before the appearance of cephalic structures in Stage 8 or cranial structures in Stage 13, but also thereafter: it is also used in neuro-anatomy to mean nearer the *rostrum* of the *corpus callosum* in the unfolded nervous system.

<b>E2.0.1.2.0.0.28</b>	Latus sinistrum embryonis	Left side of embryo
<b>E2.0.1.2.0.0.29</b>	Conceptus villosus [St.6]	Villous conceptus [St.6]
<b>E2.0.1.2.0.0.30</b>	Conceptus villosus sine linea primitiva manifesta [St.6a]; Conceptus villosus sine linea gastrulationis manifesta [St.6a]	Villous conceptus without obvious primitive streak [St.6a]; Villous conceptus without obvious gastrulation streak [St.6a]
<b>E2.0.1.2.0.0.31</b>	Conceptus villosus cum linea primitiva manifesta [St.6b]; Conceptus villosus cum linea gastrulationis manifesta [St.6b]	Villous conceptus with obvious primitive streak [St.6b]; Villous conceptus with obvious gastrulation streak [St.6b]
<b>E2.0.1.2.0.0.32</b>	Embryo postgastrulationis [St.6b ad 23] <sup>36</sup>	Postgastrulation embryo [St.6b-23]
<b>E2.0.1.2.0.0.33</b>	Embryo cum processu notochordali [St.7]; Embryo cum processu axiali [St.7]; Embryo cum chordomesoderma [St.7]	Embryo with notochordal process [St.7]; Embryo with axial process [St.7]; Embryo with chordamesoderm [St.7]
<b>E2.0.1.2.0.0.34</b>	Embryo praesomiticum [St.8]	Presomite embryo [St.8]
<b>E2.0.1.2.0.0.35</b>	Embryo praesomiticum sine sulco neurale [St.8a]	Presomite embryo without neural groove [St.8a]
<b>E2.0.1.2.0.0.36</b>	Embryo praesomiticum cum sulco neurale [St.8b]	Presomite embryo with neural groove [St.8b]
<b>E2.0.1.2.0.0.37</b>	Polus cephalicus embryonis <sup>37</sup>	Cephalic pole of embryo; Cephalic end of embryo
<b>E2.0.1.2.0.0.38</b>	Embryo somiticum [St.9 ad 13]	Somite embryo [St.9-13]
<b>E2.0.1.2.0.0.39</b>	Embryo cum somitis I ad III [St.9]	1-3 somite embryo [St.9]
<b>E2.0.1.2.0.0.40</b>	Embryo cum somitis IV ad XII [St.10]	4-12 somite embryo [St.10]
<b>E2.0.1.2.0.0.41</b>	Embryo cum somitis XIII ad XX [St.11]	13-20 somite embryo [St.11]
<b>E2.0.1.2.0.0.42</b>	Embryo cum somitis XXI ad XXIX [St.12]	21-29 somite embryo [St.12]
<b>E2.0.1.2.0.0.43</b>	Embryo cum somitis XXX+ [St.13]	30+ somite embryo [St.13]
<b>E2.0.1.2.0.0.44</b>	Polus cranialis embryonis <sup>38</sup>	Cranial end of embryo
<b>E2.0.1.2.0.0.45</b>	Embryo gradus XIV [St.14]	Stage 14 embryo [St.14]
<b>E2.0.1.2.0.0.46</b>	Embryo gradus XV [St.15]	Stage 15 embryo [St.15]
<b>E2.0.1.2.0.0.47</b>	Embryo gradus XVI [St.16]	Stage 16 embryo [St.16]
<b>E2.0.1.2.0.0.48</b>	Embryo gradus XVII [St.17]	Stage 17 embryo [St.17]
<b>E2.0.1.2.0.0.49</b>	Embryo gradus XVIII [St.18]	Stage 18 embryo [St.18]
<b>E2.0.1.2.0.0.50</b>	Embryo gradus XIX [St.19]	Stage 19 embryo [St.19]
<b>E2.0.1.2.0.0.51</b>	Embryo gradus XX [St.20]	Stage 20 embryo [St.20]
<b>E2.0.1.2.0.0.52</b>	Embryo gradus XXI [St.21]	Stage 21 embryo [St.21]
<b>E2.0.1.2.0.0.53</b>	Embryo gradus XXII [St.22]	Stage 22 embryo [St.22]
<b>E2.0.1.2.0.0.54</b>	Embryo gradus XXIII [St.23]	Stage 23 embryo [St.23]
<b>E2.0.1.3.0.0.1</b>	<b>TEMPUS FETALE<sup>39</sup></b>	<b>FETAL PERIOD</b>
<b>E1.0.0.0.0.26</b>	Fetogenesis <sup>3</sup>	Fetogenesis
<b>E1.0.2.6.4.0.6</b>	Fetus	Fetus
<b>E2.0.1.3.0.0.2</b>	Aetas fetalis <sup>40</sup>	Fetal age

<sup>35</sup> E2.0.1.2.0.0.27 *Latus dextrum embryonis* Although the sides of the embryo can be recognized and cranial patterning occurs in Stage 5, it is not until Stage 6b, with the formation of the primitive node, that the molecular basis for left-right asymmetry is established.

<sup>36</sup> E2.0.1.2.0.0.32 *Embryo postgastrulationis [St.6b ad 23]* The pregastrulation and postgastrulation phases of the embryonic period and the fetal period are stages of prenatal development, each with its own distinctive characteristics, particularly in respect of its responses to teratogens. In *postgastrulation embryos* the main events of organ formation occur. These entail delicate and complex tissue interactions that are particularly susceptible to teratogens, which have dramatic effects upon morphology. Palate and lips, eyes, ears, brain, spinal cord and heart are all highly susceptible. Susceptibility diminishes as the main events of organ formation are completed by Carnegie Stage 23.

<sup>37</sup> E2.0.1.2.0.0.37 *Polus cephalicus embryonis* *Cephalic* is a positional term that may appropriately be used in Stage 8 and thereafter, when there is a presumptive brain.

<sup>38</sup> E2.0.1.2.0.0.44 *Polus cranialis embryonis* *Cranial* is a positional term that may appropriately be used in Stage 13, when the first elements of the primordial neurocranium are present in the form of a parachordal blastemal basicranium, and thereafter.

<sup>39</sup> E2.0.1.3.0.0.1 *Tempus fetale* The pregastrulation and postgastrulation phases of the embryonic period and the fetal period are stages of prenatal development, each with their own distinctive characteristics, particularly in respect of their responses to teratogens. The *fetal period* is taken, somewhat arbitrarily, to begin on day 57, by which time the embryo has already acquired the distinctly human features that are apparent with the unaided eye, and ends at birth, when the fetus becomes a newborn infant or neonate. The main events of organ formation having been completed by Carnegie Stage 23, the fetal period is mainly one of growth and differentiation, particularly functional differentiation, in preparation for extra-uterine life. Notable in this context is the skeletal system, in which cartilaginous precursors are being replaced by bone, and the nervous system, which is forming functional connections. Thus abnormalities arising during this period entail disturbances of growth, of hard tissues and of neural connections, which may result in impairment of neuropsychological function.

<sup>40</sup> E2.0.1.3.0.0.2 *Aetas fetalis* *Fetal age* is usually given in weeks and is determined by the use of various starting points, of which only fertilization, insemination and ovulation are valid (see footnotes<sup>6 & 7</sup>).

<b>E2.0.1.3.0.0.3</b>	Tempus fetale primum; Fetus hebdomadis nonae ad hebdomadam tertiam decimam <sup>41</sup>	Early fetal period; Ninth-thirteenth week fetus
<b>E2.0.1.3.0.0.4</b>	Tempus fetale intermedium; Fetus trimestri secundi <sup>42</sup>	Intermediate fetal period; Second trimester fetus
<b>E2.0.1.3.0.0.5</b>	Tempus fetale serum; Fetus trimestri tertii <sup>43</sup>	Late fetal period; Third trimester fetus
<b>E1.0.0.0.0.0.28</b>	<b>Ontogenesis postnatalis</b>	<b>Postnatal ontogeny</b>
<b>E1.0.0.0.0.0.27</b>	<b>TEMPUS NATALE</b>	<b>BIRTH PERIOD</b>
<b>E2.0.2.0.0.0.1</b>	Tempus perinatale <sup>44</sup>	Perinatal period
<b>E2.0.2.0.0.0.2</b>	Infantia	Infancy
<b>E1.0.2.7.0.0.10</b>	Tempus postnatale	Postnatal period; Postpartum period
<b>E2.0.2.0.0.0.3</b>	Tempus neonatale <sup>45</sup>	Neonatal period
<b>E2.0.2.0.0.0.4</b>	Tempus neonatale initiale	Early neonatal period
<b>E2.0.2.0.0.0.5</b>	Tempus neonatale serum	Later neonatal period
<b>E2.0.2.1.0.0.1</b>	<b>TEMPORA SERIORA</b>	<b>LATER PERIODS</b>
<b>E2.0.2.1.0.0.2</b>	Pueritia	Childhood
<b>E2.0.2.1.0.0.3</b>	Phasis prima pueritiae	Early childhood
<b>E2.0.2.1.0.0.4</b>	Phasis secunda pueritiae	Later childhood
<b>E2.0.2.1.0.0.5</b>	Acceleratio praepubertalis crescentiae	Prepubertal growth spurt
<b>E2.0.2.1.0.0.6</b>	Neotenia <sup>46</sup>	Neoteny
<b>E2.0.2.1.0.0.7</b>	Paedomorphosis <sup>47</sup>	Paedomorphosis
<b>E2.0.2.1.0.0.8</b>	Pubertas	Puberty
<b>E2.0.2.1.0.0.9</b>	Adolescentia	Adolescence
<b>E2.0.2.1.0.0.10</b>	Acceleratio crescentiae adolescentiae	Adolescent growth spurt
<b>E2.0.2.1.0.0.11</b>	Aetas adulta	Adulthood
<b>E2.0.2.1.0.0.12</b>	Juvenilitas	Young adulthood
<b>E2.0.2.1.0.0.13</b>	Maturitas	Middle age
<b>E2.0.2.1.0.0.14</b>	Senectus	Old age
<b>E2.0.2.1.0.0.15</b>	Senescentia	Senescence
	<b>Embryogenesis</b>	<b>Embryogenesis; Embryogeny</b>
<b>E3.0.0.0.0.0.1</b>	<b>Processus embryonici</b>	<b>Embryonic processes</b>
<b>E3.0.0.1.0.0.1</b>	<b>FISSIO</b>	<b>CLEAVAGE</b>
<b>E3.0.0.1.0.0.2</b>	Fissio totalis	Total cleavage
<b>E3.0.0.1.0.0.3</b>	Fissio aequalis	Equal cleavage
<b>E3.0.0.1.0.0.4</b>	Fissio indeterminata	Indeterminate cleavage
<b>E3.0.0.1.0.0.5</b>	Fissio determinata	Determinate cleavage
<b>E3.0.0.1.0.0.6</b>	Planum fissionis	Cleavage plane
<b>E3.0.0.1.0.0.7</b>	Planum aequatoriale	Equatorial plane
<b>E3.0.0.1.0.0.8</b>	Planum latitudinale	Latitudinal plane

<sup>41</sup> E2.0.1.3.0.0.3 *Tempus fetale primum; fetus hebdomadis nonae ad hebdomadam tertiam decimam* The *early fetal period* here corresponds to that of the 9th to 13th week fetus and ends at 90 days and about 90mm: the conclusion of the "second sous-stade de finition histogénétique, de réglage des proportions" (Guyot R. Théorie nouvelle sur les âges de la vie. 2<sup>nd</sup> ed. Paris: Barré & Dayez; 1985) and probably the end of the first trimester. There is, however, no agreement on precisely which weeks are encompassed by the first trimester. The attributes of fetuses have not been subjected to the same systematic, intensive, investigation as have embryos. Nevertheless, there are attributes other than size and weight that characterize progression during the early fetal period.

<sup>42</sup> E2.0.1.3.0.0.4 *Tempus fetale intermedium; Fetus trimestris secundi* The *intermediate fetal period* here corresponds to that of the second trimester fetus and thus begins at 90 days and about 90mm, after the conclusion of the "second sous-stade de finition histogénétique, de réglage des proportions" (Guyot R. Théorie nouvelle sur les âges de la vie. 2<sup>nd</sup> ed. Paris: Barré & Dayez; 1985). The attributes of fetuses have not been subjected to the same systematic, intensive investigation as have embryos. Nevertheless, there are attributes other than size and weight that characterize the progression during the intermediate fetal period.

<sup>43</sup> E2.0.1.3.0.0.5 *Periodus definitivus fetalis; Fetus trimestri tertii* The *late fetal period* corresponds to that of the third trimester fetus. The attributes of fetuses have not been subjected to the same systematic, intensive investigation as have embryos. Nevertheless, there are attributes other than size and weight that characterize the progression during the late fetal period.

<sup>44</sup> E2.0.2.0.0.0.1 *Tempus perinatale* The *perinatal period* extends from immediately prior to birth, through birth and through the first 7 days of postnatal life, the early neonatal period.

<sup>45</sup> E2.0.2.0.0.0.3 *Tempus neonatale* The first 7 days after birth constitute the early *neonatal period*. The following 21 days of postnatal life constitute the late neonatal period, which thus ends with day 28.

<sup>46</sup> E2.0.2.1.0.0.6 *Neotenia* Neoteny in man is the retention of juvenile features in sexually mature adults when compared with other primates. It may be full or partial.

<sup>47</sup> E2.0.2.1.0.0.7 *Paedomorphosis* Paedomorphosis is exhibited in features such as the human flat face, position of the foramen magnum, retarded skeletal development and continuation of fetal growth rates into infancy and childhood.

<b>E3.0.0.1.0.0.9</b>	Planum meridionale	Meridional plane
<b>E3.0.0.1.0.0.10</b>	Nucleus fissionis	Cleavage nucleus
<b>E3.0.0.2.0.0.1</b>	<b>REGULATIO<sup>48</sup></b>	<b>REGULATION</b>
<b>E3.0.0.3.0.0.1</b>	<b>FORMATIO TYPORUM</b>	<b>PATTERN FORMATION</b>
<b>E3.0.0.3.0.0.2</b>	Cognitio loci	Positional information
<b>E3.0.0.3.0.0.3</b>	Indicium a loco	Positional value
<b>E3.0.0.3.0.0.4</b>	Confactor morphogeneticus	Morphogen
<b>E3.0.0.3.0.0.5</b>	Clivus densitatis	Concentration gradient
<b>E3.0.0.3.0.0.6</b>	Limen clivi	Gradient boundary
<b>E3.0.0.3.0.0.7</b>	Limen densitatis	Concentration threshold
<b>E3.0.0.3.0.0.8</b>	Inhibitio lateralis	Lateral inhibition
<b>E3.0.0.4.0.0.1</b>	<b>COMPACTIO</b>	<b>COMPACTION</b>
<b>E3.0.0.4.0.0.2</b>	Differentiatio cellularum in zygotu findenti <sup>49</sup>	Differentiation of cells of cleaving zygote; Outside-inside differentiation
<b>E3.0.0.4.0.0.3</b>	Polarisatio cellularum externarum <sup>50</sup>	Polarization of outer cells
<b>E3.0.0.4.0.0.4</b>	Divisio conservativa	Conservative division
<b>E3.0.0.4.0.0.5</b>	Divisio differentiativa	Differentiative division
<b>E3.0.0.4.0.0.6</b>	Divisio differentiativa embryoblasti <sup>51</sup>	Differentiative division of embryoblast
<b>E3.0.0.5.0.0.1</b>	<b>INDUCTIO ET INTERACTIO</b>	<b>INDUCTION AND INTERACTION</b>
<b>E3.0.0.5.0.0.2</b>	Inductor	Inducer
<b>E3.0.0.5.0.0.3</b>	Signum	Signal
<b>E3.0.0.5.0.0.4</b>	Indicium rectionis	Guidance cue
<b>E3.0.0.5.0.0.5</b>	Chemotropismus	Chemotropism; Chemotaxis
<b>E3.0.0.5.0.0.6</b>	Rectio per contactum	Contact guidance
<b>E3.0.0.5.0.0.7</b>	Indicium per ambitum	Environmental cue
<b>E3.0.0.5.0.0.8</b>	Signum pheromonale	Pheromone signal
<b>E3.0.0.5.0.0.9</b>	Signum intracrinum	Intracrine signal
<b>E3.0.0.5.0.0.10</b>	Indicium autocellulare	Autocellular cue
<b>E3.0.0.5.0.0.11</b>	Signum autocrinum	Autocrine signal
<b>E3.0.0.5.0.0.12</b>	Indicium intercellulare	Intercellular cue
<b>E3.0.0.5.0.0.13</b>	Signum juxtacrinum	Juxtacrine signal
<b>E3.0.0.5.0.0.14</b>	Signum paracrinum	Paracrine signal
<b>E3.0.0.5.0.0.15</b>	Signum endocrinum	Endocrine signal
<b>E3.0.0.5.0.0.16</b>	Signum neurocrinum	Neurocrine signal
<b>E3.0.0.5.0.0.17</b>	Textus reagens	Reacting tissue; Responding tissue
<b>E3.0.0.5.0.0.18</b>	Cellula reagens	Reacting cell; Receiving cell; Responding cell
<b>E3.0.0.5.0.0.19</b>	Transductio significationis	Signal transduction
<b>E3.0.0.5.0.0.20</b>	Mediatio	Mediation
<b>E3.0.0.5.0.0.21</b>	Mediatio a moleculis diffusibilibus	Mediation by diffusible molecules
<b>E3.0.0.5.0.0.22</b>	Mediatio a contactu cellulomatricale	Mediation by cell-matrix contact
<b>E3.0.0.5.0.0.23</b>	Mediatio a contactu cellulocellare	Mediation by cell-cell contact
<b>E3.0.0.5.0.0.24</b>	Mediatio e superficie ad superficiem	Mediation from cell surface-to cell surface
<b>E3.0.0.5.0.0.25</b>	Mediatio a junctionibus adhaesionis	Mediation by adhering junctions
<b>E3.0.0.5.0.0.26</b>	Mediatio a junctione occludente	Mediation by tight junction

<sup>48</sup> E3.0.0.2.0.0.1 *Regulatio* The process by which the developmental fates or rates of development of cells of embryonic subsystems may change during embryonic development, thereby permitting normal integrated development of the embryo as a whole and compensating for anomalies. It is the result of changes in gene expression; moreover, since the DNA sequence that comprises the genome remains unchanged during the differentiation of systems, organs, tissues and cell-types, regulation is said to be an epigenetic process. The human zygote is said to be regulatory because in it the primordia of tissues and organs are not determined at the outset but they become so according to the relation of different parts to one other. The term regulation is applied also at the genetic level: thus, regulatory genes control development by regulating the switching on and off of structural genes that make proteins to build body parts.

<sup>49</sup> E3.0.0.4.0.0.2 *Differentiatio cellularum in zygotu findenti* Differentiation of the cells of the cleaving zygote into outer blastomeres, which are polarized, and inner blastomeres, which are not.

<sup>50</sup> E3.0.0.4.0.0.3 *Polarisatio cellularum externarum* Transformation of rounded, radially symmetrical outer blastomeres into highly asymmetric cells with the characteristics of epithelia. Longitudinal divisions of polarized cells are conservative, resulting only in more polarized cells. Transverse divisions of polarized cells are differentiative, resulting in both embryoblastic cells and polarized cells. Cells remaining polarized give rise to trophoblast (Johnson MH. Origin of pluriblast and trophoblast in the eutherian conceptus. *Reprod Fertil Dev* 1996;8:699-709).

<sup>51</sup> E3.0.0.4.0.0.6 *Divisio differentiativa embryoblasti; Divisio differentiativa massae cellularis internaе/ Divisio differentiativa pluriblasti* Differentiation of the cells of the embryoblast, inner cell mass or pluriblast into the dorsal cells of the epiblast and the ventral cells of the hypoblast, with a basal lamina between them.

<b>E3.0.0.5.0.0.27</b>	Mediatio a zonula adhaerente	Mediation by adhesive belt
<b>E3.0.0.5.0.0.28</b>	Mediatio a fascia adhaerente	Mediation by adhesive strip
<b>E3.0.0.5.0.0.29</b>	Mediatio a macula adhaerente	Mediation by desmosome
<b>E3.0.0.5.0.0.30</b>	Mediatio a hemidesmosomate	Mediation by hemidesmosome
<b>E3.0.0.5.0.0.31</b>	Mediatio a junctio intercellulare	Mediation by intercellular junction
<b>E3.0.0.5.0.0.32</b>	Mediatio a macula communicante	Mediation by gap junction
<b>E3.0.0.5.0.0.33</b>	Competentia	Competence
<b>E3.0.0.5.0.0.34</b>	Factor competentiae	Competency factor
<b>E3.0.0.5.0.0.35</b>	Interactio	Interaction
<b>E3.0.0.5.0.0.36</b>	Interactio epithelioepithelialis	Epithelio-epithelial interaction
<b>E3.0.0.5.0.0.37</b>	Interactio epitheliomesenchymalis	Epitheliomesenchymal interaction
<b>E3.0.0.5.0.0.38</b>	Interactio instructiva	Instructive interaction
<b>E3.0.0.5.0.0.39</b>	Interactio permissiva	Permissive interaction
<b>E3.0.0.5.0.0.40</b>	Interactio reciproca; Inductio reciproca	Reciprocal interaction; Reciprocal induction
<b>E3.0.0.5.0.0.41</b>	Interactio suppressiva	Suppressive interaction
<b>E3.0.0.5.0.0.42</b>	Interactio repressiva	Repressive interaction
<b>E3.0.0.5.0.0.43</b>	Moleculae signantes	Signalling molecules
<b>E3.0.0.5.0.0.44</b>	Factor crescentiae	Growth factor
<b>E3.0.0.5.0.0.45</b>	Factor extracellularis	Extracellular factor
<b>E3.0.0.5.0.0.46</b>	Factor neurotransmittens	Neurotransmitter
<b>E3.0.0.5.0.0.47</b>	Hormonum	Hormone
<b>E3.0.0.5.0.0.48</b>	Tullius significationum transductionis	Signal transduction cascade
<b>E3.0.0.5.0.0.49</b>	Cellula inducens	Inducing cell; Sending cell
<b>E3.0.0.5.0.0.43</b>	Molecula signans	Signalling molecule
<b>E3.0.0.5.0.0.50</b>	Matrix extracellularis	Extracellular matrix
<b>E3.0.0.5.0.0.18</b>	Cellula reagens	Reacting cell; Receiving cell; Responding cell
<b>E3.0.0.5.0.0.51</b>	Receptor superficiei membranae	Surface membrane receptor
<b>E3.0.0.5.0.0.52</b>	Proteinum transducens signum	Signal transduction protein
<b>E3.0.0.5.0.0.53</b>	Nucleus	Nucleus
<b>E3.0.0.5.0.0.54</b>	Acidum desoxyribonucleare	Deoxyribonucleic acid; DNA
<b>E3.0.0.5.0.0.55</b>	Transcriptio corrupta	Altered transcription
<b>E3.0.0.5.0.0.56</b>	Translatio corrupta	Altered translation
<b>E3.0.0.5.0.0.57</b>	Frux geni nova	New gene product
<b>E3.0.0.6.0.0.1</b>	<b>MORPHOGENESIS</b> <sup>52</sup>	<b>MORPHOGENESIS</b>
	<i>Nomina generalia</i>	<i>General terms</i>
<b>E3.0.0.6.0.0.2</b>	Blastema <sup>53</sup>	Blastema
<b>E3.0.0.6.0.0.3</b>	Primordium <sup>54</sup>	Primordium; Anlage
<b>E3.0.0.6.0.0.4</b>	Rudimentum <sup>55</sup>	Rudiment
<b>E3.0.0.6.0.0.5</b>	Status praesumptivus <sup>56</sup>	Presumptive state
<b>E3.0.0.6.0.0.6</b>	Vestigium <sup>55</sup>	Vestige
<b>E3.0.0.6.1.0.1</b>	<b>Phenomena morphogenetica</b>	<b>Morphogenetic phenomena</b>
<b>E3.0.0.6.1.0.2</b>	Adhaesio	Adhesion
<b>E3.0.0.6.1.0.3</b>	Appropinquatio	Approximation
<b>E3.0.0.6.1.0.4</b>	Bifurcatio	Bifurcation
<b>E3.0.0.6.1.0.5</b>	Canalisatio	Canalisation

<sup>52</sup> E3.0.0.6.0.0.1 *Morphogenesis* The development of shape, size or other feature of a particular organ or of a part or the whole of the body. "The word '*morphogenesis*' is often used in a broad sense to refer to many aspects of development, but when used strictly it should mean the moulding of cells and tissues into definite shapes" (Waddington CH. Principles of Embryology. London: George Allan & Unwin; 1956). In this strict sense, it refers particularly to the wide-ranging phenomena associated with gastrulation and organogenesis and to local phenomena like budding, branching and clefting (Hogan BLM. Morphogenesis. Cell 1999;96:225-233).

<sup>53</sup> E3.0.0.6.0.0.2 *Blastema* An identifiable mass of rapidly proliferating undifferentiated cells that gives rise to a differentiated structure/organ.

<sup>54</sup> E3.0.0.6.0.0.3 *Primordium* A term applied to a structure making its first appearance as a differentiating structure. *Anlage*, from the German, is a synonym. It is now appreciated that, particularly in branching morphogenesis, an epithelial primordium may be preceded by a mesenchymal primordium, which determines the pattern of arborization (Denny PC, Ball WD, Redman RS. Salivary glands: a paradigm for diversity of gland development. Crit Rev Biol Med 1997;8:51-75).

<sup>55</sup> E3.0.0.6.0.0.4/ E3.0.0.6.0.0.6 *Rudimentum/Vestigium* These terms are not interchangeable: a *rudiment* (from the Latin *rudimentum* – that which is unwrought) is an underdeveloped or immature part or organ; a *vestige* (from the Latin *vestigium* – that which is tracked) is a part or organ that has become reduced in function and/or size in the course of phylogeny; some vestiges, nevertheless, play an important part in ontogeny.

<sup>56</sup> E3.0.0.6.0.0.5 *Status praesumptivus* The condition of a tissue, region or organ that will, in the course of normal development, become a morphologically differentiated tissue, region or organ. A structure may be *presumptive* solely by virtue of its position or it may have undergone determination or chemodifferentiation but as yet show no visible signs of differentiation.

<b>E3.0.0.6.1.0.6</b>	Cavitatio	Cavitation
<b>E3.0.0.6.1.0.7</b>	Coalescentia	Coalescence
<b>E3.0.0.4.0.0.1</b>	Compactio	Compaction
<b>E3.0.0.6.1.0.8</b>	Condensatio	Condensation
<b>E3.0.0.6.1.0.9</b>	Congrutio	Pairing
<b>E3.0.0.6.1.0.10</b>	Conjunctio	Fusion
<b>E3.0.0.6.1.0.11</b>	Conservatio	Conservation
<b>E3.0.0.6.1.0.12</b>	Convergentia	Convergence
<b>E3.0.0.6.1.0.13</b>	Corrosio	Corrosion
<b>E3.0.0.6.1.0.14</b>	Crescentia	Growth
<b>E3.0.0.6.1.0.15</b>	Crescentia accretionalis	Accretional growth
<b>E3.0.0.6.1.0.16</b>	Crescentia appositionalis	Appositional growth
<b>E3.0.0.6.1.0.17</b>	Crescentia auxetica; Hypertrophia auxetica	Auxetic growth; Hypertrophy
<b>E3.0.0.6.1.0.18</b>	Crescentia compensatoria	Compensatory growth
<b>E3.0.0.6.1.0.19</b>	Crescentia differentialis	Differential growth
<b>E3.0.0.6.1.0.20</b>	Crescentia interstitialis	Interstitial growth
<b>E3.0.0.6.1.0.21</b>	Crescentia multiplicativa; Hyperplasia	Multiplicative growth; Hyperplasia
<b>E3.0.0.6.1.0.22</b>	Cytogenesis	Cytogenesis; Cytogeny
<b>E3.0.0.6.1.0.23</b>	Cytokinesis	Cytokinesis
<b>E3.0.0.6.1.0.24</b>	Deminutio	Diminution
<b>E3.0.0.6.1.0.25</b>	Delaminatio	Delamination
<b>E3.0.0.6.1.0.26</b>	Differentiatio	Differentiation
<b>E3.0.0.6.1.0.27</b>	Determinatio	Determination
<b>E3.0.0.6.1.0.28</b>	Differentiatio chemica	Chemodifferentiation
<b>E3.0.0.6.1.0.29</b>	Differentiatio cellularis	Cytodifferentiation
<b>E3.0.0.6.1.0.30</b>	Differentiatio textuum	Histodifferentiation
<b>E3.0.0.6.1.0.31</b>	Differentiatio functionalis	Functional differentiation
<b>E3.0.0.6.1.0.32</b>	Dilatatio	Dilation
<b>E3.0.0.6.1.0.33</b>	Dispositio	Arrangement
<b>E3.0.0.6.1.0.34</b>	Divergentia	Divergence
<b>E3.0.0.6.1.0.35</b>	Elongatio	Elongation
<b>E3.0.0.6.1.0.36</b>	Emanatio	Emergence
<b>E3.0.0.6.1.0.37</b>	Exstinctio	Elimination
<b>E3.0.0.6.1.0.38</b>	Extensio	Elongation; Extension
<b>E3.0.0.6.1.0.39</b>	Expansio	Expansion
<b>E3.0.0.6.1.0.40</b>	Fatum praesumptivum	Prospective fate; Presumptive fate
<b>E3.0.0.1.0.0.1</b>	Fissio	Cleavage
<b>E3.0.0.6.1.0.41</b>	Formatio ansae <sup>57</sup>	Loop formation
<b>E3.0.0.6.1.0.42</b>	Formatio primaria corporis <sup>58</sup>	Primary body development
<b>E3.0.0.6.1.0.43</b>	Formatio secundaria corporis <sup>59</sup>	Secondary body development
<b>E3.0.0.6.1.0.44</b>	Gastrulatio <sup>60</sup>	Gastrulation
<b>E3.0.0.6.1.0.45</b>	Histogenesis	Histogenesis; Histogeny
<b>E3.0.0.6.1.0.46</b>	Incrementum {vide Crescentia}	Growth
<b>E3.0.0.6.1.0.47</b>	Ingressio	Ingression
<b>E3.0.0.6.1.0.48</b>	Impansio <sup>61</sup>	Impansion
<b>E3.0.0.6.1.0.49</b>	Impedimentum	Constraint; Limitation

<sup>57</sup> E3.0.0.6.1.0.41 *Formatio ansae* See, for example, Männer J. The anatomy of cardiac looping: a step towards the understanding of the morphogenesis of several forms of congenital heart malformations. Clin Anat 2009;22:21-35.

<sup>58</sup> E3.0.0.6.1.0.42 *Formatio primaria corporis* Primary body development involves the primary germ layers and neural plate more or less directly. It includes primary neurulation, the formation of somites 1-29, of spinal ganglia 1-25, of the foregut, midgut and hindgut and of the corresponding part of the notochord.

<sup>59</sup> E3.0.0.6.1.0.43 *Formatio secundaria corporis* Secondary body development does not involve the germ layers: in it structures develop directly from the axial dense mesenchyme of the caudal eminence or tail bud. It includes secondary neurulation, the formation of somites 30-39, of spinal ganglia 26-35, of the most caudal gut and of the corresponding part of the notochord.

<sup>60</sup> E3.0.0.6.1.0.44 *Gastrulatio* It has been said that the term *gastrulation* is inappropriate as it refers to the invagination of a monolayered blastula to form a bilayered gastrula containing an endoderm-lined archenteron (O'Rahilly R and Müller F. Human embryology and teratology. 3<sup>rd</sup> ed. New York: Wylie-Liss; 2001). While this was the original meaning of gastrulation, its meaning has undergone a profound change (Collins P and Billett FS. The terminology of early development: history, concepts, and current usage. Clin Anat 1995;8:418-25). It may now be defined as the formative process by which the three germ layers and an axial organization are established in embryos, a process that probably begins in the attaching human blastocyst [St.4], before the establishment of a definite primitive streak in Stage 6b.

<sup>61</sup> E3.0.0.6.1.0.48 *Impansio* The antonym of expansion, *impansion* describes depression of the caudal part of the embryonic disc due to reduced growth (Blechschild E, Gasser R. Biokinetics and biodynamics of human differentiation. Springfield: Charles C Thomas; 1978).

<b>E3.0.0.6.1.0.50</b>	Inflatio <sup>62</sup>	Ballooning
<b>E3.0.0.5.0.0.35</b>	Interactio	Interaction
<b>E3.0.0.5.0.0.37</b>	Interactio epitheliomesenchymalis	Epitheliomesenchymal interaction
<b>E3.0.0.6.1.0.51</b>	Interactio mesenchymoepithelialis	Mesenchymo-epithelial interaction
<b>E3.0.0.6.1.0.52</b>	Intussusceptio	Intussusception
<b>E3.0.0.6.1.0.53</b>	Invaginatio	Invagination
<b>E3.0.0.6.1.0.54</b>	Invectio <sup>63</sup>	Recruitment
<b>E3.0.0.6.1.0.55</b>	Laxatio	Loosening
<b>E3.0.0.6.1.0.56</b>	Maturatio <sup>64</sup>	Maturation
<b>E3.0.0.6.1.0.57</b>	Mitosis proliferativa	Proliferative mitosis
<b>E3.0.0.6.1.0.58</b>	Mitosis quantalis	Quantal mitosis
<b>E3.0.0.6.1.0.59</b>	Optio binaria	Binary choice
<b>E3.0.0.6.1.0.60</b>	Morphogenesis gemmans <sup>65</sup>	Budding morphogenesis
<b>E3.0.0.6.1.0.61</b>	Morphogenesis ramificans <sup>66</sup>	Branching morphogenesis
<b>E3.0.0.6.1.0.62</b>	Morphogenesis findens <sup>67</sup>	Clefting morphogenesis
<b>E3.0.0.6.1.0.63</b>	Mors cellularum programmata	Programmed cell death
<b>E3.0.0.6.1.0.64</b>	Apoptosis	Apoptosis
<b>E3.0.0.6.1.0.65</b>	Autophagocytosis	Autophagy
<b>E3.0.0.6.1.0.66</b>	Autoschisis	Autoschizis
<b>E3.0.0.6.1.0.67</b>	Chondroptosis	Chondroptosis
<b>E3.0.0.6.1.0.68</b>	Paraptosis	Paraptosis
<b>E3.0.0.6.1.0.69</b>	Motus	Movements
<b>E3.0.0.6.1.0.70</b>	Motus biokineticici	Biokinetic movements
<b>E3.0.0.6.1.0.71</b>	Motus condensationis; Motus densationis <sup>68</sup>	Condensation movement; Densation movement
<b>E3.0.0.6.1.0.72</b>	Motus compressionis longitudinalis; Motus concursiois	Longitudinal compression movement; Contusional movement
<b>E3.0.0.6.1.0.73</b>	Motus detractiois <sup>69</sup>	Detractional movement
<b>E3.0.0.6.1.0.74</b>	Motus detondens <sup>69</sup>	Shearing movement
<b>E3.0.0.6.1.0.75</b>	Motus dilatationis <sup>70</sup>	Dilation movement
<b>E3.0.0.6.1.0.76</b>	Motus expansionis longitudinalis; Motus distusionalis <sup>71</sup>	Elongation movement; Distusional movement

<sup>62</sup> E3.0.0.6.1.0.50 *Inflatio* The ballooning model has succeeded the segmental model of heart chamber formation (Horsthuis T, Christoffels VM, Anderson RH, Moorman AFM. Can recent insights into cardiac development improve our understanding of congenitally malformed hearts? Clin Anat 2009;22:4-20).

<sup>63</sup> E3.0.0.6.1.0.54 *Invectio* An example is the process by which material from the mesocardium is added to the venous and arterial poles of the early heart tube (Horsthuis T, Christoffels VM, Anderson RH, Moorman AFM. Can recent insights into cardiac development improve our understanding of congenitally malformed hearts? Clin Anat 2009;22:4-20)..

<sup>64</sup> E3.0.0.6.1.0.56 *Maturatio* *Maturation* may be defined as the acquisition of definitive structure and function: its prenatal aspects, particularly, are within the compass of Terminologia Embryologica.

<sup>65</sup> E3.0.0.6.1.0.60 *Morphogenesis gemmans* *Budding morphogenesis* and the ensuing canalisation have been most widely studied in the submandibular gland and the processes detailed for it are generally followed elsewhere.

<sup>66</sup> E3.0.0.6.1.0.61 *Morphogenesis ramificans* *Branching morphogenesis* is the process of forming organized patterns of epithelial cords and then tubules in organs such as the kidney, glands and lungs. It appears to be determined by mesenchyme and regulated by a wide range of factors (Williams MJ, Clark P. Microscopic analysis of the cellular events during scatter factor/hepatocyte growth factor-induced epithelial tubulogenesis. J Anat 2003;203:483-503). The term *tubulogenesis* is not recommended in this context as the product is initially solid and only canalises later.

<sup>67</sup> E3.0.0.6.1.0.62 *Morphogenesis findens* *Clefting* is the process in which a terminal bud is cleaved into multiple lobules with the ingrowth of mesenchyme and the deposition of extracellular matrix. In some organs, such as the lung, budding, branching and clefting each occur at different stages of development whereas in salivary glands clefting appears to predominate (Hogan BLM. Morphogenesis. Cell 1999;96:225-233).

<sup>68</sup> E3.0.0.6.1.0.71 *Motus condensationis; Motus densationis* Movement occurring in a morphogenetic field, called a densation field (Blechschildt E, Gasser R. Biokinetics and biodynamics of human differentiation. Springfield: Charles C Thomas; 1978). With loss of intercellular fluid, the cells come closer together. The first appearance of the skeleton is as mesenchymal condensations. The cells have rather spherical cell bodies and very little intercellular substance present between them. They show no particular orientation which means that they are under tension stresses that are equal in all directions. A densation field is characterized by its position.

<sup>69</sup> E3.0.0.6.1.0.73/74 *Motus detractiois/Motus detondens* Movement occurring in a morphogenetic field, called a detraction field (Blechschildt E, Gasser R. Biokinetics and biodynamics of human differentiation. Springfield: Charles C Thomas; 1978). Mesenchymal cell aggregations slide along hardened ground substance and are variably compressed. This leads to squeezing fluid out of the ground substance with subsequent hardening and ossification.

<sup>70</sup> E3.0.0.6.1.0.75 *Motus dilatationis* Movement occurring in a morphogenetic field, called a dilation field (Blechschildt E, Gasser R. Biokinetics and biodynamics of human differentiation. Springfield: Charles C Thomas; 1978). The field is spatially and kinetically highly organized. Dilation occurs in mesenchymal tissue when it becomes elongated and slenderized by pull in a particular direction without transverse compression. The primordia of skeletal, cardiac and smooth muscle fibres and fibre systems arise in dilation fields. The shape of a muscle is closely related to its position while its structure is closely related to its shape.

<sup>71</sup> E3.0.0.6.1.0.76 *Motus expansionis longitudinalis; Motus distusionalis* Movement occurring in a morphogenetic field, called a distusion field (Blechschildt E, Gasser R. Biokinetics and biodynamics of human differentiation. Springfield: Charles C Thomas; 1978). ). The spherical mesenchymal cells of a densation field become compressed by opposing forces in



<b>E3.0.0.6.1.0.77</b>	Motus involutionis; Involutio <sup>72</sup>	Involuntary movement; Involution
<b>E3.0.0.6.1.0.78</b>	Motus morphogenetici	Morphogenetic movements
<b>E3.0.0.6.1.0.79</b>	Motus epibolicus	Epiboly, Spreading
<b>E3.0.0.6.1.0.80</b>	Motus embolicus	Emboly; Ingression
<b>E3.0.0.6.1.0.81</b>	Motus convergens	Convergence
<b>E3.0.0.6.1.0.82</b>	Motus extendens	Extension
<b>E3.0.0.6.1.0.83</b>	Motus extensionis convergentis	Convergent extension
<b>E3.0.0.6.1.0.84</b>	Motus translationis; Migratio <sup>73</sup>	Changing positional relationships; Migration
<b>E3.0.0.6.1.0.85</b>	Migratio vera	True migration
<b>E3.0.0.6.1.0.86</b>	Migratio ficta	False migration
<b>E3.0.0.6.1.0.87</b>	Motus relativus	Relative movement
<b>E3.0.0.6.1.0.88</b>	Motus ascensionis	Relative ascent
<b>E3.0.0.6.1.0.89</b>	Motus descensionis	Relative descent
<b>E3.0.0.6.1.0.90</b>	Neurulatio	Neurulation
<b>E3.0.0.6.1.0.91</b>	Neurulatio primaria <sup>74</sup>	Primary neurulation
<b>E3.0.0.6.1.0.92</b>	Neurulatio secundaria <sup>75</sup>	Secondary neurulation
<b>E3.0.0.6.1.0.93</b>	Organogenesis	Organogenesis; Organogeny
<b>E3.0.0.6.1.0.94</b>	Phenomena campi	Field phenomena
<b>E3.0.0.6.1.0.95</b>	Campus morphogeneticus; Campus biodynamicus	Morphogenetic field; Biodynamic field
<b>E3.0.0.6.1.0.96</b>	Plicatio	Folding
<b>E3.0.0.6.1.0.97</b>	Polarisatio	Polarization
<b>E3.0.0.6.1.0.98</b>	Ramificatio	Branching
<b>E3.0.0.6.1.0.99</b>	Reconstitutio	Reconstitution
<b>E3.0.0.6.1.0.100</b>	Reorganisatio	Re-organization
<b>E3.0.0.6.1.0.101</b>	Resegmentatio	Resegmentation
<b>E1.0.4.0.0.0.11</b>	Resorptio	Resorption
<b>E3.0.0.6.1.0.102</b>	Restrictio	Restriction
<b>E3.0.0.6.1.0.103</b>	Retractio	Retraction
<b>E3.0.0.6.1.0.104</b>	Segmentatio; Metamerismus	Segmentation; Metamerism
<b>E3.0.0.6.1.0.105</b>	Situs	Position
<b>E3.0.0.6.1.0.106</b>	Situs solitus viscerum	Normal position of viscera
<b>E3.0.0.6.1.0.107</b>	Specificatio	Specification
<b>E3.0.0.6.1.0.108</b>	Transformatio	Transformation
<b>E3.0.0.6.1.0.109</b>	Transformatio epitheliomesenchymalis <sup>76</sup>	Epitheliomesenchymal transformation
<b>E3.0.0.6.1.0.110</b>	Transformatio mesenchymoepithelialis <sup>77</sup>	Mesenchymo-epithelial transformation
<b>E3.0.0.6.1.0.111</b>	Tubulatio	Tubulation
<b>E3.0.0.6.1.0.112</b>	Vesiculatio	Vesiculation

the longitudinal axis of the field. Initially, such zones of flattened cells are located only in the centre of a field that has attained sufficient size. Cells in this contusion field become disc-shaped and develop into cartilage cells.

<sup>72</sup> E3.0.0.6.1.0.77 *Motio involutionis; Involutio* The rolling-in of cells over a rim. In this context the term *involuntary movement* is preferred because of the different connotations of the term involution.

<sup>73</sup> E3.0.0.6.1.0.84 *Motus translationis; Migratio* When re-examined appropriately (Gasser RF. Evidence that some events in mammalian embryogenesis can result from differential growth, making migration unnecessary. *Anat Rec B New Anat.*2006;289B:53-63), many examples of changing positional relations turn out not to be examples of true migration. *Migration* may be *false* or *true*. In *false migration*, structures do not move from one site to another but their positional relationships change and they become separated as an embryo enlarges and changes shape (see, for example, Freeman B. The active migration of germ cells in the embryos of mice and men is a myth. *Reproduction* 2003;125:635-643, which explains the relocation of primordial germ cells from the wall of the umbilical vesicle to that of the hindgut by growth movements and shape changes). *True migration*, such as occurs in cytokinesis in the cerebellum and the cerebral cortex, is the movement of cells, cell groups and organs from one site to another, among, around, through or over other structures, in relation to a central reference point that moves minimally as the embryo enlarges or changes shape.

<sup>74</sup> E3.0.0.6.1.0.91 *Neurulatio primaria* *Primary neurulation*, as distinct from secondary neurulation, is the process entailing *tubulation* in which the neural plate folds and forms, in turn, a neural groove and then a neural tube, which separates from the surface ectoderm. The process concludes with the closure of the caudal neuropore in Stage 12, at about the level of somites 31 (Müller F, O'Rahilly R. The first appearance of the neural tube and optic primordium in the human embryo at stage 10. *Anat Embryol* 1985;172:157-69). The term primary neurulation is best confined to the process rather than applied to the phase of development in which it occurs, which is best referred to as primary body development.

<sup>75</sup> E3.0.0.6.1.0.92 *Neurulatio secundaria* *Secondary neurulation* is the process entailing *canalization* that leads to the formation of the spinal cord beyond the limits of primary neurulation: it occurs after the closure of the caudal neuropore in Stage 12, and thus in Stages 13-18. Axial dense mesenchyme in the caudal eminence forms a neural cord in continuity with the neural tube: the cavity in the neural tube extends into the neural cord (Müller F, O'Rahilly R. The development of the human brain, the closure of the caudal neuropore, and the beginning of secondary neurulation at stage 12. *Anat Embryol* 1987;176:413-30). The term secondary neurulation is best confined to the process rather than applied to the phase of development in which it occurs, which is best referred to as secondary body development.

<sup>76</sup> E3.0.0.6.1.0.109 *Transformatio epitheliomesenchymalis* For sessile cells to become free and migrate they must undergo an *epitheliomesenchymal transformation*, first becoming flask-shaped, with the dissolution of juxtaluminar junctions, and then becoming frankly mesenchymal.

<sup>77</sup> E3.0.0.6.1.0.110 *Transformatio mesenchymoepithelialis* Mesenchyme cells that have reached their destinations may condense and revert to sessile epithelial cells, by polarizing, developing basal laminae and specialized juxtaluminar junctions. Some such epithelia may subsequently undergo an epitheliomesenchymal transformation.

	<b>Histogenesis generalis</b>	<b>General histogenesis; General histogeny</b>
<b>E4.0.0.0.0.1</b>	<b>Cellulae antecedentes</b> <sup>78</sup>	<b>Antecedent cells</b>
	<i>Nomina generalia</i>	<i>General terms</i>
<b>E4.0.0.0.0.2</b>	Potestas totalis <sup>79</sup>	Totipotency
<b>E4.0.0.0.0.3</b>	Potestas pluralis <sup>80</sup>	Pluripotency
<b>E4.0.0.0.0.4</b>	Potestas multiplex <sup>81</sup>	Multipotency
<b>E4.0.0.0.0.5</b>	Potestas una <sup>82</sup>	Unipotency
<b>E4.0.0.0.0.6</b>	Formabilitas <sup>83</sup>	Plasticity
<b>E4.0.0.0.0.7</b>	Adaptabilitas	Adaptability
<b>E4.0.0.0.0.8</b>	Flexibilitas	Flexibility
<b>E4.0.0.0.0.9</b>	Versabilitas	Versatility
<b>E4.0.0.1.0.0.1</b>	<b>TYPI CELLULARUM ANTECEDENTIUM</b>	<b>VARIETIES OF ANTECEDENT CELLS</b>
<b>E4.0.0.1.0.0.2</b>	Cellula primordialis <sup>84</sup>	Primordial cell
<b>E4.0.0.1.0.0.3</b>	Cellula fundatoria <sup>85</sup>	Founder cell
<b>E4.0.0.1.0.0.4</b>	Cellula propraecursoria <sup>86</sup>	Prestem cell [PSC]
<b>E4.0.0.1.0.0.5</b>	Cellula praecursoria <sup>87</sup>	Stem cell
<b>E4.0.0.1.0.0.6</b>	Cellula progenetrix	Progenitor cell
<b>E4.0.0.1.0.1.1</b>	<b>Cellulae praenatales praecursoriae</b>	<b>Prenatal stem cells</b>
<b>E4.0.0.1.0.1.2</b>	Cellula praecursoria trophoblastica	Trophoblastic stem cell [TSC]
<b>E4.0.0.1.0.1.3</b>	Cellula praecursoria trophoblastica apparens spontaniter	Trophoblastic stem cell generated spontaneously <i>in vivo</i> [TSC GS]
<b>E4.0.0.1.0.1.4</b>	Cellula praecursoria trophoblastica artificialis	Trophoblastic stem cell induced artificially <i>in vitro</i> [TSC IA]
<b>E4.0.0.1.0.1.5</b>	Cellula praecursoria embryonica; Stipitoblastus	Embryonic stem cell [ESC]
<b>E4.0.0.1.0.1.6</b>	Cellula praecursoria embryonica spontanea; Stipitoblastus verus	Embryonic stem cell generated spontaneously <i>in vivo</i> [ESC GS]
<b>E4.0.0.1.0.1.7</b>	Cellula praecursoria embryonica artificialis; Stipitoblastus artificialis	Embryonic stem cell induced artificially <i>in vitro</i> [ESC IA]
<b>E4.0.0.1.0.1.8</b>	Cellula praecursoria fetalis	Fetal stem cell
<b>E4.0.0.1.0.2.1</b>	<b>Cellulae perinatales praecursoriae</b>	<b>Perinatal stem cells</b>
<b>E4.0.0.1.0.2.2</b>	Cellula praecursoria neonatalis	Neonatal stem cell
<b>E4.0.0.1.0.3.1</b>	<b>Cellulae postnatales praecursoriae</b>	<b>Postnatal stem cells</b>
<b>E4.0.0.1.0.3.2</b>	Cellula praecursoria adulta	Adult stem cell
<b>E4.0.0.1.1.0.1</b>	<b>Cellulae propraecursoriae; Cellulae pluripotentes</b>	<b>Prestem cells [PSCs]; Pluripotent stem cells</b>
<b>E4.0.0.1.1.0.2</b>	Cellula externa morulae	Outer cell of morula
<b>E4.0.0.1.1.0.1.2</b>	Cellula praecursoria trophoblastica	Trophoblastic stem cell [TSC]
<b>E4.0.0.1.1.0.3</b>	Cellula interna morulae	Inner cell of morula
<b>E4.0.0.1.1.0.1.5</b>	Cellula praecursoria embryonica; Stipitoblastus	Embryonic stem cell [ESC]

<sup>78</sup> E4.0.0.0.0.1 *Cellulae antecedentes* The term antecedent cell is used here solely in a generic sense and without any specific connotation. The term *precursor* is not used in a generic sense, to avoid confusion with the specific term *cellula praecursoria*, a *stem cell*.

<sup>79</sup> E4.0.0.0.0.2 *Potestas totalis* *Totipotency* is the capacity to form all cell lineages, embryonic and extra-embryonic.

<sup>80</sup> E4.0.0.0.0.3 *Potestas pluralis* *Pluripotency* is the capacity to form all embryonic or all extra-embryonic cell lineages.

<sup>81</sup> E4.0.0.0.0.4 *Potestas multiplex* *Multipotency* is the capacity of adult stem cells to form multiple cell types of one cell lineage

<sup>82</sup> E4.0.0.0.0.5 *Potestas una* *Unipotency* is the capacity of adult stem cells to form only one cell type

<sup>83</sup> E4.0.0.0.0.6 *Formabilitas* *Plasticity* is the ability of a stem cell population to match its output to variable demands. To adjust its output of precursors to a single maturation compartment (adaptability), to regulate the distribution of such adjustments between two or more maturation compartments (flexibility) or to contribute to the production of previously unexpected progeny (versatility).

<sup>84</sup> E4.0.0.1.0.0.2 *Cellula primordialis* A *primordial cell* is totipotent; the zygote and its immediate progeny are primordial cells.

<sup>85</sup> E4.0.0.1.0.0.3 *Cellula fundatoria* Founder cells are capable of contributing to the establishment of one or more cell populations.

<sup>86</sup> E4.0.0.1.0.0.4 *Cellula propraecursoria* A *prestem cell* is capable of contributing to the establishment of one or more stem cell populations.

<sup>87</sup> E4.0.0.1.0.0.5 *Cellula praecursoria* A *stem cell* is a constituent of a population that is capable of maintaining its own size while exporting an appropriate output of progeny to one or more cell lineages. In a future edition the term *Cellula staminalis* may be preferred if in due course it is approved by the member societies of the IFAA.

<b>E4.0.0.1.1.0.4</b>	Cellula epiblastica	Epiblastic cell
<b>E4.0.0.1.1.0.5</b>	Cellula hypoblastica	Hypoblastic cell
<b>E4.0.0.1.2.0.1</b>	<b>Cellulae praecursoriae; Cellulae multipotentes et unipotentis<sup>88</sup></b>	<b>Lineage-restricted stem cells; Multipotent and unipotent cells</b>
<b>E4.0.0.1.2.0.2</b>	Cellula conjunctivalis praecursoria	Conjunctival stem cell
<b>E4.0.0.1.2.0.3</b>	Cellula cornealis praecursoria	Corneal stem cell
<b>E4.0.0.1.2.0.4</b>	Cellula endothelialis praecursoria	Endothelial stem cell
<b>E4.0.0.1.2.0.5</b>	Cellula ependymalis praecursoria	Ependymal stem cell
<b>E4.0.0.1.2.0.6</b>	Cellula epidermalis praecursoria	Epidermal stem cell
<b>E4.0.0.1.2.0.7</b>	Cellula epidermalis praecursoria cellularum cristae neuralis	Epidermal neural crest cell stem cell [eNCSC]
<b>E4.0.0.1.2.0.8</b>	Cellula epithelialis praecursoria	Epithelial stem cell
<b>E4.0.0.1.2.0.9</b>	Cellula gastrointestinalis praecursoria	Gastro-intestinal stem cell
<b>E4.0.0.1.2.0.10</b>	Cellula glialis praecursoria	Glial stem cell
<b>E4.0.0.1.2.0.11</b>	Cellula haematopoietica praecursoria	Haematopoietic stem cell <sup>▲</sup>
<b>E4.0.0.1.2.0.12</b>	Cellula hepatopancreatica praecursoria	Hepatopancreatic stem cell
<b>E4.0.0.1.2.0.13</b>	Cellula hypophysealis praecursoria	Hypophyseal stem cell
<b>E4.0.0.1.2.0.14</b>	Cellula mesechymatica praecursoria	Mesenchymal stem cell [hMSC]
<b>E4.0.0.1.2.0.15</b>	Cellula myogenica praecursoria	Myogenic stem cell
<b>E4.0.0.1.2.0.16</b>	Cellula nervosa praecursoria	Neural stem cell
<b>E4.0.0.1.2.0.17</b>	Cellula olfactoria praecursoria	Olfactory stem cell
<b>E4.0.0.1.2.0.18</b>	Cellula spermatogonica praecursoria	Spermatogonial stem cell
<b>E4.0.0.1.3.0.1</b>	<b>Cellulae progenitricae {vide derivativa idonea cum textibus}</b>	<b>Progenitor cells {see relevant tissue derivative}</b>
<b>E4.0.1.0.0.0.1</b>	<b>Factores crescentiae<sup>89</sup></b>	<b>Growth factors</b>
<b>E4.0.1.0.0.0.2</b>	Receptor tyrosinum kinas	Receptor tyrosine kinase
<b>E4.0.1.0.0.0.3</b>	Familia factoris crescentiae fibroblasticae	Fibroblast growth factor [FGF] family
<b>E4.0.1.0.0.0.4</b>	Familia ephrini	Ephrin family
<b>E4.0.1.0.0.0.5</b>	Receptor maculatus	Receptor patched
<b>E4.0.1.0.0.0.6</b>	Familia erinacea	Hedgehog family
<b>E4.0.1.0.0.0.7</b>	Receptor crispatus	Receptor frizzled
<b>E4.0.1.0.0.0.8</b>	Familia receptoris non alati	Wingless-type [WNT] family
<b>E4.0.1.0.0.0.9</b>	Receptor serini/threonini kinas	Receptor serine/threonine kinase
<b>E4.0.1.0.0.0.10</b>	Superfamilia factoris epidermalis [EGF] crescentiae	Epidermal growth factor [EGF] superfamily
<b>E4.0.1.0.0.0.11</b>	Superfamilia factoris transformantis crescentiam $\beta$	Transforming growth factor beta [TGF- $\beta$ ] superfamily
<b>E4.0.1.0.0.0.12</b>	Familia activini	Activin family
<b>E4.0.1.0.0.0.13</b>	Familia factoris morphogenetici ossium	Bone morphogenetic factor [BMP] family
<b>E4.0.1.0.0.0.14</b>	Familia factoris transformantis crescentiam	Transforming growth factor [TGF] family
<b>E4.0.1.0.0.0.15</b>	Factor transformans crescentiam $\alpha$	Transforming growth factor [TGF- $\alpha$ ]
<b>E4.0.1.0.0.0.16</b>	Familia vitellogenini 1	Vitellogenin [Vg1] family
<b>E4.0.1.0.0.0.17</b>	Familia nodalis	Nodal family
<b>E4.0.1.0.0.0.18</b>	Receptor integrini	Integrin receptor
<b>E4.0.1.0.0.0.19</b>	Ligantia fibronectini/laminini	Fibronectin/Laminin ligands
<b>E4.0.1.0.0.0.20</b>	Receptor incisurans	Notch receptor
<b>E4.0.1.0.0.0.21</b>	Ligantia delta/serrata	Delta/Serrate ligands
<b>E4.0.2.0.0.0.1</b>	<b>Factores transcriptionis<sup>90</sup></b>	<b>Transcription factors</b>

<sup>88</sup> E4.0.0.1.2.0.1 *Cellulae praecursoriae; Cellulae multipotentes et unipotentis* Cells are here usually listed according to both their derivation and their potential: an exception is the *epidermal neural crest cell stem cell [eNCSC]*, which is derived from epidermis but is capable of giving rise to neural crest cells.

<sup>89</sup> E4.0.1.0.0.0.1 *Factores crescentiae* The factors listed here are only representative but all are known to be active in normal embryogenesis and specific congenital anomalies are known to be associated with disturbances of all but one of them (TGF- $\alpha$ ). Whether or not these criteria are appropriate and whether or not other growth factors should be included here is debatable. The number of growth factors and their families that have been identified continues to increase as does knowledge of their activities. A periodically-updated list of growth factors and their activities may be found at <http://www.med.unibs.it/~marchesi/growfact.html> while a more comprehensive listing is available at <http://www.copewithcytokines.de/cope.cgi> Growth factors and cytokines and more general biochemical information can be found at <http://themedicalbiochemistrypage.org>

<sup>90</sup>E4.0.2.0.0.0.1 *Factores transcriptionis* Transcription factors are proteins that interact with specific DNA sequences to enable transcription to occur (Latchmann D S. Transcription factors: an overview. *Int J Biochem Cell Biol* 1997;29:1305-12): their number is enormous and there is no obvious way to limit their numbers in a way that would permit their inclusion here. A transcription factor classification may be found at <http://www.gene-regulation.com/pub/databases/transfac/cl.html>. Again, what should be included in a terminology that is

<b>E4.0.3.0.0.1</b>	<b>Structurae cristae neuralis<sup>91</sup></b>	<b>Neural crest structures</b>
<b>E4.0.3.1.0.0.1</b>	<b>COMPLEXUS CRISTAE NEURALIS NASALIS<sup>92</sup></b>	<b>NASAL NEURAL CREST COMPLEX</b>
<b>E4.0.3.1.0.0.2</b>	Mesenchyma olfactorium [partim]	Olfactory mesenchyme [in part]
<b>E4.0.3.1.0.0.3</b>	Basicranium anterius [partim]	Anterior basicranium [in part]
<b>E4.0.3.1.0.0.4</b>	Leptomeninx	Leptomeninx
<b>E4.0.3.1.0.0.5</b>	Epithelium olfactorium	Olfactory epithelium
<b>E4.0.0.1.2.0.17</b>	Cellula olfactoria praecursoria	Olfactory stem cell
<b>E4.0.3.1.0.0.6</b>	Neuroblastus olfactorius	Olfactory neuroblast
<b>E4.0.3.1.0.0.7</b>	Neuron olfactorium immaturum	Immature olfactory neuron
<b>E4.0.3.1.0.0.8</b>	Epitheliocytus sustentans olfactorius	Olfactory supporting epithelial cell
<b>E4.0.3.1.0.0.9</b>	Cellula olfactoria implicans; Gliocytus olfactorius implicans	Olfactory ensheathing cell [OEC]; olfactory ensheathing glial cell
<b>E4.0.3.1.0.0.10</b>	Epitheliocytus basalis olfactorius	Olfactory basal epithelial cell
<b>E4.0.3.1.0.0.11</b>	Neuroblastus vomeronasalis	Vomeronasal neuroblast
<b>E4.0.3.1.0.0.12</b>	Neuron immaturum vomeronasale	Immature vomeronasal neuron
<b>E4.0.3.1.0.0.13</b>	Neuron gonadotropinum liberans nervi vomeronasalis	Gonadotropin-releasing hormone [GnRH] neuron of vomeronasal nerve
<b>E4.0.3.1.0.0.14</b>	Gliocytus vomeronasalis implicans	Vomeronasal ensheathing glial cell
<b>E4.0.3.1.0.0.15</b>	Neuroblastus nervi terminalis	Neuroblast of nervus terminalis
<b>E4.0.3.1.0.0.16</b>	Neuron immaturum nervi terminalis	Immature neuron of nervus terminalis
<b>E4.0.3.1.0.0.17</b>	Neuron gonadotropinum liberans nervi terminalis	Gonadotropin-releasing hormone [GnRH] neuron of terminal nerve
<b>E4.0.3.1.0.0.18</b>	Cellula nervi terminalis implicans; Gliocytus nervi terminalis implicans	Ensheathing cell of terminal nerve; Ensheathing glial cell of terminal nerve
<b>E4.0.3.2.0.0.1</b>	<b>COMPLEXUS CRISTAE NEURALIS OPTICAE<sup>93</sup></b>	<b>OPTIC NEURAL CREST COMPLEX</b>
<b>E4.0.3.2.0.0.2</b>	Mesenchyma oculi [partim]	Optic mesenchyme [in part]
<b>E4.0.3.1.0.0.3</b>	Basicranium anterius [partim]	Anterior basicranium [in part]
<b>E4.0.3.1.0.0.4</b>	Leptomeninx	Leptomeninx
<b>E4.0.3.2.0.0.3</b>	Tunica fibrosa bulbi	Fibrous layer of eyeball
<b>E4.0.0.1.2.0.3</b>	Cellula cornealis praecursoria <sup>94</sup>	Corneal stem cell
<b>E4.0.3.2.0.0.4</b>	Melanocytus	Melanocyte
<b>E4.0.3.2.0.0.5</b>	Tunica vasculosa bulbi; Uvea	Vascular layer of eyeball; Uvea
<b>E4.0.3.2.0.0.6</b>	Pigmentocytus uvealis	Pigment cell of uvea
<b>E4.0.3.3.0.0.1</b>	<b>CRISTA NEURALIS PRAEOTICA</b>	<b>PRE-OTIC NEURAL CREST</b>
<b>E4.0.3.3.1.0.1</b>	<b>Complexus cristae neuralis mesencephalicae<sup>95</sup></b>	<b>Mesencephalic neural crest complex</b>
<b>E4.0.3.3.1.0.2</b>	Mesenchyma frontonasale	Frontonasal mesenchyme
<b>E4.0.3.1.0.0.3</b>	Basicranium anterius [partim]	Anterior basicranium [in part]
<b>E4.0.3.3.1.0.3</b>	Os frontale	Frontal bone
<b>E4.0.3.3.1.0.4</b>	Pars squamosa ossis temporalis	Squamous part of temporal bone

primarily structure-and time-related is debatable but for the present it has been felt that the inclusion of the sections headed Induction and interaction (page XX E3.0.0.5.0.0.1), Growth factors (page XX E4.0.1.0.0.0.1) and this footnote is appropriate.

<sup>91</sup> E4.0.3.0.0.0.1 *Structurae cristae neuralis* Neural crest tissue is dealt with under General histogenesis because of the wide range and distribution of its derivatives outside the nervous system. Neural crest cells separate from the neurosomatic ectodermal junction of the primary neural tube to give rise to the mesencephalic, rhombencephalic and spinal neural crest down to S<sub>1</sub>. Following secondary neurulation, cells delaminate from the surface of the secondary neural tube and give rise to spinal neural crest beyond S<sub>1</sub>. Groups of cells, which behave in a similar manner but arise from some placodes and by delamination from the optic and otic vesicles are classified here as neural crest-like cells. Neural crest cells and neural crest-like cells meld seamlessly into neural crest complexes and are no longer morphologically distinguishable (O'Rahilly R, Müller F. The development of the neural crest in the human. J Anat 2007;211:335-351). Here the term neural crest is used in *sensu stricto* and the term neural crest complex recognizes the dual lineage of its component cells.

<sup>92</sup> E4.0.3.1.0.0.1 *Complexus cristae neuralis nasalis* The nasal neural crest complex develops from the epithelium of the nasal placodes in Stage 13 and migrates towards the telencephalon, reaching it in Stage 15, at which stage complex-derived olfactory fibres enter the region of the future olfactory bulb.

<sup>93</sup> E4.0.3.2.0.0.1 *Complexus cristae neuralis opticae* The optic neural crest complex develops from the optic primordium in Stages 11 and 12 at the level of Diencephalon1 and is the only forebrain-derived neural crest-like tissue.

<sup>94</sup> E4.0.0.1.2.0.3 *Cellula cornealis praecursoria* Corneal stem cells come from the corneoscleral junction.

<sup>95</sup> E4.0.3.3.1.0.1 *Complexus cristae neuralis mesencephalicae* The mesencephalic neural crest complex appears at Stage 9 and at Stage 11 spreads out towards the frontonasal region where it mingles with the optic neural crest complex.

E4.0.3.3.1.0.5	Viscerocranium membranaceum [partim]	Membranous viscerocranium [in part]
E4.0.3.1.0.0.4	Leptomeninx	Leptomeninx
E4.0.3.2.0.0.2	Mesenchyma oculi [partim]	Optic mesenchyme [in part]
E4.0.0.1.2.0.3	Cellula cornealis praecursoria <sup>94</sup>	Corneal stem cell
E4.0.3.3.1.0.6	Keratocytus	Keratocyte
E4.0.3.3.1.0.7	Adipocytus	Adipocyte
E4.0.3.2.0.0.4	Melanocytus	Melanocyte
E4.0.3.3.1.0.8	Epithelium posterius corneae	Endothelium of anterior chamber
E4.0.3.3.1.0.9	Stroma iridis	Stroma of iris
E4.0.3.3.1.0.10	Membrana pupillaris [partim]	Pupillary membrane; Iridopupillary membrane [in part]
E4.0.3.3.1.0.11	Ectomesenchyma dentale	Dental ectomesenchyme
E4.0.3.3.1.0.12	Papilla dentis	Dental papilla
E4.0.3.3.1.0.13	Odontoblastus	Odontoblast
E4.0.3.3.2.0.1	<b>Crista neuralis isthmica<sup>96</sup></b>	<b>Isthmic neural crest</b>
E4.0.3.3.2.0.2	Via migrationis dorsolateralis	Dorsolateral migration pathway
E4.0.3.3.2.0.3	Mesenchyma capitis [partim]	Head mesenchyme [in part]
E4.0.3.1.0.0.4	Leptomeninx	Leptomeninx
E4.0.3.3.3.0.1	<b>Crista neuralis rhombencephalica</b>	<b>Rhombencephalic neural crest</b>
E4.0.3.3.3.1.1	<b>Complexus cristae neuralis trigeminalis<sup>97</sup></b>	<b>Trigeminal neural crest complex</b>
E4.0.3.3.2.0.2	Via migrationis dorsolateralis	Dorsolateral migration pathway
E4.0.3.1.0.0.4	Leptomeninx	Leptomeninx
E4.0.3.3.2.0.3	Mesenchyma capitis [partim]	Head mesenchyme [in part]
E4.0.3.3.3.1.2	Dermis capitis	Dermis of head
E4.0.3.3.1.0.7	Adipocytus	Adipocyte
E4.0.3.2.0.0.4	Melanocytus	Melanocyte
E4.0.3.3.1.0.5	Viscerocranium membranaceum [partim]	Membranous viscerocranium [in part]
E4.0.3.3.3.1.3	Cartilago arcus pharyngei primi [1]	First pharyngeal arch cartilage [1] §Meckel§
E4.0.3.3.3.1.4	Ossicula auditus [partim]	Auditory ossicles [in part]
E4.0.3.3.3.1.5	Fasciae propriae musculorum arcus pharyngei primi [1]	First pharyngeal arch muscle sheaths [1]
E4.0.3.3.3.1.6	Via migrationis ventrolateralis	Ventrolateral migration pathway
E4.0.3.3.3.1.7	Neuron sensorium ganglii trigeminalis	Trigeminal ganglion cell
E4.0.3.3.3.1.8	Gliocytus ganglionicus	Ganglionic satellite cell
E4.0.3.3.3.1.9	Schwannocytus	Schwann cell
E4.0.3.3.3.2.1	<b>Complexus cristae neuralis facialis<sup>98</sup></b>	<b>Facial neural crest complex</b>
E4.0.3.3.2.0.2	Via migrationis dorsolateralis	Dorsolateral migration pathway
E4.0.3.1.0.0.4	Leptomeninx	Leptomeninx
E4.0.3.3.2.0.3	Mesenchyma capitis [partim]	Head mesenchyme [in part]
E4.0.3.3.3.2.2	Dermis cervicalis [partim]	Dermis of neck [in part]
E4.0.3.3.1.0.7	Adipocytus	Adipocyte
E4.0.3.2.0.0.4	Melanocytus	Melanocyte
E4.0.3.3.1.0.5	Viscerocranium membranaceum [partim]	Membranous viscerocranium [in part]
E4.0.3.3.3.2.3	Cartilago arcus pharyngei secundi [2]	Second pharyngeal arch cartilage [2] §Reichert§
E4.0.3.3.3.1.4	Ossicula auditus [partim]	Auditory ossicles [in part]
E4.0.3.3.3.2.4	Os hyoideum [partim]	Hyoid bone [in part]
E4.0.3.3.3.2.5	Fasciae propriae musculorum arcus pharyngei secundi [2]	Second pharyngeal arch muscle sheaths [2]
E4.0.3.3.3.1.6	Via migrationis ventrolateralis	Ventrolateral migration pathway
E4.0.3.3.3.2.6	Neuron sensorium ganglii geniculi	Geniculate ganglion cell

<sup>96</sup> E4.0.3.3.2.0.1 *Crista neuralis isthmica* Neural crest cells, seen in the roof of the isthmic rhombomere in Stage 13, appear to be destined more for the leptomeninges than for the mesencephalic nucleus of the trigeminal nerve.

<sup>97</sup> E4.0.3.3.3.1.1 *Complexus cristae neuralis trigeminalis* At Stage 10 neural crest cells migrate mainly from future rhombomere 2 but with contributions from adjacent future rhombomeres and with neural crest-like cells from the overlying ectoderm form the trigeminal neural crest complex.

<sup>98</sup> E4.0.3.3.3.2.1 *Complexus cristae neuralis facialis* At Stage 10 neural crest cells migrate mainly from rhombomere 4 but with contributions from adjacent rhombomeres and with neural crest-like cells from the overlying ectoderm form the facial neural crest complex.

<b>E4.0.3.3.1.8</b>	Gliocyty ganglionicus	Ganglionic satellite cell
<b>E4.0.3.3.1.9</b>	Schwannocytus	Schwann cell
<b>E4.0.3.4.0.0.1</b>	<b>COMPLEXUS CRISTAE NEURALIS OTICAE<sup>99</sup></b>	<b>OTIC NEURAL CREST COMPLEX</b>
<b>E4.0.3.3.2.0.2</b>	Via migrationis dorsolateralis	Dorsolateral migration pathway
<b>E4.0.3.1.0.0.4</b>	Leptomeninx	Leptomeninx
<b>E4.0.3.4.0.0.2</b>	Mesenchyma oticum [partim]	Otic mesenchyme [in part]
<b>E4.0.3.4.0.0.3</b>	Capsula otica [partim]	Otic capsule [in part]
<b>E4.0.3.4.0.0.4</b>	Arcus pharyngei secundi et tertii [2&3]	Second and third pharyngeal arches [2&3]
<b>E4.0.3.3.1.6</b>	Via migrationis ventrolateralis	Ventrolateral migration pathway
<b>E4.0.3.4.0.0.5</b>	Neuron sensorium ganglionare vestibulare	Vestibular ganglion cell
<b>E4.0.3.4.0.0.6</b>	Neuron sensorium ganglionare cochleare	Cochlear ganglion cell
<b>E4.0.3.3.1.8</b>	Gliocyty ganglionicus	Ganglionic satellite cell
<b>E4.0.3.3.1.9</b>	Schwannocytus	Schwann cell
<b>E4.0.3.5.0.0.1</b>	<b>CRISTA NEURALIS POSTOTICA</b>	<b>POST-OTIC NEURAL CREST</b>
<b>E4.0.3.5.0.1.1</b>	<b>Complexus cristae neuralis glossopharyngealis<sup>100</sup></b>	<b>Glossopharyngeal neural crest complex</b>
<b>E4.0.3.3.2.0.2</b>	Via migrationis dorsolateralis	Dorsolateral migration pathway
<b>E4.0.3.1.0.0.4</b>	Leptomeninx	Leptomeninx
<b>E4.0.3.5.0.1.2</b>	Crista neuralis cardiaca [partim] <sup>101</sup>	Cardiac neural crest [in part]
<b>E4.0.3.5.0.1.3</b>	Cartilago arcus pharyngei tertii [3]	Third pharyngeal arch cartilage [3]
<b>E4.0.3.3.3.2.4</b>	Os hyoideum [partim]	Hyoid bone [in part]
<b>E4.0.3.5.0.1.4</b>	Fascia propria musculi stylopharyngei	Stylopharyngeus muscle sheath
<b>E4.0.3.3.3.1.6</b>	Via migrationis ventrolateralis	Ventrolateral migration pathway
<b>E4.0.3.5.0.1.5</b>	Neuron sensorium ganglii glossopharyngealis	Glossopharyngeal ganglion cell
<b>E4.0.3.5.0.1.6</b>	Ganglion glossopharyngeale superius	Superior glossopharyngeal ganglion
<b>E4.0.3.5.0.1.7</b>	Ganglion glossopharyngeale inferius	Inferior glossopharyngeal ganglion
<b>E4.0.3.3.3.1.8</b>	Gliocyty ganglionicus	Ganglionic satellite cell
<b>E4.0.3.3.3.1.9</b>	Schwannocytus	Schwann cell
<b>E4.0.3.5.0.2.1</b>	<b>Complexus cristae neuralis vagalis<sup>100</sup></b>	<b>Vagal neural crest complex</b>
<b>E4.0.3.3.2.0.2</b>	Via migrationis dorsolateralis	Dorsolateral migration pathway
<b>E4.0.3.1.0.0.4</b>	Leptomeninx	Leptomeninx
<b>E4.0.3.5.0.1.2</b>	Crista neuralis cardiaca [partim] <sup>101</sup>	Cardiac neural crest [in part]
<b>E4.0.3.5.0.2.2</b>	Cartilago arcus pharyngei quarti [4]	Fourth pharyngeal arch cartilage [4]
<b>E4.0.3.5.0.2.3</b>	Cartilagine laryngeae	Laryngeal cartilages
<b>E4.0.3.5.0.2.4</b>	Fasciae propriae musculorum arcus pharyngei quarti [4]	Fourth pharyngeal arch muscle sheaths [4]
<b>E4.0.3.3.3.1.6</b>	Via migrationis ventrolateralis	Ventrolateral migration pathway
<b>E4.0.3.5.0.2.5</b>	Neuron sensorium ganglii vagalis	Vagal ganglion cell
<b>E4.0.3.5.0.2.6</b>	Ganglion vagale superius	Superior vagal ganglion
<b>E4.0.3.5.0.2.7</b>	Ganglion vagale inferius	Inferior vagal ganglion
<b>E4.0.3.3.3.1.8</b>	Gliocyty ganglionicus	Ganglionic satellite cell
<b>E4.0.3.3.3.1.9</b>	Schwannocytus	Schwann cell
<b>E4.0.3.5.0.2.8</b>	Linea generationis cellularum parasymphaticarum	Parasympathetic cell lineage
<b>E4.0.3.5.0.2.9</b>	Pars enterica systematis nervosi	Enteric nervous system
<b>E4.0.3.5.0.2.10</b>	Ganglion entericum	Enteric ganglion
<b>E4.0.3.5.0.2.11</b>	Plexus entericus ganglionaris	Ganglionic enteric plexus; Enteric nerve plexus
<b>E4.0.3.5.0.2.12</b>	Plexus nervosus myentericus	Myenteric plexus §Auerbach§

<sup>99</sup> E4.0.3.4.0.0.1 *Complexus cristae neuralis oticae* Neural crest-like cells migrate from the otic placode at Stage 10 and, becoming attached to the facial neural crest complex, represent the primordial vestibular ganglion; the cochlear ganglion is recognizable at Stage 15.

<sup>100</sup> E4.0.3.5.0.1.1/E4.0.3.5.0.2.1 *Complexus cristae neuralis glossopharyngealis/ Complexus cristae neuralis vagalis* At Stage 10 neural crest cells migrate mainly from the roof of rhombomere 6 and probably from adjacent rhombomeres and meld with neural crest-like cells from the overlying ectoderm to form part of a continuous glossopharyngeal/vagal neural crest complex: in Stage 13, the glossopharyngeal and vagal parts separate and each develops superior and inferior ganglia, of which only the superior ganglia are believed to be derived from neural crest per se.

<sup>101</sup> E4.0.3.5.0.1.2 *Crista neuralis cardiaca* At Stage 12 some neural crest cells from rhombomeres 6 and 7, which are in continuity ventrally with the hypoglossal neural crest, proceed via pharyngeal arches towards the truncus arteriosus; at Stage 13 they are joined by neural crest and neural crest-like cells and, continuing beyond the inferior glossopharyngeal and vagal ganglia, migrate into the 3<sup>rd</sup> and 4<sup>th</sup> pharyngeal arches; these components are interpreted as human cardiac neural crest tissue.

<b>E4.0.3.5.0.2.13</b>	Plexus nervosus submucosus externus	Outer submucous plexus §Schabadasch§
<b>E4.0.3.5.0.2.14</b>	Plexus nervosus submucosus internus	Inner submucous plexus §Meissner§
<b>E4.0.3.5.0.2.15</b>	Plexus entericus aganglionaris	Aganglionic enteric plexus
<b>E4.0.3.5.0.2.16</b>	Gliocyty entericus	Enteric glial cell
<b>E4.0.3.5.0.3.1</b>	<b>Complexus cristae neuralis cardiacus</b> <sup>101</sup>	<b>Cardiac neural crest complex</b>
<b>E4.0.3.5.0.3.2</b>	Arcus pharyngei tertii, quartii et sexti	Third, fourth and sixth pharyngeal arches
<b>E4.0.3.5.0.3.3</b>	Aa. arcuum pharyngeorum <sup>223</sup>	Pharyngeal arch arteries; Aortic arches
<b>E4.0.3.5.0.3.4</b>	Paraganglia	Paraganglia
<b>E4.0.3.5.0.3.5</b>	Paragangliocyty; Cellula typi I	Paragangliocyte; Type I cell
<b>E4.0.3.5.0.3.6</b>	Glandulae parathyroideae [partim]	Parathyroid glands [in part]
<b>E4.0.3.5.0.3.7</b>	Stroma glandulae parathyroideae	Parathyroid stroma
<b>E4.0.3.5.0.3.8</b>	Cor [partim]	Heart [in part]
<b>E4.0.3.5.0.3.9</b>	Basis cordis [partim]	Base of heart [in part]
<b>E4.0.3.5.0.3.10</b>	Ductus communis egressionis cordis [partim]	Common outflow tract of heart [in part]
<b>E4.0.3.5.0.3.11</b>	Crista endocardiaca septalis; Tuber endocardiaceum septale	Septal ridge; Septal cushion; Parietal cushion
<b>E4.0.3.5.0.3.12</b>	Septum aorticopulmonale [partim]	Aorticopulmonary septum [in part]
<b>E4.0.3.5.0.3.13</b>	Valva aortae [partim]	Aortic valve; Aortic arterial valve [in part]
<b>E4.0.3.5.0.3.14</b>	Valva trunci pulmonalis [partim]	Pulmonary valve; Pulmonary arterial valve [in part]
<b>E4.0.3.5.0.3.15</b>	Tubera endocardiaca atrioventricularia [minimum]	Atrioventricular endocardiac cushions [minimum]
<b>E4.0.3.5.0.3.16</b>	Cardiomyocyty atrialis secretans	Endocrine atrial cardiomyocyte; Atrial myo-endocrine cell
<b>E4.0.3.5.0.3.17</b>	Trachea et bronchi [partim]	Trachea and bronchi [in part]
<b>E4.0.3.5.0.3.18</b>	Neuroendocrinocyty respiratorius	Respiratory neuro-endocrine cell
<b>E4.0.3.5.0.3.19</b>	Gemma thymica [partim]	Thymic bud [in part]
<b>E4.0.3.5.0.3.20</b>	Stroma thymi	Thymic stroma
<b>E4.0.3.5.0.3.21</b>	Glandula thyroidea [partim]	Thyroid gland [in part]
<b>E4.0.3.5.0.3.22</b>	Thyrocyty C	C thyrocyte; C cell; Parafollicular cell
<b>E4.0.3.5.0.4.1</b>	<b>Crista neuralis nervi accessorii</b> <sup>102</sup>	<b>Neural crest of accessory nerve</b>
<b>E4.0.3.3.2.0.2</b>	Via migrationis dorsolateralis	Dorsolateral migration pathway
<b>E4.0.3.1.0.0.4</b>	Leptomeninx	Leptomeninx
<b>E4.0.3.3.3.1.9</b>	Schwannocyty	Schwann cell
<b>E4.0.3.5.0.5.1</b>	<b>Crista neuralis hypoglossalis; Crista neuralis occipitalis</b> <sup>103</sup>	<b>Hypoglossal neural crest; Occipital neural crest</b>
<b>E4.0.3.3.2.0.2</b>	Via migrationis dorsolateralis	Dorsolateral migration pathway
<b>E4.0.3.1.0.0.4</b>	Leptomeninx	Leptomeninx
<b>E4.0.3.3.1.0.7</b>	Adipocyty	Adipocyte
<b>E4.0.3.2.0.0.4</b>	Melanocyty	Melanocyte
<b>E4.0.3.5.0.5.2</b>	Chorda hypoglossalis [partim]	Hypoglossal cord [in part]
<b>E4.0.3.3.3.1.9</b>	Schwannocyty	Schwann cell
<b>E4.0.3.5.1.0.1</b>	<b>Crista neuralis spinalis</b> <sup>104</sup>	<b>Spinal neural crest</b>
<b>E4.0.3.3.2.0.2</b>	<b>Via migrationis dorsolateralis</b> <sup>105</sup>	<b>Dorsolateral migration pathway</b>
<b>E4.0.3.2.0.0.4</b>	Melanocyty	Melanocyte

<sup>102</sup> E4.0.3.5.0.4.1 *Cristae neuralis nervi accessorii* At Stage 12 *neural crest cells* from rhombomere 7 migrate and form the *neural crest of the accessory nerve*, which, by Stage 13, extends uninterruptedly between the *vagal neural crest* and the *spinal neural crest*.

<sup>103</sup> E4.0.3.5.0.5.1 *Cristae neuralis hypoglossalis; Crista neuralis occipitalis* In Stage 10 *neural crest cells* migrate from rhombomere 8 and spread between occipital somites where they mingle with myotomic cells to form the *hypoglossal cell cord*; at Stage 12 the cord has reached the 1<sup>st</sup> pharyngeal arch; by Stage 16 the cord has reached the lateral lingual swelling.

<sup>104</sup> E4.0.3.5.1.0.1 *Crista neuralis spinalis* The spinal leptomeninges, mesenchyme of the neck, trunk and lower limb dermis and adipocytes were formerly attributed to the *spinal neural crest* but are now known to be derived from somites (Christ B, Huang R, Scaal M. Amniote somite derivatives. *Dev Dyn* 2007;236:2382-2396). The traditional distinction between trunk and lumbosacral *spinal neural crest* seems inappropriate because the trunk lumbar and 1<sup>st</sup> sacral *spinal neural crest* all form in the same way whereas the remaining sacral and coccygeal *spinal neural crest*, which form after the caudal neuropore closes at Stage 12, do so by direct outgrowth from the secondary neural tube. The caudal limit of the *spinal neural crest* descends with each Stage, as does the formation of primordial spinal ganglia; some 19 at Stage 13 and 33 at Stage 14.

<sup>105</sup> E4.0.3.3.2.0.2 *Via migrationis dorsolateralis* Dorsolateral migration from the *spinal neural crest* passes between the surface ectoderm and the dermatomyotome.

<b>E4.0.3.3.3.1.6</b>	<b>Via migrationis ventrolateralis</b> <sup>106</sup>	<b>Ventrolateral migration pathway</b>
<b>E4.0.3.5.1.2.1</b>	Neuron sensorium ganglii spinalis	Spinal ganglion cell
<b>E4.0.3.3.3.1.8</b>	Gliocytyus ganglionicus	Ganglionic satellite cell
<b>E4.0.3.3.3.1.9</b>	Schwannocytus	Schwann cell
<b>E4.0.3.5.1.3.1</b>	<b>Via ventromedialis</b> <sup>107</sup>	<b>Ventromedial migration pathway</b>
<b>E4.0.3.5.1.3.2</b>	Linea generationis cellularum sympathicosuprarenalium	Sympathosuprarenal cell lineage; Sympatho-adrenal cell lineage
<b>E4.0.3.5.1.3.3</b>	Ganglion trunci sympathici	Ganglion of sympathetic trunk
<b>E4.0.3.3.3.1.8</b>	Gliocytyus ganglionicus	Ganglionic satellite cell
<b>E4.0.3.5.1.3.4</b>	Medulla suprarenalis	Suprarenal medulla
<b>E4.0.3.5.1.3.5</b>	Endocrinocytus chromophilus medullaris	Medullary chromaffin cell
<b>E4.0.3.5.1.3.6</b>	Ganglia praeaoertica	Pre-aortic ganglia andl§ §Zuckerker
<b>E4.0.3.3.3.1.8</b>	Gliocytyus ganglionicus	Ganglionic satellite cell
<b>E4.0.3.5.0.2.8</b>	Linea generationis cellularum parasymphathicarum	Parasympathetic cell lineage
<b>E4.0.3.5.1.3.7</b>	Ganglion parasymphathicum	Parasympathetic ganglion
<b>E4.0.3.3.3.1.8</b>	Gliocytyus ganglionicus	Ganglionic satellite cell
<b>E4.0.4.0.0.1</b>	<b>Textus connectivi atque sustinentes</b>	<b>Connective and supporting tissues</b>
<b>E4.0.4.1.0.0.1</b>	<b>TEXTUS ADIPOSUS</b>	<b>ADIPOSE TISSUE</b>
<b>E4.0.4.1.0.0.2</b>	Mesenchyma somiticum	Somitic mesenchyme
<b>E4.0.4.1.0.0.3</b>	Mesenchyma somatopleurale <sup>206</sup>	Somatopleuric mesenchyme
<b>E4.0.4.1.0.0.4</b>	Mesenchyma splanchnopleurale <sup>207</sup>	Splanchnopleuric mesenchyme
<b>E4.0.4.1.0.0.5</b>	Ectomesenchyma; Mesenchyma cristae neuralis	Ectomesenchyme; Neural crest mesenchyme
<b>E4.0.4.1.0.0.6</b>	Mesenchyma ex eminentia caudale	Mesenchyme from caudal eminence
<b>E4.0.4.1.0.0.7</b>	Cellula adipocytogenetrix <sup>108</sup>	Fat cell progenitor
<b>E4.0.4.1.0.0.8</b>	Praeadipocytus	Pre-adipocyte
<b>E4.0.4.1.0.0.9</b>	Praeadipocytus celeriter replicans	Fast replicating pre-adipocyte
<b>E4.0.4.1.0.0.10</b>	Praeadipocytus cunctanter replicans	Slowly replicating pre-adipocyte
<b>E4.0.4.1.0.0.11</b>	Adipocytus fuscus	Brown adipose cell
<b>E4.0.4.1.0.0.12</b>	Lobulus adiposus vascularis	Perivascular adipose lobule
<b>E4.0.4.1.0.0.13</b>	Textus adiposus fuscus	Brown adipose tissue
<b>E4.0.4.1.0.0.14</b>	Adipocytus albus	White adipose cell
<b>E4.0.4.1.0.0.15</b>	Textus adiposus albus	White adipose tissue
<b>E4.0.4.2.0.0.1</b>	<b>CHONDROHISTOGENESIS</b>	<b>CHONDROHISTOGENESIS</b>
<b>E4.0.4.2.0.0.2</b>	Chondroblastus	Chondroblast
<b>E4.0.4.2.0.0.3</b>	Chondrocytyus	Chondrocyte
<b>E4.0.4.3.0.0.1</b>	<b>CHONDROIDOGENESIS</b>	<b>CHONDROIDOGENESIS</b>
<b>E4.0.4.3.0.0.2</b>	Chondroidocytus	Chondroidocyte
<b>E4.0.4.3.0.0.3</b>	Textus chondroideus {vide Terminologia Histologica}	Chondroid tissue {see Terminologia Histologica}
<b>E4.0.4.4.0.0.1</b>	<b>OSTEOGENESIS</b>	<b>OSTEOGENESIS; OSTEOGENY</b>
<b>E4.0.4.4.0.0.2</b>	Mesenchyma blastemale	Blastemal mesenchyme
<b>E3.0.0.6.1.0.71</b>	Motus condensationis; Motus densationis <sup>68</sup>	Condensation movement; Densation movement
<b>E4.0.4.4.0.0.3</b>	Cellula osteoprogenetrix	Osteoprogenitor cell
<b>E4.0.4.4.0.0.4</b>	Osteoblastus	Osteoblast
<b>E4.0.4.4.0.0.5</b>	Stratum praeosseum; Osteoideum	Osteoid; Preosseous matrix
<b>E4.0.4.4.0.0.6</b>	Centrum ossificationis	Ossification centre <sup>▲</sup>

<sup>106</sup> E4.0.3.3.3.1.6 *Via migrationis ventrolateralis* Ventrolateral migration from the *spinal neural crest* passes between the dermatomyotome and the sclerotome.

<sup>107</sup> E4.0.3.5.1.3.1 *Via migrationis ventromedialis* Ventromedial migration from the *spinal neural crest* passes between the sclerotome and the neural tube.

<sup>108</sup> E4.0.4.1.0.0.7 *Cellula adipocytogenetrix* Adipose tissue not only develops from mesenchyme from various sources but also from *fat cell progenitors* derived from granulocyte macrophage colony-forming units (GM-CFU).



E4.0.4.4.0.0.7	Ossificatio	Ossification
E4.0.4.4.0.0.8	Linea calcificationis	Calcification front
E4.0.4.4.0.0.9	Crystallum hydroxyapatiti	Hydroxyapatite crystal
E4.0.4.4.0.0.10	Trabecula ossea	Bone trabecula
E4.0.4.4.0.0.11	Osteonum	Osteon
E4.0.4.4.0.0.12	Cellula osteoclastoprogenetrix <sup>109</sup>	Osteoclast progenitor cell
E4.0.4.4.0.0.13	Osteoclastus <sup>110</sup>	Osteoclast
E4.0.4.4.0.0.14	Lacuna erosionis	Osteoclastic crypt; Erosion lacuna
E4.0.4.4.0.0.15	Linea erosionis; Linea resorptionis	Erosion front
E4.0.4.4.0.0.16	Os membranaceum	Membranous bone
E4.0.4.4.0.0.17	Os endochondrale	Endochondral bone
E4.0.4.4.0.0.18	Cellula vestiens ossis progenetrix	Bone-lining cell progenitor
E4.0.4.4.1.0.1	<b>Ossificatio membranacea; Ossificatio desmalis</b>	<b>Membranous ossification; Intramembranous ossification</b>
E4.0.4.4.0.0.2	Mesenchyma blastemale	Blastemal mesenchyme
E4.0.4.3.0.0.3	Textus chondroideus	Chondroid tissue
E4.0.4.4.0.0.6	Centrum ossificationis	Ossification centre <sup>▲</sup>
E3.0.0.6.1.0.73	Motus detraktionis <sup>69</sup>	Detractional movement
E3.0.0.6.1.0.74	Motus detondens	Shearing movement
E4.0.4.4.1.0.2	Stratum osteoblasticum	Osteoblastic layer
E4.0.4.4.0.0.4	Osteoblastus	Osteoblast
E4.0.4.4.0.0.13	Osteoclastus <sup>110</sup>	Osteoclast
E4.0.4.4.0.0.10	Trabecula ossea	Bone trabecula
E4.0.4.4.1.0.3	Osteocytus	Osteocyte
E4.0.4.4.2.0.1	<b>Ossificatio chondralis</b>	<b>Chondral ossification; Cartilaginous ossification</b>
E4.0.4.4.2.0.2	Commutationes intracartilagineae	Changes in cartilage
E4.0.4.4.2.0.3	Irruptio a vasis	Vascularization
E4.0.4.4.2.0.4	Canalis cartilagineus <sup>111</sup>	Cartilage canals
E4.0.4.4.2.0.5	Hypertrophia chondrocytorum	Hypertrophy of chondrocytes
E4.0.4.4.2.0.6	Vacuolatio	Vacuolation
E4.0.4.4.2.0.7	Accumulatio glycogeni	Accumulation of glycogen
E4.0.4.4.2.0.8	Formatio septorum matriculium	Formation of matrix septa
E4.0.4.4.2.0.9	Degeneratio chondrocytorum	Degeneration of chondrocytes
E4.0.4.4.2.0.10	Formatio lacunarum in cartilagine	Formation of cartilage lacunae
E4.0.4.4.2.0.11	Calcificatio parietum lacunarum	Calcification of lacunar walls
E4.0.4.4.3.0.1	<b>Ossificatio perichondralis diaphysialis<sup>112</sup></b>	<b>Perichondral ossification in diaphysis</b>
E4.0.4.4.3.0.2	Perichondrium diaphysiale	Diaphysial perichondrium
E4.0.4.4.1.0.1	Ossificatio membranacea; Ossificatio desmalis	Membranous ossification; Intramembranous ossification
E4.0.4.4.3.0.3	Os perichondrale	Perichondral bone
E4.0.4.4.3.0.4	Periosteum	Periosteum
E4.0.4.4.3.0.5	Stratum osteogenicum	Osteogenic layer
E4.0.4.4.0.0.4	Osteoblastus	Osteoblast
E4.0.4.4.0.0.13	Osteoclastus <sup>110</sup>	Osteoclast
E4.0.4.4.0.0.10	Trabecula ossea	Bone trabecula
E4.0.4.4.3.0.6	Anulus perichondralis <sup>113</sup>	Perichondral collar

<sup>109</sup> E4.0.4.4.0.0.12 *Cellula osteoclastoprogenetrix* The *osteoclast progenitor cell* is a multipotent mononuclear stem cell, which is derived from bone marrow and gives rise to monocytes in peripheral blood and to the various types of tissue macrophages (Bar-Shavit Z. The osteoclast: a multinucleated, hematopoietic-origin, bone-resorbing osteoimmune cell. J Cell Biochem 2007; 102:1130–1139 & erratum J Cell Biochem (2008) 104: 1946-1947).

<sup>110</sup> E4.0.4.4.0.0.13 *Osteoclastus* Osteoclasts form by the fusion of *osteoclast progenitor cells* (Bar-Shavit Z. The osteoclast: a multinucleated, hematopoietic-origin, bone-resorbing osteoimmune cell. J Cell Biochem 2007; 102:1130–1139).

<sup>111</sup> E4.0.4.4.2.0.4 *Canalis cartilagineus* Cartilage canals first appear in the early fetus and by 28 weeks all the larger masses of cartilage are permeated by them. They contain blood vessels surrounded by loose cellular tissue and provide the osteoblastic tissue for ossification when this later occurs (Haines RW. Cartilage canals. J Anat 1933:68:45-64).

<sup>112</sup> E4.0.4.4.3.0.1 *Ossificatio perichondralis diaphysialis* Adjectives derived from nouns such as *diaphysis*, *epiphysis* and *hypophysis* are, in a strict grammatical sense, probably best constructed using the suffix *-alis* giving *diaphysialis*, *epiphysialis*, *hypophysialis* and *symphysialis*. However, for reasons of terminological precedence and consistency, the spellings of *diaphysialis*, *epiphysialis*, *hypophysialis* and *symphysialis* have been here retained.

<b>E4.0.4.4.3.0.7</b>	Anulus osseus diaphysialis <sup>112</sup>	Diaphysial bone collar
<b>E4.0.4.4.3.0.4</b>	Periosteum	Periosteum
<b>E4.0.4.4.3.0.8</b>	Gemma osteogenica	Osteogenic bud
<b>E4.0.4.4.3.0.9</b>	Gemma capillaris	Capillary sprout
<b>E4.0.4.4.0.0.13</b>	Osteoclastus <sup>110</sup>	Osteoclast
<b>E4.0.4.4.3.0.10</b>	Chondroclastus	Chondroclast
<b>E4.0.4.4.0.0.3</b>	Cellula osteoprogenetrix	Osteoprogenitor cell
<b>E4.0.4.4.3.0.11</b>	Erosio osteoclastica anuli ossei diaphysialis <sup>112</sup>	Osteoclastic erosion of diaphysial bone collar
<b>E4.0.4.4.3.0.12</b>	Canalis erosionis	Erosion canal
<b>E4.0.4.4.4.0.1</b>	<b>Ossificatio endochondralis diaphysialis<sup>112</sup></b>	<b>Endochondral ossification in diaphysis</b>
<b>E4.0.4.4.4.0.2</b>	Extensio gemmae osteogenicae per canalem erosionis in primordium cartilagineum	Spread of osteogenic bud through erosion canal into cartilage model
<b>E4.0.4.4.4.0.3</b>	Centrum primarium ossificationis; Centrum diaphysiale ossificationis	Primary ossification centre; Diaphysial ossification centre <sup>▲</sup>
<b>E4.0.4.4.4.0.4</b>	Nucleus osteogenicus primarius	Primary osteogenic nucleus
<b>E4.0.4.4.4.0.5</b>	Cavitas medullaris primaria	Primary medullary cavity
<b>E4.0.4.4.5.0.1</b>	<b>Ossificatio endochondralis epiphysialis<sup>112</sup></b>	<b>Endochondral ossification in epiphysis</b>
<b>E4.0.4.4.5.0.2</b>	Cartilago epiphysialis <sup>112</sup>	Epiphysial cartilage
<b>E4.0.4.4.5.0.3</b>	Zona quiescens	Resting zone; Quiescent zone
<b>E4.0.4.4.5.0.4</b>	Zona proliferacionis	Proliferation zone
<b>E4.0.4.4.5.0.5</b>	Columella chondrocytorum	Chondrocyte column
<b>E4.0.4.4.5.0.6</b>	Zona hypertrophica	Hypertrophic zone
<b>E4.0.4.4.5.0.7</b>	Chondrocytus hypertrophicus	Hypertrophic chondrocyte
<b>E4.0.4.4.5.0.8</b>	Zona calcificationis	Calcification zone
<b>E4.0.4.4.5.0.9</b>	Cartilago calcificata	Calcified cartilage
<b>E4.0.4.4.5.0.10</b>	Lacuna cartilaginis	Cartilaginous lacuna
<b>E4.0.4.4.5.0.11</b>	Paries transversus lacunae	Transverse wall of lacuna
<b>E4.0.4.4.5.0.12</b>	Paries longitudinalis lacunae	Longitudinal wall of lacuna
<b>E4.0.4.4.5.0.13</b>	Zona erosionis	Erosion zone
<b>E4.0.4.4.0.0.14</b>	Lacuna erosionis	Osteoclastic crypt; Erosion lacuna
<b>E4.0.4.4.3.0.10</b>	Chondroclastus	Chondroclast
<b>E4.0.4.4.5.0.14</b>	Zona ossificationis	Ossification zone
<b>E4.0.4.4.0.0.17</b>	Os endochondrale	Endochondral bone
<b>E4.0.4.4.5.0.15</b>	Trabecula ossea primaria	Primary bone trabecula
<b>E4.0.4.4.5.0.16</b>	Trabecula ossea secundaria	Secondary bone trabecula
<b>E4.0.4.4.5.0.17</b>	Centrum secundarium ossificationis; Centrum epiphysiale ossificationis	Secondary ossification centre; Epiphysial ossification centre <sup>▲</sup>
<b>E4.0.4.4.5.0.18</b>	Nucleus osteogenicus secundarius	Secondary osteogenic nucleus
<b>E4.0.4.4.5.0.7</b>	Chondrocytus hypertrophicus	Hypertrophic chondrocyte
<b>E4.0.4.4.5.0.9</b>	Cartilago calcificata	Calcified cartilage
<b>E4.0.4.4.5.0.19</b>	Textus osseus reticulofibrosus	Woven bone
<b>E4.0.4.4.6.0.1</b>	<b>Lamina epiphysialis<sup>112</sup></b>	<b>Epiphysial plate; Growth plate</b>
<b>E4.0.4.4.5.0.19</b>	<b>Textus osseus reticulofibrosus</b>	<b>Woven bone</b>
<b>E4.0.4.4.7.0.1</b>	Trabecula	Trabecula
<b>E4.0.4.4.7.0.2</b>	Os compactum non maturum	Immature compact bone
<b>E4.0.4.4.7.0.3</b>	Spatium vasculare	Vascular space
<b>E4.0.4.4.8.0.1</b>	<b>Os lamellare</b>	<b>Lamellar bone</b>
<b>E4.0.4.4.8.0.2</b>	Lamella ossea	Osseous lamella
<b>E4.0.4.4.0.0.5</b>	Stratum praeosseum; Osteoideum	Osteoid; Preosseous matrix
<b>E4.0.4.4.8.0.3</b>	Lamella circumtendens	Circumferential lamella
<b>E4.0.4.4.8.0.4</b>	Lamella concentrica	Concentric lamella

<sup>113</sup> E4.0.4.4.3.0.6 *Anulus perichondralis* This term describes the site of periosteal activity around the cartilaginous bud of a bone, and later the periosteal activity around the diaphysial cartilage.

<b>E4.0.4.4.8.0.5</b>	Osteonum primum <sup>114</sup>	Primary osteon
<b>E4.0.4.4.8.0.6</b>	Osteonum secundarium <sup>114</sup>	Secondary osteon
<b>E4.0.4.4.8.0.7</b>	Cavitas medullaris ossis	Medullary cavity of bone
<b>E4.0.4.4.9.0.1</b>	<b>Myohistogenesis</b>	<b>Myohistogenesis</b>
<b>E4.0.0.1.3.0.1</b>	Cellulae progenetrices	Progenitor cells
<b>E4.0.4.4.9.0.2</b>	Cellula myocytoprogenetrix	Myocytoprogenitor cell
<b>E4.0.4.4.9.0.3</b>	Cellula cardiomyocytoprogenetrix	Cardiac myocytoprogenitor cell
<b>E4.0.4.4.9.0.4</b>	Promyoblastus	Promyoblast
<b>E4.0.4.4.9.0.5</b>	Myoblastus	Myoblast
<b>E4.0.4.4.9.0.6</b>	Status mononuclearis	Mononuclear state
<b>E4.0.4.4.9.0.7</b>	Myocytus levis; Myocytus non striatus	Smooth muscle cell
<b>E4.0.4.4.9.0.8</b>	Cardiomyocytus; Myocytus cardiacus	Cardiac muscle cell
<b>E4.0.4.4.9.0.9</b>	Status multinuclearis	Multinuclear state
<b>E4.0.4.4.9.0.10</b>	Myotubus	Myotube
<b>E4.0.4.4.9.0.11</b>	Myofibra	Myofibre <sup>▲</sup>
<b>E4.0.4.4.9.0.12</b>	Myofibra striata non cardiaca	Non-cardiac striated muscle fibre <sup>▲</sup>
<b>E4.0.4.4.10.0.1</b>	<b>Tendinogenesis</b>	<b>Tendinogenesis</b>
<b>E4.0.4.4.10.0.2</b>	Cellula tendinocytoprogenetrix	Tendinocyte progenitor cell
<b>E4.0.4.4.10.0.3</b>	Tendinoblastus	Tendinoblast
<b>E4.0.4.4.10.0.4</b>	Tendinocytus	Tendon cell; Tendinocyte; Tenocyte
	<b>Organogenesis</b>	<b>Organogeny</b>
<b>E5.0.0.0.0.0.1</b>	<b>Ossa; Systema skeletale</b>	<b>Bones; Skeletal system</b>
<b>E5.0.1.0.0.0.1</b>	<b>Skeletogenesis generalis</b>	<b>General skeletogenesis</b>
<b>E5.0.1.1.0.0.1</b>	<b>CHORDAGENESIS</b>	<b>NOTOCHORD FORMATION</b>
<b>E5.0.1.1.0.0.2</b>	Nodus primitivus; Nodus gastrulationis <sup>377</sup>	Primitive node; Gastrulation node §Hensen§
<b>E5.0.1.1.0.0.3</b>	Fovea primitiva; Fovea notochordalis <sup>384</sup>	Primitive pit; Notochordal pit
<b>E5.0.1.1.0.0.4</b>	Processus notochordalis; Processus axialis; Chordomesoderma	Notochordal process; Axial process; Chordamesoderm
<b>E5.0.1.1.0.0.5</b>	Canalis notochordalis	Notochordal canal
<b>E5.0.1.1.0.0.6</b>	(Canalis neurentericus) <sup>115</sup>	(Neurenteric canal)
<b>E5.0.1.1.0.0.7</b>	Lamina notochordalis	Notochordal plate
<b>E3.0.0.6.1.0.96</b>	Plicatio	Folding
<b>E5.0.1.1.0.0.8</b>	Notochorda; Notochorda propria; Chorda dorsalis	Notochord; Notochord proper
<b>E5.0.1.1.0.0.9</b>	Extensio notochordae e mesenchymate axiali denso	Extension of notochord out of axial dense mesenchyme
<b>E5.0.1.1.0.0.10</b>	Lamina basalis notochordalis; Vagina acellularis notochordalis <sup>116</sup>	Notochordal basal lamina; Acellular notochordal sheath
<b>E5.0.1.1.0.0.11</b>	Vagina notochordalis; Vagina cellularis notochordalis	Notochordal sheath; Perichordal sheath; Cellular notochordal sheath
<b>E5.0.1.2.0.0.1</b>	<b>CHONDROGENESIS</b> {vide Histogenesis generalis supra}	<b>CHONDROGENESIS</b> { see General histogenesis above}

<sup>114</sup> E4.0.4.4.8.0.5/ E4.0.4.4.8.0.6 *Osteonum primum/Osteonum secundarium* Primary osteons are directly deposited by the periosteum and not in a preceding resorption cavity. As a result, unlike secondary osteons, primary osteons are not limited by resorption or reversal lines. Secondary osteons are deposited in a resorption cavity and are limited by resorption or reversal lines.

<sup>115</sup> E5.0.1.1.0.0.6 *Canalis neurentericus* The neurenteric canal is not a constant feature of all described human embryos at any one Stage and some believe that it still needs to be demonstrated in well preserved specimens (Viebahn C. personal communication). Nevertheless, it has been described in some embryos of Stages 8, 9 10. It is also said that the site of its closure can be detected, by differences in the thickness of the epithelium roofing the hind gut, in embryos with more than 5 somite pairs in Stage 10 (Müller F, O'Rahilly R. The first appearance of the neural tube and optic primordium in the human embryo at stage 10. *Anat Embryol* 1985;172:157-169) and in Stage 11 (Müller F, O'Rahilly R. The development of the human brain and the closure of the rostral neuropore at stage 11. *Anat Embryol* 1986;175:205-222).

<sup>116</sup> E5.0.1.1.0.0.10 *Lamina basalis notochordalis; Vagina acellularis notochordalis* The extracellular notochordal basal lamina is rich in glycosaminoglycans and is to be distinguished from the cellular notochordal sheath (Gotz W, Osmer R, Herken R. Localization of extracellular matrix components in the embryonic human notochord and axial mesenchyme. *J Anat* 1995;186:111-121). An expansion of the notochord between the centra of adjacent vertebrae blends with perinotochordal tissue to form the nucleus pulposus.

<b>E4.0.4.3.0.0.1</b>	<b>CHONDROIDOGENESIS</b> {vide Histogenesis generalis supra}	<b>CHONDROIDOGENESIS</b> { see General histogenesis above}
<b>E5.0.1.3.0.0.1</b>	<b>PRIMORDIA OSSIUM</b>	<b>MODELS OF BONES</b>
<b>E5.0.1.3.0.0.2</b>	Primordium mesenchymale	Mesenchyme model
<b>E5.0.1.3.0.0.3</b>	Primordium chondroideum	Chondroid model
<b>E5.0.1.3.0.0.4</b>	Primordium cartilagineum	Cartilage model
<b>E5.0.1.3.0.0.5</b>	Primordium osseum	Bone model
<b>E5.0.1.3.0.0.6</b>	Refectio ossis	Bone remodelling
<b>E4.0.4.4.0.0.1</b>	<b>OSTEOGENESIS</b> {vide Histogenesis generalis supra}	<b>OSTEOGENESIS; OSTEOGENY</b> {see General histogenesis above}
<b>E4.0.4.4.1.0.1</b>	<b>Ossificatio membranacea; Ossificatio desmalis</b> {vide Histogenesis generalis supra}	<b>Membranous ossification; Intramembranous ossification</b> {see General histogenesis above}
<b>E4.0.4.4.2.0.1</b>	<b>Ossificatio chondralis</b> {vide Histogenesis generalis supra}	<b>Chondral ossification; Cartilaginous ossification</b> {see General histogenesis above}
<b>E4.0.4.4.5.0.19</b>	<b>Textus osseus reticulofibrosus</b> {vide Histogenesis generalis supra}	<b>Woven bone</b> {see General histogenesis above}
<b>E4.0.4.4.8.0.1</b>	<b>Os lamellare</b> {vide Histogenesis generalis supra}	<b>Lamellar bone</b> {see General histogenesis above}
<b>E5.0.2.0.0.0.1</b>	<b>Skeleton axiale</b>	<b>Axial skeleton</b>
<b>E5.0.2.1.0.0.1</b>	<b>CRANIUM</b>	<b>CRANIUM</b>
<b>E4.0.3.3.2.0.3</b>	Mesenchyma capitis	Head mesenchyme
<b>E5.0.2.1.0.0.2</b>	Crista neuralis	Neural crest
<b>E5.0.2.1.0.0.3</b>	Mesoderma paraxiale	Paraxial mesoderm
<b>E5.0.2.1.0.0.4</b>	Lamina praechordalis	Prechordal plate
<b>E5.0.2.1.0.0.5</b>	Somiti occipitales [1 ad 4]	Occipital somites [1-4]
<b>E5.0.2.1.1.0.1</b>	<b>Neurocranium</b>	<b>Neurocranium; Brain box</b>
<b>E5.0.2.1.1.0.2</b>	Calvaria <sup>117</sup>	Calvaria
<b>E5.0.2.1.1.0.3</b>	Fonticuli cranii	Fontanelles; Fonticuli
<b>E5.0.2.1.1.0.4</b>	Basis cranii	Cranial base; Basicranium
<b>E5.0.2.1.1.0.5</b>	Meninx primordialis	Primordial meninx
<b>E5.0.2.1.1.0.6</b>	Ectomeninx	Ectomeninx
<b>E5.0.2.1.1.0.7</b>	Endomeninx	Endomeninx
<b>E5.0.2.1.1.0.8</b>	Meninges	Meninges
<b>E5.0.2.1.2.0.1</b>	<b>Viscerocranium; Splanchnocranium</b>	<b>Viscerocranium; Splanchnocranium</b>
<b>E4.0.3.3.3.1.3</b>	Cartilago arcus pharyngei primi [1]	First pharyngeal arch cartilage [1] §Meckel§
<b>E5.0.2.1.2.0.2</b>	Mandibula	Mandible
<b>E4.0.3.3.3.2.3</b>	Cartilago arcus pharyngei secundi [2]	Second pharyngeal arch cartilage [2] §Reichert§
<b>E5.0.2.1.2.0.3</b>	Cartilagine arcuum pharyngeorum sequentium [3, 4 & 6] <sup>118</sup>	Succeeding pharyngeal arch cartilages [3, 4 & 6]
<b>E5.0.2.1.3.0.1</b>	<b>Desmocranium</b>	<b>Membranous cranium</b>
<b>E4.0.4.4.1.0.1</b>	Ossificatio membranacea; Ossificatio desmalis	Membranous ossification; Intramembranous ossification
<b>E5.0.2.1.3.1.1</b>	<b>Neurocranium membranaceum</b>	<b>Membranous neurocranium</b>

<sup>117</sup> E5.0.2.1.1.0.2 *Calvaria* The *calvaria*, which consists of the parietal bones and the squamous parts of the frontal, temporal and occipital bones, is formed as lamellar bone and replaces chondroid tissue, which persists only in the sutural areas.

<sup>118</sup> E5.0.2.1.2.0.3 *Cartilagine arcuum pharyngeorum sequentium* Only the first four pharyngeal arches, grooves and pouches are distinct structures. As the cartilages of the larynx develop caudal to the fourth arch, their precise origin is unknown. While the arch cartilage derivatives of the head are universally regarded as components of the viscerocranium, the arch cartilage derivatives of the neck may be regarded as postcranial axial skeleton.

<b>E4.0.3.3.1.0.3</b>	Os frontale	Frontal bone
<b>E5.0.2.1.3.1.2</b>	Os parietale	Parietal bone
<b>E4.0.3.3.1.0.4</b>	Pars squamosa ossis temporalis	Squamous part of temporal bone
<b>E5.0.2.1.3.1.3</b>	Squama occipitalis	Squamous part of occipital bone
<b>E4.0.3.3.1.0.5</b>	<b>Viscerocranium membranaceum</b>	<b>Membranous viscerocranium</b>
<b>E5.0.2.1.3.2.1</b>	Vomer	Vomer
<b>E5.0.2.1.3.2.2</b>	Os lacrimale	Lacrimal bone
<b>E5.0.2.1.3.2.3</b>	Os nasale	Nasal bone
<b>E5.0.2.1.3.2.4</b>	Os palatinum	Palatine bone
<b>E5.0.2.1.3.2.5</b>	Ala major ossis sphenoidalis	Greater wing of sphenoid
<b>E5.0.2.1.3.2.6</b>	Processus pterygoideus ossis sphenoidalis	Pterygoid process of sphenoid
<b>E5.0.2.1.3.2.7</b>	Os zygomaticum	Zygomatic bone
<b>E5.0.2.1.3.2.8</b>	Maxilla	Maxilla
<b>E5.0.2.1.2.0.2</b>	Mandibula	Mandible
<b>E5.0.2.1.4.0.1</b>	<b>Chondrocranium</b>	<b>Chondrocranium</b>
<b>E5.0.2.1.4.1.1</b>	<b>Chondrocranium initiale [St.17]</b>	<b>Early chondrocranium [St.17]</b>
<b>E5.0.2.1.4.1.2</b>	Cartilago praechordalis; Cartilago trabecularis	Prechordal cartilage; Trabecular cartilage
<b>E5.0.2.1.4.1.3</b>	Cartilago hypophysialis <sup>112</sup> ; Cartilago polaris	Hypophysial cartilage; Polar cartilage
<b>E5.0.2.1.4.1.4</b>	Capsula otica	Otic capsule
<b>E4.0.3.3.3.1.3</b>	Cartilago arcus pharyngei primi [1]	First pharyngeal arch cartilage [1] §Meckel§
<b>E4.0.3.3.3.2.3</b>	Cartilago arcus pharyngei secundi [2]	Second pharyngeal arch cartilage [2] §Reichert§
<b>E5.0.2.1.2.0.3</b>	Cartilagine arcuum pharyngeorum sequentium [3, 4 & 6] <sup>118</sup>	Succeeding pharyngeal arch cartilages [3, 4 & 6]
<b>E5.0.2.1.4.1.5</b>	Cartilago parachordalis	Parachordal cartilage
<b>E5.0.2.1.4.1.6</b>	Sclerotomi occipitales	Occipital sclerotomes
<b>E5.0.2.1.4.2.1</b>	<b>Chondrocranium serum [St.20+]</b>	<b>Later chondrocranium [St.20+]</b>
<b>E5.0.2.1.4.2.2</b>	Capsula septumque nasi	Nasal capsule and septum
<b>E5.0.2.1.4.1.2</b>	Cartilago praechordalis; Cartilago trabecularis	Prechordal cartilage; Trabecular cartilage
<b>E5.0.2.1.4.2.3</b>	Cartilago orbitosphenoidalis	Orbitosphenoidal cartilage
<b>E5.0.2.1.4.2.4</b>	Cartilago alisphenoidalis	Alisphenoidal cartilage
<b>E5.0.2.1.4.2.5</b>	Cartilago corporis sphenoidalis	Sphenoidal body cartilage
<b>E5.0.2.1.4.1.4</b>	Capsula otica	Otic capsule
<b>E5.0.2.1.4.2.6</b>	Cartilago mallei	Cartilage of malleus
<b>E5.0.2.1.4.2.7</b>	Cartilago incudis	Cartilage of incus
<b>E5.0.2.1.4.2.8</b>	Cartilago stapedis	Cartilage of stapes
<b>E5.0.2.1.4.2.9</b>	Cartilago mandibularis {vide etiam infra}	Mandibular cartilage {see also below} §Meckel§
<b>E5.0.2.1.4.2.10</b>	Cartilago ossis hyoidei	Cartilage of hyoid bone
<b>E4.0.3.5.0.2.3</b>	Cartilagine laryngeae	Laryngeal cartilages
<b>E5.0.2.1.4.2.11</b>	Cartilago occipitalis	Occipital cartilage
<b>E5.0.2.1.4.2.12</b>	Pars basioccipitalis cartilaginis occipitalis	Basi-occipital part of occipital cartilage
<b>E5.0.2.1.4.2.13</b>	Pars exoccipitalis cartilaginis occipitalis	Ex-occipital part of occipital cartilage
<b>E5.0.2.1.4.2.14</b>	Pars supraoccipitalis cartilaginis occipitalis	Supra-occipital part of occipital cartilage
<b>E5.0.2.1.4.3.1</b>	<b>Ossificatio endochondralis cranii</b>	<b>Endochondral ossification of cranium</b>
<b>E5.0.2.1.4.3.2</b>	Concha nasalis inferior	Inferior nasal concha
<b>E5.0.2.1.4.3.3</b>	Os ethmoidale	Ethmoid
<b>E5.0.2.1.4.3.4</b>	Corpus ossis sphenoidalis	Body of sphenoid
<b>E5.0.2.1.4.3.5</b>	Ala minor ossis sphenoidalis	Lesser wing of sphenoid
<b>E5.0.2.1.4.3.6</b>	Hamulus pterygoideus ossis sphenoidalis	Pterygoid hamulus of sphenoid
<b>E5.0.2.1.4.3.7</b>	Pars petrosa ossis temporalis	Petrous part of temporal bone
<b>E5.0.2.1.4.3.8</b>	Pars basilaris ossis occipitalis	Basilar part of occipital bone
<b>E5.0.2.1.4.3.9</b>	Pars lateralis ossis occipitalis	Lateral part of occipital bone
<b>E5.0.2.1.2.0.2</b>	<b>Mandibula</b>	<b>Mandible</b>
<b>E5.0.2.1.5.0.1</b>	Arcus pharyngeus primus [1]	First pharyngeal arch [1]
<b>E5.0.2.1.5.0.2</b>	Mesenchyma pharyngomericum <sup>119</sup>	Pharyngiomic mesenchyme

<sup>119</sup> E5.0.2.1.5.0.2 *Mesenchyma pharyngomericum* *Pharyngiomic mesenchyme* is thought to be derived from paraxial mesoderm, supplemented by ectomesenchyme (neural crest) and possibly also from epipharyngeal placodes.

<b>E4.0.3.3.1.3</b>	Cartilago arcus pharyngei primi [partim]	First pharyngeal arch cartilage [part] §Meckel§
<b>E5.0.2.1.5.1.1</b>	<b>Area symphysialis</b> <sup>112</sup>	<b>Symphysial area</b>
<b>E5.0.2.1.5.0.2</b>	Mesenchyma pharyngomericum [partim] <sup>119</sup>	Pharyngiomic mesenchyme [part]
<b>E4.0.3.3.1.3</b>	Cartilago arcus pharyngei primi [partim]	First pharyngeal arch cartilage [part] §Meckel§
<b>E5.0.2.1.5.1.2</b>	Chondriola symphysialis <sup>112</sup>	Symphysial chondriole § Islet of Meckel§
<b>E5.0.2.1.5.1.3</b>	Cartilago secundaria	Secondary cartilage
<b>E5.0.2.1.5.1.4</b>	Ossiculum mentale	Mental ossicle
<b>E4.0.4.4.5.0.19</b>	Textus osseus reticulofibrosus	Woven bone
<b>E4.0.4.3.0.0.3</b>	Textus chondroideus	Chondroid tissue
<b>E5.0.2.1.5.2.1</b>	<b>Corpus mandibulae</b>	<b>Body of mandible</b>
<b>E5.0.2.1.5.2.2</b>	Pars nonalveolaris	Nonalveolar part
<b>E4.0.4.4.5.0.19</b>	Textus osseus reticulofibrosus	Woven bone
<b>E5.0.2.1.5.2.3</b>	Columna cartilaginea	Cartilaginous column
<b>E4.0.4.4.8.0.1</b>	Os lamellare	Lamellar bone
<b>E4.0.4.4.8.0.5</b>	Osteonum primarium <sup>114</sup>	Primary osteon
<b>E4.0.4.4.8.0.6</b>	Osteonum secundarium <sup>114</sup>	Secondary osteon
<b>E5.0.2.1.5.2.4</b>	Pars alveolaris	Alveolar part
<b>E4.0.4.4.5.0.19</b>	Textus osseus reticulofibrosus	Woven bone
<b>E4.0.4.3.0.0.3</b>	Textus chondroideus	Chondroid tissue
<b>E5.0.2.1.5.3.1</b>	<b>Ramus mandibulae</b>	<b>Ramus of mandible</b>
<b>E5.0.2.1.5.3.2</b>	Processus coronoideus	Coronoid process
<b>E5.0.2.1.5.1.3</b>	Cartilago secundaria	Secondary cartilage
<b>E4.0.4.4.5.0.19</b>	Textus osseus reticulofibrosus	Woven bone
<b>E5.0.2.1.5.3.3</b>	Cartilago condylaris	Condylar cartilage
<b>E5.0.2.1.5.1.3</b>	Cartilago secundaria	Secondary cartilage
<b>E5.0.2.1.5.3.4</b>	Columna osteocartilaginea	Osteocartilaginous column
<b>E5.0.2.2.0.0.1</b>	<b>SKELETON AXIALE POST CRANIALE</b>	<b>POSTCRANIAL AXIAL SKELETON</b>
<b>E5.0.1.1.0.0.8</b>	<b>Notochorda; Notochorda propria; Chorda dorsalis</b>	<b>Notochord; Notochord proper</b>
<b>E5.0.2.2.1.0.1</b>	Epiblastus <sup>357</sup>	Epiblast; Primary ectoderm
<b>E5.0.1.1.0.0.2</b>	Nodus primitivus; Nodus gastrulationis <sup>377</sup>	Primitive node; Gastrulation node §Hensen§
<b>E5.0.1.1.0.0.4</b>	Processus notochordalis; Processus axialis; Chordomesoderma	Notochordal process; Axial process; Chordamesoderm
<b>E5.0.1.1.0.0.5</b>	Canalis notochordalis	Notochordal canal
<b>E5.0.1.1.0.0.7</b>	Lamina notochordalis	Notochordal plate
<b>E5.0.1.1.0.0.8</b>	Notochorda; Notochorda propria; Chorda dorsalis	Notochord; Notochord proper
<b>E5.0.1.1.0.0.10</b>	Lamina basalis notochordalis; Vagina acellularis notochordalis <sup>116</sup>	Notochordal basal lamina; Acellular notochordal sheath
<b>E5.0.2.2.1.0.2</b>	Nucleus pulposus disci intervertebralis	Nucleus pulposus of intervertebral disc
<b>E5.0.2.2.2.0.1</b>	<b>Sclerotomus</b>	<b>Sclerotome</b>
<b>E5.0.2.1.0.0.3</b>	Mesoderma paraxiale	Paraxial mesoderm
<b>E3.0.0.6.1.0.110</b>	Transformatio mesenchymoepithelialis <sup>77</sup>	Mesenchymo-epithelial transformation
<b>E3.0.0.6.1.0.104</b>	Segmentatio; Metamerismus	Segmentation; Metamerism
<b>E3.0.0.6.1.0.101</b>	Resegmentatio	Resegmentation
<b>E5.0.2.2.2.0.2</b>	Somitomera <sup>385</sup>	Somitomeres
<b>E5.0.2.2.2.0.3</b>	Somitus	Somite
<b>E5.0.2.2.2.0.4</b>	Somitocoeloma	Somitocoelae <sup>▲</sup>
<b>E5.0.2.2.2.0.5</b>	Cellulae somitocoelomae	Somitocoelae cells <sup>▲</sup>
<b>E5.0.2.2.2.0.6</b>	Juncturae columnae vertebralis, disci intervertebrales et pars proximalis costae [partim]	Vertebral joints, intervertebral discs and proximal ribs [in part]; Arthrotome
<b>E3.0.0.6.1.0.109</b>	Transformatio epitheliomesenchymalis <sup>76</sup>	Epitheliomesenchymal transformation
<b>E5.0.2.2.2.0.1</b>	Sclerotomus	Sclerotome
<b>E5.0.2.2.2.0.7</b>	Pars centralis sclerotomi	Central sclerotome
<b>E5.0.2.2.2.0.8</b>	Pediculus arcus vertebrae et pars proximalis costae [partim]	Pedicle of vertebral arch and proximal rib [in part]; Syndetome
<b>E5.0.2.2.2.0.9</b>	Pars ventralis sclerotomi	Ventral sclerotome
<b>E5.0.2.2.2.0.10</b>	Corpus vertebrae et discus intervertebralis	Vertebral body and intervertebral disc

<b>E5.0.2.2.0.11</b>	Pars dorsalis sclerotomi	Dorsal sclerotome
<b>E5.0.2.2.0.12</b>	Lamina arcus vertebrae et processus spinosus	Lamina and spinous process
<b>E5.0.2.2.0.13</b>	Pars lateralis sclerotomi	Lateral sclerotome
<b>E5.0.2.2.0.14</b>	Endotheliocyti, pars distalis costae et tendines	Endothelial cells, distal rib and tendons
<b>E5.0.2.2.0.15</b>	Pars medialis sclerotomi	Medial sclerotome
<b>E5.0.2.2.0.16</b>	Meninges spinalis, vasa sanguinea	Spinal meninges and blood vessels; Meningotome
<b>E5.0.2.2.0.17</b>	Pars rostralis sclerotomi; Pars laxa sclerotomi	Rostral part of sclerotome; Loose part of sclerotome
<b>E5.0.2.2.0.18</b>	Corpus vertebrae, pars minor arcus vertebrae, perineurium, endoneurium et pars minor distalis costae	Vertebral body, small part of vertebral arch, perineurium, endoneurium and small part of distal rib
<b>E5.0.2.2.0.19</b>	Angulus rostromedialis partis rostralis sclerotomi	Rostromedial corner of rostral part of sclerotome
<b>E5.0.2.2.0.20</b>	Tendines musculorum dorsi propriorum	Tendons of muscles of back proper; Syndetome
<b>E5.0.2.2.0.21</b>	Fissura intervertebralis	Intervertebral fissure §von Ebner§
<b>E5.0.2.2.0.22</b>	Pars caudalis sclerotomi; Pars densa sclerotomi	Caudal part of sclerotome; Dense part of sclerotome
<b>E5.0.2.2.0.18</b>	Corpus vertebrae, pars minora arcus vertebrae, perineurium, endoneurium et pars majora, distalis costae	Vertebral body, small part of vertebral arch, perineurium, endoneurium and major part of distal rib
<b>E5.0.2.2.0.23</b>	Angulus caudolateralis partis caudalis sclerotomi	Caudolateral corner of caudal part of sclerotome
<b>E5.0.2.2.0.20</b>	Tendines musculorum dorsi propriorum	Tendons of muscles of back proper; Syndetome
<b>E5.0.1.1.0.0.11</b>	Vagina notochordalis; Vagina cellularis notochordalis	Notochordal sheath; Perichordal sheath; Cellular notochordal sheath
<b>E5.0.2.2.0.24</b>	Pars rostralis vaginae notochordalis; Pars laxa vaginae notochordalis	Rostral part of notochordal sheath; Loose part of notochordal sheath
<b>E5.0.2.2.0.25</b>	Blastema centri vertebrae	Blastema of centrum of vertebra
<b>E5.0.2.2.0.26</b>	Pars caudalis vaginae notochordalis; Pars densa vaginae notochordalis	Caudal part of notochordal sheath; Dense part of notochordal sheath
<b>E5.0.2.2.0.27</b>	Discus intervertebralis <sup>120</sup>	Intervertebral disc
<b>E5.0.2.2.0.28</b>	Anulus fibrosus disci intervertebralis	Anulus fibrosus of intervertebral disc
<b>E5.0.2.1.0.0.3</b>	Mesoderma paraxiale	Paraxial mesoderm
<b>E3.0.0.6.1.0.110</b>	Transformatio mesenchymoepithelialis <sup>77</sup>	Mesenchymo-epithelial transformation
<b>E3.0.0.6.1.0.104</b>	Segmentatio; Metamerismus	Segmentation; Metamerism
<b>E3.0.0.6.1.0.101</b>	Resegmentatio	Resegmentation
<b>E5.0.2.2.0.2</b>	Somitomera <sup>385</sup>	Somitomeres
<b>E5.0.2.2.0.3</b>	Somitus	Somite
<b>E5.0.2.2.0.4</b>	Somitocoeloma	Somitocoele <sup>▲</sup>
<b>E5.0.1.1.0.0.11</b>	Vagina notochordalis; Vagina cellularis notochordalis	Notochordal sheath; Perichordal sheath; Cellular notochordal sheath
<b>E5.0.2.2.0.24</b>	Pars rostralis vaginae notochordalis; Pars laxa vaginae notochordalis	Rostral part of notochordal sheath; Loose part of notochordal sheath
<b>E5.0.2.2.0.25</b>	Blastema centri vertebrae	Blastema of centrum of vertebra
<b>E5.0.2.2.0.26</b>	Pars caudalis vaginae notochordalis; Pars densa vaginae notochordalis	Caudal part of notochordal sheath; Dense part of notochordal sheath
<b>E5.0.2.2.0.27</b>	Discus intervertebralis <sup>120</sup>	Intervertebral disc
<b>E5.0.2.2.0.28</b>	Anulus fibrosus disci intervertebralis	Anulus fibrosus of intervertebral disc
<b>E5.0.2.2.3.0.1</b>	<b>Vertebra</b>	<b>Vertebra</b>
<b>E5.0.2.2.3.0.2</b>	Blastema vertebrae	Blastema of vertebra
<b>E5.0.2.2.3.0.3</b>	Blastema arcus neuralis	Blastema of neural arch
<b>E5.0.2.2.0.25</b>	Blastema centri vertebrae	Blastema of centrum of vertebra
<b>E5.0.2.2.3.0.4</b>	Vertebra cartilaginea	Cartilaginous vertebra
<b>E5.0.2.2.3.0.5</b>	Arcus neuralis cartilagineus	Cartilaginous neural arch
<b>E5.0.2.2.3.0.6</b>	Centrum cartilagineum	Cartilaginous centrum

<sup>120</sup> E5.0.2.2.0.27 *Discus intervertebralis* The whole of an anulus fibrosus, at least, is derived from a caudal dense part of the notochordal sheath.

<b>E5.0.2.2.3.0.7</b>	Vertebra ossea	Bony vertebra
<b>E5.0.2.2.3.0.8</b>	Arcus neuralis osseus	Bony neural arch
<b>E5.0.2.2.3.0.9</b>	Processus spinosus vertebrae	Spinous process of vertebra
<b>E5.0.2.2.3.0.10</b>	Arcus vertebrae	Vertebral arch
<b>E5.0.2.2.3.0.11</b>	Processus transversus vertebrae	Transverse process of vertebra
<b>E5.0.2.2.3.0.12</b>	Processus articularis superior vertebrae; Zygapophysis superior	Superior articular process of vertebra
<b>E5.0.2.2.3.0.13</b>	Processus articularis inferior vertebrae; Zygapophysis inferior	Inferior articular process of vertebra
<b>E5.0.2.2.3.0.14</b>	Pars corporis vertebrae ex arcu derivata; Pars minor corporis vertebrae	Arch-derived part of vertebral body; Lesser part of vertebral body
<b>E5.0.2.2.3.0.15</b>	Synchondrosis neurocentralis	Neurocentral synchondrosis
<b>E5.0.2.2.3.0.16</b>	Centrum osseum	Bony centrum
<b>E5.0.2.2.3.0.17</b>	Pars corporis vertebrae ex centro derivata; Pars major corporis vertebrae	Centrum-derived part of vertebral body; Greater part of vertebral body
<b>E5.0.2.2.3.0.18</b>	Epiphysis anularis vertebrae	Anular epiphysis of vertebra
<b>E5.0.2.2.4.0.1</b>	<b>Costa</b>	<b>Rib</b>
<b>E5.0.2.2.4.0.2</b>	Blastema partis distalis costae	Blastema of distal part of rib
<b>E5.0.2.2.4.0.3</b>	Blastema partis proximalis costae	Blastema of proximal part of rib
<b>E5.0.2.2.4.0.4</b>	Costa cartilaginea	Cartilaginous rib
<b>E5.0.2.2.4.0.5</b>	Costa ossea	Bony rib
<b>E5.0.2.2.5.0.1</b>	<b>Sternum</b>	<b>Sternum</b>
<b>E4.0.4.1.0.0.3</b>	Mesenchyma somatopleurale <sup>206</sup>	Somatopleuric mesenchyme
<b>E5.0.2.2.5.0.2</b>	Blastemata bilateralia sterni	Bilateral blastemata of sternum; Sternal bands
<b>E5.0.2.2.5.0.3</b>	Blastema interclaviculare	Interclavicular blastema
<b>E5.0.2.2.5.0.4</b>	Cartilago sternalis bilateralis	Bilateral sternal cartilage
<b>E5.0.2.2.5.0.5</b>	Conjunctio cartilaginum sternalium bilateralium	Fusion of bilateral sternal cartilages
<b>E5.0.2.2.5.0.6</b>	Centra ossificationis mediana	Median ossification centres <sup>▲</sup>
<b>E5.0.2.2.5.0.7</b>	Sternebra	Sternebra
<b>E5.0.2.2.5.0.8</b>	Processus xiphoideus	Xiphoid process; Xiphisternum
<b>E5.0.3.0.0.0.1</b>	<b>Membra et skeleton appendiculare</b>	<b>Limbs and appendicular skeleton</b>
<b>E5.0.3.0.0.0.2</b>	Mesoderma laminae lateralis	Lateral plate mesoderm
<b>E4.0.4.1.0.0.3</b>	Mesenchyma somatopleurale <sup>206</sup>	Somatopleuric mesenchyme
<b>E5.0.3.0.0.0.3</b>	Ectoderma embryonicum <sup>121</sup>	Embryonic ectoderm
<b>E5.0.3.0.0.0.4</b>	Anulus ectodermalis primordialis	Primordial ectodermal ring
<b>E5.0.3.0.0.0.5</b>	Gemmae membrorum	Limb buds
<b>E5.0.3.0.0.0.6</b>	Gemma membri superioris	Upper limb bud; Rostral limb bud
<b>E5.0.3.0.0.0.7</b>	Gemma membri inferioris	Lower limb bud; Caudal limb bud
<b>E5.0.3.0.0.1.1</b>	<b>Axis craniocaudalis</b>	<b>Craniocaudal axis</b>
<b>E5.0.3.0.0.1.2</b>	Margo praeaxialis	Pre-axial border
<b>E5.0.3.0.0.1.3</b>	Zona apoptotica anterior <sup>122</sup>	Anterior apoptotic zone
<b>E5.0.3.0.0.1.4</b>	Margo postaxialis	Postaxial border
<b>E5.0.3.0.0.1.5</b>	Zona activitatis polarisantis	Zone of polarizing activity [ZPA]
<b>E5.0.3.0.0.1.6</b>	Zona apoptotica posterior <sup>122</sup>	Posterior apoptotic zone
<b>E5.0.3.0.0.2.1</b>	<b>Axis dorsoventralis</b>	<b>Dorsoventral axis</b>
<b>E5.0.3.0.0.3.1</b>	<b>Axis proximodistalis</b>	<b>Proximodistal axis</b>
<b>E5.0.3.0.0.3.2</b>	A. axialis	Axial artery
<b>E5.0.3.0.0.3.3</b>	Plexus capillaris terminalis	Terminal capillary plexus
<b>E5.0.3.0.0.3.4</b>	Crista ectodermalis apicalis	Apical ectodermal ridge [AER]

<sup>121</sup> E5.0.3.0.0.0.3 *Ectoderma embryonicum* The term describes the dorsal germ layer of the somite embryo, which will form the epithelium of the skin and nervous system and their derivatives. Experimental studies suggest that, after obvious primitive streak activity ceases, epiblastic cells continue to ingress through the most caudal part of the primitive streak until the early somite stage: they form axial dense mesenchyme and thence become the endoderm and mesoderm of more caudal parts in secondary body development [see footnote<sup>59</sup>]. The cells remaining on the dorsal surface of the embryo thereafter constitute the embryonic ectoderm. The qualifying adjective embryonic is necessary as long as terms such as primary ectoderm (see footnote<sup>357</sup>) remain in use.

<sup>122</sup> E5.0.3.0.0.1.3/ E5.0.3.0.0.1.6/ E5.0.3.0.0.3.13 *Zona apoptotica anterior/Zona apoptotica posterior/Zona apoptotica interdigitalis* Programmed cell death in the development of the limb bud is regulated by local growth factors. After apoptotic cell death, macrophages clear and remove cell remnants without inducing any inflammatory reaction. With the recognition that programmed cell death in the embryo is not by necrosis, a pathological process evoking inflammation, the terms *anterior*, *posterior* and *interdigital necrotic zones* are not recommended



<b>E5.0.3.0.0.3.5</b>	Mesenchyma apicale	Apical mesenchyme
<b>E5.0.3.0.0.3.6</b>	Zona progressus <sup>123</sup>	Progress zone
<b>E5.0.3.0.0.3.7</b>	V. marginalis	Marginal vein
<b>E5.0.3.0.0.3.8</b>	V. praeaxialis; Rete venosum praeaxiale	Pre-axial vein; Pre-axial venous plexus
<b>E5.0.3.0.0.3.9</b>	V. postaxialis; Rete venosum postaxiale	Postaxial vein; Postaxial venous plexus
<b>E5.0.3.0.0.3.10</b>	Lamina manus/pedis	Hand/Foot plate
<b>E5.0.3.0.0.3.11</b>	Radii manus/pedis	Hand/Foot rays
<b>E5.0.3.0.0.3.12</b>	Crenatio interdigitalis	Interdigital crenation
<b>E5.0.3.0.0.3.13</b>	Zona apoptotica interdigitalis <sup>122</sup>	Interdigital apoptotic zone
<b>E3.0.0.6.1.0.64</b>	Apoptosis	Apoptosis
<b>E5.0.3.0.0.3.14</b>	Separatio digitorum	Separation of digits
<b>E5.0.3.0.0.4.1</b>	<b>Axis radialis</b>	<b>Radial axis</b>
<b>E5.0.3.0.0.4.2</b>	Zona centralis; Zona chondrogenica	Central zone; Chondrogenic zone
<b>E5.0.3.0.0.4.3</b>	Zona peripherica; Zona antichondrogenica	Peripheral zone; Antichondrogenic zone
<b>E5.0.3.0.0.4.4</b>	Skeleton blastemale	Blastemal skeleton
<b>E5.0.3.0.0.4.5</b>	Centrum chondrificationis	Chondrification centre <sup>▲</sup>
<b>E5.0.3.0.0.4.6</b>	Skeleton cartilagineum	Cartilaginous skeleton
<b>E4.0.4.4.0.0.6</b>	Centrum ossificationis	Ossification centre <sup>▲</sup>
<b>E5.0.3.0.0.4.7</b>	Epiphysis	Epiphysis
<b>E4.0.4.4.5.0.2</b>	Cartilago epiphysialis <sup>112</sup> {vide Terminologia Histologica}	Epiphysial cartilage {see Terminologia Histologica}
<b>E5.0.3.0.0.4.8</b>	Metaphysis	Metaphysis
<b>E5.0.3.0.0.4.9</b>	Diaphysis	Diaphysis
	{vide etiam Musculi paginam <b>XX</b> }	{see also under Muscles page <b>XX</b> <b>E5.2.0.0.0.0.1</b> }
<b>E5.1.0.0.0.0.1</b>	<b>Juncturae; Systema articulare</b>	<b>Joints; Articular system</b>
<b>E4.0.4.4.0.0.2</b>	Mesenchyma blastemale	Blastemal mesenchyme
<b>E5.1.0.0.1.0.1</b>	<b>Sutura</b>	<b>Suture</b>
<b>E5.1.0.0.1.0.2</b>	Stratum fibrosum suturae	Sutural fibrous layer
<b>E5.1.0.0.1.0.3</b>	Stratum osteogenicum suturae	Sutural osteogenic layer
<b>E5.1.0.0.1.0.4</b>	Zona intermedia suturae	Sutural interzone
<b>E5.1.0.0.1.0.5</b>	Praecartilago	Precartilage
<b>E5.1.0.0.1.0.6</b>	Cartilago	Cartilage
<b>E5.1.0.0.2.0.1</b>	<b>Junctura ossea; Synostosis</b>	<b>Bony union</b>
<b>E5.1.0.0.3.0.1</b>	<b>Synchondrosis</b>	<b>Primary cartilaginous joint</b>
<b>E5.1.0.0.3.0.2</b>	Centrum secundarium ossificationis; Centrum epiphysiale	Secondary ossification centre; Epiphysial centre <sup>▲</sup>
<b>E4.0.4.4.5.0.2</b>	Cartilago epiphysialis <sup>112</sup> {vide Terminologia Histologica}	Epiphysial cartilage
<b>E5.1.0.0.3.0.3</b>	Centrum primum ossificationis; Centrum diaphysiale	Primary ossification centre; Diaphysial centre <sup>▲</sup>
<b>E5.1.0.0.4.0.1</b>	<b>Symphysis</b>	<b>Secondary cartilaginous joint</b>
<b>E5.1.0.0.4.0.2</b>	Stratum fibrosum symphysis	Symphysial fibrous layer
<b>E5.1.0.0.4.0.3</b>	Stratum chondrogenicum symphysis	Symphysial chondrogenic layer
<b>E5.1.0.0.4.0.4</b>	Zona intermedia symphysis	Symphysial interzone
<b>E5.1.0.0.5.0.1</b>	<b>Junctura synovialis; Articulatio; Diarthrosis</b>	<b>Synovial joint</b>
<b>E5.1.0.0.5.0.2</b>	Amentum articulationis <sup>124</sup>	Articulation loop
<b>E5.1.0.0.5.0.3</b>	Zona defluens <sup>125</sup>	Gliding zone

<sup>123</sup> E5.0.3.0.0.3.6 *Zona progressus* The *progress zone* model for proximodistal patterning postulates that cells acquire positional information according to the length of time they spend in the subectodermal *apical mesenchyme*; the alternative early specification model postulates that segmental progenitors are already localized along the proximodistal axis; however, neither model fits the large amount of molecular expression data generated in the last decade (Tabin C, Wolpert L. Rethinking the proximodistal axis of the vertebrate limb in the molecular era. *Genes Dev* 2007;21:1433-42).

<sup>124</sup> E5.1.0.0.5.0.2 *Amentum articulationis* An *articulation loop* is a tissue connection between the anlagen of antagonistic muscles. Joint clefts form in a gliding zone (see next footnote) in the connection.

<sup>125</sup> E5.1.0.0.5.0.3 *Zona defluens* A *gliding zone* where adjacent tissue layers undergo relative movement along their substrata thereby giving origin to tissue discontinuities such as joint cavities and synovial bursae and sheaths.

<b>E5.0.3.0.0.4.4</b>	Skeleton blastemale	Blastemal skeleton
<b>E5.0.3.0.0.4.5</b>	Centrum chondrificationis	Chondrification centre <sup>▲</sup>
<b>E5.0.3.0.0.4.6</b>	Skeleton cartilagineum	Cartilaginous skeleton
<b>E5.1.0.0.5.0.4</b>	Zona intermedia mesenchymalis non differentiata inter elementa cartilaginis	Undifferentiated mesenchymal zone between elements of cartilage
<b>E5.1.0.0.5.0.5</b>	Stratum zonae densum proximale	Proximal dense layer of zone
<b>E5.1.0.0.5.0.6</b>	Cartilago faciei articularis proximalis	Cartilage of proximal articular surface
<b>E5.1.0.0.5.0.7</b>	Stratum zonae tenue intermedium	Intermediate loose layer of zone
<b>E3.0.0.6.1.0.6</b>	Cavitatio	Cavitation
<b>E5.1.0.0.5.0.8</b>	Cavitas articularis	Articular cavity
<b>E5.1.0.0.5.0.9</b>	Stratum zonae densum distale	Distal dense layer of zona
<b>E5.1.0.0.5.0.10</b>	Cartilago faciei articularis distalis	Cartilage of distal articular surface
<b>E5.1.0.0.5.0.11</b>	Lig. intracapsularium	Intracapsular ligament
<b>E5.1.0.0.5.0.12</b>	Discus articularis	Articular disc
<b>E5.1.0.0.5.0.13</b>	Meniscus articularis	Meniscus
<b>E5.1.0.0.5.0.14</b>	Mesenchyma circum zonam intermediam	Mesenchyme surrounding interzone
<b>E5.1.0.0.5.0.15</b>	Capsula articularis	Joint capsule; Articular capsule
<b>E5.1.0.0.5.0.16</b>	Membrana synovialis	Synovial membrane
<b>E5.1.0.0.5.0.17</b>	Lig. capsulare	Capsular ligament
<b>E5.1.0.0.5.0.18</b>	Lig. extracapsulare	Extracapsular ligament
<b>E5.1.1.0.0.0.1</b>	<b>Anomaliae skeletales</b>	<b>Skeletal anomalies</b>
<b>E5.1.1.0.1.0.1</b>	<b>Anomaliae generales ossis</b>	<b>General disorders of bone</b>
<b>E5.1.1.0.1.0.2</b>	Dysostoses	Dysostoses
<b>E5.1.1.0.1.0.3</b>	Achondrogenesis	Achondrogenesis
<b>E5.1.1.0.1.0.4</b>	Achondroplasia; Chondrodysplasia	Achondroplasia; Chondrodysplasia
<b>E5.1.1.0.1.0.5</b>	Deviatio radialis manus	Radial deviation of hand §Madelung§
<b>E5.1.1.0.1.0.6</b>	Dyschondroosteosis	Dyschondro-osteosis
<b>E5.1.1.0.1.0.7</b>	Dysostosis epiphysialis <sup>112</sup>	Dysostosis epiphysaria §Ribbing-Müller- Fairbank§
<b>E5.1.1.0.1.0.8</b>	Dysostosis epiphysialis hemimelica <sup>112</sup>	Dysostosis epiphysaria hemimelica
<b>E5.1.1.0.1.0.9</b>	Dysostosis spondyloepiphysialis congenita <sup>112</sup>	Dysostosis spondylo-epiphysaria congenita
<b>E5.1.1.0.1.0.10</b>	Dysostosis spondyloepiphysialis tarda <sup>112</sup>	Dysostosis spondylo-epiphysaria tarda
<b>E5.1.1.0.1.0.11</b>	Dysostosis metaphysialis <sup>112</sup>	Dysostosis metaphysaria §Schmid/Murk Jansen§
<b>E5.1.1.0.1.0.12</b>	Dysostosis spondylometaphysialis <sup>112</sup>	Dysostosis spondylometaphysaria §Kozlowski/Schmidt§
<b>E5.1.1.0.1.0.13</b>	Dysplasia chondroectodermalis	Chondroectodermal dysplasia §Ellis-Van Crefeld§
<b>E5.1.1.0.1.0.14</b>	Dysplasia craniometaphysialis <sup>112</sup>	Dysplasia craniometaphysaria §Pyle§
<b>E5.1.1.0.1.0.15</b>	Dystrophia suffocans thoracis	Suffocating thorax dystrophia
<b>E5.1.1.0.1.0.16</b>	Hypophosphatasia	Hypophosphatasia
<b>E5.1.1.0.1.0.17</b>	Chondrodysplasia metaphysialis recessiva <sup>112</sup>	Cartilage-hair hypoplasia §McKusick§
<b>E5.1.1.0.1.0.18</b>	Dysplasiae fibrosae	Fibrous dysplasias
<b>E5.1.1.0.1.0.19</b>	Dysplasia fibrosa monostotica	Monostotic fibrous dysplasia
<b>E5.1.1.0.1.0.20</b>	Dysplasia fibrosa polyostotica	Polyostotic fibrous dysplasia
<b>E5.1.1.0.1.0.21</b>	Dysplasia fibrosa diffusa	Generalized fibrous dysplasia
<b>E5.1.1.0.1.0.22</b>	Leontiasis ossea	Leontiasis ossea
<b>E5.1.1.0.1.0.23</b>	Osteochondrodysplasia	Osteochondrodysplasia
<b>E5.1.1.0.1.0.24</b>	Osteochondrodystrophia	Osteochondrodystrophy
<b>E5.1.1.0.1.0.25</b>	Osteitis deformans	Osteitis deformans §Paget§
<b>E5.1.1.0.1.0.26</b>	Cystis ossea solitaria	Solitary bone cyst
<b>E5.1.1.0.1.0.27</b>	Exostoses	Exostoses
<b>E5.1.1.0.1.0.28</b>	Exostoses cartilagineae multiplices	Multiple cartilaginous exostoses
<b>E5.1.1.0.1.0.29</b>	Enchondromatosis diffusa	Generalized enchondromatosis
<b>E5.1.1.0.1.0.30</b>	Enchondromatosis unilateralis; Dyschondroplasia	Unilateral enchondromatosis; Dyschondroplasia §Ollier§
<b>E5.1.1.0.1.0.31</b>	Chondrodystrophia calcificans	Chondrodystrophia calcificans §Conradi-Hünemann§
<b>E5.1.1.0.1.0.32</b>	Nanismus diastrophicus	Diastrophic dwarfism
<b>E5.1.1.0.1.0.33</b>	Nanismus letalis	Lethal dwarfism
<b>E5.1.1.0.1.0.34</b>	Nanismus metatropicus	Metatropic dwarfism
<b>E5.1.1.0.1.0.35</b>	Pseudoachondroplasia	Pseudo-achondroplasia

<b>E5.1.1.0.1.0.36</b>	Hyperostosis	Hyperostosis
<b>E5.1.1.0.1.0.37</b>	Hyperplasiae	Hyperplasias
<b>E5.1.1.0.1.0.38</b>	Dysplasia diaphysalia progressiva <sup>112</sup>	Progressive diaphysial dysplasia §Camurati-Engelmann§
<b>E5.1.1.0.1.0.39</b>	Dystrophia periosteae hyperplastica familiaris	Dystrophia periostealis hyperplastica familiaris §Dzierzynsky§
<b>E5.1.1.0.1.0.40</b>	Hyperostosis congenita diffusa	Congenital generalized hyperostosis §Koszewski§
<b>E5.1.1.0.1.0.41</b>	Hyperostosis corticalis diffusa	Generalized cortical hyperostosis §Van Buchem§
<b>E5.1.1.0.1.0.42</b>	Hyperostosis corticalis infantilis	Infantile generalized cortical hyperostosis §Caffey-Silverman§
<b>E5.1.1.0.1.0.43</b>	Hyperostosis diffusa cum pachydermia	Generalized hyperostosis with pachydermia §Uehlinger§
<b>E5.1.1.0.1.0.44</b>	Melorheostosis	Melorheostosis
<b>E5.1.1.0.1.0.45</b>	Osteopetrosis	Marble bone disease §Albers-Schönberg§
<b>E5.1.1.0.1.0.46</b>	Osteopoikilosis	Osteopoikilosis
<b>E5.1.1.0.1.0.47</b>	Pyknodysostosis	Pyknodysostosis
<b>E5.1.1.0.1.0.48</b>	Sclerosis diaphysialis hereditaria multiplex	Multiple hereditary diaphysial sclerosis §Ribbing§
<b>E5.1.1.0.1.0.49</b>	Sclerosteosis	Sclerosteosis
<b>E5.1.1.0.1.0.50</b>	Toxopachyostosis	Toxopachyostosis §Weismann-Netter§
<b>E5.1.1.0.1.0.51</b>	Hypoplasiae	Hypoplasias
<b>E5.1.1.0.1.0.52</b>	Acroosteolysis	Acro-osteolysis
<b>E5.1.1.0.1.0.53</b>	Dysostosis cleidocranialis	Cleidocranial dysostosis
<b>E5.1.1.0.1.0.54</b>	Dystrophia dermochondrocornealis	Dermochondrocorneal dystrophy §François§
<b>E5.1.1.0.1.0.55</b>	Osteofibrosis monoosteotica	Osteofibrosis mono-osteotica §Allbright-McCune§
<b>E5.1.1.0.1.0.56</b>	Osteofibrosis polyosteotica	Osteofibrosis polyosteotica §Jaffé- Lichenstein§
<b>E5.1.1.0.1.0.57</b>	Osteogenesis imperfecta	Osteogenesis imperfecta §Vrolik/Lobstein§
<b>E5.1.1.0.1.0.58</b>	Osteoporosis idiopathica	Idiopathic osteoporosis
<b>E5.1.1.0.1.0.59</b>	Macroplasia	Macroplasia
<b>E5.1.1.0.1.0.60</b>	Microplasia	Microplasia
<b>E5.1.1.0.1.0.61</b>	Mucopolysaccharidoses	Mucopolysaccharidoses
<b>E5.1.1.0.1.0.62</b>	Dysostosis multiplex typi I	Type I; Dysostosis multiplex §von Pfaundler-Hurler§
<b>E5.1.1.0.1.0.63</b>	Dysostosis multiplex typi II	Type II; Dysostosis multiplex §Hunter§
<b>E5.1.1.0.1.0.64</b>	Typus III; Oligophrenia polydystrophica	Type III Polydystrophic oligophrenia §Sanfilippo§
<b>E5.1.1.0.1.0.65</b>	Typus IV; Dysplasia spondyloepiphysialis intermedia	Type IV; Intermediate spondyloepiphysial dysplasia §Morquio-Brailsford§
<b>E5.1.1.0.1.0.66</b>	Typus V	Type V §Ulrich-Scheie§
<b>E5.1.1.0.1.0.67</b>	Typus VI; Nanismus polydystrophicus	Type VI; Polydystrophic dwarfism §Maroteaux§
<b>E5.1.1.0.1.0.68</b>	Typus VII; Nanismus pseudopolydystrophicus	Type VII; Pseudopolydystrophic dwarfism §Maroteaux-Lamy§
<b>E5.1.1.0.1.0.69</b>	Synostosis	Synostosis
<b>E5.1.1.0.2.0.1</b>	<b>Anomaliae cranii<sup>126</sup></b>	<b>Cranial anomalies</b>
<b>E5.1.1.0.2.1.1</b>	<b>Dysinductio encephalica</b>	<b>Encephalic dysinduction</b>
<b>E5.1.1.0.2.1.2</b>	Acephalia	Acephaly
<b>E5.1.1.0.2.1.3</b>	Acrania	Acrania
<b>E5.1.1.0.2.1.4</b>	Dicephalia	Dicephaly
<b>E5.1.1.0.2.1.5</b>	Dyscephalia	Dyscephaly
<b>E5.1.1.0.2.1.6</b>	Macrocephalia	Macrocephaly
<b>E5.1.1.0.2.1.7</b>	Microcephalia	Microcephaly

<sup>126</sup> E5.1.1.0.2.0.1 *Anomaliae cranii* Only cranial defects without underlying neural tube defects are listed here. Dysraphias are dealt with substantively under Nervous System page XX E5.13.0.0.0.0.1. As elsewhere, convention has the suffixes -ia in Latin and -y in English indicating the condition; the suffix -us, in either language refers to an individual with that condition.

<b>E5.1.1.0.2.2.1</b>	<b>Dysinductio olfactoria</b>	<b>Olfactory dysinduction</b>
<b>E5.1.1.0.2.2.2</b>	Ethmocephalia	Ethmocephaly
<b>E5.1.1.0.2.2.3</b>	Cebocephalia	Cebocephaly
<b>E5.1.1.0.2.3.1</b>	<b>Dysinductio optica</b>	<b>Optic dysinduction</b>
<b>E5.1.1.0.2.3.2</b>	Anorbitismus	Anorbitism; Absence of orbit
<b>E5.1.1.0.2.3.3</b>	Hypoorbitismus	Hypo-orbitism; Hypoplasia of orbit; Micro-orbitism
<b>E5.1.1.0.2.4.1</b>	<b>Dysinductio optoolfactoria</b>	<b>Opto-olfactory dysinduction</b>
<b>E5.1.1.0.2.4.2</b>	Cyclopia	Cyclopia
<b>E5.1.1.0.2.5.1</b>	<b>Dysinductio otica</b>	<b>Otic dysinduction</b>
<b>E5.1.1.0.2.5.2</b>	Anotia	Anotia
<b>E5.1.1.0.2.5.3</b>	Microtia	Microtia
<b>E5.1.1.0.2.6.1</b>	<b>Anomaliae crescentiae</b>	<b>Growth anomalies</b>
<b>E5.1.1.0.2.6.2</b>	Canalis craniopharyngeus persistens	Persistent craniopharyngeal canal
<b>E5.1.1.0.2.6.3</b>	Dysplasiae	Dysplasias
<b>E5.1.1.0.2.6.4</b>	Craniosynostosis	Craniosynostosis
<b>E5.1.1.0.2.6.5</b>	Bathrocephalia	Bathrocephalia; Step head
<b>E5.1.1.0.2.6.6</b>	Brachycephalia	Brachycephaly
<b>E5.1.1.0.2.6.7</b>	Dolichocephalia	Dolichocephaly
<b>E5.1.1.0.2.6.8</b>	Scaphocephalia	Scaphocephaly; Boat-shaped head
<b>E5.1.1.0.2.6.9</b>	Pachycephalia	Pachycephaly
<b>E5.1.1.0.2.6.10</b>	Plagiocephalia	Plagiocephaly
<b>E5.1.1.0.2.6.11</b>	Plagiocephalia anterior	Anterior plagiocephaly
<b>E5.1.1.0.2.6.12</b>	Plagiocephalia posterior	Posterior plagiocephaly
<b>E5.1.1.0.2.6.13</b>	Trifoliocephalia	Clover-leaf cranium; Kleeblattschädel
<b>E5.1.1.0.2.6.14</b>	Trigonocephalia	Trigonocephaly
<b>E5.1.1.0.2.6.15</b>	Turriccephalia	Turriccephaly; Steeple head
<b>E5.1.1.0.2.6.16</b>	Oxycephalia; Acrocephalia	Oxycephaly; Acrocephaly
<b>E5.1.1.0.2.6.17</b>	Fissurae	Clefts
<b>E5.1.1.0.2.6.18</b>	Schistocephalia; Cephaloschisis	Schistocephaly; Cephaloschisis
<b>E5.1.1.0.2.6.19</b>	Cranium bifidum occultum	Simple sagittal cranial defect
<b>E5.1.1.0.2.6.20</b>	Os bifidum occultum frontale; Sutura metopica falsa	Simple frontal sagittal defect; False metopic suture
<b>E5.1.1.0.2.6.21</b>	Os occipitale bifidum occultum	Simple occipital sagittal defect
<b>E5.1.1.0.2.6.22</b>	Sutura frontalis persistens; Sutura metopica	Frontal suture; Metopic suture
<b>E5.1.1.0.2.6.23</b>	Sutura metopica singularis	Single metopic suture
<b>E5.1.1.0.2.6.24</b>	Sutura metopica duplex	Double metopic suture with sutural bone
<b>E5.1.1.0.2.6.25</b>	Foramen parietale persistens; Foramen parietale permagnum	Persistent parietal foramen; Large parietal foramen
<b>E5.1.1.0.2.6.26</b>	Hydrocephalia	Hydrocephaly; Hydrocephalus; Hydrencephaly; Hydrencephalus
<b>E5.1.1.0.2.6.8</b>	Scaphocephalia	Scaphocephaly; Boat-shaped head
<b>E5.1.1.0.2.6.27</b>	Tricephalia	Tricephaly
<b>E5.1.1.0.2.6.28</b>	Vertebralisatio partis ossis occipitalis	Vertebralisation of part of occipital bone
<b>E5.1.1.0.2.7.1</b>	<b>Syndromata pertinentia ad capitem {vide etiam Syndromata pertinentia ad faciem}</b>	<b>Syndromes involving head {see also Syndromes involving face}</b>
<b>E5.1.1.0.2.7.2</b>	Acrocephalosyndactylia	Acrocephalosyndactyly §Apert§
<b>E5.1.1.0.1.0.53</b>	Dysostosis cleidocranialis	Cleidocranial dysostosis
<b>E5.1.1.0.2.7.3</b>	Dysostosis craniofacialis	Craniofacial dysostosis §Crouzon§
<b>E5.1.1.0.2.7.4</b>	Dysostosis mandibulofacialis	Mandibulofacial dysostosis §Treacher-Collins§
<b>E5.1.1.0.2.7.5</b>	Dyscephalia mandibulooculofacialis	Mandibulo-oculofacial dyscephaly §Hallermann-Streiff-François§
<b>E5.1.1.0.3.0.1</b>	<b>Anomaliae maxillae et mandibulae {vide etiam Syndromata pertinentia ad faciem}</b>	<b>Maxillary and mandibular anomalies {see also Syndromes involving face}</b>
<b>E5.1.1.0.3.0.2</b>	Agnathia	Agnathia
<b>E5.1.1.0.3.0.3</b>	Dignathia	Dignathia
<b>E5.1.1.0.3.0.4</b>	Gnathoschisis; Schistognathia	Gnathoschisis; Cleft jaw
<b>E5.1.1.0.3.0.5</b>	Hypognathia	Hypognathia
<b>E5.1.1.0.3.0.6</b>	Macrognathia	Macrognathia
<b>E5.1.1.0.3.0.7</b>	Micrognathia	Micrognathia
<b>E5.1.1.0.3.0.8</b>	Prognathia	Prognathia
<b>E5.1.1.0.3.0.9</b>	Retrognathia	Retrognathia

<b>E5.1.1.0.4.0.1</b>	<b>Anomaliae columnae vertebralis<sup>127</sup></b>	<b>Vertebral anomalies</b>
<b>E5.1.1.0.4.0.2</b>	Kyphosis insolita	Abnormal kyphosis
<b>E5.1.1.0.4.0.3</b>	Lordosis insolita	Abnormal lordosis
<b>E5.1.1.0.4.0.4</b>	Scoliosis	Scoliosis
<b>E5.1.1.0.4.0.5</b>	Kyphoscoliosis	Kyphoscoliosis
<b>E5.1.1.0.4.0.6</b>	Fissurae vertebrae	Cleft vertebrae
<b>E5.1.1.0.4.0.7</b>	Fissura coronalis vertebrae	Coronal cleft vertebra
<b>E5.1.1.0.4.0.8</b>	Fissura sagittalis vertebrae	Sagittal cleft vertebra
<b>E5.1.1.0.4.0.9</b>	Hemivertebra	Hemivertebra
<b>E5.1.1.0.4.0.10</b>	Baculum vertebrae	Vertebral bar
<b>E5.1.1.0.4.0.11</b>	Massa vertebrae	Block vertebra
<b>E5.1.1.0.4.0.12</b>	Vestigium notochordae	Vestige of notochord
<b>E5.1.1.0.4.1.1</b>	<b>Spina bifida</b>	<b>Spina bifida</b>
<b>E5.1.1.0.4.1.2</b>	Spina bifida aperta	Spina bifida aperta
<b>E5.1.1.0.4.1.3</b>	Spina bifida cystica	Spina bifida cystica
<b>E5.1.1.0.4.1.4</b>	Meningocele	Meningocele <sup>▲</sup>
<b>E5.1.1.0.4.1.5</b>	Meningomyelocele; Myelomeningocele	Meningomyelocele; Myelomeningocele <sup>▲</sup>
<b>E5.1.1.0.4.1.6</b>	Myelocele	Myelocele <sup>▲</sup>
<b>E5.1.1.0.4.1.7</b>	Spina bifida occulta	Spina bifida occulta
<b>E5.1.1.0.4.1.8</b>	Anomaliae nervosae in spina bifida	Nerve anomalies in spina bifida
<b>E5.1.1.0.4.1.9</b>	Hypoplasia nervi spinalis	Spinal nerve hypoplasia
<b>E5.1.1.0.4.1.10</b>	Malformatio nervi spinalis	Spinal nerve malformation
<b>E5.1.1.0.4.2.1</b>	<b>Syndromata pertinentia ad columnam vertebralem</b>	<b>Syndromes involving vertebral column</b>
<b>E5.1.1.0.4.2.2</b>	Conjunctio anomaliarum vertebrarum renium aut membrorum radialium cum atresia anale fistula tracheoesophagea atque atresia oesophagea	VATER association; Vertebral anomalies, anal atresia, tracheo-esophageal fistula, esophageal atresia and renal or radial limb anomalies <sup>▲</sup>
<b>E5.1.1.0.4.2.3</b>	Conjunctio anomaliarum cordis vertebrarum renium membrorumque cum atresia anale fistula tracheoesophagea atque atresia oesophagea	VACTERL association; Vertebral anomalies, anal atresia, cardiac anomalies, tracheo-esophageal fistula, esophageal atresia, renal and limb anomalies <sup>▲</sup>
<b>E5.1.1.0.4.3.1</b>	<b>Anomaliae vertebrarum cervicalium</b>	<b>Anomalies of cervical vertebrae</b>
<b>E5.1.1.0.4.3.2</b>	Occipitalisatio atlantis	Occipitalisation of atlas
<b>E5.1.1.0.4.3.3</b>	Costa cervicalis	Cervical rib
<b>E5.1.1.0.4.3.4</b>	Brevicollum congenitum	Congenital brevicollis §Klippel-Feil sequence§
<b>E5.1.1.0.4.3.5</b>	Scapula alta congenita	Congenital high scapula §Spraengel deformity§
<b>E5.1.1.0.4.4.1</b>	<b>Anomaliae vertebrarum thoracicarum</b>	<b>Anomalies of thoracic vertebrae</b>
<b>E5.1.1.0.4.4.2</b>	Vertebra thoracica addita	Supernumerary thoracic vertebra
<b>E5.1.1.0.4.5.1</b>	<b>Anomaliae vertebrarum lumbalium</b>	<b>Anomalies of lumbar vertebrae</b>
<b>E5.1.1.0.4.5.2</b>	Costa lumbalis	Lumbar rib
<b>E5.1.1.0.4.5.3</b>	Vertebra lumbalis supernumeraria	Supernumerary lumbar vertebra
<b>E5.1.1.0.4.5.4</b>	Sacralisatio vertebrae lumbalis quintae	Sacralisation of fifth lumbar vertebra
<b>E5.1.1.0.4.6.1</b>	<b>Anomaliae vertebrarum sacrococcygealium</b>	<b>Anomalies of sacrococcygeal vertebrae</b>
<b>E5.1.1.0.4.6.2</b>	Vertebra sacralis supernumeraria	Supernumerary sacral vertebra
<b>E5.1.1.0.4.6.3</b>	Vertebra sacralis absens	Absent sacral vertebra
<b>E5.1.1.0.4.6.4</b>	Lumbalisatio vertebrae sacralis primae	Lumbarization of first sacral vertebra
<b>E5.1.1.0.4.6.5</b>	Vertebra coccygealis supernumeraria	Supernumerary coccygeal vertebra
<b>E5.1.1.0.4.6.6</b>	Vertebra coccygealis absens	Absent coccygeal vertebra
<b>E5.1.1.0.4.6.7</b>	Teratoma sacrococcygeale	Sacrococcygeal teratoma
<b>E5.1.1.0.5.0.1</b>	<b>Anomaliae caveae thoracicae</b>	<b>Thoracic cage anomalies</b>
<b>E5.1.1.0.5.0.2</b>	Schistosternia	Cleft sternum

<sup>127</sup> E5.1.1.0.4.0.1 *Anomaliae columnae vertebralis* Only vertebral anomalies thought to be congenital and without underlying neural tube defects are listed here: thus, e.g. Spondylolisthesis and Os odontoidum, no longer considered congenital, are not listed; Dysraphias are dealt with substantively under Nervous System page XX E5.13.0.0.0.1.

<b>E5.1.1.0.5.0.3</b>	Foramen sternale	Sternal foramen
<b>E5.1.1.0.5.0.4</b>	Costa bifurcata	Bifid rib
<b>E5.1.1.0.5.0.5</b>	Costa supernumeraria	Supernumerary rib
<b>E5.1.1.0.5.0.6</b>	Pectus excavatum	Funnel chest
<b>E5.1.1.0.5.0.7</b>	Pectus carinatum	Pigeon chest; Keel chest
<b>E5.1.1.0.6.0.1</b>	<b>Anomaliae membrorum et aliarum partium skeleti appendicularis</b>	<b>Limb and other appendicular skeletal anomalies</b>
<b>E5.1.1.0.6.1.1</b>	<b>Absentiae</b>	<b>Absences</b>
<b>E5.1.1.0.6.1.2</b>	Absentiae longitudinales	Longitudinal absences
<b>E5.1.1.0.6.1.3</b>	Absentiae centrales	Central absences
<b>E5.1.1.0.6.1.4</b>	Absentiae transversae	Transverse absences
<b>E5.1.1.0.6.1.5</b>	Absentiae terminales	Terminal absences
<b>E5.1.1.0.6.2.1</b>	<b>Conjunctiones</b>	<b>Fusions</b>
<b>E5.1.1.0.6.2.2</b>	Conjunctio articulationis glenohumeralis	Fused glenohumeral joint
<b>E5.1.1.0.6.2.3</b>	Conjunctio articulationis cubiti	Fused elbow joint
<b>E5.1.1.0.6.2.4</b>	Conjunctio articulationis radioulnaris distalis	Fused distal radio-ulnar joint
<b>E5.1.1.0.6.2.5</b>	Conjunctio articulationis carpi	Fused carpal joint
<b>E5.1.1.0.6.2.6</b>	Conjunctio articulationis intermetacarpalis	Fused intermetacarpal joint
<b>E5.1.1.0.6.2.7</b>	Conjunctio articulationis metacarpophalangealis	Fused metacarpophalangeal joint
<b>E5.1.1.0.6.2.8</b>	Conjunctio articulationis interphalangeae	Fused interphalangeal joint
<b>E5.1.1.0.6.2.9</b>	Conjunctio digitorum	Fused digits
<b>E5.1.1.0.6.2.10</b>	Conjunctio pollicis	Fused thumb
<b>E5.1.1.0.6.2.11</b>	Conjunctio articulationis coxae	Fused hip joint
<b>E5.1.1.0.6.2.12</b>	Conjunctio articulationis genus	Fused knee joint
<b>E5.1.1.0.6.2.13</b>	Conjunctio articulationis tibiofibularis	Fused tibiofibular joint
<b>E5.1.1.0.6.2.14</b>	Conjunctio articulationis talocruralis	Fused ankle joint
<b>E5.1.1.0.6.2.15</b>	Conjunctio articulationis tarsi	Fused tarsal joint
<b>E5.1.1.0.6.2.16</b>	Conjunctio articulationis intermetatarsalis	Fused intermetatarsal joint
<b>E5.1.1.0.6.2.8</b>	Conjunctio articulationis interphalangeae	Fused interphalangeal joint
<b>E5.1.1.0.6.2.9</b>	Conjunctio digitorum	Fused digits
<b>E5.1.1.0.6.2.17</b>	Conjunctio hallucis	Fused great toe
<b>E5.1.1.0.6.3.1</b>	<b>Dysmeliae</b>	<b>Limb anomalies</b>
<b>E5.1.1.0.6.3.2</b>	Amelia	Amelia; Absence of limb
<b>E5.1.1.0.6.3.3</b>	Brachymelia	Brachymelia
<b>E5.1.1.0.6.3.4</b>	Dimelia	Dimelia
<b>E5.1.1.0.6.3.5</b>	Dolichostenomelia	Dolichostenomelia
<b>E5.1.1.0.6.3.6</b>	Ectromelia	Ectromelia
<b>E5.1.1.0.6.3.7</b>	Hemimeliae	Hemimeliae
<b>E5.1.1.0.6.3.8</b>	Hemimelia partialis longitudinalis	Partial longitudinal hemimelia
<b>E5.1.1.0.6.3.9</b>	Hemimelia partialis transversalis	Partial transverse hemimelia
<b>E5.1.1.0.6.3.10</b>	Macromelia	Macromelia
<b>E5.1.1.0.6.3.11</b>	Meromelia	Meromelia
<b>E5.1.1.0.6.3.12</b>	Micromelia	Micromelia
<b>E5.1.1.0.6.3.13</b>	Notomelia	Notomelia
<b>E5.1.1.0.6.3.14</b>	Peromelia	Peromelia
<b>E5.1.1.0.6.3.15</b>	Phocomelia	Phocomelia
<b>E5.1.1.0.6.3.16</b>	Phocomelia praeaxialis	Pre-axial phocomelia
<b>E5.1.1.0.6.3.17</b>	Phocomelia postaxialis	Postaxial phocomelia
<b>E5.1.1.0.6.3.18</b>	Polymelia	Polymelia
<b>E5.1.1.0.6.3.19</b>	Rhizomelia	Rhizomelia
<b>E5.1.1.0.6.3.20</b>	Schistomelia	Schistomelia
<b>E5.1.1.0.6.3.21</b>	Sirenomelia	Sirenomelia
<b>E5.1.1.0.6.3.22</b>	Symmelia	Symmelia
<b>E5.1.1.0.6.4.1</b>	<b>Dysbrachiae</b>	<b>Arm anomalies</b>
<b>E5.1.1.0.6.4.2</b>	Abrachia	Abrachia; Absence of arm
<b>E5.1.1.0.6.4.3</b>	Hemihypertrophia brachii	Brachial hemihypertrophy
<b>E5.1.1.0.6.4.4</b>	Macrobrachia	Macrobrachia
<b>E5.1.1.0.6.4.5</b>	Microbrachia	Microbrachia
<b>E5.1.1.0.6.4.6</b>	Tribrachia	Tribrachia
<b>E5.1.1.0.6.5.1</b>	<b>Dyscheiriae</b>	<b>Hand anomalies</b>

<b>E5.1.1.0.6.5.2</b>	Acheiria	Acheiria; Absence of hand
<b>E5.1.1.0.6.5.3</b>	Dicheiria	Dicheiria
<b>E5.1.1.0.6.5.4</b>	Machrocheiria	Macrocheiria
<b>E5.1.1.0.6.5.5</b>	Manus bifurcata	Bifurcate hand; Lobster claw deformity
<b>E5.1.1.0.6.5.6</b>	Microcheiria	Microcheiria
<b>E5.1.1.0.6.5.7</b>	Schistocheiria; Cheiroschisis	Schistocheiria
<b>E5.1.1.0.6.6.1</b>	<b>Dyspodiae</b>	<b>Foot anomalies</b>
<b>E5.1.1.0.6.6.2</b>	Apodia	Apodia; Absence of foot
<b>E5.1.1.0.6.6.3</b>	Dipodia	Dipodia
<b>E5.1.1.0.6.6.4</b>	Macropodia	Macropodia
<b>E5.1.1.0.6.6.5</b>	Micropodia	Micropodia
<b>E5.1.1.0.6.6.6</b>	Monopodia	Monopodia
<b>E5.1.1.0.6.6.7</b>	Schistopodia; Podoschisis	Schistopodia
<b>E5.1.1.0.6.6.8</b>	Sympodia	Sympodia
<b>E5.1.1.0.6.6.9</b>	Tripodia	Tripodia
<b>E5.1.1.0.6.7.1</b>	<b>Talipes</b> <sup>128</sup>	<b>Talipes</b>
<b>E5.1.1.0.6.7.2</b>	Talipes calcaneovalgus	Talipes calcaneovalgus
<b>E5.1.1.0.6.7.3</b>	Talipes calcaneovarus	Talipes calcaneovarus
<b>E5.1.1.0.6.7.4</b>	Talipes calcaneus	Talipes calcaneus
<b>E5.1.1.0.6.7.5</b>	Talipes cavus; Talipes plantaris	Talipes cavus; Talipes plantaris
<b>E5.1.1.0.6.7.6</b>	Talipes cavaoalvus	Talipes cavaoalvus
<b>E5.1.1.0.6.7.7</b>	Talipes cavovarus	Talipes cavovarus
<b>E5.1.1.0.6.7.8</b>	Talipes equinoalvus	Talipes equinoalvus
<b>E5.1.1.0.6.7.9</b>	Talipes equinovarus	Talipes equinovarus
<b>E5.1.1.0.6.7.10</b>	Talipes equinus	Talipes equinus
<b>E5.1.1.0.6.7.11</b>	Talipes planus; Pes planus	Talipes planus; Pes planus; Flat foot
<b>E5.1.1.0.6.7.12</b>	Talipes planoalvus	Talipes planoalvus
<b>E5.1.1.0.6.7.13</b>	Talipes transversoplanus	Talipes transversoplanus
<b>E5.1.1.0.6.7.14</b>	Talipes valgus	Talipes valgus
<b>E5.1.1.0.6.7.15</b>	Talipes varus	Talipes varus
<b>E5.1.1.0.6.7.16</b>	Metatarsus adductocavus	Metatarsus adductocavus
<b>E5.1.1.0.6.7.17</b>	Metatarsus adductovarus	Metatarsus adductovarus
<b>E5.1.1.0.6.7.18</b>	Metatarsus adductus	Metatarsus adductus
<b>E5.1.1.0.6.7.19</b>	Metatarsus atavicus; Metatarsus brevis	Short first metatarsal
<b>E5.1.1.0.6.7.20</b>	Metatarsus latus	Broad foot; Spread foot
<b>E5.1.1.0.6.7.21</b>	Metatarsus varus	Metatarsal varus
<b>E5.1.1.0.6.8.1</b>	<b>Talipomanus</b>	<b>Club hand</b>
<b>E5.1.1.0.6.8.2</b>	Talipomanus radialis	Radial talipomanus; Manus valgus
<b>E5.1.1.0.6.8.3</b>	Talipomanus ulnaris	Ulnar talipomanus; Manus varus
<b>E5.1.1.0.6.9.1</b>	<b>Dysdactyliae</b>	<b>Defect of digits</b>
<b>E5.1.1.0.6.9.2</b>	Adactylia	Adactyly; Absence of digits
<b>E5.1.1.0.6.9.3</b>	Ankylodactylia	Ankylodactyly
<b>E5.1.1.0.6.9.4</b>	Arachnodactylia	Arachnodactyly
<b>E5.1.1.0.6.9.5</b>	Brachydactylia	Brachydactyly
<b>E5.1.1.0.6.9.6</b>	Camptodactylia	Camptodactyly
<b>E5.1.1.0.6.9.7</b>	Clinodactylia	Clinodactyly
<b>E5.1.1.0.6.9.8</b>	Constrictio anularis	Anular constriction
<b>E5.1.1.0.6.9.9</b>	Contractura	Contracture
<b>E5.1.1.0.6.9.10</b>	Ectrodactylia	Ectrodactyly
<b>E5.1.1.0.6.9.11</b>	Hyperphalangia; Polyphalangia	Hyperphalangism
<b>E5.1.1.0.6.9.12</b>	Hypophalangia	Hypophalangism
<b>E5.1.1.0.6.9.13</b>	Macroactylia	Macroactyly
<b>E5.1.1.0.6.9.14</b>	Microactylia	Microactyly
<b>E5.1.1.0.6.9.15</b>	Phalanx deltoidea	Deltoid phalanx
<b>E5.1.1.0.6.9.16</b>	Polydactylia	Polydactyly

<sup>128</sup> E5.1.1.0.6.7.1 Talipes The term *Club foot* has not been listed because of its inconsistent use in describing the results of more than one of these anatomical deformities.

<b>E5.1.1.0.6.9.17</b>	Polysyndactylia	Polysyndactyly
<b>E5.1.1.0.6.9.18</b>	Symphalangia	Symphalangism
<b>E5.1.1.0.6.9.19</b>	Syndactylia	Syndactyly
<b>E5.1.1.0.6.9.20</b>	Triphalangia	Triphalangy
<b>E5.1.1.0.6.9.21</b>	Triphalangia pollicis	Triphalangy of thumb
<b>E5.1.1.0.6.9.22</b>	Triphalangia hallucis	Triphalangy of big toe
<b>E5.2.0.0.0.0.1</b>	<b>Musculi; Systema musculare</b> <sup>129</sup>	<b>Muscles; Muscular system</b>
	<i>Nomina generalia</i>	<i>General terms</i>
<b>E5.2.0.0.0.0.2</b>	Mesenchyma praechordale	Prechordal mesenchyme
<b>E5.0.2.1.0.0.4</b>	Lamina praechordalis	Prechordal plate
<b>E5.2.0.0.0.0.3</b>	Mesenchyma pharyngomericum <sup>119</sup>	Pharyngomeric mesenchyme
<b>E4.0.4.1.0.0.5</b>	Ectomesenchyma; Mesenchyma cristae neuralis	Ectomesenchyme; Neural crest mesenchyme
<b>E5.0.2.1.0.0.3</b>	Mesoderma paraxiale	Paraxial mesoderm
<b>E5.2.0.0.0.0.4</b>	Placoda epipharyngea	Epipharyngeal placode
<b>E5.2.0.0.0.0.5</b>	Dermatomyotomus; Dermomyotomus	Dermatomyotome; Dermomyotome
<b>E5.2.0.0.0.0.6</b>	Myotomus	Myotome
<b>E4.0.4.1.0.0.3</b>	Mesenchyma somatopleurale <sup>206</sup>	Somatopleuric mesenchyme
<b>E5.2.0.0.0.0.7</b>	Mesenchyma gemmarum membrorum	Mesenchyme of limb buds
<b>E5.2.0.0.0.0.8</b>	Striomyohistogenesis non cardiaca {vide Myohistogenesis in Histogenesis generalis supra}	Noncardiac striomyohistogenesis {see Myohistogenesis in General histogenesis above}
<b>E4.0.4.4.10.0.1</b>	Tendinogenesis {vide Histogenesis generalis supra}	Tendinogenesis {see General histogenesis above}
<b>E5.2.0.0.0.0.9</b>	Tendo	Tendon
<b>E5.2.0.0.0.0.10</b>	Aponeurosis	Aponeurosis
<b>E5.2.0.0.0.0.11</b>	Fascia	Fascia
<b>E5.2.0.0.0.0.12</b>	Epimysium	Epimysium
<b>E5.2.0.0.0.0.13</b>	Perimysium	Perimysium
<b>E5.2.0.0.0.0.14</b>	Endomysium	Endomysium
<b>E3.0.0.6.1.0.75</b>	Motus dilatationis <sup>70</sup>	Dilation movement
<b>E5.2.0.0.0.0.15</b>	M. unisegmentalis	Unisegmental muscle
<b>E5.2.0.0.0.0.16</b>	M. multisegmentalis	Multisegmental muscle
<b>E5.2.0.0.0.0.2</b>	<b>MESENCHYMA PRAECHORDALE</b>	<b>PRECHORDAL MESENCHYME</b>
<b>E5.2.0.1.0.0.1</b>	<b>Primordium musculorum externorum bulbi oculi</b> <sup>130</sup>	<b>Extra-ocular muscle primordium</b>
<b>E5.2.0.1.0.0.2</b>	Blastema musculorum externorum bulbi oculi	Blastema of extra-ocular muscles
<b>E5.2.0.0.0.0.3</b>	<b>MESENCHYMA PHARYNGOMERICUM</b> <sup>119</sup>	<b>PHARYNGOMERIC MESENCHYME</b>
<b>E5.2.0.2.0.0.1</b>	<b>Primordium musculare arcus pharyngei primi</b> [1]	<b>First pharyngeal arch muscle primordium</b> [1]
<b>E5.2.0.2.0.0.2</b>	Blastemata musculorum masticatoriorum <sup>131</sup>	Blastemata of muscles of mastication
<b>E5.2.0.2.0.0.3</b>	Blastema musculi tensoris veli palatini	Blastema of tensor veli palatini
<b>E5.2.0.2.0.0.4</b>	Blastema musculi tensoris tympani	Blastema of tensor tympani §Eustachius§
<b>E5.2.0.2.0.1.1</b>	<b>Primordium musculare arcus pharyngei secundi</b> [2]	<b>Second pharyngeal arch muscle primordium</b> [2]
<b>E5.2.0.2.0.1.2</b>	Blastemata musculorum faciei <sup>132</sup>	Blastemata of facial muscles
<b>E5.2.0.2.0.1.3</b>	Blastema musculi stapedii	Blastema of stapedius
<b>E5.2.0.2.0.1.4</b>	Blastemata musculorum levatorium veli palatini et uvulae atque palatoglossi et palatopharyngei	Blastemata of levator veli palatini, uvulae, palatoglossus and palatopharyngeus

<sup>129</sup> E5.2.0.0.0.0.1 *Musculi; Systema musculare* This section refers only to noncardiac striated muscle. Other muscle is presented under the corresponding structures (e.g. alimentary system, cardiovascular system).

<sup>130</sup> E5.2.0.1.0.0.1 *Primordium musculi externi bulbi oculi* The *extra-ocular muscles* were thought to be derived from "preotic somites" but these are now thought not to occur in the human. The extrinsic eye muscles develop from a premandibular condensation of mesenchyme derived from the prechordal plate.

<sup>131</sup> E5.2.0.2.0.0.2 *Blastemata musculorum masticatoriorum* The primordia of the principal muscles of mastication (masseter, temporalis and pterygoids) as well as of mylohyoid and the anterior belly of the digastric.

<sup>132</sup> E5.2.0.2.0.1.2 *Blastemata musculorum faciei* The primordia of the muscles of facial expression as well as of stylohyoid and the posterior belly of the digastric.



<b>E5.2.0.2.0.2.1</b>	<b>Primordium musculare arcus pharyngei tertii</b> [3]	<b>Third pharyngeal arch muscle primordium</b> [3]
<b>E5.2.0.2.0.2.2</b>	Blastema musculi stylopharyngei	Blastema of stylopharyngeus
<b>E5.2.0.2.0.3.1</b>	<b>Primordium musculare arcus pharyngei quarti</b> [4]	<b>Fourth pharyngeal arch muscle primordium</b> [4]
<b>E5.2.0.2.0.3.2</b>	Blastemata musculorum constrictorium superioris, medii et inferioris pharyngis atque salpingopharyngei	Blastemata of superior, middle and inferior pharyngeal constrictors and of salpingopharyngeus
<b>E5.2.0.2.0.3.3</b>	Blastemata musculorum laryngeorum	Blastemata of laryngeal muscles
<b>E5.2.0.0.0.0.6</b>	<b>MYOTOMI</b>	<b>MYOTOMES</b>
<b>E5.2.0.3.0.0.1</b>	<b>Myotomi occipitales</b>	<b>Occipital myotomes</b>
<b>E5.2.0.3.0.1.1</b>	<b>Primordium musculorum linguae</b>	<b>Tongue muscle primordium</b>
<b>E5.2.0.3.0.1.2</b>	Blastemata musculorum linguae	Blastemata of muscles of tongue
<b>E5.2.0.3.1.0.1</b>	<b>Myotomi postoccipitales</b>	<b>Postoccipital myotomes</b>
<b>E5.2.0.3.1.1.1</b>	<b>Pars epaxialis myotomi postoccipitalis</b>	<b>Epaxial part of postoccipital myotome</b>
<b>E5.2.0.3.1.1.2</b>	Blastemata musculorum suboccipitalium	Blastemata of suboccipital muscles
<b>E5.2.0.3.1.1.3</b>	Blastemata musculorum dorsi	Blastemata of muscles of back proper
<b>E5.2.0.3.1.2.1</b>	<b>Pars hypaxialis myotomi postoccipitalis</b>	<b>Hypaxial part of postoccipital myotome</b>
<b>E5.2.0.3.1.2.2</b>	Blastema musculi sternocleidomastoidei <sup>133</sup>	Blastema of sternocleidomastoid
<b>E5.2.0.3.1.2.3</b>	Blastema musculi trapezii <sup>133</sup>	Blastema of trapezius
<b>E5.2.0.3.1.2.4</b>	Blastemata musculorum suprahyoideorum	Blastemata of suprahyoid muscles
<b>E5.2.0.3.1.2.5</b>	Blastemata musculorum infrahyoideorum	Blastemata of infrahyoid muscles
<b>E5.2.0.3.1.2.6</b>	Blastemata musculorum praevertebraliium	Blastemata of prevertebral muscles
<b>E5.2.0.3.1.2.7</b>	Blastemata musculorum scalenorum	Blastemata of scalene muscles
<b>E5.2.0.3.1.2.8</b>	Blastemata muscularia diaphragmatis	Muscular blastemata of diaphragm
<b>E5.2.0.3.1.2.9</b>	Blastemata musculorum parietis thoracici	Blastemata of muscles of thoracic wall
<b>E5.2.0.3.1.2.10</b>	Blastemata musculorum parietis abdominalis anterioris	Blastemata of muscles of anterior abdominal wall
<b>E5.2.0.3.1.2.11</b>	Blastemata diaphragmatis pelvis	Blastemata of pelvic diaphragm
<b>E5.2.0.3.1.2.12</b>	Blastema musculi sphincteris ani externi	Blastema of external anal sphincter
<b>E5.2.0.3.1.2.13</b>	Blastemata musculorum regionis urogenitalis	Blastemata of muscles of urogenital triangle
<b>E5.2.0.3.2.0.1</b>	<b>Myotomi abdominales</b>	<b>Abdominal myotomes</b>
<b>E5.2.0.3.2.0.2</b>	Ectoderma embryonicum anuli umbilicalis <sup>134</sup>	Embryonic ectoderm of umbilical ring
<b>E4.0.4.1.0.0.3</b>	Mesenchyma somatopleurale <sup>206</sup>	Somatopleuric mesenchyme
<b>E4.0.4.1.0.0.6</b>	Mesenchyma ex eminentia caudale <sup>135</sup>	Mesenchyme from caudal eminence
<b>E5.2.0.3.1.2.10</b>	Blastemata musculorum parietis abdominalis anterioris	Blastemata of muscles of anterior abdominal wall
<b>E5.2.0.3.2.0.3</b>	Blastema musculi recti abdominis <sup>136</sup>	Blastema of rectus abdominis
<b>E5.2.0.3.2.0.4</b>	Blastema musculi obliqui externi abdominis	Blastema of external oblique
<b>E5.2.0.3.2.0.5</b>	Blastema musculi obliqui interni abdominis	Blastema of internal oblique
<b>E5.2.0.3.2.0.6</b>	Blastema musculi transversi abdominis	Blastema of transversus abdominis
<b>E5.2.0.3.2.0.7</b>	Blastema musculi quadrati lumborum	Blastema of quadratus lumborum
<b>E5.2.0.3.2.0.8</b>	Occlusio parietis abdominalis anterioris	Closure of anterior abdominal wall
<b>E5.2.0.3.2.0.9</b>	Anulus umbilicalis <sup>213</sup>	Umbilical ring
<b>E5.2.0.3.3.0.1</b>	<b>Anomaliae parietis abdominalis anterioris</b>	<b>Anomalies of anterior abdominal wall</b>
<b>E5.2.0.3.3.0.2</b>	Occlusio non completa	Incomplete closure; Defective formation
<b>E5.2.0.3.3.0.3</b>	Eventratio	Eventration
<b>E5.2.0.3.3.0.4</b>	Gastroschisis	Gastroschisis

<sup>133</sup> E5.2.0.3.1.2.2/ E5.2.0.3.1.2.3 *Blastema musculi sternocleidomastoidei / Blastema musculi trapezii* The single primordium for these two muscles is located in the epicardial ridge, caudal to the fourth pharyngeal arch and the cervical sinus. As the neck elongates the primordium divides so that the two muscles come to bound the posterior triangle.

<sup>134</sup> E5.2.0.3.2.0.2 *Ectoderma embryonicum anuli umbilicalis* Embryonic ectoderm, apart from providing surface epithelium and undergoing epitheliomesenchymal transformation and ingression of embryonic ectoderm of the umbilical ring, may contribute mesenchyme to the underlying tissues. See also footnote on embryonic ectoderm<sup>121</sup>.

<sup>135</sup> E4.0.4.1.0.0.6 *Mesenchyma eminentiae caudale* Mesenchyme from the caudal eminence passes ventrally around the cloacal membrane to contribute to the musculature and connective tissue of the infra-umbilical abdominal wall and the underlying bladder wall.

<sup>136</sup> E5.2.0.3.2.0.3 *Blastema musculi recti abdominis* Only material from the mid-thoracic segments has reached its destination by the end of the embryonic period so that only the cranial parts of the *blastemata of rectus abdominis* have come together by that time; at that time, more caudally, they are still divaricated and a triangular transparent area between them includes the umbilical ring. By the end of the first trimester, the recti have come together throughout, except at the umbilical ring.

<b>E5.2.0.3.3.0.5</b>	Schistocoelia; Coeloschisis	Schistocoele; Coeloschisis <sup>▲</sup>
<b>E5.2.0.3.3.0.6</b>	Exomphalos	Exomphalos
<b>E5.2.0.3.3.0.7</b>	Omphalocoelia	Omphalocoele; Umbilical eventration <sup>▲</sup>
<b>E5.2.0.3.4.0.1</b>	<b>Dermatomyotomus membri superioris</b>	<b>Upper limb dermatomyotome</b>
<b>E5.2.0.3.4.1.1</b>	<b>Primordium musculare dorsale</b>	<b>Dorsal muscle mass; Dorsal muscle primordium</b>
<b>E5.2.0.3.4.1.2</b>	Blastemata in compartimentis posterioribus brachii et antebrachii	Blastemata in posterior compartments of arm and forearm
<b>E5.2.0.3.4.1.3</b>	Blastemata musculorum deltoidei et teretis minoris	Blastemata of deltoid and teres minor
<b>E5.2.0.3.4.1.4</b>	Blastema musculi latissimi dorsi	Blastema of latissimus dorsi
<b>E5.2.0.3.4.1.5</b>	Blastemata musculorum rhomboideorum	Blastemata of rhomboid muscles
<b>E5.2.0.3.4.1.6</b>	Blastema musculi levatoris scapulae	Blastema of levator scapulae
<b>E5.2.0.3.4.1.7</b>	Blastema musculi serrati anterioris	Blastema of serratus anterior
<b>E5.2.0.3.4.1.8</b>	Blastema musculi teretis majoris	Blastema of teres major
<b>E5.2.0.3.4.1.9</b>	Blastema musculi subscapularis	Blastema of subscapularis
<b>E5.2.0.3.4.1.10</b>	Blastemata musculorum supraspinati et infraspinati	Blastemata of supraspinatus and infraspinatus
<b>E5.2.0.3.4.2.1</b>	<b>Primordium musculare ventrale</b>	<b>Ventral muscle mass; Ventral muscle primordium</b>
<b>E5.2.0.3.4.2.2</b>	Blastemata in compartimentis anterioribus brachii et antebrachii	Blastemata in anterior compartments of arm and forearm
<b>E5.2.0.3.4.2.3</b>	Blastemata musculorum manus	Blastemata of muscles of hand
<b>E5.2.0.3.5.0.1</b>	<b>Dermatomyotomi membri inferioris; Dermomyotomi membri inferioris</b>	<b>Lower limb dermatomyotomes; Lower limb dermomyotomes</b>
<b>E5.2.0.3.4.1.1</b>	<b>Primordium musculare dorsale</b>	<b>Dorsal muscle mass; Dorsal muscle primordium</b>
<b>E5.2.0.3.5.1.1</b>	Blastemata in compartimentis anterioribus femoris et cruris	Blastemata in anterior compartments of thigh and leg
<b>E5.2.0.3.5.1.2</b>	Blastema musculi tensoris fasciae latae	Blastema of tensor fasciae latae; Blastema of tensor of fascia lata
<b>E5.2.0.3.5.1.3</b>	Blastema capitis brevis musculi bicipitis femoris	Blastema of short head of biceps femoris
<b>E5.2.0.3.5.1.4</b>	Blastemata in compartimento laterali cruris	Blastemata in lateral compartment of leg
<b>E5.2.0.3.5.1.5</b>	Blastema musculorum dorsalium pedis	Blastema of dorsal muscles of foot
<b>E5.2.0.3.5.1.6</b>	Blastemata musculorum gluteorum maximi, medii et minimi	Blastemata of gluteus maximus, medius and minimus
<b>E5.2.0.3.5.1.7</b>	Blastema musculi piriformis	Blastema of piriformis
<b>E5.2.0.3.5.1.8</b>	Blastemata musculi iliopsoatis	Blastemata of iliopsoas
<b>E5.2.0.3.4.2.1</b>	<b>Primordium musculare ventrale</b>	<b>Ventral muscle mass; Ventral muscle primordium</b>
<b>E5.2.0.3.5.2.1</b>	Blastemata in compartimentis mediale et posteriore femoris <sup>137</sup>	Blastemata in medial and posterior compartments of thigh
<b>E5.2.0.3.5.2.2</b>	Blastemata in compartimento posteriore cruris	Blastemata in posterior compartment of leg
<b>E5.2.0.3.5.2.3</b>	Blastemata musculorum plantarium pedis	Blastemata of plantar muscles of foot
<b>E5.2.0.3.5.2.4</b>	Blastema musculorum obturatorii interni et gemellorum <sup>138</sup>	Blastema of obturator internus and gemelli
<b>E5.2.0.3.5.2.5</b>	Blastema musculi quadrati femoris	Blastema of quadratus femoris
<b>E5.2.0.4.0.0.1</b>	<b>DIAPHRAGMA</b>	<b>DIAPHRAGM</b>
<b>E5.2.0.4.0.0.2</b>	Septum transversum	Septum transversum
<b>E5.2.0.4.0.0.3</b>	Pars diaphragmatica septi transversi	Diaphragmatic part of septum transversum
<b>E5.2.0.4.0.0.4</b>	Pars pleuroperitonealis diaphragmatis	Pleuroperitoneal part of diaphragm
<b>E5.2.0.4.0.0.5</b>	Pars parietalis diaphragmatis	Body wall part of diaphragm

<sup>137</sup> E5.2.0.3.5.2.1 *Blastemata in compartimentis medialis et posterioris femoris* These blastemata give rise to the muscles of the posterior and medial compartments of the thigh apart from the short head of biceps femoris (E5.2.0.3.5.1.3); these are abductors magnus, longus and brevis, gracilis, obturator externus, semitendinosus, semimembranosus, and the long head of biceps femoris.

<sup>138</sup> E5.2.0.3.5.2.4 *Blastema musculorum obturatorii interni et gemellorum* In the 14mm embryo no distinction can be made between the obturator internus and the two gemelli (Bardeen CR. Development and variation of the nerves and musculature of the inferior extremity and of the neighbouring regions of the trunk in man. Am J Anat 1907;6:259-390)

<b>E5.2.0.4.1.0.1</b>	<b>Anomaliae diaphragmae</b>	<b>Anomalies of diaphragm</b>
<b>E5.2.0.4.1.0.2</b>	Trigonum vertebrocostale	Vertebrocostal trigone
<b>E5.2.0.4.1.0.3</b>	Herniae diaphragmaticae congenitae	Congenital diaphragmatic hernias
<b>E5.2.0.4.1.0.4</b>	Hernia posterolateralis	Posterolateral hernia §Foramen of Bochdalek hernia§
<b>E5.2.0.4.1.0.5</b>	Hernia sternocostalis	Sternocostal hernia; Parasternal hernia §Foramen of Morgagni hernia§
<b>E5.2.0.4.1.0.6</b>	Hernia hiatalis	Hiatus hernia
<b>E5.2.0.4.1.0.7</b>	Hernia fluitans hiatus; Hernia fluitans oesophagi	Sliding hiatus hernia; Sliding hernia of oesophagus <sup>▲</sup>
<b>E5.2.0.4.1.0.8</b>	Hernia hiatalis paraoesophagea	Para-oesophageal hiatal hernia <sup>▲</sup>
<b>E5.2.0.4.1.0.9</b>	Oesophagus brevis congenitus	Congenital short oesophagus <sup>▲</sup>
<b>E5.3.0.0.0.0.1</b>	<b>Facies</b>	<b>Face</b>
<b>E5.0.3.0.0.0.3</b>	Ectoderma embryonicum <sup>121</sup>	Embryonic ectoderm
<b>E5.3.0.0.0.0.2</b>	Epidermis	Epidermis
<b>E5.3.0.0.0.0.3</b>	Periderma	Periderm
<b>E5.2.0.0.0.0.3</b>	Mesenchyma pharyngomericum <sup>119</sup>	Pharyngomeric mesenchyme
<b>E4.0.4.1.0.0.5</b>	Ectomesenchyma; Mesenchyma cristae neuralis	Ectomesenchyme; Neural crest mesenchyme
<b>E5.0.2.1.0.0.3</b>	Mesoderma paraxiale	Paraxial mesoderm
<b>E5.2.0.0.0.0.4</b>	Placoda epipharyngea	Epipharyngeal placode
<b>E5.3.0.0.0.0.4</b>	Stomodeum; Stomatodeum	Stomodeum
<b>E5.3.0.0.0.0.5</b>	Membrana oropharyngea	Oropharyngeal membrane
<b>E5.3.0.0.0.0.6</b>	Prominentia frontonasalis	Frontonasal prominence
<b>E5.3.0.0.0.0.7</b>	Prominentia frontalis	Frontal prominence
<b>E5.3.0.0.0.0.8</b>	Placoda nasalis; Placoda olfactoria <sup>165</sup>	Nasal placode; Nasal disc; Olfactory placode
<b>E5.3.0.0.0.0.9</b>	Fovea nasalis	Nasal pit
<b>E5.3.0.0.0.0.10</b>	Pinna nasalis	Nasal fin
<b>E5.3.0.0.0.0.11</b>	Prominentia nasalis medialis <sup>139</sup>	Medial nasal prominence
<b>E5.3.0.0.0.0.12</b>	Prominentia nasalis lateralis	Lateral nasal prominence
<b>E5.3.0.0.0.0.13</b>	Prominentia maxillaris	Maxillary prominence
<b>E5.3.0.0.0.0.14</b>	Prominentia mandibularis	Mandibular prominence
<b>E5.3.0.0.0.0.15</b>	Crescentia rostralis faciei	Rostral growth of face
<b>E5.3.0.0.0.0.16</b>	Crescentia transversa faciei	Transverse growth of face
<b>E5.3.0.0.0.0.17</b>	Crescentia longitudinalis faciei	Longitudinal growth of face
<b>E5.3.0.0.0.0.18</b>	Primordia labiorum, buccae et gingivae	Primordia of lips, cheek and gingiva
<b>E5.3.0.0.0.0.19</b>	Sulcus nasomaxillaris	Nasomaxillary groove
<b>E5.3.0.0.0.0.20</b>	Sulcus nasolacrimalis; Sulcus lacrimalis <sup>307</sup>	Nasolacrimal groove; Lacrimal groove
<b>E5.3.0.0.0.0.21</b>	Sulcus interorbitalis	Interorbital groove
<b>E5.3.0.0.0.0.22</b>	Lig. interorbitale	Interorbital ligament
	{Facies vide etiam Auris externa paginam <b>XX</b> }	{Face see also External ear page <b>XX</b> <b>E5.16.4.0.1.0.1</b> }
<b>E5.3.0.0.1.0.1</b>	<b>Formatio labii oris</b>	<b>Lip development</b>
<b>E5.3.0.0.1.0.2</b>	Lamina labiokingivalis	Vestibular lamina; Labiokingival lamina
<b>E5.3.0.0.1.0.3</b>	Primordium labii	Primordium of lip
<b>E5.3.0.0.1.0.4</b>	Labium fetale et neonatale <sup>140</sup>	Fetal and neonatal lip
<b>E5.3.0.0.1.0.5</b>	Pars labialis musculi orbicularis oris	Labial part of orbicularis oris
<b>E5.3.0.0.1.0.6</b>	Pars cutanea labii	Cutaneous part of lip
<b>E5.3.0.0.1.0.7</b>	Pars glabra labii	Glabrous part of lip
<b>E5.3.0.0.1.0.8</b>	Pars intermedia labii	Transition part of lip; Vermilion part of lip
<b>E5.3.0.0.1.0.9</b>	Pars villosa labii	Villous part of lip
<b>E5.3.0.0.1.0.10</b>	Villus labialis transiens	Transient labial villus
<b>E5.3.0.0.1.0.11</b>	Torus labialis	Double lip
<b>E5.3.0.0.1.0.12</b>	Pars mucosa labii	Mucosal part of lip

<sup>139</sup> E5.3.0.0.0.11 *Prominentia nasalis medialis* The term *prominence* is recommended for this and similar facial features because they are not processes or projections but swellings caused by growth centres; they do not fuse as processes do but merge as mesenchyme fills the depressions and raises the epithelium between them.

<sup>140</sup> E5.3.0.0.1.0.4 *Labium fetale et neonatale* The parts are as given by Miethke R-R. Zur Anatomie der Ober- und Unterlippe zwischen dem 4. intrauterinen Monat und der Geburt. Gegenbaurs morph Jahrbuch 1977;123:424-452.

<b>E5.3.0.0.2.0.1</b>	<b>Anomaliae faciei</b>	<b>Facial anomalies</b>
<b>E5.3.0.0.2.0.2</b>	Aprosopia	Aprosopy
<b>E5.3.0.0.2.0.3</b>	Diprosopia	Diprosopy
<b>E5.3.0.0.2.0.4</b>	Ablepharia	Ablepharia
<b>E5.3.0.0.2.0.5</b>	Agensis palpebrae	Agensis of eyelid
<b>E5.3.0.0.2.0.6</b>	Coloboma palpebrae	Palpebral coloboma
<b>E5.3.0.0.2.0.7</b>	Agensis ciliorum palpebrae	Agensis of eyelashes
<b>E5.3.0.0.2.0.8</b>	Ectopia ciliorum palpebrae	Ectopic eyelashes
<b>E5.3.0.0.2.0.9</b>	Ordo supernumerarius ciliorum palpebrae	Supernumerary row of eyelashes
<b>E5.3.0.0.2.0.10</b>	Absentia glandularum tarsalium	Absent tarsal glands
<b>E5.3.0.0.2.0.11</b>	Ankyloblepharia	Ankyloblepharia
<b>E5.3.0.0.2.0.12</b>	Blepharochalasis	Blepharochalasis
<b>E5.3.0.0.2.0.13</b>	Blepharophimosis	Blepharophimosis; Blepharostenosis
<b>E5.3.0.0.2.0.14</b>	Blepharosynechia	Blepharosynechia
<b>E5.3.0.0.2.0.15</b>	Ectropion palpebrae	Palpebral ectropion
<b>E5.3.0.0.2.0.16</b>	Euryblepharon	Euryblepharon
<b>E5.3.0.0.2.0.17</b>	Ectopia auris	Ectopic ear
<b>E5.1.1.0.2.5.2</b>	Anotia	Anotia
<b>E5.3.0.0.2.0.18</b>	Synotia	Synotia
<b>E5.3.0.0.2.0.19</b>	Macrotia	Macrotia
<b>E5.1.1.0.2.5.3</b>	Microtia	Microtia
<b>E5.3.0.0.2.0.20</b>	Polyotia	Polyotia
<b>E5.3.0.0.2.0.21</b>	Otocephalia	Otocephaly
<b>E5.3.0.0.2.0.22</b>	Atresia meatus acustici externi	External acoustic meatus atresia
<b>E5.3.0.0.2.0.23</b>	Hypoplasia meatus acustici externi	External acoustic meatus hypoplasia
<b>E5.3.0.0.2.0.24</b>	Stenosis meatus acustici externi	External acoustic meatus stenosis
<b>E5.3.0.0.2.0.25</b>	Meatus acusticus externus subdivisus	Subdivided external acoustic meatus
<b>E5.3.0.0.2.0.26</b>	Appendix auricularis	Auricular appendage
<b>E5.3.0.0.2.0.27</b>	Appendix praeauricularis	Pre-auricular appendage
<b>E5.3.0.0.2.0.28</b>	Fistula auricularis	Auricular fistula
<b>E5.3.0.0.2.0.29</b>	Fossula auricularis	Auricular dimples
<b>E5.3.0.0.2.0.30</b>	Sinus praeauricularis	Pre-auricular sinus; Pre-auricular pit
<b>E5.3.0.0.2.0.31</b>	Fistula praeauricularis	Pre-auricular fistula
<b>E5.3.0.0.2.0.32</b>	Cystis praeauricularis	Pre-auricular cyst
<b>E5.3.0.0.2.0.33</b>	Lobulus auricularis bifidus; Coloboma lobuli	Bifid lobule; Cleft lobule
<b>E5.3.0.0.2.0.34</b>	Fissura facialis obliqua; Prosoposchisis	Oblique facial cleft
<b>E5.3.0.0.2.0.35</b>	Fissura mediana faciei	Median facial cleft
<b>E5.3.0.0.2.0.36</b>	Fissura transversa faciei	Transverse facial cleft; Lateral facial cleft
<b>E5.3.0.0.2.0.37</b>	Fissura mandibulae	Cleft mandible; Gnathoschisis
<b>E5.3.0.0.2.1.1</b>	<b>Syndromata pertinentia ad faciem</b>	<b>Syndromes involving face</b>
<b>E5.1.1.0.2.7.3</b>	Dysostosis craniofacialis	Craniofacial dysostosis §Crouzon§
<b>E5.1.1.0.2.7.4</b>	Dysostosis mandibulofacialis	Mandibulofacial dysostosis §Treacher-Collins§
<b>E5.3.0.0.2.1.2</b>	Dysplasia faciodigitogenitalis	Faciodigitogenital dysplasia §Aaskog-Scott§
<b>E5.3.0.0.2.1.3</b>	Dysplasia familiaris fibrosa mandibularis; Cherubismus	Familial fibrous dysplasia of jaw; Cherubism
<b>E5.3.0.0.2.1.4</b>	Dysplasia frontonasalis	Frontonasal dysplasia
<b>E5.3.0.0.2.1.5</b>	Hypertelorismus ocularis	Ocular hypertelorism §Greig/Opitz§
<b>E5.3.0.0.2.1.6</b>	Paralysis congenita abducentofacialis	Congenital abducens-facial paralysis §Möbius§
<b>E5.3.0.0.2.1.7</b>	Sequentia mandibulolinguopalatina	Mandibulolinguopalatal sequence §Robin§
<b>E5.3.0.0.2.1.8</b>	Spectrum facioauriculovertebrale	Facio-auriculovertebral spectrum §Goldenhar§
<b>E5.3.0.0.2.1.9</b>	Syndroma blepharocheilodonticum	Blepharocheilodontic syndrome [BCD]
<b>E5.3.0.0.2.1.10</b>	Syndromata arcus pharyngei primi	First pharyngeal arch syndromes
<b>E5.4.0.0.0.0.1</b>	<b>Systema digestorium</b>	<b>Alimentary system</b>
	<i>Nomina generalia</i>	<i>General terms</i>
<b>E5.4.0.0.0.0.2</b>	Primordia systematis digestorii	Primordia of alimentary system

<b>E5.4.0.0.0.0.3</b>	Endoderma vesiculae umbilicalis secundariae; Endoderma sacci vitellini secundarii	Secondary umbilical vesicle endoderm; SecondaryYolk sac endoderm
<b>E5.4.0.0.0.0.4</b>	Pars proximalis vesiculae umbilicalis secundariae; Pars proximalis sacci vitellini	Proximal part of secondary umbilical vesicle; Proximal part of secondary yolk sac
<b>E5.4.0.0.0.0.5</b>	Mesenchyma partis proximalis vesiculae umbilicalis secundariae; Mesenchyma partis proximalis sacci vitellini	Mesenchyme of proximal part of secondary umbilical vesicle; Mesenchyme of proximal part of secondary yolk sac
<b>E5.4.0.0.0.0.6</b>	Pars distalis vesiculae umbilicalis secundariae; Pars distalis sacci vitellini <sup>141</sup>	Distal part of secondary umbilical vesicle; Distal part of secondary yolk sac
<b>E5.0.2.1.0.0.4</b>	Lamina praechordalis	Prechordal plate
<b>E5.3.0.0.0.0.5</b>	Membrana oropharyngea	Oropharyngeal membrane
<b>E5.4.0.0.0.0.7</b>	Stomatodeum primordiale	Primordial stomodeum
<b>E5.4.0.0.0.0.8</b>	Primordium praeenteri; Primordium proenteri	Primordium of foregut
<b>E5.4.0.0.0.0.9</b>	Ostium rostrale enteri	Rostral intestinal portal; Anterior intestinal portal
<b>E5.4.0.0.0.0.10</b>	Primordium intestini medii	Primordium of midgut
<b>E5.4.0.0.0.0.11</b>	Ostium caudale enteri	Caudal intestinal portal; Posterior intestinal portal
<b>E5.4.0.0.0.0.12</b>	Primordium metenteri	Primordium of hindgut
<b>E5.4.0.0.0.0.13</b>	Fovea analis <sup>142</sup>	Anal pit
<b>E5.4.0.0.0.0.14</b>	Cloaca	Cloaca
<b>E5.4.0.0.0.0.15</b>	Membrana cloacalis	Cloacal membrane
<b>E5.4.0.0.0.0.16</b>	Primordium urenteri; Primordium intestini postremi; Primordium intestini caudalis	Primordium of postcloacal gut; Primordium of tailgut; Primordium of endgut
<b>E5.4.1.0.0.0.1</b>	<b>Cavitas oris</b>	<b>Oral cavity</b>
<b>E5.4.1.1.0.0.1</b>	<b>PARS VESTITA INITIALITER AB ECTODERMA SOLUM</b>	<b>PART INITIALLY COVERED BY ECTODERM ONLY</b>
<b>E5.3.0.0.0.0.4</b>	Stomodeum; Stomatodeum	Stomodeum
<b>E5.4.1.1.1.0.1</b>	<b>Vestibulum oris</b>	<b>Oral vestibule</b>
<b>E5.4.1.1.1.0.2</b>	Taenia epithelialis primaria	Primary epithelial band
<b>E5.4.1.1.1.0.3</b>	Lamina dentalis	Dental lamina
<b>E5.3.0.0.1.0.2</b>	Lamina labiokingivalis	Vestibular lamina; Labiokingival lamina
<b>E5.4.1.1.1.0.4</b>	Sulcus labiokingivalis	Vestibular sulcus; Labiokingival sulcus
<b>E5.4.1.1.1.0.5</b>	Vestibulum	Vestibule
<b>E5.4.1.1.1.1.1</b>	<b>Glandula parotidea</b>	<b>Parotid gland</b>
<b>E5.4.1.1.1.1.2</b>	Ectoderma maxillomandibularis	Maxillomandibular ectoderm
<b>E5.4.1.1.1.1.3</b>	Lamina basalis subectodermalis	Subectodermal basal lamina
<b>E5.4.1.1.1.1.4</b>	Mesenchyma glandulae parotideae praesumptivae	Presumptive parotid mesenchyme
<b>E5.4.1.1.1.1.5</b>	Sulcus parotideus	Parotid groove
<b>E5.4.1.1.1.1.6</b>	Gemma glandulae parotideae <sup>143</sup>	Parotid gland bud
<b>E5.4.1.1.1.1.7</b>	Gemma elongata glandulae parotideae	Elongated parotid gland bud
<b>E3.0.0.6.1.0.60</b>	Morphogenesis gemmans <sup>65</sup>	Budding morphogenesis
<b>E5.4.1.1.1.1.8</b>	Acinus mucosus transiens	Transient mucous acinus
<b>E5.4.1.1.1.1.9</b>	Acinus serosus	Serous acinus
<b>E5.4.1.1.1.1.10</b>	R. primarius pediculi glandulae parotideae	Primary branch of parotid gland bud
<b>E5.4.1.1.1.1.11</b>	Ductus parotideus	Parotid duct
<b>E5.4.1.1.1.1.12</b>	Condensatio mesenchymalis glandulae parotideae	Condensation of parotid mesenchyme
<b>E5.4.1.1.1.1.13</b>	Fascia parotidea	Parotid fascia; Parotid sheath
<b>E5.3.0.0.0.0.18</b>	Primordia labiorum, buccae et gingivae	Primordia of lips, cheek and gingiva
<b>E5.3.0.0.0.0.13</b>	Prominentia maxillaris	Maxillary prominence
<b>E5.3.0.0.0.0.14</b>	Prominentia mandibularis	Mandibular prominence
<b>E5.4.1.1.1.2.1</b>	<b>Organum juxtaorale</b> <sup>144</sup>	<b>Juxta-oral organ</b>

<sup>141</sup> E5.4.0.0.0.0.6 *Pars distalis vesiculae umbilicalis secundariae; Pars distalis sacci vitellini* There are no known derivatives of the endodermal lining of this embryonic structure.

<sup>142</sup> E5.4.0.0.0.0.13 *Fovea analis* Although there is no proctodeal depression comparable to the stomodeum, there is a slight *anal pit* over the terminal hindgut

<sup>143</sup> E5.4.1.1.1.1.6 *Gemma glandulae parotideae* See Gasser RF. The early development of the parotid gland around the facial nerve and its branches in man. *Anat Rec* 1970:167;63-78.

E5.4.1.1.1.1.2	Ectoderma maxillomandibularis	Maxillomandibular ectoderm
E5.4.1.1.1.1.3	Lamina basalis subectodermalis	Subectodermal basal lamina
E5.4.1.1.1.2.2	Primordium organi juxtaoralis	Primordium of juxta-oral organ
E5.4.1.1.1.2.3	Primordium organi juxtaoralis invaginatum	Invaginated primordium of juxta-oral organ
E5.4.1.1.1.2.4	Primordium organi juxtaoralis disiunctum	Detached primordium of juxta-oral organ
E5.4.1.1.1.2.5	Chorda juxtaoralis cum lumine	Juxta-oral cord with lumen
E5.4.1.1.1.2.6	Organum juxtaorale innervatum a nervo buccale	Juxta-oral organ innervated by buccal nerve
E5.4.1.1.1.2.7	Mesenchyma maxillomandibulare	Maxillomandibular mesenchyme
E5.4.1.1.1.2.8	Organum juxtaorale encapsulatum	Encapsulated juxta-oral organ
E5.4.1.1.1.2.9	Parenchyma axiale	Axial parenchyme
E5.4.1.1.1.2.10	Cellulae externae planae	External flat cells
E5.4.1.1.1.2.11	Cellulae internae lucidae	Internal clear cells
E5.4.1.1.2.2.1	<b>Cavitas oris propria</b>	<b>Oral cavity proper</b>
E5.4.1.1.2.2.2	Primordium adenohypophysis	Adenohypophysial primordium
E5.4.1.1.2.3.1	<b>Dens</b>	<b>Tooth</b>
E5.4.1.1.2.3.2	Odontogenesis	Tooth formation
E5.4.1.1.1.0.2	Taenia epithelialis primaria	Primary epithelial band
E5.4.1.1.1.0.3	Lamina dentalis	Dental lamina
E5.4.1.1.2.3.3	Status gemmalis odontogenesis	Bud stage of odontogenesis
E5.4.1.1.2.3.4	Status galearis odontogenesis	Cap stage of odontogenesis
E5.4.1.1.2.3.5	Organum enameleum	Enamel organ
E5.4.1.1.2.3.6	Lamina basalis enameli	Enamel basal lamina
E5.4.1.1.2.3.7	Nodus enameleus primarius	Primary enamel knot
E5.4.1.1.2.3.8	Dens unicuspidus	Unicuspid tooth
E5.4.1.1.2.3.9	Dens multicuspidus	Multicuspid tooth
E5.4.1.1.2.3.10	Nodus enameleus secundarius	Secondary enamel knot
E5.4.1.1.2.3.11	Status campanalis odontogenesis	Early bell stage of odontogenesis
E5.4.1.1.2.3.12	Epithelium enameleum externum	Outer enamel epithelium
E5.4.1.1.2.3.13	Pulpa enamelea; Reticulum stellatum	Enamel reticulum; Stellate reticulum
E5.4.1.1.2.3.14	Stratum intermedium	Stratum intermedium
E5.4.1.1.2.3.15	Epithelium enameleum internum	Inner enamel epithelium
E5.4.1.1.2.3.16	Gemma dentis subientis	Successional tooth bud
E5.4.1.1.2.3.17	Vestigium laminae dentalis	Dental laminal remnant
E5.4.1.1.2.3.18	Status serus campanalis odontogenesis	Late bell stage of odontogenesis
E5.4.1.1.2.3.19	Praeameloblastus	Pre-ameloblast
E5.4.1.1.2.3.20	Ameloblastus	Ameloblast
E5.4.1.1.2.3.21	Amelogenesis	Amelogenesis
E5.4.1.1.2.3.22	Tempus secretionis	Secretory phase
E5.4.1.1.2.3.23	Prisma enameli	Enamel prism
E5.4.1.1.2.3.24	Tempus maturationis	Maturation phase
E5.4.1.1.2.3.25	Tempus protectionis	Protective phase
E5.4.1.1.2.3.26	Vagina epithelialis radices	Epithelial root sheath
E5.4.1.1.2.3.27	Diaphragma vaginae radices	Root sheath diaphragm
E5.4.1.1.2.3.28	Porus vaginae radices	Root sheath opening
E5.4.1.1.2.3.29	Fragmentum epitheliale	Epithelial debris
E4.0.4.1.0.0.5	Ectomesenchyma; Mesenchyma cristae neuralis	Ectomesenchyme; Neural crest mesenchyme
E4.0.3.3.1.0.12	Papilla dentis	Dental papilla
E5.4.1.1.2.3.30	Pulpa dentis	Dental pulp
E4.0.3.3.1.0.13	Odontoblastus	Odontoblast
E5.4.1.1.2.3.31	Dentinogenesis	Dentinogenesis
E5.4.1.1.2.3.32	Praedentinum	Predentine <sup>▲</sup>
E5.4.1.1.2.3.33	Dentinum	Dentine <sup>▲</sup>
E5.4.1.1.2.3.34	Saccus dentis	Dental sac; Dental follicle
E5.4.1.1.2.3.35	Cellula periodontalis	Periodontal cell
E5.4.1.1.2.3.36	Cementoblastus	Cementoblast
E5.4.1.1.2.3.37	Cementogenesis	Cementogenesis

<sup>144</sup> E5.4.1.1.1.2.1 *Organum juxtaorale* The development, possible function and clinical importance of the juxta-oral organ have been described (Mérida-Velasco JR, Rodríguez-Vásquez JF, Cuadra-Blanco C, Salmerón JI, Sánchez-Montesinos I, Mérida-Velasco JA. Morphogenesis of the juxtaoral organ in humans. J Anat 2005;206;155-163).

<b>E5.4.1.1.2.3.38</b>	Cementum	Cement
<b>E5.4.1.1.2.3.39</b>	Fibroblastus periodontalis	Periodontal fibroblast
<b>E5.4.1.1.2.3.40</b>	Lig. periodontale	Periodontal ligament
<b>E4.0.4.4.0.0.4</b>	Osteoblastus	Osteoblast
<b>E5.4.1.1.2.3.41</b>	Alvelolus dentalis	Dental alveolus; Tooth socket
<b>E5.4.1.1.2.3.42</b>	Status collapsus odontogenesis	Collapsed stage of odontogenesis
<b>E5.4.1.1.2.3.43</b>	Epithelium enameleum reductum	Reduced enamel epithelium
<b>E5.4.1.1.2.3.44</b>	Cuticula enamelea primaria	Primary enamel cuticle
<b>E5.4.1.1.2.3.45</b>	Vestigia epithelii enamalei	Rests of enamel epithelium
<b>E5.4.1.1.2.3.46</b>	Eruptio dentis	Tooth eruption
<b>E5.4.1.1.2.3.47</b>	Canalis eruptionis	Eruption canal; Gubernacular canal
<b>E5.4.1.1.2.3.48</b>	Gubernaculum	Gubernaculum
<b>E5.4.1.1.2.3.49</b>	Dens deciduus	Deciduous tooth
<b>E5.4.1.1.2.3.50</b>	Dens permanens	Permanent tooth
<b>E5.4.1.1.3.0.1</b>	<b>Anomaliae dentium</b>	<b>Anomalies of teeth</b>
<b>E5.4.1.1.3.0.2</b>	Anodontia	Anodontia
<b>E5.4.1.1.3.0.3</b>	Hypodontia	Hypodontia
<b>E5.4.1.1.3.0.4</b>	Oligodontia	Oligodontia
<b>E5.4.1.1.3.0.5</b>	Polyodontia; Hyperodontia	Polyodontia; Hyperdontia
<b>E5.4.1.1.3.0.6</b>	Mesiodens	Mesiodens
<b>E5.4.1.1.3.0.7</b>	Polyphyodontia	Polyphyodontia
<b>E5.4.1.1.3.0.8</b>	Enameloma	Enameloma
<b>E5.4.1.1.3.0.9</b>	Macrodonia	Macrodonia
<b>E5.4.1.1.3.0.10</b>	Microdonia	Microdonia
<b>E5.4.1.1.3.0.11</b>	Rhizomegalia	Rhizomegaly
<b>E5.4.1.1.3.0.12</b>	Rhizomicria	Rhizomicry
<b>E5.4.1.1.3.0.13</b>	Opacitas enameli	Enamel opacity
<b>E5.4.1.1.3.0.14</b>	Extensio cervicalis enameli	Cervical enamel extension
<b>E5.4.1.1.3.0.15</b>	Concrescentia radicum	Concrescence of roots
<b>E5.4.1.1.3.0.16</b>	Conjunctio dentium	Fusion of teeth
<b>E5.4.1.1.3.0.17</b>	Germinatio radicum; Schisodontia	Schizodontia; Germinated tooth
<b>E5.4.1.1.3.0.18</b>	Dens conicalis	Conical tooth
<b>E5.4.1.1.3.0.19</b>	Dens evaginatus	Dens evaginatus
<b>E5.4.1.1.3.0.20</b>	Cuspis aquilina	Talon cusp
<b>E5.4.1.1.3.0.21</b>	Dens in dente	Dens in dente; Dens invaginatus
<b>E5.4.1.1.3.0.22</b>	Ectopia dentis	Ectopic tooth
<b>E5.4.1.1.3.0.23</b>	Transpositio dentium	Transposition of teeth
<b>E5.4.1.1.3.0.24</b>	Rotatio dentis	Rotation of tooth
<b>E5.4.1.1.3.0.25</b>	Hypoplasia enameli	Enamel hypoplasia
<b>E5.4.1.1.3.0.26</b>	Hypoplasia cementi	Cement hypoplasia
<b>E5.4.1.1.3.0.27</b>	Aplasia cementi	Cement aplasia
<b>E5.4.1.1.3.0.28</b>	Odontodysplasia regionalis	Regional odontodysplasia
<b>E5.4.1.1.3.0.29</b>	Dentinodysplasia	Dentine dysplasia <sup>▲</sup>
<b>E5.4.1.1.3.0.30</b>	Amelogenesis imperfecta	Amelogenesis imperfecta
<b>E5.4.1.1.3.0.31</b>	Dentinogenesis imperfecta	Dentinogenesis imperfecta
<b>E5.4.1.1.3.0.32</b>	Odontogenesis imperfecta	Odontogenesis imperfecta
<b>E5.4.1.1.3.1.1</b>	<b>Anomaliae eruptionis dentalis</b>	<b>Anomalies of eruption</b>
<b>E5.4.1.1.3.1.2</b>	Eruptio praecox	Premature eruption
<b>E5.4.1.1.3.1.3</b>	Dens connatalis	Natal tooth
<b>E5.4.1.1.3.1.4</b>	Dens neonatalis	Neonatal tooth
<b>E5.4.1.1.3.1.5</b>	Impactio dentis	Impacted tooth
<b>E5.4.1.1.3.1.6</b>	Reimpactio dentis	Re-impacted tooth
<b>E5.4.1.1.3.1.7</b>	Eruptio ectopica	Ectopic eruption
<b>E5.4.1.1.4.0.1</b>	<b>Cavitas oronasalis</b>	<b>Oronasal cavity</b>
<b>E5.4.1.1.4.0.2</b>	Primordia palati	Primordia of palate
<b>E5.4.1.1.4.0.3</b>	Palatum primarium; Processus palatinus medianus <sup>145</sup>	Primary palate; Median palatal process

<sup>145</sup> E5.4.1.1.4.0.3 *Processus palatinus medianus* The *median palatal process* is located in and adjacent to the midline and is the conjoined, lower (caudal) part of the medial nasal prominences. It is sometimes referred to as the intermaxillary segment because of its location between the maxillary prominences and rostral to the presumptive incisive canal. The incisive tooth buds form in the region. Historically, the region has been called the premaxilla but this usage is not recommended because of possible confusion with the premaxilla of the maxillary bone.

<b>E5.3.0.0.0.0.13</b>	Prominentia maxillaris <sup>139</sup>	Maxillary prominence
<b>E5.3.0.0.0.0.11</b>	Prominentia nasalis medialis	Medial nasal prominence
<b>E5.4.1.1.4.0.4</b>	Foramen incisivum	Incisive foramen
<b>E5.4.1.1.4.0.5</b>	Palatum secundarium; Palatum definitivum	Secondary palate; Definitive palate
<b>E5.4.1.1.4.0.6</b>	Processus palatinus secundarius; Processus palatinus lateralis	Lateral palatine process; Palatal shelf
<b>E5.4.1.1.4.0.7</b>	Lamina epithelialis mediana	Midline epithelial seam
<b>E5.4.1.1.5.0.1</b>	<b>Fissurae labiorum et palati; Cheilopalatoschises<sup>146</sup></b>	<b>Clefts of lips and palate</b>
<b>E5.4.1.1.5.0.2</b>	Cheiloschisis; Schistocheilia; Fissura labialis	Cleft lip
<b>E5.4.1.1.5.0.3</b>	Fissura unilateralis labii superioris	Unilateral cleft of upper lip
<b>E5.4.1.1.5.0.4</b>	Fissura bilateralis labii superioris	Bilateral cleft of upper lip
<b>E5.4.1.1.5.0.5</b>	Fissura mediana labii superioris	Median cleft of upper lip
<b>E5.4.1.1.5.0.6</b>	Dysostosis orodigitofacialis	Orodigitofacial dysostosis
<b>E5.4.1.1.5.0.7</b>	Fissura mediana labii inferioris	Median cleft of lower lip
<b>E5.4.1.1.5.0.8</b>	Palatum fissum; Fissura palatina	Cleft palate
<b>E5.4.1.1.5.0.9</b>	Fissura anterior obliqua palati	Anterior oblique cleft of palate
<b>E5.4.1.1.5.0.10</b>	Fissura unilateralis anterior obliqua palati	Unilateral anterior oblique cleft of palate
<b>E5.4.1.1.5.0.11</b>	Fissura bilateralis anterior obliqua palati	Bilateral anterior oblique cleft of palate
<b>E5.4.1.1.5.0.12</b>	Fissura posterior mediana palati	Posterior median cleft of palate
<b>E5.4.1.1.5.0.13</b>	Uvula bifida	Bifid uvula
<b>E5.4.1.1.5.0.14</b>	Fissura submucosa palati	Submucosal cleft of palate
<b>E5.4.1.2.0.0.1</b>	<b>PARS INITIALITER VESTITA AB ECTODERMA ET ENDODERMA</b>	<b>PART INITIALLY COVERED BY ECTODERM AND ENDODERM</b>
<b>E5.4.1.2.0.0.2</b>	<b>Lingua</b>	<b>Tongue</b>
<b>E5.4.1.2.0.0.3</b>	Primordia linguae	Tongue primordia
<b>E5.4.1.2.0.0.4</b>	Pars distalis linguae	Distal part of tongue
<b>E5.4.1.2.0.0.5</b>	Tuberculum linguale laterale	Lateral lingual swelling
<b>E5.4.1.2.0.0.6</b>	Tuberculum impar; Gemma lingualis mediana	Median lingual swelling
<b>E5.4.1.2.0.0.7</b>	Sulcus terminalis	Terminal sulcus
<b>E5.4.1.2.0.0.8</b>	Foramen caecum linguae	Foramen caecum <sup>▲</sup> of tongue
<b>E5.4.1.2.0.0.9</b>	Diverticulum thyroideum	Thyroid diverticulum
<b>E5.4.1.2.0.0.10</b>	Pars proximalis linguae	Proximal part of tongue
<b>E5.4.1.2.0.0.11</b>	Copula	Copula
<b>E5.4.1.2.0.0.12</b>	Eminentia hypopharyngea	Hypopharyngeal eminence
<b>E5.4.1.2.0.0.13</b>	Papilla filiformis	Filiform papilla
<b>E5.4.1.2.0.0.14</b>	Papilla foliata	Foliate papilla
<b>E5.4.1.2.0.0.15</b>	Papilla fungiformis	Fungiform papilla
<b>E5.4.1.2.0.0.16</b>	Papilla vallata	Vallate papilla
<b>E5.4.1.2.0.0.17</b>	Gemma gustatoria primordialis	Primordial taste bud
<b>E5.4.1.2.0.0.18</b>	Gemma gustatoria; Caliculus gustatorius	Taste bud
<b>E5.4.1.2.1.0.1</b>	<b>Anomaliae linguae</b>	<b>Anomalies of tongue</b>
<b>E5.4.1.2.1.0.2</b>	Aglossia	Aglossia
<b>E5.4.1.2.1.0.3</b>	Ankyloglossia	Ankyloglossia; Tongue-tie
<b>E5.4.1.2.1.0.4</b>	Diglossia	Bifid tongue
<b>E5.4.1.2.1.0.5</b>	Glossoschisis; Schistoglossia	Glossoschisis; Cleft tongue
<b>E5.4.1.2.1.0.6</b>	Macroglossia	Macroglossia
<b>E5.4.1.2.1.0.7</b>	Microglossia	Microglossia
<b>E5.4.1.2.1.0.8</b>	Naevus spongiosus albus mucosae lingualis	White spongy naevus <sup>▲</sup>
<b>E5.4.1.2.1.0.9</b>	Pachyglossia	Pachyglossia
<b>E5.4.1.2.1.0.10</b>	Lingua accessoria	Accessory tongue
<b>E5.4.1.2.1.0.11</b>	Lingua longa	Long tongue
<b>E5.3.0.0.2.1.7</b>	Sequentia mandibulolinguopalatina	Mandibulolinguopalatal sequence
<b>E5.4.1.2.1.0.12</b>	Tonsillae linguae heterotopicae	Heterotopic lingual tonsil
<b>E5.4.1.2.1.0.13</b>	Glossitis mediana rhomboidea	Median rhomboid glossitis

<sup>146</sup> E5.4.1.1.5.0.1 *Fissurae labiorum et palati; Cheilopalatoschises* Clefts of the gums and alveolar arches are associated with these anomalies.



<b>E5.4.1.3.0.0.1</b>	<b>PARS INITIALITER VESTITA AB ENDODERMA SOLUM</b>	<b>PART INITIALLY COVERED WITH ENDODERM ONLY</b>
<b>E5.4.1.3.0.0.2</b>	<b>Glandula submandibularis</b>	<b>Submandibular gland</b>
<b>E5.4.1.3.0.0.3</b>	Epithelium linguogingivale <sup>147</sup>	Linguogingival epithelium
<b>E5.4.1.3.0.0.4</b>	Lamina basalis linguogingivalis	Linguogingival basal lamina
<b>E5.4.1.3.0.0.5</b>	Mesenchyma glandulae submandibularis praesumptivae	Presumptive submandibular mesenchyme
<b>E5.4.1.3.0.0.6</b>	Sulcus submandibularis	Submandibular groove
<b>E5.4.1.3.0.0.7</b>	Gemma glandulae submandibularis	Submandibular gland bud
<b>E5.4.1.3.0.0.8</b>	Gemma elongata glandulae submandibularis	Elongated submandibular gland bud
<b>E3.0.0.6.1.0.60</b>	Morphogenesis gemmans <sup>65</sup>	Budding morphogenesis
<b>E3.0.0.6.1.0.61</b>	Morphogenesis ramificans <sup>66</sup>	Branching morphogenesis
<b>E3.0.0.6.1.0.62</b>	Morphogenesis findens <sup>67</sup>	Clefting morphogenesis
<b>E5.4.1.3.0.0.9</b>	R. primarius pediculi	Primary branch of bud
<b>E5.4.1.3.0.0.10</b>	R. secundarius pediculi	Secondary branch of bud
<b>E5.4.1.3.0.0.11</b>	Ductus intralobularis	Intralobular duct
<b>E5.4.1.3.0.0.12</b>	Canalisatio	Canalization
<b>E5.4.1.3.0.0.13</b>	Tubulus	Tubule
<b>E5.4.1.3.0.0.14</b>	Portio terminalis	Endpiece; Terminal portion
<b>E5.4.1.3.0.0.15</b>	Alveolus	Alveolus
<b>E5.4.1.1.1.1.9</b>	Acinus serosus	Serous acinus
<b>E5.4.1.3.0.0.16</b>	Acinus mucosus	Mucous acinus
<b>E5.4.1.3.0.0.17</b>	Acinus mixtus	Mixed acinus
<b>E5.4.1.3.0.0.9</b>	R. primarius pediculi	Primary branch of bud
<b>E5.4.1.3.0.0.18</b>	Ductus glandulae submandibularis	Submandibular duct
<b>E5.4.1.3.0.0.19</b>	Condensatio mesenchymalis glandulae submandibularis	Condensation of submandibular mesenchyme
<b>E5.4.1.3.0.0.20</b>	Capsula glandulae submandibularis	Submandibular capsule
<b>E5.4.1.3.0.0.1.1</b>	<b>Glandulae sublinguales</b> <sup>148</sup>	<b>Sublingual glands</b>
<b>E5.4.1.3.0.0.1.2</b>	Glandula sublingualis major	Major sublingual gland
<b>E5.4.1.3.0.0.1.3</b>	Glandula sublingualis minor	Minor sublingual gland
<b>E5.4.1.3.0.0.1.4</b>	Epithelium sublinguale <sup>147</sup>	Sublingual epithelium
<b>E5.4.1.3.0.0.1.5</b>	Lamina basalis sublingualis	Sublingual basal lamina
<b>E5.4.1.3.0.0.1.6</b>	Mesenchyma praesumptiva glandulae sublingualis	Presumptive mesenchyme of sublingual gland
<b>E5.4.1.3.0.0.1.7</b>	Sulcus sublingualis	Sublingual groove
<b>E5.4.1.3.0.0.1.8</b>	Gemma glandulae sublingualis	Sublingual gland bud
<b>E5.4.1.3.0.0.1.9</b>	Gemma elongata glandularum sublingualium	Elongated bud of sublingual gland
<b>E5.4.1.3.0.0.1.6</b>	Acinus mucosus	Mucous acinus
<b>E5.4.1.3.0.0.1.10</b>	Acinus seromucosus	Seromucous acinus
<b>E5.4.1.1.1.1.9</b>	Acinus serosus	Serous acinus
<b>E5.4.1.3.0.0.1.7</b>	Acinus mixtus	Mixed acinus
<b>E5.4.1.3.0.0.1.11</b>	Rr. primarii gemmae pediculorum	Primary branches of bud
<b>E5.4.1.3.0.0.1.12</b>	Ductus sublingualis major	Major sublingual duct
<b>E5.4.1.3.0.0.1.13</b>	Ductus sublinguales minores	Minor sublingual ducts
<b>E5.4.1.3.0.0.1.14</b>	Condensatio mesenchymatis glandulae sublingualis	Condensation of sublingual gland mesenchyme
<b>E5.4.1.3.0.0.1.15</b>	Capsula glandulae sublingualis majoris	Capsule of major sublingual gland
<b>E5.4.1.3.0.0.1.16</b>	Capsula incompleta glandulae sublingualis minoris	Less well-defined capsule of minor sublingual gland
<b>E5.4.1.3.1.0.1</b>	<b>Anomaliae glandularum salivarium</b>	<b>Anomalies of salivary glands</b>
<b>E5.4.1.3.1.0.2</b>	Aplasia glandulae parotideae	Aplasia of parotid gland
<b>E5.4.1.3.1.0.3</b>	Cystis congenita glandulae parotideae	Congenital cyst of parotid gland
<b>E5.4.1.3.1.0.4</b>	Fistula sialocutanea glandulae parotideae	Sialocutaneous fistula of parotid gland
<b>E5.4.1.3.1.0.5</b>	Ductus parotideus imperforatus	Imperforate parotid duct
<b>E5.4.1.3.1.0.6</b>	Glandula parotidea accessoria	Accessory parotid gland

<sup>147</sup> E5.4.1.3.0.0.3/ E5.4.1.3.0.1.4 *Epithelium linguogingivale / Epithelium sublinguale* Whether the epithelia of the submandibular and sublingual glands are of ectodermal or endodermal origin is uncertain because they arise in the linguogingival sulcus, between the ectodermal epithelium of the gingiva and the endodermal epithelium of the tongue.

<sup>148</sup> E5.4.1.3.0.0.18 *Glandulae sublinguales* This collective term includes, on each side, both a single well-encapsulated major sublingual gland and the 8-30 less well-encapsulated minor sublingual glands, each with its own duct (Schulte H. The development of the salivary glands in man. In: Huntingdon GS, Schulte H. editors. Studies in cancer and allied subjects. Vol 4. New York: Columbia Univ Press; 1913:25-72).

<b>E5.4.1.3.1.0.7</b>	Aplasia glandulae sublingualis majoris	Aplasia of major sublingual gland
<b>E5.4.1.3.1.0.8</b>	Aplasia glandularum sublingualium	Aplasia of sublingual glands
<b>E5.4.1.3.1.0.9</b>	Cystis congenita glandulae sublingualis	Congenital cyst of sublingual gland
<b>E5.4.1.3.1.0.10</b>	Ductus sublingualis major imperforatus	Imperforate major sublingual duct
<b>E5.4.1.3.1.0.11</b>	Glandula sublingualis major accessoria	Accessory major sublingual gland
<b>E5.4.1.3.1.0.12</b>	Aplasia glandulae submandibularis	Aplasia of submandibular gland
<b>E5.4.1.3.1.0.13</b>	Cystis congenita glandulae submandibularis	Congenital cyst of submandibular gland
<b>E5.4.1.3.1.0.14</b>	Ductus submandibularis imperforatus	Imperforate submandibular duct
<b>E5.4.1.3.1.0.15</b>	Ectopia glandulae submandibularis	Ectopic submandibular gland
<b>E5.4.1.3.1.0.16</b>	Glandula submandibularis accessoria	Accessory submandibular gland
<b>E5.4.2.0.0.0.1</b>	<b>Pharynx</b>	<b>Pharynx</b>
<b>E5.4.2.0.0.0.2</b>	Arcus pharyngei	Pharyngeal arch
<b>E5.4.2.0.0.0.3</b>	Sulcus pharyngei	Pharyngeal groove
<b>E5.4.2.0.0.0.4</b>	Membrana pharyngea	Pharyngeal membrane
<b>E5.4.2.0.0.1.1</b>	<b>Sacci pharyngei</b>	<b>Pharyngeal pouches</b>
<b>E5.4.2.0.0.1.2</b>	Saccus pharyngeus primus [1]	First pharyngeal pouch [1]
<b>E5.4.2.0.0.1.3</b>	Recessus tubotympanicus <sup>149</sup>	Tubotympanic recess
<b>E5.4.2.0.0.1.4</b>	Tuba auditiva; Tuba auditoria	Pharyngotympanic tube; Auditory tube
<b>E5.4.2.0.0.1.5</b>	Cavitas tympani	Tympanic cavity
<b>E5.4.2.0.0.1.6</b>	Antrum mastoideum	Mastoid antrum
<b>E5.4.2.0.0.1.7</b>	Saccus pharyngeus secundus [2]	Second pharyngeal pouch [2]
<b>E5.4.2.0.0.1.8</b>	Fissura tonsillaris; Fissura intratonsillaris	Tonsillar cleft; Intratonsillar cleft
<b>E5.4.2.0.0.1.9</b>	Cryptae tonsillae	Tonsillar crypts
<b>E5.4.2.0.0.1.10</b>	Saccus pharyngeus tertius [3]	Third pharyngeal pouch [3]
<b>E5.4.2.0.0.1.11</b>	Pars dorsalis sacci pharyngei tertii	Dorsal part of third pharyngeal pouch
<b>E5.4.2.0.0.1.12</b>	Gemma parathyroidea inferior; Gemma parathyroidea sacci tertii	Inferior parathyroid bud; Parathyroid bud from pouch 3
<b>E5.4.2.0.0.1.13</b>	Pars ventralis sacci pharyngei tertii	Ventral part of third pharyngeal pouch
<b>E5.4.2.0.0.1.14</b>	Gemma thymica <sup>150</sup>	Thymic bud
<b>E5.4.2.0.0.1.15</b>	Epithelium reticulare thymi	Reticular epithelium of thymus
<b>E5.4.2.0.0.1.16</b>	Epithelium ductus medullaris thymi	Medullary duct epithelium of thymus
<b>E5.4.2.0.0.1.17</b>	Saccus pharyngeus quartus [4]	Fourth pharyngeal pouch [4]
<b>E5.4.2.0.0.1.18</b>	Pars dorsalis sacci pharyngei quarti	Dorsal part of fourth pharyngeal pouch
<b>E5.4.2.0.0.1.19</b>	Gemma parathyroidea superior; Gemma parathyroidea a quarto sacco	Superior parathyroid bud; Parathyroid bud from pouch 4
<b>E5.4.2.0.0.1.20</b>	Pars ventralis sacci pharyngei quarti	Ventral part of fourth pharyngeal pouch
<b>E5.4.2.0.0.1.21</b>	Corpus ultimopharyngeum	Ultimopharyngeal body
<b>E5.4.1.2.0.0.9</b>	Diverticulum thyroideum	Thyroid diverticulum
<b>E5.4.1.2.0.0.8</b>	Foramen caecum linguae	Foramen caecum <sup>▲</sup> of tongue
<b>E5.4.2.0.0.1.22</b>	Ductus thyroglossus	Thyroglossal duct
<b>E4.0.3.5.0.3.21</b>	Glandula thyroidea	Thyroid gland
<b>E5.4.2.0.1.0.1</b>	<b>Anomaliae pharyngis</b>	<b>Anomalies of pharynx</b>
<b>E5.4.2.0.1.0.2</b>	Membrana oropharyngea persistens	Persistent oropharyngeal membrane
<b>E5.4.2.0.1.0.3</b>	Atresia oropharyngea	Oropharyngeal atresia
<b>E5.4.2.0.1.0.4</b>	Atresia nasopharyngea	Nasopharyngeal atresia
<b>E5.4.2.0.1.0.5</b>	Residua saccorum et sulcorum pharyngeorum	Remnants of pharyngeal pouches and grooves
<b>E5.4.2.0.1.0.6</b>	Cystis cervicalis <sup>151</sup>	Cervical cyst
<b>E5.4.2.0.1.0.7</b>	Fistula cervicalis <sup>151</sup>	Cervical fistula
<b>E5.4.2.0.1.0.8</b>	Sinus pharyngeus internus	Internal pharyngeal sinus
<b>E5.4.2.0.1.0.9</b>	Sinus pharyngeus externus	External pharyngeal sinus
<b>E5.4.2.0.1.0.10</b>	Diverticulum pharyngeum	Pharyngeal diverticulum

<sup>149</sup> E5.4.2.0.0.1.3 *Recessus tubotympanicus* As the first pharyngeal pouch is probably no longer distinguishable when the *tubotympanic recess* grows out from the oropharynx, there is uncertainty about the pouch of origin of the recess.

<sup>150</sup> E5.4.2.0.0.1.14 *Gemma thymica* Most of the thymic epithelium, including its medullary cytotreticulum (epithelio-reticular cells types IV to VI), is derived from the endoderm of the ventral part of the third pharyngeal pouch but its cortical cytotreticulum (epithelio-reticular cells types I to III) is derived from the ectoderm of the third pharyngeal groove.

<sup>151</sup> E5.4.2.0.1.0.6/ E5.4.2.0.1.0.7 *Cystis cervicalis*; *Fistula cervicalis* The term *cervical* is preferred to pharyngeal for these defects since it refers to their definitive location rather than to their supposed origin. Many cervical lesions are acquired rather than congenital and originate in the lympho-epithelial system rather than the pharyngeal arch system.

<b>E5.4.2.0.1.0.11</b>	Aplasia thymoparathyroidea	Thymoparathyroid aplasia
<b>E5.4.3.0.0.0.1</b>	<b>Canalis digestorius; Canalis oesophagogastrintestinalis</b> <sup>152</sup>	<b>Alimentary canal</b>
<b>E5.4.3.0.0.1.1</b>	<b>Pars interna endodermalis</b> {vide infra}	<b>Endodermal lining</b> {see below}
<b>E5.4.3.0.0.2.1</b>	<b>Pars externa mesenchyma pericanale</b>	<b>Surrounding mesenchyme</b>
<b>E5.4.3.0.0.2.2</b>	Irruptio a cellulis cristae neuralis	Invasion by neural crest cells
<b>E5.4.3.0.0.2.3</b>	Cellula interstitialis stimulans	Interstitial cell; Pacemaker cell
<b>E4.0.3.5.0.2.12</b>	Plexus nervosus myentericus	Myenteric plexus
<b>E4.0.3.5.0.2.13</b>	Plexus nervosus submucosus externus	Outer submucous plexus
<b>E4.0.3.5.0.2.14</b>	Plexus nervosus submucosus internus	Inner submucous plexus
<b>E5.4.3.0.0.2.4</b>	Papillae mesenchymales	Mesenchymal papillae
<b>E5.4.3.0.0.2.5</b>	Textus muscularis levis	Smooth muscle tissue
<b>E5.4.3.0.0.2.6</b>	Stratum circulare tunicae muscularis	Circular muscle layer
<b>E5.4.3.0.0.2.7</b>	Stratum longitudinale tunicae muscularis	Longitudinal muscle layer
<b>E5.4.3.0.0.2.8</b>	Lamina muscularis mucosae	Muscularis mucosae
<b>E5.4.3.0.0.2.9</b>	Lamina propria mucosae	Lamina propria
<b>E5.4.3.0.0.2.10</b>	Tela submucosa	Submucous coat
<b>E5.4.3.0.0.2.11</b>	Tunica adventitia	Adventitial layer; Adventitial coat
<b>E5.4.4.0.0.0.1</b>	<b>Oesophagus</b>	<b>Oesophagus</b> <sup>▲</sup>
<b>E5.4.4.0.0.0.2</b>	Praeenteron; Proenteron	Foregut
<b>E5.4.4.0.0.0.3</b>	Primordium oesophagei	Primordium of oesophagus <sup>▲</sup>
<b>E5.4.4.0.0.0.4</b>	Epithelium endodermale	Endodermal epithelium
<b>E5.4.4.0.0.0.5</b>	Epithelium simplex columnare	Simple columnar epithelium
<b>E5.4.4.0.0.0.6</b>	Cellula non ciliata	Nonciliated cell
<b>E5.4.4.0.0.0.7</b>	Epithelium stratificatum columnare	Stratified columnar epithelium
<b>E5.4.4.0.0.0.6</b>	Cellula non ciliata	Nonciliated cell
<b>E5.4.4.0.0.0.8</b>	Cellula ciliata	Ciliated cell
<b>E5.4.4.0.0.0.9</b>	Cellula clara cum glycogeno	Clear glycogen-containing cell
<b>E5.4.4.0.0.0.10</b>	Epithelium pseudostratificatum columnare	Pseudostratified columnar epithelium
<b>E5.4.4.0.0.0.6</b>	Cellula non ciliata	Nonciliated cell
<b>E5.4.4.0.0.0.8</b>	Cellula ciliata	Ciliated cell
<b>E5.4.4.0.0.0.9</b>	Cellula clara cum glycogeno	Clear glycogen-containing cell
<b>E5.4.4.0.0.0.11</b>	Vacuola epithelialis	Epithelial vacuole
<b>E5.4.4.0.0.0.12</b>	(Lumen oclusum)	(Occluded lumen)
<b>E4.0.4.1.0.0.4</b>	<b>Mesenchyma splanchnopleurale</b> <sup>207</sup>	<b>Splanchnopleuric mesenchyme</b>
<b>E5.4.4.0.0.1.1</b>	Mesoesophagus dorsalis fugax	Transient dorsal meso-oesophagus <sup>▲</sup>
<b>E5.4.4.0.0.1.2</b>	Mesoesophagus ventralis fugax	Transient ventral meso-oesophagus <sup>▲</sup>
<b>E5.4.4.0.0.2.1</b>	<b>Tertiarium superius oesophagi</b>	<b>Cranial third of oesophagus</b> <sup>▲</sup>
<b>E5.4.4.0.0.2.2</b>	Irruptio a myoblastis somiticis	Invasion by somitic myoblasts
<b>E5.4.4.0.0.2.3</b>	Textus muscularis striatus visceralis non cardiacus	Noncardiac visceral striated muscle tissue
<b>E5.4.3.0.0.2.6</b>	Stratum circulare tunicae muscularis	Circular muscle layer
<b>E5.4.3.0.0.2.7</b>	Stratum longitudinale tunicae muscularis	Longitudinal muscle layer
<b>E5.4.4.0.0.3.1</b>	<b>Tertiarium medium oesophagi</b> <sup>153</sup>	<b>Middle third of oesophagus</b> <sup>▲</sup>
<b>E5.4.4.0.0.4.1</b>	<b>Tertiarium inferius oesophagi</b>	<b>Caudal third of oesophagus</b> <sup>▲</sup>
<b>E5.4.3.0.0.2.5</b>	Textus muscularis levis	Smooth muscle tissue
<b>E5.4.3.0.0.2.6</b>	Stratum circulare tunicae muscularis	Circular muscle layer
<b>E5.4.3.0.0.2.7</b>	Stratum longitudinale tunicae muscularis	Longitudinal muscle layer
<b>E5.4.4.0.0.5.1</b>	<b>Oesophagus definitivus</b>	<b>Definitive oesophagus</b> <sup>▲</sup>
<b>E5.4.4.0.0.5.2</b>	Epithelium stratificatum squamosum non cornificatum	Nonkeratinized stratified squamous epithelium
<b>E5.4.4.0.0.5.3</b>	Glandula cardialis oesophagi	Oesophageal cardiac gland
<b>E5.4.4.0.0.5.4</b>	Glandula oesophagea propria	Oesophageal gland proper <sup>▲</sup>
<b>E5.4.3.0.0.2.11</b>	Tunica adventitia	Adventitial layer; Adventitial coat

<sup>152</sup> E5.4.3.0.0.0.1 *Canalis digestorius; Canalis oesophagogastrintestinalis* Listed here are features common to the development of the entire alimentary canal, in the order in which they appear: they are not repeated subsequently for individual organs or parts.

<sup>153</sup> E5.4.4.0.0.3.1 *Tertiarium medium oesophagi* Whereas the muscular layer of the oesophagus contains visceral striated muscle in about its upper two-thirds and its lower third contains only smooth muscle, smooth muscle is found in the circular layer of the lower part of the upper third and progressively replaces striated muscle in both the circular and then the longitudinal layer as the middle third is descended.

<b>E5.4.4.0.1.0.1</b>	<b>Anomaliae oesophagi</b>	<b>Anomalies of oesophagus</b> <sup>▲</sup>
<b>E5.4.4.0.1.0.2</b>	Brachyoesophagus	Short oesophagus <sup>▲</sup>
<b>E5.4.4.0.1.0.3</b>	Fistula tracheoesophagea	Tracheo-oesophageal fistula <sup>▲</sup>
<b>E5.4.4.0.1.0.4</b>	Stenosis oesophagi	Oesophageal stenosis <sup>▲</sup>
<b>E5.4.4.0.1.0.5</b>	Atresia oesophagi	Oesophageal atresia <sup>▲</sup>
<b>E5.4.4.0.1.0.6</b>	Duplicatio oesophagi	Oesophageal duplication <sup>▲</sup>
<b>E5.4.4.0.1.0.7</b>	Diverticulum oesophagi	Oesophageal diverticulum <sup>▲</sup>
<b>E5.4.4.0.1.0.8</b>	Cystis enterica dorsalis mediastinalis	Mediastinal dorsal enteric cyst
<b>E5.4.5.0.0.0.1</b>	<b>Gaster</b>	<b>Stomach</b>
<b>E5.4.4.0.0.0.2</b>	Praeenteron; Proenteron	Foregut
<b>E5.4.5.0.0.0.2</b>	Primordium gastris	Primordium of stomach
<b>E5.4.5.0.0.0.3</b>	Gaster fusiformis	Fusiform stomach
<b>E5.4.5.0.0.0.4</b>	Mesogastrium dorsale primordiale	Primordial dorsal mesogastrium
<b>E5.4.5.0.0.0.5</b>	Curvatura major praesumptiva	Presumptive greater curvature
<b>E5.4.5.0.0.0.6</b>	Mesogastrium ventrale primordiale	Primordial ventral mesogastrium
<b>E5.4.5.0.0.0.7</b>	Curvatura minor praesumptiva	Presumptive lesser curvature
<b>E5.4.5.0.0.0.8</b>	Pars pylorica gastris	Pyloric part of stomach
<b>E5.4.5.0.0.0.9</b>	Cardia; Pars cardialis gastris	Cardial part of stomach
<b>E5.4.5.0.0.0.10</b>	Fundus et corpus gastricus	Fundus and body of stomach
<b>E3.0.0.6.1.0.45</b>	<b>Histogenesis</b>	<b>Histogenesis; Histogeny</b>
<b>E5.4.4.0.0.0.4</b>	Epithelium endodermale	Endodermal epithelium
<b>E5.4.4.0.0.0.10</b>	Epithelium pseudostratificatum columnare	Pseudostratified columnar epithelium
<b>E5.4.5.0.1.0.1</b>	Foveola endoepithelialis gastrica	Endo-epithelial gastric pit
<b>E5.4.5.0.1.0.2</b>	Mucocytus superficialis	Superficial mucous cell
<b>E5.4.5.0.1.0.3</b>	Foveola exoepithelialis gastrica primordialis	Exo-epithelial primordial gastric pit
<b>E5.4.5.0.1.0.4</b>	Divisio foveolae gastricae primordialis	Division of primordial gastric pit
<b>E5.4.5.0.1.0.5</b>	Papilla mesenchymalis	Mesenchymal papilla
<b>E5.4.3.0.0.2.6</b>	Stratum circulare tunicae muscularis	Circular muscle layer
<b>E5.4.5.0.1.0.6</b>	Fibrae obliquae tunicae muscularis	Oblique muscle fibres
<b>E5.4.5.0.1.1.1</b>	<b>Glandula gastrica propria</b>	<b>Gastric gland proper</b>
<b>E5.4.5.0.1.0.3</b>	Foveola exoepithelialis gastrica primordialis	Exo-epithelial primordial gastric pit
<b>E5.4.5.0.1.1.2</b>	Cellula non differentiata	Undifferentiated cell
<b>E5.4.5.0.1.1.3</b>	Exocrinocytus parietalis primordialis	Primordial parietal cell
<b>E5.4.5.0.1.1.4</b>	Elongatio glandulae	Elongation of gland
<b>E5.4.5.0.1.1.5</b>	Differentiatio cellularum glandulae gastricae	Gastric gland cell differentiation
<b>E5.4.5.0.1.1.6</b>	Exocrinocytus cervicalis	Neck cell of gastric gland; Mucous neck cell
<b>E5.4.5.0.1.1.7</b>	Exocrinocytus principalis	Principal cell of gastric gland; Zymogenic cell
<b>E5.4.5.0.1.1.8</b>	Exocrinocytus parietalis	Parietal cell of gastric gland; Oxyntic cell
<b>E5.4.5.0.1.1.9</b>	Canaliculus intracellularis	Intracellular canaliculus
<b>E5.4.5.0.1.1.10</b>	Endocrinocytus gastrointestinalis	Entero-endocrine cell; Gastro-enteropancreatic cell; GEP endocrine cell
<b>E5.4.5.0.1.2.1</b>	<b>Glandula pylorica</b>	<b>Pyloric gland</b>
<b>E5.4.5.0.1.0.3</b>	Foveola exoepithelialis gastrica primordialis	Exo-epithelial primordial gastric pit
<b>E5.4.5.0.1.2.2</b>	Mucocytus glandulae pyloricae	Pyloric mucous cell
<b>E5.4.5.0.1.3.1</b>	<b>Glandula cardialis</b>	<b>Cardial gland</b>
<b>E5.4.5.0.1.0.3</b>	Foveola exoepithelialis gastrica primordialis	Exo-epithelial primordial gastric pit
<b>E5.4.5.0.1.3.2</b>	Exocrinocytus glandulae cardialis	Cardial mucous cell
<b>E5.4.5.0.1.4.1</b>	<b>Sphincter pylori</b>	<b>Pyloric sphincter</b>
<b>E5.4.5.0.2.0.1</b>	<b>Anomaliae gastris</b>	<b>Stomach anomalies</b>
<b>E5.4.5.0.2.0.2</b>	Atresia gastris	Gastric atresia
<b>E5.4.5.0.2.0.3</b>	Atresia pylori	Pyloric atresia
<b>E5.4.5.0.2.0.4</b>	Cystis gastricus	Gastric cyst
<b>E5.4.5.0.2.0.5</b>	Ectopia mucosae gastricae; Heterotopia mucosae gastricae	Ectopic gastric mucosa; Heterotopic gastric mucosa
<b>E5.4.5.0.2.0.6</b>	Gaster duplicatus	Duplication of stomach
<b>E5.4.5.0.2.0.7</b>	Cystis duplicationis	Duplication cyst
<b>E5.4.5.0.2.0.8</b>	Gaster thoracicus	Thoracic stomach
<b>E5.4.5.0.2.0.9</b>	Lumen oblitteratum	Obliterated lumen
<b>E5.4.5.0.2.0.10</b>	Microgastrica	Microgastrica
<b>E5.4.5.0.2.0.11</b>	Stenosis pylori	Pyloric stenosis

<b>E5.4.6.0.0.1</b>	<b>Duodenum</b>	<b>Duodenum</b>
<b>E5.4.6.0.0.2</b>	Pars praeenteralis duodeni	Foregut part of duodenum
<b>E5.4.6.0.0.3</b>	Pars mesenteralis duodeni <sup>154</sup>	Midgut part of duodenum
<b>E5.4.6.0.0.4</b>	Duodenum primordiale	Primordial duodenum
<b>E5.4.6.0.0.5</b>	Positio intraperitonealis <sup>155</sup>	Intraperitoneal position
<b>E5.4.6.0.0.6</b>	Mesoduodenum dorsale	Dorsal mesoduodenum
<b>E5.4.6.0.0.7</b>	Mesoduodenum ventrale	Ventral mesoduodenum
<b>E5.4.6.0.0.8</b>	Dextrorotatio duodeni	Dextrorotation of duodenum
<b>E5.4.6.0.0.9</b>	Mesoduodenum cum peritoneo parietale dorsale fusum	Mesoduodenum fused with dorsal parietal peritoneum
<b>E5.4.6.0.0.10</b>	Positio intraperitonealis duodeni proximalis	Intraperitoneal position of proximal duodenum
<b>E5.4.6.0.0.11</b>	Positio retroperitonealis partis intermediae duodeni	Retroperitoneal position of intermediate duodenum
<b>E5.4.6.0.0.12</b>	Positio intraperitonealis duodeni distalis	Intraperitoneal position of distal duodenum
<b>E5.4.6.0.0.13</b>	Ansa duodenalis	Duodenal loop
<b>E5.4.6.0.0.14</b>	Diverticulum hepaticum	Hepatic diverticulum
<b>E5.4.6.0.0.15</b>	Gemma pancreatica dorsalis	Dorsal pancreatic bud
<b>E3.0.0.6.1.0.45</b>	<b>Histogenesis</b>	<b>Histogenesis; Histogeny</b>
<b>E5.4.4.0.0.4</b>	<b>Epithelium endodermale</b>	<b>Endodermal epithelium</b>
<b>E5.4.4.0.0.5</b>	Epithelium simplex columnare	Simple columnar epithelium
<b>E5.4.4.0.0.7</b>	Epithelium stratificatum columnare	Stratified columnar epithelium
<b>E5.4.6.0.1.1.1</b>	Acervatio cellularum epithelialium	Accumulated epithelial cells
<b>E5.4.6.0.1.1.2</b>	(Lumen duodeni obturatum) <sup>156</sup>	(Obliterated duodenal lumen)
<b>E5.4.6.0.1.1.3</b>	(Vacuolae intraepitheliales)	(Intra-epithelial vacuoles)
<b>E5.4.6.0.1.1.4</b>	(Recanalisatio luminis duodeni)	(Recanalization of duodenal lumen)
<b>E5.4.6.0.1.2.1</b>	<b>Villus intestinalis</b>	<b>Intestinal villus</b>
<b>E5.4.6.0.1.2.2</b>	Villus primordialis	Primordial villus
<b>E5.4.4.0.0.10</b>	Epithelium pseudostratificatum columnare	Pseudostratified columnar epithelium
<b>E5.4.6.0.1.2.3</b>	Villus definitivus	Definitive villus
<b>E5.4.4.0.0.5</b>	Epithelium simplex columnare	Simple columnar epithelium
<b>E5.4.6.0.1.2.4</b>	Enterocytus	Enterocyte
<b>E5.4.6.0.1.2.5</b>	Exocrinocytus caliciformis	Goblet cell
<b>E5.4.3.0.0.2.9</b>	Lamina propria mucosae	Lamina propria
<b>E5.4.6.0.1.2.6</b>	Villus elongatus	Elongated villus
<b>E5.4.6.0.1.3.1</b>	<b>Crypta intestinalis; Glandula intestinalis</b>	<b>Intestinal crypt; Intestinal gland</b>
<b>E5.4.6.0.1.3.2</b>	Gemma cryptae	Crypt bud
<b>E5.4.6.0.1.3.3</b>	Lumen cryptae	Lumen of crypt
<b>E4.0.0.1.2.0.9</b>	Cellula gastrointestinalis praecursoria	Gastro-intestinal stem cell
<b>E5.4.6.0.1.2.5</b>	Exocrinocytus caliciformis	Goblet cell
<b>E5.4.6.0.1.3.4</b>	Cellula panethensis; Exocrinocytus cum granulis acidophilis	Paneth cell
<b>E5.4.5.0.1.1.10</b>	Endocrinocytus gastrointestinalis	Entero-endocrine cell; Gastro-enteropancreatic cell; GEP endocrine cell
	<i>Insignia alia</i>	<i>Other features</i>
<b>E5.4.3.0.0.2.7</b>	Stratum longitudinale tunicae muscularis	Longitudinal muscle layer
<b>E5.4.6.0.1.3.5</b>	Plica circularis	Circular fold
<b>E5.4.6.0.1.3.6</b>	Glandula submucosa duodenalis	Duodenal submucosal gland §Brunner§
<b>E5.4.6.0.1.3.7</b>	Epitheliocytus penicillatus	Brush cell; Tuft cell
<b>E5.4.6.0.1.3.8</b>	Epitheliocytus microplicatus	Microfold cell; M cell; Dome epithelial cell
<b>E5.4.3.0.0.2.8</b>	Lamina muscularis mucosae	Muscularis mucosae
<b>E5.4.6.0.1.3.9</b>	Nodus lymphoideus solitarius	Solitary lymphoid nodule
<b>E5.4.6.0.1.3.10</b>	Noduli lymphoidei aggregati <sup>157</sup>	Aggregated lymphoid nodules

<sup>154</sup> E5.4.6.0.0.3/ E5.4.9.0.1.0.1/ E5.4.9.0.1.0.12/ E5.4.9.0.1.0.13 *Pars mesenteralis duodeni/ Pars mesenteralis coli primordialis/ Pars mesenteralis coli transversa primordialis/ Pars mesenteralis coli transversa*. The neologism *mesenteralis* has been coined to refer to the mesenteron or midgut in order to avoid confusion with *mesentericus*, which refers to the mesenterium or mesentery.

<sup>155</sup> E5.4.6.0.0.5 *Positio intraperitonealis* Although not strictly so, an organ is said to be *intraperitoneal* when it is almost completely surrounded by peritoneum.

<sup>156</sup> E5.4.6.0.1.1.2 *Lumen duodeni obturatum* The *duodenal lumen* is obliterated in places due to epithelial proliferation: recanalization starts with the formation and expansion of intra-epithelial vacuoles (Patzelt V. Der Darm. In von Möllendorf W. ed. Handbuch der mikroskopischen Anatomie des Menschen. Vol 5/3. Berlin: Springer Verlag; 1932:1-448).

<b>E5.4.6.0.2.0.1</b>	<b>Anomaliae duodeni</b>	<b>Duodenal anomalies</b>
<b>E5.4.6.0.2.0.2</b>	Atresia duodeni	Duodenal atresia
<b>E5.4.6.0.2.0.3</b>	Diverticulum duodeni	Duodenal diverticulum
<b>E5.4.6.0.2.0.4</b>	Stenosis duodeni	Duodenal stenosis
<b>E5.4.7.0.0.0.1</b>	<b>Ansa umbilicalis intestini</b>	<b>Midgut loop; Umbilical intestinal loop</b>
<b>E5.4.7.0.0.0.2</b>	Mesenteron	Midgut
<b>E5.4.7.0.0.0.3</b>	Crus proximale ansae umbilicalis intestini	Proximal limb of midgut loop
<b>E5.4.7.0.0.0.4</b>	Apex ansae umbilicalis intestini	Apex of midgut loop
<b>E5.4.7.0.0.0.5</b>	Ductus omphaloentericus; Ductus vitellointestinalis	Omphalo-enteric duct; Vitello-intestinal duct; Yolk stalk
<b>E5.4.7.0.0.0.6</b>	A. mesenterica superior	Superior mesenteric artery
<b>E5.4.7.0.0.0.7</b>	Crus distale ansae umbilicalis intestini	Distal limb of midgut loop
<b>E5.4.7.0.0.0.8</b>	Elongatio ansae umbilicalis intestini	Elongation of midgut loop
<b>E5.4.7.0.0.0.9</b>	Rotatio ansae umbilicalis intestini <sup>158</sup>	Rotation of midgut loop
<b>E5.4.7.0.0.0.10</b>	Elongatio mesenteri	Elongation of mesentery
<b>E5.4.7.0.0.0.11</b>	Hernia umbilicalis physiologica	Physiological umbilical hernia
<b>E5.4.7.0.0.0.12</b>	Pars intestinalis tenuis ansae	Small intestinal part of loop
<b>E5.4.7.0.0.0.13</b>	Pars intestinalis crassa ansae	Large intestinal part of loop
<b>E5.4.7.0.0.0.14</b>	Internalisatio ansae umbilicalis	Return of midgut loop
<b>E5.2.0.3.2.0.8</b>	Occlusio parietis abdominalis anterioris	Closure of anterior abdominal wall
<b>E5.4.8.0.0.0.1</b>	<b>Jejunum et Ileum</b>	<b>Jejunum and Ileum</b>
<b>E5.4.7.0.0.0.2</b>	Mesenteron	Midgut
<b>E5.4.8.0.0.0.2</b>	Jejunum primordiale	Primordial jejunum
<b>E5.4.8.0.0.0.3</b>	Ileum primordiale	Primordial ileum
<b>E5.4.8.0.0.0.4</b>	Diverticulum ilei	Ileal diverticulum
<b>E5.4.7.0.0.0.8</b>	Elongatio ansae umbilicalis intestini	Elongation of midgut loop
<b>E5.4.8.0.0.0.5</b>	Jejunum definitivum	Definitive jejunum
<b>E5.4.8.0.0.0.6</b>	Ileum definitivum	Definitive ileum
<b>E5.4.6.0.0.0.5</b>	Positio intraperitonealis	Intraperitoneal position
<b>E5.4.8.0.0.0.7</b>	Mesenterium dorsale commune	Common dorsal mesentery
<b>E5.4.8.0.0.0.8</b>	Mesojejunum	Mesojejunum
<b>E5.4.8.0.0.0.9</b>	Mesoileum	Meso-ileum
<b>E3.0.0.6.1.0.45</b>	<b>Histogenesis {ut Duodenum supra}</b>	<b>Histogenesis; Histogeny {as in Duodenum above}</b>
<b>E5.4.8.0.1.0.1</b>	<b>Anomaliae jejuni et ilei</b>	<b>Anomalies of jejunum and ileum</b>
<b>E5.4.8.0.1.0.2</b>	Duplicatio intestini	Intestinal duplication
<b>E5.4.8.0.1.0.3</b>	Stenosis intestini	Intestinal stenosis
<b>E5.4.8.0.1.0.4</b>	Atresia intestini	Intestinal atresia
<b>E5.4.8.0.1.0.5</b>	Malrotatio intestini	Intestinal malrotation
<b>E5.4.8.0.1.0.6</b>	Rotatio non completa intestini	Incomplete intestinal rotation
<b>E5.4.8.0.1.0.7</b>	Caecum subhepaticum	Subhepatic caecum <sup>▲</sup>
<b>E5.4.8.0.1.0.8</b>	Hyperrotatio intestini	Intestinal hyperrotation
<b>E5.4.8.0.1.0.9</b>	Nonrotatio intestini	Intestinal nonrotation
<b>E5.4.8.0.1.0.10</b>	Inversio rotationis intestini	Reverse intestinal rotation
<b>E5.4.8.0.1.0.11</b>	Situs inversus abdominalis	Abdominal situs inversus
<b>E5.4.8.0.1.0.12</b>	Heterotaxia	Heterotaxy; Isomerism
<b>E5.4.8.0.1.0.13</b>	Colon retrojejunale	Retrojejunal colon
<b>E5.4.8.0.1.0.14</b>	Vestigium ductus omphaloenterici; Vestigium ductus vitellointestinalis	Omphalo-enteric duct vestige; Vitello-intestinal duct vestige
<b>E5.4.8.0.0.0.4</b>	Diverticulum ilei	Ileal diverticulum
<b>E5.4.8.0.1.0.15</b>	Chorda fibrosa vestigii ductus omphaloenterici; Chorda fibrosa vestigii ductus vitellointestinalis	Fibrous band of omphalo-enteric duct vestige; Fibrous band of vitello-intestinal duct vestige

<sup>157</sup> E5.4.6.0.1.3.10 *Noduli lymphoidei aggregati* The term *aggregated lymphoid nodules* is shorthand for the localized, persistent, macroscopic, subepithelial aggregations of coalescent lymphoid nodules, which not only penetrate the submucosa but also are visible from the serosal aspect of the small intestine.

<sup>158</sup> E5.4.7.0.0.0.9 *Rotatio ansae umbilicalis* Although not entirely appropriate, the commonly-used word *rotation* is retained. The process is one of differential growth of the developing organs, of which one result is 'rotation'.

<b>E5.4.8.0.1.0.16</b>	Fistula umbilicalis faecalis	Umbilical faecal fistula
<b>E5.4.8.0.1.0.17</b>	Volvulus congenitus	Congenital volvulus
<b>E5.4.8.0.1.0.18</b>	Intussusceptio congenita	Congenital intussusception
<b>E5.4.8.0.1.0.19</b>	Nonfixatio viscerum	Nonfixation of viscera
<b>E5.4.8.0.1.0.20</b>	Absentia systematis nervosi enterici post duodenalis	Absence of postduodenal enteric nervous system
<b>E5.4.8.0.1.0.21</b>	Recessus peritoneales anomalii	Abnormal peritoneal recesses
<b>E5.4.9.0.0.0.1</b>	<b>Intestinum crassum</b>	<b>Large intestine</b>
<b>E5.4.7.0.0.0.2</b>	<b>Mesenteron</b>	<b>Midgut</b>
<b>E5.4.9.0.1.0.1</b>	Pars mesenteralis coli primordialis <sup>154</sup>	Midgut part of primordial colon
<b>E5.4.8.0.0.0.7</b>	Mesenterium dorsale commune	Common dorsal mesentery
<b>E5.4.9.0.1.0.2</b>	Mesocolon commune	Common mesocolon
<b>E5.4.9.0.1.0.3</b>	Colon primordiale	Primordial colon
<b>E5.4.9.0.1.0.4</b>	Caecum primordiale	Primordial caecum <sup>▲</sup>
<b>E5.4.9.0.1.0.5</b>	Primordium appendicis vermiformis	Primordium of appendix
<b>E5.4.9.0.1.0.6</b>	Bulla caecalis	Caecal swelling <sup>▲</sup>
<b>E5.4.9.0.1.0.7</b>	Caecum	Caecum <sup>▲</sup>
<b>E5.4.9.0.1.0.8</b>	Appendix vermiformis	Appendix; Vermiform appendix
<b>E5.4.9.0.1.0.9</b>	Colon ascendens primordiale	Primordial ascending colon
<b>E5.4.9.0.1.0.10</b>	Colon ascendens	Ascending colon
<b>E5.4.9.0.1.0.11</b>	Defectio mesocoli ascendentis	Disappearance of ascending mesocolon
<b>E5.4.9.0.1.0.12</b>	Pars mesenteralis coli transversi primordialis <sup>154</sup>	Midgut part of primordial transverse colon
<b>E5.4.9.0.1.0.13</b>	Pars mesenteralis coli transversi <sup>154</sup>	Midgut part of transverse colon
<b>E5.4.9.0.1.0.14</b>	Mesocolon transversum	Transverse mesocolon
<b>E5.4.9.0.2.0.1</b>	<b>Metenteron</b>	<b>Hindgut</b>
<b>E5.4.9.0.2.0.2</b>	Pars metenteralis coli primordialis	Hindgut part of primordial colon
<b>E5.4.8.0.0.0.7</b>	Mesenterium dorsale commune	Common dorsal mesentery
<b>E5.4.9.0.1.0.2</b>	Mesocolon commune	Common mesocolon
<b>E5.4.9.0.2.0.3</b>	Pars metenteralis coli transversi primordialis	Hindgut part of primordial transverse colon
<b>E5.4.9.0.2.0.4</b>	Pars metenteralis coli transversi	Hindgut part of transverse colon
<b>E5.4.9.0.2.0.5</b>	Colon descendens primordiale	Primordial descending colon
<b>E5.4.9.0.2.0.6</b>	Colon descendens	Descending colon
<b>E5.4.9.0.2.0.7</b>	Colon sigmoideum primordiale	Primordial sigmoid colon
<b>E5.4.9.0.2.0.8</b>	Defectio mesocoli descendentis	Disappearance of descending mesocolon
<b>E5.4.9.0.2.0.9</b>	Colon sigmoideum	Sigmoid colon
<b>E5.4.9.0.2.0.10</b>	Mesocolon sigmoideum	Sigmoid mesocolon
<b>E5.4.9.0.2.0.11</b>	Rectum primordiale	Primordial rectum
<b>E5.4.9.0.2.0.12</b>	Rectum	Rectum
<b>E5.4.9.0.2.0.13</b>	Mesorectum	Mesorectum
<b>E5.4.9.0.2.0.14</b>	Septum urorectale	Urorectal septum
<b>E3.0.0.6.1.0.45</b>	<b>Histogenesis</b>	<b>Histogenesis; Histogeny</b>
<b>E5.4.4.0.0.0.4</b>	Epithelium endodermale	Endodermal epithelium
<b>E5.4.4.0.0.0.7</b>	Epithelium stratificatum columnare	Stratified columnar epithelium
<b>E5.4.9.0.3.0.1</b>	Proliferatio inlocalis cellularum epithelialium	Localized proliferation of epithelial cells
<b>E5.4.9.0.3.0.2</b>	Plicatio epithelialis	Epithelial fold formation
<b>E5.4.9.0.3.0.3</b>	Plica epithelialis longitudinalis	Longitudinal epithelial fold
<b>E5.4.9.0.3.0.4</b>	Lumen secundarium intraepitheliale	Secondary lumen
<b>E5.4.9.0.3.0.5</b>	Colonocytus primordialis	Primordial colonocyte
<b>E5.4.6.0.1.2.5</b>	Exocrinocytus caliciformis	Goblet cell
<b>E5.4.9.0.3.0.6</b>	Crypta intraepithelialis	Intra-epithelial crypt
<b>E5.4.9.0.3.0.5</b>	Colonocytus primordialis	Primordial colonocyte
<b>E5.4.9.0.3.0.7</b>	Villus transiens intestini crassi	Transient villus of large intestine
<b>E5.4.9.0.3.0.8</b>	Crypta extraepithelialis	Extra-epithelial crypt
<b>E5.4.9.0.3.0.5</b>	Colonocytus primordialis	Primordial colonocyte
<b>E5.4.6.0.1.2.5</b>	Exocrinocytus caliciformis	Goblet cell
<b>E5.4.9.0.3.0.9</b>	Divisio cryptae	Division of crypt
<b>E5.4.9.0.3.0.10</b>	Elongatio cryptae	Elongation of crypt
<b>E5.4.9.0.3.0.11</b>	Tunica mucosa definitiva intestini crassi	Definitive mucosa of large intestine
<b>E5.4.5.0.1.1.10</b>	Endocrinocytus gastrointestinalis	Entero-endocrine cell; Gastro-enteropancreatic cell; GEP endocrine cell
<b>E5.4.6.0.1.3.4</b>	(Cellula panethensis; Exocrinocytus cum granulis acidophilis)	(Paneth cell)
<b>E5.4.9.0.3.0.12</b>	Taeniae coli	Taeniae coli <sup>▲</sup>

<b>E5.4.9.0.3.0.13</b>	Haustra coli	Haustra of colon
<b>E5.4.9.0.3.0.14</b>	Plicae semilunares coli	Semilunar folds of colon
<b>E5.4.6.0.1.3.9</b>	Nodulus lymphoideus solitarius	Solitary lymphoid nodule
<b>E5.4.6.0.1.3.10</b>	Noduli lymphoidei aggregati	Aggregated lymphoid nodules
<b>E5.4.9.0.4.0.1</b>	<b>Anomaliae coli et appendicis vermiformis</b>	<b>Anomalies of colon and appendix</b>
<b>E5.4.9.0.4.0.2</b>	Aganglionosis coli	Colonic aganglionosis
<b>E5.4.9.0.4.0.3</b>	Aganglionosis coli completa	Total colonic aganglionosis
<b>E5.4.9.0.4.0.4</b>	Aganglionosis coli partialis	Partial colonic aganglionosis
<b>E5.4.9.0.4.0.5</b>	Megacolon congenitum	Congenital megacolon
<b>E5.4.9.0.4.0.6</b>	Diverticulum congenitum coli	Congenital colonic diverticulum
<b>E5.4.9.0.4.0.7</b>	Dysplasia neuralis coli	Colonic neuronal dysplasia
<b>E5.4.9.0.4.0.8</b>	Hypoganglionosis coli	Colonic hypoganglionosis; Colonic hypogangliosis
<b>E5.4.9.0.4.0.9</b>	Caecum mobile	Mobile caecum <sup>▲</sup>
<b>E5.4.9.0.4.0.10</b>	Caecum retroperitoneale	Retroperitoneal caecum <sup>▲</sup>
<b>E5.4.9.0.4.0.11</b>	Ectopia caeci	Ectopic caecum <sup>▲</sup>
<b>E5.4.8.0.1.0.4</b>	Atresia intestini	Intestinal atresia
<b>E5.4.8.0.1.0.2</b>	Duplicatio intestini	Intestinal duplication
<b>E5.4.8.0.1.0.5</b>	Malrotatio intestini	Intestinal malrotation
<b>E5.4.8.0.1.0.6</b>	Rotatio non completa intestini	Incomplete intestinal rotation
<b>E5.4.9.0.4.0.12</b>	Caecum altum	High caecum <sup>▲</sup>
<b>E5.4.8.0.1.0.7</b>	Caecum subhepaticum	Subhepatic caecum <sup>▲</sup>
<b>E5.4.8.0.1.0.8</b>	Hyperrotatio intestini	Intestinal hyperrotation
<b>E5.4.8.0.1.0.9</b>	Nonrotatio intestini	Intestinal nonrotation
<b>E5.4.8.0.1.0.10</b>	Inversio rotationis intestini	Reverse intestinal rotation
<b>E5.4.8.0.1.0.11</b>	Situs inversus abdominalis	Abdominal situs inversus
<b>E5.4.8.0.1.0.12</b>	Heterotaxia	Heterotaxy; Isomerism
<b>E5.4.8.0.1.0.13</b>	Colon retrojejuna	Retrojejunal colon
<b>E5.4.8.0.1.0.19</b>	Nonfixatio viscerum	Nonfixation of viscera
<b>E5.4.8.0.1.0.3</b>	Stenosis intestini	Intestinal stenosis
<b>E5.4.9.0.4.0.13</b>	Agenesis appendicis vermiformis	Agenesis of appendix
<b>E5.4.9.0.4.0.14</b>	Appendix vermiformis duplex	Duplication of appendix
<b>E5.4.9.0.4.0.15</b>	Appendix vermiformis triplex	Triple appendix
<b>E5.4.10.0.0.0.1</b>	<b>Canalis analis</b>	<b>Anal canal</b>
<b>E5.4.10.0.0.0.2</b>	Pars metenteralis canalis analis	Hindgut part of anal canal
<b>E4.0.4.1.0.0.4</b>	Mesenchyma splanchnopleurale <sup>207</sup>	Splanchnopleuric mesenchyme
<b>E5.4.10.0.0.0.3</b>	Myoblastus musculi sphincteris ani interni	Myoblast of internal anal sphincter
<b>E4.0.4.4.9.0.7</b>	Myocytus levis; Myocytus non striatus	Smooth muscle cell
<b>E5.4.10.0.0.0.4</b>	Pars fovealis canalis analis	Foveal part of anal canal
<b>E5.0.3.0.0.0.3</b>	Ectoderma embryonicum <sup>121</sup>	Embryonic ectoderm
<b>E4.0.4.1.0.0.3</b>	Mesenchyma somatopleurale <sup>206</sup>	Somatopleuric mesenchyme
<b>E4.0.4.1.0.0.4</b>	Mesenchyma splanchnopleurale <sup>207</sup>	Splanchnopleuric mesenchyme
<b>E5.4.4.0.0.0.4</b>	Epithelium endodermale	Endodermal epithelium
<b>E5.4.10.0.0.0.5</b>	Tuberculum anale	Anal tubercle
<b>E5.4.0.0.0.0.13</b>	Fovea analis <sup>142</sup>	Anal pit
<b>E5.4.10.0.0.0.6</b>	Pars analis membranae cloacalis; Membrana analis <sup>159</sup>	Anal part of cloacal membrane; Anal membrane
<b>E5.4.10.0.0.0.7</b>	Abruptio membranae cloacalis	Rupture of cloacal membrane
<b>E5.4.10.0.0.0.8</b>	Apertura ani	Anal opening
<b>E5.2.0.3.1.2.12</b>	Blastema musculi sphincteris ani externi	Blastema of external anal sphincter
<b>E5.4.10.0.0.0.9</b>	Myoblastus striatus	Striated myoblast
<b>E4.0.4.4.9.0.9</b>	Status multinuclearis	Multinuclear state
<b>E4.0.4.4.9.0.10</b>	Myotubus	Myotube
<b>E4.0.4.4.9.0.11</b>	Myofibra	Myofibre <sup>▲</sup>
<b>E5.4.10.0.0.0.10</b>	Occlusio canalis analis	Closure of anal canal
<b>E5.4.10.0.0.0.11</b>	Restitutio canalis analis	Restitution of anal canal
<b>E5.4.10.0.0.0.12</b>	Anus	Anus

<sup>159</sup> E5.4.10.0.0.0.6 *Pars analis membranae cloacalis* Because the urorectal septum does not reach the cloacal membrane, a separate anal membrane does not exist. After the cloacal membrane ruptures, the anorectal lumen is temporarily closed by an epithelial plug, which might previously have been interpreted as an anal membrane.



<b>E5.4.11.0.0.0.1</b>	<b>Ureteron; Pars postcloacalis intestini<sup>197</sup></b>	<b>Postcloacal gut; Tailgut; Endgut</b>
<b>E5.4.11.0.1.0.1</b>	<b>Anomaliae recti et canalis analis</b>	<b>Anomalies of rectum and anal canal</b>
<b>E5.4.11.0.1.0.2</b>	Aganglionosis rectalis	Rectal aganglionosis
<b>E5.4.11.0.1.0.3</b>	Atresia rectalis	Rectal atresia
<b>E5.4.11.0.1.0.4</b>	Fistula rectalis	Rectal fistula
<b>E5.4.11.0.1.0.5</b>	Fistula rectovaginalis	Rectovaginal fistula
<b>E5.4.11.0.1.0.6</b>	Fistula rectovesicalis	Rectovesical fistula
<b>E5.4.11.0.1.0.7</b>	Fistula rectovestibularis	Rectovestibular fistula
<b>E5.4.11.0.1.0.8</b>	Fistula rectourethralis	Recto-urethral fistula
<b>E5.4.11.0.1.0.9</b>	Stenosis rectalis	Rectal stenosis
<b>E5.4.11.0.1.0.10</b>	Anus imperforatus	Imperforate anus
<b>E5.4.11.0.1.0.11</b>	Anus tectus	Covered anus
<b>E5.4.11.0.1.0.12</b>	Fistula anocutanea	Anocutaneous fistula
<b>E5.4.11.0.1.0.13</b>	Fistula anovestibularis	Anovestibular fistula
<b>E5.4.11.0.1.0.14</b>	Atresia canalis analis	Atresia of anal canal
<b>E5.4.11.0.1.0.15</b>	Stenosis canalis analis	Stenosis of anal canal
<b>E5.4.12.0.0.0.1</b>	<b>Hepar</b>	<b>Liver</b>
<b>E5.4.12.0.0.0.2</b>	Praeenteron distale	Distal foregut
<b>E4.0.4.1.0.0.4</b>	Mesenchyma splanchnopleurale <sup>207</sup>	Splanchnopleuric mesenchyme
<b>E5.4.4.0.0.0.4</b>	Epithelium endodermale	Endodermal epithelium
<b>E5.4.12.0.0.0.3</b>	Gemma hepatopancreatica	Hepatopancreatic bud
<b>E5.4.12.0.0.0.4</b>	Ductus hepatopancreaticus	Hepatopancreatic duct
<b>E5.4.6.0.0.0.14</b>	Diverticulum hepaticum	Hepatic diverticulum
<b>E5.4.12.0.0.0.5</b>	Pars distalis diverticuli hepatici	Distal part of hepatic diverticulum
<b>E5.4.12.0.0.0.6</b>	Irruptio septi transversi	Invasion of septum transversum
<b>E5.4.12.0.0.0.7</b>	Morphogenesis ramificans partis distalis diverticuli hepatici	Branching morphogenesis of distal part of hepatic diverticulum
<b>E5.4.12.0.0.0.8</b>	Dilatatio dextra	Right dilatation
<b>E5.4.12.0.0.0.9</b>	Lobus dexter epithelialis	Epithelial right lobe
<b>E5.4.12.0.0.0.10</b>	Lobus caudatus epithelialis	Epithelial caudate lobe
<b>E5.4.12.0.0.0.11</b>	Lobus quadratus epithelialis	Epithelial quadrate lobe
<b>E5.4.12.0.0.0.12</b>	Dilatatio sinistra	Left dilatation
<b>E5.4.12.0.0.0.13</b>	Lobus sinister epithelialis	Epithelial left lobe
<b>E5.4.12.0.0.0.14</b>	Deminutio incrementi crescentiae	Slowing of growth
<b>E5.4.12.0.0.0.15</b>	Irruptio a mesenchymati	Invasion by mesenchyme
<b>E4.0.4.4.2.0.3</b>	Irruptio a vasis	Vascularization
<b>E5.4.12.0.0.0.16</b>	Vas sinusoideum hepaticum	Hepatic sinusoid; Vascular sinus
<b>E5.4.12.0.0.1.1</b>	<b>Lobulus hepaticus primordialis</b>	<b>Primordial hepatic lobule</b>
<b>E5.4.12.0.0.1.2</b>	Lamina hepatocytica primordialis	Primordial hepatocyte lamina; Primordial hepatocyte plate; Primordial hepatic trabecula
<b>E5.4.12.0.0.1.3</b>	Differentiatio laminae hepatocyticae	Hepatocyte laminal differentiation
<b>E5.4.12.0.0.1.4</b>	Lamina hepatocytica frontalis dorsalis <sup>160</sup>	Dorsal frontal hepatocyte plate
<b>E5.4.12.0.0.1.5</b>	Lamina hepatocytica frontalis ventralis	Ventral frontal hepatocyte plate
<b>E5.4.12.0.0.1.6</b>	Lamina hepatocytica sagittalis	Sagittal hepatocyte plate
<b>E5.4.12.0.0.1.7</b>	Lamina hepatocytica anastomotica	Anastomotic hepatocyte plate
<b>E5.4.12.0.0.1.8</b>	Epithelium stratificatum cuboideum	Stratified cuboidal epithelium
<b>E5.4.12.0.0.1.9</b>	Hepatoblastus	Hepatoblast
<b>E5.4.12.0.0.1.10</b>	Hepatocytus	Hepatocyte
<b>E5.4.12.0.0.1.11</b>	Canaliculus bilifer	Bile canaliculus
<b>E5.4.12.0.0.2.1</b>	<b>Formatio ductuum</b>	<b>Duct formation</b>
<b>E5.4.12.0.0.2.2</b>	Capsula epithelialis circum ramum venae portae	Epithelial capsule around branch of portal vein
<b>E5.4.12.0.0.2.3</b>	Cellula obscura	Dark cell
<b>E5.4.12.0.0.2.4</b>	Vesicula epithelialis	Epithelial vesicle
<b>E5.4.12.0.0.2.3</b>	Cellula obscura	Dark cell
<b>E5.4.12.0.0.2.5</b>	Ductulus bilifer intralobularis	Intralobular bile ductule
<b>E5.4.12.0.0.2.6</b>	Canalis bilifer	Bile canal
<b>E5.4.12.0.0.2.7</b>	Ductulus bilifer interlobularis	Interlobular bile ductule

<sup>160</sup> E5.4.12.0.0.1.4 *Lamina hepatocytica frontalis dorsalis* Differentiation results in the formation first of two *frontal plates* and then of sagittally-orientated plates between them: the ventral plate also gives rise to ventrally-projecting hepatic plates (Lipp W. Die frühe Strukturentwicklung des Leberparenchyms beim Menschen. Z Mikrosk Anat Forsch 1952;59:161-186).

<b>E5.4.12.0.0.2.8</b>	Trias hepatica	Portal triad
<b>E5.4.12.0.0.2.9</b>	Ductus hepaticus dexter	Right hepatic duct
<b>E5.4.12.0.0.2.10</b>	Ductus hepaticus sinister	Left hepatic duct
<b>E5.4.12.0.0.2.11</b>	Porta hepatis	Porta hepatis
<b>E5.4.12.0.0.2.12</b>	Ductus hepaticus communis	Common hepatic duct
<b>E5.4.12.0.0.3.1</b>	<b>Vasa hepatica</b>	<b>Hepatic vessels</b>
<b>E5.4.12.0.0.3.2</b>	A. hepatica	Hepatic artery
<b>E5.4.12.0.0.3.3</b>	V. vitellina	Vitelline vein
<b>E5.4.12.0.0.3.4</b>	V. portae	Portal vein
<b>E5.4.12.0.0.3.5</b>	V. umbilicalis sinistra	Left umbilical vein
<b>E5.4.12.0.0.3.6</b>	V. hepatica	Hepatic vein
<b>E5.4.12.0.0.3.7</b>	Ductus venosus	Ductus venosus
<b>E5.4.12.0.0.3.8</b>	Haematopoiesis transiens in hepate	Transient hepatic haematopoiesis <sup>▲</sup>
<b>E5.4.12.0.0.4.1</b>	<b>Histogenesis hepatica definitiva</b>	<b>Final hepatic histogenesis; Final hepatic histogeny</b>
<b>E5.4.12.0.0.4.2</b>	Lobulus hepaticus classicus; Lobulus hepaticus polygonalis	Classic hepatic lobule; Polygonal hepatic lobule
<b>E5.4.12.0.0.4.3</b>	V. centralis	Central vein
<b>E5.4.12.0.0.4.4</b>	Lamina hepatocytica	Hepatocyte lamina; Hepatocyte plate; Hepatic trabecula
<b>E5.4.12.0.0.4.5</b>	Epithelium bistratificatum cuboideum	Two-layered cuboidal epithelium
<b>E5.4.12.0.0.1.9</b>	Hepatoblastus	Hepatoblast
<b>E5.4.12.0.0.1.10</b>	Hepatocytus	Hepatocyte
<b>E5.4.12.0.0.1.11</b>	Canaliculus bilifer	Bile canaliculus
<b>E5.4.12.0.0.0.16</b>	<b>Vas sinusoideum hepaticum</b>	<b>Hepatic sinusoid; Vascular sinus</b>
<b>E5.4.12.0.0.5.1</b>	Endotheliocytus	Endothelial cell
<b>E5.4.12.0.0.5.2</b>	Cellula necatoria hepatica	Pit cell; Natural killer cell; NK cell
<b>E5.4.12.0.0.5.3</b>	Macrophagocytus stellatus	Stellate macrophage
<b>E5.4.12.0.0.5.4</b>	Cellula perisinusoidalis; Cellula accumulans adipem	Perisinusoidal cell; Fat storing cell
<b>E5.4.12.0.0.5.5</b>	Spatium perisinusoideum	Perisinusoidal space
<b>E5.4.12.0.1.0.1</b>	<b>Anomaliae hepatis</b>	<b>Hepatic anomalies</b>
<b>E5.4.12.0.1.0.2</b>	Agenesis hepatis	Hepatic agenesis
<b>E5.4.12.0.1.0.3</b>	Ectopia hepatis	Ectopic liver
<b>E5.4.12.0.1.0.4</b>	Ectopia textus hepatici	Ectopic liver tissue
<b>E5.4.12.0.1.0.5</b>	Fibrosis hepatis congenita	Congenital liver fibrosis
<b>E5.4.12.0.1.0.6</b>	Lobus accessorius hepatis	Accessory hepatic lobe
<b>E5.4.12.0.1.0.7</b>	Lobus accessorius dexter	Accessory right lobe
<b>E5.4.12.0.1.0.8</b>	Hepar polycysticum congenitum	Congenital polycystic liver
<b>E5.4.12.0.1.0.9</b>	Cystis hepatica solitaria congenita	Congenital solitary liver cyst
<b>E5.4.12.0.1.0.10</b>	Atresia biliaris intrahepatica	Intrahepatic biliary atresia
<b>E5.4.13.0.0.0.1</b>	<b>Ductus choledochus; Ductus biliaris</b>	<b>Bile duct</b>
<b>E5.4.13.0.0.0.2</b>	Primordium hepatocysticum; Lamina hepatica	Hepatocystic primordium; Hepatic plate
<b>E5.4.13.0.0.0.3</b>	Diverticulum hepatocysticum	Hepatocystic diverticulum
<b>E5.4.13.0.0.0.4</b>	Pars proximalis diverticuli hepatocystici	Proximal part of hepatocystic diverticulum
<b>E5.4.13.0.0.0.5</b>	Elongatio diverticuli cystici	Elongation of cystic diverticulum
<b>E5.4.13.0.0.0.6</b>	Diverticulum cysticum cystiforme	Cystiform cystic diverticulum
<b>E5.4.4.0.0.0.4</b>	<b>Epithelium endodermale</b>	<b>Endodermal epithelium</b>
<b>E5.4.4.0.0.0.5</b>	Epithelium simplex columnare	Simple columnar epithelium
<b>E5.4.13.0.0.1.1</b>	Cholangiocytus	Cholangiocyte
<b>E5.4.3.0.0.2.9</b>	Lamina propria mucosae	Lamina propria
<b>E5.4.13.0.0.1.2</b>	Glandula ductus choledochi	Gland of bile duct
<b>E5.4.13.0.0.1.3</b>	Pars intramuralis ductus choledochi	Intramural part of bile duct
<b>E5.4.13.0.0.1.4</b>	Appositio ad ductum pancreaticum	Apposition to pancreatic duct
<b>E4.0.4.1.0.0.4</b>	<b>Mesenchyma splanchnopleurale</b> <sup>207</sup>	<b>Splanchnopleuric mesenchyme</b>
<b>E5.4.13.0.0.2.1</b>	Tunica muscularis	Muscular layer; Muscular coat
<b>E5.4.13.0.0.2.2</b>	Vagina mesenchymalis communis <sup>161</sup>	Common mesenchymal sheath
<b>E5.4.13.0.0.2.3</b>	Myoblastus levis	Smooth myoblast

<sup>161</sup> E5.4.13.0.0.2.2 *Vagina mesenchymalis communis* The *mesenchymal sheath* is common to the bile and pancreatic ducts but not initially continuous with that of the duodenum.

<b>E5.4.13.0.0.2.4</b>	M. sphincter superior ductus choledochi	Superior sphincter of bile duct
<b>E5.4.13.0.0.2.5</b>	M. sphincter inferior ductus choledochi	Inferior sphincter of bile duct
<b>E5.4.13.0.0.2.6</b>	M. sphincter ampullae hepatopancreaticae; M. sphincter ampullae biliaropancreaticae	Sphincter of hepatopancreatic ampulla; Sphincter of biliaropancreatic ampulla
<b>E5.4.13.0.1.0.1</b>	<b>Anomaliae biliaires</b>	<b>Biliary anomalies</b>
<b>E5.4.13.0.1.0.2</b>	Absentia ductus choledochi; Absentia ductus biliaris	Absence of bile duct
<b>E5.4.13.0.1.0.3</b>	Absentia ductus hepatici communis	Absence of common hepatic duct
<b>E5.4.13.0.1.0.4</b>	Atresia biliaris extrahepatica	Extrahepatic biliary atresia
<b>E5.4.13.0.1.0.5</b>	Atresia ductus choledochi; Atresia ductus biliaris	Bile duct atresia
<b>E5.4.13.0.1.0.6</b>	Dilatationes congenitae intrahepaticae ductuum choledochorum	Congenital intrahepatic bile duct dilatations
<b>E5.4.13.0.1.0.7</b>	Ductus hepaticus accessorius	Accessory hepatic duct
<b>E5.4.13.0.1.0.8</b>	Hamartoma ductus choledochi	Bile duct hamartoma
<b>E5.4.13.0.1.0.9</b>	Junctura intrahepatica ductuum hepaticorum	Intrahepatic union/junction of hepatic ducts
<b>E5.4.13.0.1.0.10</b>	Junctura intrapancreatica ductuum hepaticorum	Intrapancreatic union/junction of hepatic ducts
<b>E5.4.13.0.1.0.11</b>	Stenosis ductus choledochi; Stenosis ductus biliaris	Bile duct stenosis
<b>E5.4.14.0.0.0.1</b>	<b>Vesica biliaris et ductus cysticus</b>	<b>Gallbladder and cystic duct</b>
<b>E5.4.12.0.0.0.2</b>	Praeenteron distale	Distal foregut
<b>E5.4.4.0.0.0.4</b>	Epithelium endodermale	Endodermal epithelium
<b>E4.0.4.1.0.0.4</b>	Mesenchyma splanchnopleurale <sup>207</sup>	Splanchnopleuric mesenchyme
<b>E5.4.3.0.0.2.2</b>	Irruptio a cellulis cristae neuralis	Invasion by neural crest cells
<b>E5.4.12.0.0.0.3</b>	Gemma hepatopancreatica	Hepatopancreatic bud
<b>E5.4.12.0.0.0.4</b>	Ductus hepatopancreaticus	Hepatopancreatic duct
<b>E5.4.14.0.0.0.2</b>	Diverticulum cysticum	Cystic diverticulum
<b>E5.4.14.0.0.0.3</b>	Vesica biliaris; Vesica fellea	Gallbladder
<b>E5.4.4.0.0.0.5</b>	Epithelium simplex columnare	Simple columnar epithelium
<b>E5.4.14.0.0.0.4</b>	Cholecystocytus	Cholecystocyte
<b>E5.4.6.0.1.3.7</b>	Epitheliocytus penicillatus	Brush cell; Tuft cell
<b>E5.4.3.0.0.2.9</b>	Lamina propria mucosae	Lamina propria
<b>E5.4.14.0.0.0.5</b>	Crypta mucosae	Mucosal crypt; Diverticulum
<b>E5.4.14.0.0.0.6</b>	Plicae mucosae; Rugae	Mucosal folds; Rugae
<b>E5.4.14.0.0.0.7</b>	Glandula mucosa vesicae biliaris	Mucous gland of gallbladder
<b>E5.4.13.0.0.2.1</b>	Tunica muscularis	Muscular layer; Muscular coat
<b>E5.4.14.0.0.0.8</b>	Ductus cysticus	Cystic duct
<b>E5.4.4.0.0.0.5</b>	Epithelium simplex columnare	Simple columnar epithelium
<b>E5.4.14.0.0.0.9</b>	Plica spiralis	Spiral fold
<b>E5.4.14.0.0.0.10</b>	Tunica fibromuscularis	Fibromuscular coat
<b>E5.4.14.0.1.0.1</b>	<b>Anomaliae vesicae biliaris et ductus cystici</b>	<b>Anomalies of gallbladder and cystic duct</b>
<b>E5.4.14.0.1.0.2</b>	Absentia vesicae biliaris	Absence of gallbladder
<b>E5.4.14.0.1.0.3</b>	Atresia ductus cystici	Atresia of cystic duct
<b>E5.4.14.0.1.0.4</b>	Ductus cysticus brevis	Short cystic duct
<b>E5.4.14.0.1.0.5</b>	Duplicatio vesicae biliaris	Duplication of gallbladder
<b>E5.4.14.0.1.0.6</b>	Vesica biliaris bilobata	Bilobed gallbladder
<b>E5.4.14.0.1.0.7</b>	Vesica biliaris rudimentaria	Rudimentary gallbladder
<b>E5.4.15.0.0.0.1</b>	<b>Pancreas</b>	<b>Pancreas</b>
<b>E5.4.12.0.0.0.2</b>	Praeenteron distale	Distal foregut
<b>E5.4.4.0.0.0.4</b>	Epithelium endodermale	Endodermal epithelium
<b>E4.0.4.1.0.0.4</b>	Mesenchyma splanchnopleurale <sup>207</sup>	Splanchnopleuric mesenchyme
<b>E5.4.3.0.0.2.2</b>	Irruptio a cellulis cristae neuralis	Invasion by neural crest cells
<b>E5.4.15.0.1.0.1</b>	<b>Pancreas dorsale</b>	<b>Dorsal pancreas</b>
<b>E5.4.6.0.0.0.15</b>	Gemma pancreatica dorsalis	Dorsal pancreatic bud
<b>E5.4.6.0.0.0.8</b>	Dextrorotatio duodeni	Dextrorotation of duodenum
<b>E5.4.15.0.1.0.1</b>	Pancreas dorsale	Dorsal pancreas
<b>E5.4.15.0.1.0.2</b>	Ductus pancreaticus dorsalis	Dorsal pancreatic duct
<b>E5.4.15.0.1.0.3</b>	Pars dorsalis capitis pancreatis	Dorsal part of head of pancreas
<b>E5.4.15.0.1.0.4</b>	Corpus pancreatis	Body of pancreas
<b>E5.4.15.0.1.0.5</b>	Cauda pancreatis	Tail of pancreas
<b>E5.4.15.0.2.0.1</b>	<b>Pancreas ventrale</b>	<b>Ventral pancreas</b>

<b>E5.4.12.0.0.0.3</b>	Gemma hepatopancreatica	Hepatopancreatic bud
<b>E5.4.6.0.0.0.14</b>	Diverticulum hepaticum	Hepatic diverticulum
<b>E5.4.12.0.0.0.4</b>	Ductus hepatopancreaticus	Hepatopancreatic duct
<b>E5.4.15.0.2.0.2</b>	Gemma pancreatica ventralis	Ventral pancreatic bud
<b>E5.4.15.0.2.0.3</b>	Ductus pancreaticus ventralis	Ventral pancreatic duct
<b>E5.4.15.0.2.0.1</b>	Pancreas ventrale	Ventral pancreas
<b>E5.4.15.0.2.0.4</b>	Pars ventralis capitis pancreatis	Ventral part of head of pancreas
<b>E5.4.15.0.2.0.5</b>	Processus uncinatus pancreatis	Uncinate process of pancreas
<b>E5.4.15.0.2.0.6</b>	Translatio dorsaliter pancreatis ventralis	Dorsal positional change of ventral pancreas
<b>E5.4.15.0.2.0.7</b>	Convergentia pancreatum dorsalis et ventralis	Merging of dorsal and ventral pancreases
<b>E5.4.15.0.2.0.8</b>	Anastomosis ductalis	Anastomosis of ducts
<b>E5.4.15.0.2.0.9</b>	Ductus pancreaticus accessorius	Accessory pancreatic duct
<b>E5.4.15.0.2.0.10</b>	Ductus pancreaticus	Pancreatic duct
<b>E5.4.15.0.2.0.11</b>	Positio intraperitonealis primaria pancreatis	Primary intraperitoneal position of pancreas
<b>E5.4.15.0.2.0.12</b>	Translatio dorsaliter pancreatis	Dorsal positional change of pancreas
<b>E5.4.15.0.2.0.13</b>	Conjunctio cum peritoneo parietale dorsale	Fusion with dorsal parietal peritoneum
<b>E5.4.15.0.2.0.14</b>	Positio retroperitonealis secundaria pancreatis	Secondary retroperitoneal position of pancreas
<b>E3.0.0.6.1.0.45</b>	<b>Histogenesis</b>	<b>Histogenesis; Histogeny</b>
<b>E5.4.4.0.0.0.4</b>	Epithelium endodermale	Endodermal epithelium
<b>E4.0.4.1.0.0.4</b>	Mesenchyma splanchnopleurale <sup>207</sup>	Splanchnopleuric mesenchyme
<b>E5.4.15.0.3.0.1</b>	Pars exocrina pancreatis	Exocrine pancreas
<b>E5.4.15.0.3.0.2</b>	Ductus pancreaticus primordialis	Primordial pancreatic duct
<b>E5.4.15.0.3.0.3</b>	Gemma ductalis	Ductal bud
<b>E3.0.0.6.1.0.60</b>	Morphogenesis gemmans <sup>65</sup>	Budding morphogenesis
<b>E5.4.15.0.3.0.4</b>	Lobulus pancreatis	Pancreatic lobule
<b>E5.4.15.0.3.0.5</b>	Acinus pancreatis	Pancreatic acinus
<b>E5.4.15.0.3.0.6</b>	Pancreatocytus exocrinus	Exocrine cell of pancreas
<b>E5.4.15.0.3.0.7</b>	Cellula centroacinosa	Centro-acinar cell
<b>E5.4.15.0.3.0.8</b>	Ductus intercalatus	Intercalated duct
<b>E5.4.1.3.0.0.11</b>	Ductus intralobularis	Intralobular duct
<b>E5.4.15.0.3.0.9</b>	Ductus interlobularis	Interlobular duct
<b>E5.4.15.0.3.0.10</b>	Ductus excretorius	Excretory duct
<b>E5.4.15.0.3.0.11</b>	Epitheliocytus basalis	Basal cell
<b>E5.4.15.0.3.0.12</b>	Epitheliocytus principalis	Principal cell
<b>E5.4.15.0.3.0.13</b>	Pars endocrina pancreatis	Endocrine pancreas
<b>E5.4.15.0.3.0.2</b>	Ductus pancreaticus primordialis	Primordial pancreatic duct
<b>E5.4.15.0.3.0.14</b>	Gemma endocrina	Endocrine bud
<b>E5.4.15.0.3.0.15</b>	Insula pancreatica initialis <sup>162</sup>	Early pancreatic islet
<b>E5.4.15.0.3.0.16</b>	Insula pancreatica definitiva <sup>163</sup>	Definitive pancreatic islet §Langerhans§
<b>E5.4.15.0.3.0.17</b>	Differentiatio endocrinocyt <sup>164</sup>	Endocrinocyte differentiation
<b>E5.4.15.0.3.0.18</b>	Endocrinocytus $\alpha$ ; Glucagonocytus	$\alpha$ Cell; A cell; Glucagon-secreting cell
<b>E5.4.15.0.3.0.19</b>	Endocrinocytus $\beta$ ; Insulinocytus	$\beta$ Cell; B cell; Insulin-secreting cell
<b>E5.4.15.0.3.0.20</b>	Endocrinocytus $\delta$ ; Somatostatinocytus	$\delta$ Cell; D cell; Somatostatin-secreting cell
<b>E5.4.15.0.3.0.21</b>	Endocrinocytus $\delta_1$	$\delta_1$ Cell; D1 cell; VIP cell
<b>E5.4.15.0.3.0.22</b>	Endocrinocytus EC	EC cell; Enterochromaffin cell
<b>E5.4.15.0.3.0.23</b>	Endocrinocytus G pancreaticus	Pancreatic G cell; Pancreatic gastrin cell
<b>E5.4.15.0.3.0.24</b>	Endocrinocytus PP	Pancreatic polypeptide cell; PP cell
<b>E5.4.15.0.3.0.25</b>	Endocrinocytus PYY	Peptide YY cell; PYY cell
<b>E5.4.15.0.3.0.26</b>	Endocrinocytus secretans ghrelinum	Ghrelin-secreting cell
<b>E5.4.15.0.3.0.27</b>	Gemma insulae pancreaticae	Pancreatic islet bud
<b>E5.4.15.0.3.0.28</b>	Endocrinocytus $\beta$ extrainsularis; Insulinocytus extrainsularis	Extra-insular $\beta$ cell; Extra-insular B cell; Extra-insular insulin cell
<b>E5.4.15.0.3.0.29</b>	Transformatio acinocytoendocrinalis	Acinocyto-endocrinal transformation

<sup>162</sup> E5.4.15.0.3.0.15 *Insula pancreatica initialis* At twenty weeks the organization of the endocrine cells is still not definitive:  $\beta$  cells lie in the centre and  $\alpha$ ,  $\delta$  and PP cells surround them.

<sup>163</sup> E5.4.15.0.3.0.16 *Insula pancreatica definitiva* At twenty-four weeks the organization of the endocrine cells in the islets is complete:  $\alpha$ ,  $\delta$  and PP cells lie in the center and are surrounded by  $\beta$  cells.

<sup>164</sup> E5.4.15.0.3.0.17 *Differentiatio endocrinocyt<sup>164</sup>* Endocrinocytes  $\beta$ ,  $\delta$ ,  $\alpha$ , and PP are present in that descending order of relative volume fraction at 10 weeks, (Hahn von Dorsche H. Inselorgan. 626-32 in Hinrichsen KV. Humanembryologie. Berlin: Springer-Verlag; 1990): the relative volume fraction of other endocrinocytes is not known from this reference.

<b>E5.4.15.0.4.0.1</b>	<b>Anomaliae pancreatis</b>	<b>Anomalies of pancreas</b>
<b>E5.4.15.0.4.0.2</b>	Agenesis pancreatis	Pancreatic agenesis
<b>E5.4.15.0.4.0.3</b>	Heterotopia pancreatica	Heterotopic pancreas
<b>E5.4.15.0.4.0.4</b>	Pancreas anulare	Anular pancreas
<b>E5.5.0.0.0.0.1</b>	<b>Systema respiratorium</b>	<b>Respiratory system</b>
<b>E5.5.1.0.0.0.1</b>	<b>Nasus</b>	<b>Nose</b>
<b>E5.3.0.0.0.0.8</b>	Placoda nasalis; Placoda olfactoria <sup>165</sup>	Nasal placode; Nasal disc; Olfactory placode
<b>E5.3.0.0.0.0.9</b>	Fovea nasalis	Nasal pit
<b>E5.5.1.0.0.0.2</b>	Saccus nasalis	Nasal sac
<b>E5.5.1.0.0.0.3</b>	Tunica mucosa olfactoria	Olfactory mucous membrane
<b>E5.5.1.0.0.0.4</b>	Tunica mucosa glandularis organi vomeronasalis	Glandular mucosa of vomeronasal organ
<b>E4.0.3.1.0.0.6</b>	Neuroblastus olfactorius	Olfactory neuroblast
<b>E4.0.3.1.0.0.7</b>	Neuron olfactorium immaturum	Immature olfactory neuron
<b>E5.5.1.0.0.0.5</b>	Tunica mucosa respiratoria	Respiratory mucosa
<b>E5.5.1.0.0.0.6</b>	Epithelium stratificatum squamosum non cornificatum vestibuli nasi	Nonkeratinized stratified squamous epithelium of nasal vestibule
<b>E5.5.1.0.0.0.7</b>	Epithelium stratificatum squamosum cornificatum vestibuli nasi	Keratinized stratified squamous epithelium of nasal vestibule
<b>E5.3.0.0.0.0.6</b>	Prominentia frontonasalis	Frontonasal prominence
<b>E5.3.0.0.0.0.7</b>	Prominentia frontalis	Frontal prominence
<b>E5.3.0.0.0.0.12</b>	Prominentia nasalis lateralis <sup>139</sup>	Lateral nasal prominence
<b>E5.3.0.0.0.0.11</b>	Prominentia nasalis medialis	Medial nasal prominence
<b>E5.4.1.1.4.0.1</b>	Cavitas oronasalis	Oronasal cavity
<b>E5.4.1.1.4.0.3</b>	Palatum primarium; Processus palatinus medianus	Primary palate; Median palatal process
<b>E5.5.1.0.0.0.8</b>	Cavitas nasalis primaria	Primary nasal cavity
<b>E5.3.0.0.0.0.10</b>	Pinna nasalis	Nasal fin
<b>E5.5.1.0.0.0.9</b>	Membrana oronasalis	Oronasal membrane
<b>E5.5.1.0.0.0.10</b>	Choana primaria	Primary choana
<b>E5.4.1.1.4.0.5</b>	Palatum secundarium; Palatum definitivum	Secondary palate; Definitive palate
<b>E5.5.1.0.0.0.11</b>	Cavitas nasalis	Nasal cavity
<b>E5.5.1.0.0.0.12</b>	Crista septalis	Septal ridge
<b>E5.5.1.0.0.0.13</b>	Septum nasi	Nasal septum
<b>E5.5.1.0.0.0.14</b>	Sulcus vomeronasalis	Vomeronasal groove
<b>E5.5.1.0.0.0.15</b>	Ruga conchalis	Conchal ridge
<b>E5.5.1.0.0.0.16</b>	Naris	Naris
<b>E5.5.1.0.0.0.17</b>	Choana	Choana
<b>E5.5.1.0.1.0.1</b>	<b>Tunica mucosa respiratoria sinus paranasalis</b>	<b>Respiratory mucosa of paranasal sinus</b>
<b>E5.5.1.0.1.0.2</b>	Gemma mucosae sinus maxillaris	Mucosal bud of maxillary sinus
<b>E5.5.1.0.1.0.3</b>	Sulcus sinus maxillaris	Sulcus of maxillary sinus
<b>E5.5.1.0.1.0.4</b>	Diverticulum sinus maxillaris <sup>166</sup>	Diverticulum of maxillary sinus
<b>E5.5.1.0.1.0.5</b>	Sinus maxillaris	Maxillary sinus
<b>E5.5.1.0.1.0.6</b>	Sulci cellularum ethmoidalium	Sulci of ethmoidal cells
<b>E5.5.1.0.1.0.7</b>	Diverticula cellularum ethmoidalium <sup>167</sup>	Diverticula of ethmoidal cells
<b>E5.5.1.0.1.0.8</b>	Cellulae ethmoidales	Ethmoidal cells
<b>E5.5.1.0.1.0.9</b>	Sulcus sinus sphenoidalis	Sulcus of sphenoidal sinus
<b>E5.5.1.0.1.0.10</b>	Diverticulum sinus sphenoidalis	Diverticulum of sphenoidal sinus
<b>E5.5.1.0.1.0.11</b>	Sinus sphenoidalis	Sphenoidal sinus
<b>E5.5.1.0.1.0.12</b>	Sulcus sinus frontalis	Sulcus of frontal sinus
<b>E5.5.1.0.1.0.13</b>	Diverticulum sinus frontalis	Diverticulum of frontal sinus
<b>E5.5.1.0.1.0.14</b>	Sinus frontalis	Frontal sinus

<sup>165</sup> E5.3.0.0.0.0.8 *Placoda nasalis*; *Placoda olfactoria* The term *nasal placode* is preferred as the placode gives rise to respiratory and vomeronasal as well as olfactory structures.

<sup>166</sup> E5.5.1.0.1.0.4 *Diverticulum sinus maxillaris* The *maxillary sinus* is large enough to be clinically important at birth: it grows significantly during the first 3 years of postnatal life and again from 7-18 years (Snow JB, Ballenger JJ. Eds. Ballenger's Otorhinology Head and Neck Surgery. 16<sup>th</sup> ed. Hamilton, Ontario: BC Decker Publisher; 2003).

<sup>167</sup> E5.5.1.0.1.0.7 *Diverticula cellularum ethmoidalium* At birth there are 3 or 4 *ethmoidal cells* and they are large enough to be clinically important (Snow JB, Ballenger JJ. Eds. Ballenger's Otorhinology Head and Neck Surgery. 16<sup>th</sup> ed. Hamilton, Ontario: BC Decker Publisher; 2003).

<b>E5.5.1.0.2.0.1</b>	<b>Anomaliae nasi</b> <sup>168</sup>	<b>Nasal anomalies</b>
<b>E5.5.1.0.2.0.2</b>	Atresia choanarum	Choanal atresia
<b>E5.5.1.0.2.0.3</b>	Conjunctio anomaliarum cardiacarum, genitalium et oticarum, colobomatis, atresiae choanarum atque crescentiae retardatae	CHARGE association [coloboma, heart defect, atresia of choanae, retardation of growth, genital anomaly and ear defect]
<b>E5.5.1.0.2.0.4</b>	Dyskinesiae ciliares primariae	Primary ciliary dyskinesias
<b>E5.4.2.0.0.0.1</b>	<b>Pharynx</b>	<b>Pharynx</b>
<b>E5.4.1.2.0.0.12</b>	Eminentia hypopharyngea <sup>169</sup>	Hypopharyngeal eminence
<b>E5.5.2.0.0.0.1</b>	Epiglottis	Epiglottis
<b>E5.5.2.0.0.0.2</b>	Epithelium stratificatum squamosum non cornificatum partis proximalis epiglottidis	Nonkeratinized stratified squamous epithelium of proximal epiglottis
<b>E5.5.2.0.0.0.3</b>	Tunica mucosa respiratoria partis distalis epiglottidis	Respiratory mucosa of distal epiglottis
<b>E5.5.3.0.0.0.1</b>	<b>Formatio arboris respiratoriae</b> <sup>170</sup>	<b>Formation of respiratory tree</b>
<b>E5.4.4.0.0.0.4</b>	Epithelium endodermale	Endodermal epithelium
<b>E5.5.3.0.0.0.2</b>	Sulcus laryngotrachealis	Laryngotracheal groove
<b>E5.5.3.0.0.0.3</b>	Gemma respiratoria <sup>171</sup>	Respiratory bud
<b>E4.0.4.1.0.0.4</b>	Mesenchyma splanchnopleurale <sup>207</sup>	Splanchnopleuric mesenchyme
<b>E5.5.3.0.1.0.1</b>	<b>Gradus initialis formationis</b>	<b>Initial stage of formation</b>
<b>E5.5.3.0.1.0.2</b>	Diverticulum laryngotracheale	Laryngotracheal diverticulum
<b>E5.5.3.0.1.0.3</b>	Crista tracheo-oesophagea	Tracheo-oesophageal fold <sup>▲</sup>
<b>E5.5.3.0.1.0.4</b>	Septum tracheo-oesophageum	Tracheo-oesophageal septum <sup>▲</sup>
<b>E5.5.3.0.1.0.5</b>	Tubus laryngotrachealis	Laryngotracheal tube
<b>E5.5.3.0.1.0.6</b>	Larynx	Larynx
<b>E5.5.3.0.1.0.7</b>	Primordium glottidis	Primordium of glottis
<b>E5.5.3.0.1.0.8</b>	Tuber arytenoideum	Arytenoid swelling
<b>E5.5.3.0.1.0.9</b>	Septum epitheliale laryngis <sup>172</sup>	Epithelial septum of larynx
<b>E5.5.3.0.1.0.10</b>	Lamina epithelialis laryngis	Epithelial lamina of larynx
<b>E5.5.3.0.1.0.11</b>	Cartilago arytenoidea	Arytenoid cartilage
<b>E5.4.1.2.0.0.12</b>	Eminentia hypopharyngea <sup>169</sup>	Hypopharyngeal eminence
<b>E5.5.3.0.1.0.12</b>	Condensatio mesenchymalis epiglottidis <sup>173</sup>	Mesenchymal condensation of epiglottis
<b>E5.5.3.0.1.0.13</b>	Condensatio mesenchymalis ossis hyoidei	Mesenchymal condensation of hyoid bone
<b>E5.0.2.1.4.2.10</b>	Cartilago ossis hyoidei <sup>174</sup>	Cartilage of hyoid bone
<b>E5.5.3.0.1.0.14</b>	Condensatio mesenchymalis cartilaginis cricoideae	Mesenchymal condensation of cricoid cartilage
<b>E5.5.3.0.1.0.15</b>	Cartilago cricoidea	Cricoid cartilage
<b>E5.5.3.0.1.0.16</b>	Condensationes mesenchymales cartilaginum thyroidearum	Mesenchymal condensations of thyroid cartilages
<b>E5.5.3.0.1.0.17</b>	Cartilagine laminae thyroidearum <sup>175</sup>	Cartilages of thyroid laminae
<b>E5.5.3.0.1.0.18</b>	Aditus laryngis	Laryngeal inlet
<b>E5.5.3.0.1.0.19</b>	Vestibulum laryngis <sup>176</sup>	Laryngeal vestibule
<b>E5.5.3.0.1.0.20</b>	Plica vestibuli	Vestibular fold

<sup>168</sup> E5.5.1.0.2.0.1 *Anomaliae nasi* For more see: Losee JE, Kirschner RE, Whitaker LA, Bartlett SP. Congenital nasal anomalies: a classification scheme. *Plast Reconstr Surg* 2004;113:676-689.

<sup>169</sup> E5.4.1.2.0.0.12 *Eminentia hypopharyngea* The *hypopharyngeal eminence* was formerly called the hypobranchial eminence and is not to be confused with the adult hypopharynx.

<sup>170</sup> E5.5.3.0.0.0.1 *Formatio arboris respiratoriae* The term *respiratory tree* is used to denote the postpharyngeal airways: the larynx, the trachea, the bronchi, the bronchioles, the respiratory bronchioles, the alveolar ducts, atria and saccules and the pulmonary alveoli.

<sup>171</sup> E5.5.3.0.0.0.3 *Gemma respiratoria* The term *respiratory bud* denotes the single bud from which the respiratory tree originates.

<sup>172</sup> E5.5.3.0.1.0.9 *Septum epitheliale laryngis* The *epithelial septum* is a primary structure responsible for the final configuration of the laryngotracheal groove (Sanudo JR and Domenech-Mateu JM. The laryngeal primordium and epithelial lamina: a new interpretation. *J Anat* 1990;171:207-222).

<sup>173</sup> E5.5.3.0.1.0.12 *Condensatio mesenchymalis epiglottidis* The *epiglottis* begins to chondrify during the fetal period.

<sup>174</sup> E5.0.2.1.4.2.10 *Cartilago ossis hyoidei* The *hyoid cartilage* begins to ossify during the fetal period.

<sup>175</sup> E5.5.3.0.1.0.17 *Cartilagine laminae thyroidearum* The *thyroid laminae* fuse during the fetal period.

<sup>176</sup> E5.5.3.0.1.0.19/ E5.5.3.0.1.0.22 *Vestibulum laryngis / Ventriculus laryngis* Although the subdivisions of the laryngeal cavity, the infrahyoid muscles and most of the major laryngeal muscles are established by the eighth week, some events occur during the fetal period. In addition to those listed under previous footnotes, first the vocal and then the vestibular folds develop; the ary-epiglottic, thyro-epiglottic and vocalis muscles develop; the larynx undergoes relative descent until, at birth, its lower border is at the level of C IV.

E5.5.3.0.1.0.21	Rima vestibuli	Rima vestibuli
E5.5.3.0.1.0.22	Ventriculus laryngis <sup>176</sup>	Laryngeal ventricle
E5.5.3.0.1.0.23	Plica vocalis	Vocal fold
E5.5.3.0.1.0.24	Rima glottidis; Rima vocalis	Rima glottidis
E5.5.3.0.1.0.25	Cavitas infraglottica	Infraglottic cavity
E5.5.3.0.1.0.26	Trachea	Trachea
E5.5.3.0.1.0.27	Tunica mucosa respiratoria laryngotrachealis	Laryngotracheal respiratory mucosa
E4.0.3.5.0.3.18	Neuroendocrinocytus respiratorius	Respiratory neuro-endocrine cell
E5.5.3.0.1.0.28	Glandulae laryngeales et tracheales	Laryngeal and tracheal glands
E5.5.3.0.1.0.29	Mucocytus	Mucous cell
E5.5.3.0.1.0.30	Seromucocytus	Seromucous cell
E5.5.3.0.1.0.31	Myoepitheliocytus	Myo-epithelial cell
E5.5.3.0.1.0.32	Tunica fibromusculocartilaginea laryngotrachealis	Laryngotracheal fibromusculocartilaginous layer
E5.5.3.0.1.0.33	Tunica adventitia laryngotrachealis	Laryngotracheal adventitia
E3.0.0.6.1.0.60	Morphogenesis gemmans <sup>65</sup>	Budding morphogenesis
E5.5.3.0.1.0.34	Gemma bronchialis primaria	Primary bronchial bud
E5.5.3.0.1.0.35	Gemmae bronchiales secundariae; Gemmae loborum pulmonalium	Secondary bronchial buds; Pulmonary lobar buds
E5.5.3.0.1.0.36	Gemmae bronchiales tertiariae; Gemmae segmentorum bronchopulmonalium	Tertiary bronchopulmonary buds; Bronchopulmonary segmental buds
E5.5.3.0.1.0.37	Saccus pulmonalis primordialis	Primordial lung sac
E5.5.3.0.1.0.38	Pulmo fetalis	Fetal lung
E5.5.3.0.2.0.1	<b>Tempus pseudoglandulare pulmonis</b>	<b>Pseudoglandular period of lung</b>
E5.5.3.0.2.0.2	Bronchus	Bronchus
E5.5.3.0.2.0.3	Tunica mucosa respiratoria bronchialis	Bronchial respiratory mucosa
E4.0.3.5.0.3.18	Neuroendocrinocytus respiratorius	Respiratory neuro-endocrine cell
E5.5.3.0.2.0.4	Glandula bronchialis	Bronchial gland
E5.5.3.0.1.0.29	Mucocytus	Mucous cell
E5.5.3.0.1.0.30	Seromucocytus	Seromucous cell
E5.5.3.0.1.0.31	Myoepitheliocytus	Myo-epithelial cell
E5.5.3.0.2.0.5	Bronchiolus	Bronchiole
E5.5.3.0.2.0.6	Epithelium simplex columnare ciliatum	Simple ciliated columnar epithelium
E5.5.3.0.2.0.7	Exocrinocytus bronchiolaris	Bronchiolar exocrine cell
E5.5.3.0.2.0.8	Exocrinocytus caliciformis; Mucocytus	Goblet cell; Mucous cell
E5.5.3.0.2.0.9	Bronchiolus terminalis	Terminal bronchiole
E5.5.3.0.2.0.10	Epithelium simplex cuboideum ciliatum	Simple ciliated cuboidal epithelium
E5.5.3.0.2.0.7	Exocrinocytus bronchiolaris	Bronchiolar exocrine cell
E5.5.3.0.2.0.11	Pneumocytus typi II	Type II pneumocyte
E5.5.3.0.2.0.12	Tunica fibromusculocartilaginea bronchialis	Bronchial fibromusculocartilaginous layer
E5.5.3.0.2.0.13	Tunica adventitia bronchialis	Bronchial adventitia
E5.5.3.0.3.0.1	<b>Tempus canaliculare</b>	<b>Canalicular stage</b>
E5.5.3.0.3.0.2	Acinus pulmonalis	Pulmonary acinus
E5.5.3.0.3.0.3	Bronchiolus respiratorius	Respiratory bronchiole
E5.5.3.0.2.0.10	Epithelium simplex cuboideum ciliatum	Simple ciliated cuboidal epithelium
E4.0.4.4.2.0.3	Irruptio a vasis	Vascularization
E5.5.3.0.2.0.11	Pneumocytus typi II	Type II pneumocyte
E5.5.3.0.3.0.4	Pneumocytus typi I	Type I pneumocyte
E5.5.3.0.2.0.7	Exocrinocytus bronchiolaris	Bronchiolar exocrine cell
E5.5.3.0.4.0.1	<b>Tempus sacci terminalis; Tempus sacculare</b>	<b>Terminal sac stage; Saccular stage</b>
E5.5.3.0.3.0.2	Acinus pulmonalis	Pulmonary acinus
E5.5.3.0.3.0.3	Bronchiolus respiratorius	Respiratory bronchiole
E5.5.3.0.2.0.11	Pneumocytus typi II	Type II pneumocyte
E5.5.3.0.3.0.4	Pneumocytus typi I	Type I pneumocyte
E5.5.3.0.2.0.7	Exocrinocytus bronchiolaris	Bronchiolar exocrine cell
E5.5.3.0.4.0.2	Ductus transitionalis	Transitional duct
E5.5.3.0.4.0.3	Saccus terminalis	Terminal sac
E5.5.3.0.4.0.4	Parenchyma pulmonis	Parenchyma of lung
E5.5.3.0.4.0.5	Interstitium pulmonis	Interstitium of lung
E5.5.3.0.4.0.6	Pleura visceralis	Visceral pleura
E5.5.3.0.5.0.1	<b>Tempus alveolare</b>	<b>Alveolar stage</b>
E5.5.3.0.5.0.2	Sacculus alveolaris	Alveolar saccule
E5.5.3.0.5.0.3	Ductulus alveolaris	Alveolar duct
E5.5.3.0.5.0.4	Alveolus pulmonalis	Pulmonary alveolus

<b>E5.5.3.0.2.0.11</b>	Pneumocytus typi II	Type II pneumocyte
<b>E5.5.3.0.5.0.5</b>	Surfactantum pulmonale	Pulmonary surfactant
<b>E5.5.3.0.3.0.4</b>	Pneumocytus typi I	Type I pneumocyte
<b>E5.5.3.0.6.0.1</b>	<b>Anomaliae arboris respiratoriae</b>	<b>Anomalies of respiratory tree</b>
<b>E5.5.3.0.6.1.1</b>	<b>Anomaliae laryngis</b>	<b>Laryngeal anomalies</b>
<b>E5.5.3.0.6.1.2</b>	Atresia laryngis	Atresia
<b>E5.5.3.0.6.1.3</b>	Atresia non completa laryngis	Incomplete atresia; Laryngeal web
<b>E5.5.3.0.6.1.4</b>	Cystis laryngis	Cyst
<b>E5.5.3.0.6.1.5</b>	Fissura laryngotracheoesophagea	Laryngotracheal-oesophageal cleft <sup>▲</sup>
<b>E5.5.3.0.6.2.1</b>	<b>Anomaliae tracheae</b>	<b>Tracheal anomalies</b>
<b>E5.5.3.0.6.2.2</b>	Absentia tracheae	Absence of trachea
<b>E5.5.3.0.6.2.3</b>	Diverticulum tracheale	Diverticulum of trachea; Tracheal bronchus
<b>E5.4.4.0.1.0.3</b>	Fistula tracheoesophagea	Tracheo-oesophageal fistula <sup>▲</sup>
<b>E5.5.3.0.6.2.4</b>	Segmentatio abnormalis skeleti cartilaginei trachealis	Abnormal segmentation of cartilaginous skeleton of trachea
<b>E5.5.3.0.6.2.5</b>	Stenosis tracheae	Stenosis of trachea
<b>E5.5.3.0.6.3.1</b>	<b>Anomaliae bronchorum</b>	<b>Bronchial anomalies</b>
<b>E5.5.3.0.6.3.2</b>	Atresia bronchi	Atresia of bronchus
<b>E5.5.3.0.6.3.3</b>	Bronchus eparterialis sinister	Left eparterial bronchus
<b>E5.5.3.0.6.3.4</b>	Cystis bronchogenica	Bronchogenic cyst
<b>E5.5.3.0.6.3.5</b>	Segmentatio abnormalis skeleti cartilaginei bronchi	Abnormal segmentation of cartilaginous skeleton of bronchus
<b>E5.5.3.0.6.4.1</b>	<b>Anomaliae pulmonum</b>	<b>Lung anomalies</b>
<b>E5.5.3.0.6.4.2</b>	Agenesis pulmonalis bilateralis aut unilateralis	Bilateral or unilateral pulmonary agenesis
<b>E5.5.3.0.6.4.3</b>	Aplasia pulmonalis	Pulmonary aplasia
<b>E5.5.3.0.6.4.4</b>	Hypoplasia pulmonalis non tota aut tota	Partial or total pulmonary hypoplasia
<b>E5.5.3.0.6.4.5</b>	Emphysema congenitale	Congenital emphysema
<b>E5.5.3.0.6.4.6</b>	Cystis pulmonalis	Pulmonary cyst
<b>E5.5.3.0.6.4.7</b>	Absentia fissurae pulmonis	Absence of pulmonary fissure; Fused lobes
<b>E5.5.3.0.6.4.8</b>	Fissura accessoria pulmonis	Accessory fissure
<b>E5.5.3.0.6.4.9</b>	Fistula arteriovenosa pulmonis	Arteriovenous fistula of lung
<b>E5.5.3.0.6.4.10</b>	Lobus azygos pulmonis	Azygos lobe; Lobe of azygos vein
<b>E5.5.3.0.6.4.11</b>	Lymphangiectasia cystica pulmonis	Cystic lymphangiectasia
<b>E5.5.3.0.6.4.12</b>	Pulmo accessorius	Accessory lung
<b>E5.5.3.0.6.4.13</b>	Pulmo multilobatus	Multilobed lung
<b>E5.5.3.0.6.4.14</b>	Pulmo polycysticus	Polycystic lung
<b>E5.5.3.0.6.4.15</b>	Pulmo unguiformis	Horseshoe lung
<b>E5.5.3.0.6.4.16</b>	Situs inversus thoracis	Thoracic situs inversus
<b>E5.5.3.0.6.4.17</b>	Situs inversus totus thoracis	Total thoracic situs inversus
<b>E5.5.3.0.6.4.18</b>	Situs inversus non totus thoracis	Partial thoracic situs inversus
<b>E5.4.8.0.1.0.12</b>	Heterotaxia	Heterotaxy; Isomerism
<b>E5.5.3.0.6.4.19</b>	Isomerismus dexter	Right isomerism
<b>E5.5.3.0.6.4.20</b>	Isomerismus sinister	Left isomerism
<b>E5.6.0.0.0.0.1</b>	<b>Systema urinarium</b>	<b>Urinary system</b>
<b>E5.6.0.0.0.0.2</b>	Mesenchyma intermedium <sup>177</sup>	Intermediate mesenchyme
<b>E5.6.1.0.0.0.1</b>	<b>Pronephros</b> <sup>178</sup>	<b>Pronephros</b>
<b>E5.6.1.0.0.0.2</b>	Nephrotomus	Nephrotome
<b>E5.6.1.0.0.0.3</b>	Nephrocoeloma	Nephrocoele <sup>▲</sup>
<b>E5.6.1.0.0.0.4</b>	(Glomerulus externus) <sup>179</sup>	(External glomerulus)
<b>E5.6.1.0.0.0.5</b>	(Ductus pronephricus)	(Pronephric duct)
<b>E5.6.2.0.0.0.1</b>	<b>Mesonephros</b>	<b>Mesonephros</b>

<sup>177</sup> E5.6.0.0.0.0.2 *Mesenchyma intermedium* The tissue primarily responsible for the formation of the kidneys and internal genitalia and their ducts. Experimental studies suggest that this collection of loose mesenchyme arises, not from the original cells that ingressed through the primitive streak to form mesoderm but, by differentiation from the somites and lateral plate mesoderm, between which it lies. The term *intermediate mesenchyme* is thus more appropriate than the commonly used *intermediate mesoderm*.

<sup>178</sup> E5.6.1.0.0.0.1 *Pronephros* The parts of the *pronephros* are rudimentary and do not form tubules so that it is never a functioning structure.

<sup>179</sup> E5.6.1.0.0.0.4 *Glomerulus externus* Pronephric tubules which link the pronephric duct with the intraembryonic coelom via a nephrostoma are occasionally present in human embryos (Hinrichsen KV. Humanembryologie. Berlin:Springer-Verlag; 1990).



<b>E5.6.2.0.0.2</b>	Crista mesonephrica; Plica mesonephrica	Mesonephric ridge; Mesonephric fold
<b>E5.6.2.0.0.3</b>	Chorda nephrogenica; Chorda mesonephrica <sup>180</sup>	Nephrogenic cord; Mesonephric cord
<b>E5.6.2.0.0.4</b>	Ductus mesonephricus	Mesonephric duct §Wolff§
<b>E5.6.2.0.0.5</b>	Ductus mesonephricus cum cloaca connectus	Mesonephric duct connected to cloaca
<b>E5.6.2.0.0.6</b>	Aggregatio cellularum in chordis nephrogenicis	Clustering of mesonephric cord cells
<b>E5.6.2.0.0.7</b>	Vesicula mesonephrica	Mesonephric vesicle
<b>E5.6.2.0.0.8</b>	Vesicula commaformata	Comma-shaped vesicle
<b>E5.6.2.0.0.9</b>	Vesicula piriformis	Piriform vesicle
<b>E5.6.2.0.0.10</b>	Tubulus sigmoideus	S-shaped tubule
<b>E5.6.2.1.0.0.1</b>	<b>TUBULI MESONEPHRICI</b>	<b>MESONEPHRIC TUBULES</b>
<b>E5.6.2.1.0.0.2</b>	Tubulus mesonephricus proximalis	Proximal mesonephric tubule; Secretory tubule
<b>E5.6.2.1.0.0.3</b>	Tubulus mesonephricus distalis	Distal mesonephric tubule; Collecting tubule
<b>E5.6.2.1.0.0.4</b>	Corpusculum mesonephricum	Mesonephric corpuscle
<b>E5.6.2.1.0.0.5</b>	Capsula glomeruli	Glomerular capsule
<b>E5.6.2.1.0.0.6</b>	Glomerulus mesonephricus	Mesonephric glomerulus
<b>E5.6.3.0.0.1</b>	<b>Metanephros</b>	<b>Metanephros</b>
<b>E5.6.3.1.0.0.1</b>	<b>PARS CAUDALIS DUCTUS MESONEPHRICI</b>	<b>CAUDAL END OF MESONEPHRIC DUCT</b>
<b>E5.6.3.1.0.0.2</b>	Gemma ureterica; Diverticulum metanephricum <sup>181</sup>	Ureteric bud; Metanephric diverticulum
<b>E5.6.3.1.1.0.1</b>	<b>Ureter</b>	<b>Ureter</b>
<b>E5.6.3.1.1.0.2</b>	Occlusio luminis ureteri	Occluded ureteric lumen
<b>E5.6.3.1.1.0.3</b>	Recanalisatio luminis ureteri	Recanalised ureteric lumen
<b>E5.6.3.1.2.0.1</b>	<b>Pelvis renalis</b>	<b>Renal pelvis</b>
<b>E5.6.3.1.2.0.2</b>	Ampulla ureterica <sup>182</sup>	Ureteric ampulla
<b>E5.6.3.1.2.0.3</b>	Ramificatio primi ordinis symmetrica	Symmetrical first branching
<b>E5.6.3.1.2.0.4</b>	R. inferior	Inferior branch
<b>E5.6.3.1.2.0.5</b>	R. superior	Superior branch
<b>E5.6.3.1.2.0.6</b>	Ramificatio ulterior asymmetrica	Asymmetrical subsequent branching
<b>E5.6.3.1.2.0.7</b>	R. brevis	Short branch
<b>E5.6.3.1.2.0.8</b>	Ductus interpolaris <sup>183</sup>	Interpolar duct
<b>E5.6.3.1.2.0.9</b>	Propelvis interpolaris	Interpolar propelvis
<b>E5.6.3.1.2.0.10</b>	R. longus	Long branch
<b>E5.6.3.1.2.0.11</b>	Ductus polaris superior <sup>183</sup>	Superior polar duct.
<b>E5.6.3.1.2.0.12</b>	Propelvis polaris superior	Superior polar propelvis
<b>E5.6.3.1.2.0.13</b>	Ductus polaris inferior <sup>183</sup>	Inferior polar duct
<b>E5.6.3.1.2.0.14</b>	Propelvis polaris inferior	Inferior polar propelvis
<b>E5.6.3.1.2.0.15</b>	Conjunctio propelvium	Fusion of propelvises
<b>E5.6.3.1.2.0.1</b>	Pelvis renalis	Renal pelvis
<b>E5.6.3.1.2.0.16</b>	Typus dendriticus pelvis renalis	Dendritic type of renal pelvis
<b>E5.6.3.1.2.0.17</b>	(Typus ampullaris pelvis renalis)	(Ampullary type of renal pelvis)
<b>E5.6.3.1.2.0.6</b>	Ramificatio ulterior asymmetrica	Asymmetrical subsequent branching
<b>E5.6.3.1.2.0.18</b>	Calix renalis major	Major renal calyx
<b>E5.6.3.1.2.0.19</b>	Calix renalis minor	Minor renal calyx
<b>E5.6.3.1.2.0.20</b>	Ductus papillaris	Papillary duct
<b>E5.6.3.1.2.0.21</b>	Tubuli metanephrici colligentes; Ductus metanephricus colligentes	Collecting tubules of metanephros; Collecting ducts of metanephros [CD] §Bellini§
<b>E5.6.3.2.0.0.1</b>	<b>BLASTEMA METANEPHROGENICUM</b>	<b>METANEPHROGENIC BLASTEMA; METANEPHRIC MASS OF MESENCHYME</b>
<b>E5.6.3.2.0.0.2</b>	Stroma renalis	Stroma of kidney

<sup>180</sup> E5.6.2.0.0.3 *Chorda nephrogenica; Chorda mesonephrica* The term *nephrogenic cord* is preferred as the cord gives rise to both mesonephric structures and the metanephric blastema.

<sup>181</sup> E5.6.3.1.0.0.2 *Gemma ureterica; Diverticulum metanephricum* The term *ureteric bud* is preferred: while it is initially a hollow diverticulum, it becomes solid and then recanalises; while it is largely surrounded by a metanephric cap, its origin is from the caudal end of the mesonephric duct.

<sup>182</sup> E5.6.3.1.2.0.2 *Ampulla ureterica* In accordance with current practice the term *ureteric ampulla* is here used as a generic term for the expanded ends of successive divisions of the ureteric bud. The ampullae form *ducts, propelvises, calyces, papillary ducts* and *collecting tubules*. Each of the latter induces the formation of a metanephric vesicle in the metanephrogenic blastema and fuses with it.

<sup>183</sup> E5.6.3.1.2.0.8/ E5.6.3.1.2.0.11/ E5.6.3.1.2.0.13 *Ductus interpolaris, Ductus polaris superior, Ductus polaris inferior* Each of the ducts induces change in part of the overlying metanephrogenic blastema to form a transient embryonic lobule.

E5.6.3.2.0.0.3	Capsula fibrosa renis	Fibrous capsule of kidney; Renal capsule
E5.6.3.2.0.0.4	Galea metanephrogenica	Metanephrogenic cap
E5.6.3.2.0.0.5	Lobulus embryonicus metanephricus	Embryonic metanephric lobule
E5.6.3.2.0.0.6	Lobus fetalis metanephricus	Fetal metanephric lobe
E5.6.3.2.0.0.7	Ren extra non lobatus	Externally unlobulated kidney
E5.6.3.2.0.0.8	Nephronum	Nephron
E5.6.3.2.0.0.9	Vesicula metanephrica; Vesicula renalis	Metanephric vesicle; Renal vesicle
E5.6.3.2.0.0.10	Tubulus metanephricus sigmoideus	S-shaped metanephric tubule
E5.6.3.2.0.0.11	Tubulus metanephricus conglutinatius cum ampulla tubuli metanephrici colligentis	Metanephric tubule fused with ampulla of collecting tubule of metanephros
E5.6.3.2.0.0.12	Tubulus metanephricus distalis	Distal metanephric tubule; Distal convoluted tubule
E5.6.3.2.0.0.13	Ansa nephroni	Nephron loop §Henle§
E5.6.3.2.0.0.14	Tubulus metanephricus proximalis	Proximal convoluted tubule; Proximal metanephric tubule
E5.6.3.2.0.0.15	Complexus juxtaglomerularis	Juxtaglomerular complex
E5.6.3.2.0.0.16	Pars terminalis attenuata	Attenuated terminal receiving part
E5.6.3.2.0.0.17	Corpusculum renale	Renal corpuscle §Malpighi
E5.6.3.2.0.0.18	Capsula glomerularis	Glomerular capsule §Bowman§
E5.6.3.2.0.0.19	Invaginatio a vase sanguineo	Invagination by blood vessel
E5.6.3.2.0.0.20	Glomerulus	Glomerulus
E5.6.3.2.0.0.21	Mesangium	Mesangium
E5.6.3.2.0.0.22	Podocytus	Podocyte
E5.6.3.2.0.0.23	Cortex renalis	Renal cortex
E5.6.3.2.0.0.8	Nephronum	Nephron
E5.6.3.2.0.0.24	Columna renalis	Renal column §Bertin§
E5.6.3.2.0.0.25	Medulla renalis	Renal medulla
E5.6.3.2.0.0.26	Pyramis renalis	Renal pyramid
E5.6.3.2.0.0.13	Ansa nephroni	Nephron loop §Henle§
E5.6.3.1.2.0.21	Tubuli metanephrici colligentes; Ductus metanephricus colligentes	Collecting tubules of metanephros; Collecting ducts of metanephros [CD] §Bellini§
E5.6.3.2.0.0.27	Arcuatio nephronis <sup>184</sup>	Nephron arcade
<b>E5.6.3.2.1.0.1</b>	<b>Anomaliae tractus urinarii superioris</b>	<b>Upper urinary tract anomalies</b>
E5.6.3.2.1.0.2	Agenesis renis	Renal agenesis
E5.6.3.2.1.0.3	Ectopia renis	Ectopic kidney
E5.6.3.2.1.0.4	Ren unguiformis	Horseshoe kidney
E5.6.3.2.1.0.5	Ren pelvici	Pelvic kidney
E5.6.3.2.1.0.6	Ren contralateralis	Crossed kidney
E5.6.3.2.1.0.7	Ren lobatus	Lobulated kidney
E5.6.3.2.1.0.8	Ren malrotatus	Malrotated kidney
E5.6.3.2.1.0.9	Ren polycysticus	Polycystic kidney
E5.6.3.2.1.0.10	Dysplasia multiplex renis	Multiple dysplastic kidney
E5.6.3.2.1.0.11	Ren sigmoideus	Sigmoid kidney
E5.6.3.2.1.0.12	Ren supernumerarius	Supernumerary kidney
E5.6.3.2.1.0.13	Nephroblastoma	Nephroblastoma
E5.6.3.2.1.0.14	Hydronephrosis	Hydronephrosis
E5.6.3.2.1.0.15	Ureter duplex	Double ureter
E5.6.3.2.1.0.16	Ureter bifidus	Bifid ureter
E5.6.3.2.1.0.17	Ureter ectopicus	Ectopic ureter
E5.6.3.2.1.0.18	Ureter postcavalis; Ureter retrocavalis	Postcaval ureter; Retrocaval ureter
E5.6.3.2.1.0.19	Ureter retroiliacus	Retroiliac ureter
E5.6.3.2.1.0.20	Stenosis ureteri	Stenotic ureter
<b>E5.6.4.0.0.1</b>	<b>Vesica urinaria et Urethra</b>	<b>Urinary bladder and Urethra</b>
<b>E5.6.4.1.0.0.1</b>	<b>VESICA URINARIA</b>	<b>URINARY BLADDER</b>
E5.6.4.1.0.0.2	Pars vesicalis canalis vesicourethralis	Vesical part of vesico-urethral canal

<sup>184</sup> E5.6.3.2.0.0.27 *Arcuatio nephronis* Early in the second trimester additional nephrons form from the points where metanephric tubules fuse with ampullae and form chains of adjacent nephrons.

<b>E5.6.4.1.0.0.3</b>	Incorporatio partis terminalis ductus mesonephrici	Incorporation of terminal part of mesonephric duct
<b>E5.6.4.1.0.0.4</b>	Ostia separata ureteris et ductus mesonephrici	Openings for ureter and mesonephric duct separated
<b>E5.6.4.1.0.0.5</b>	Motio cephalolateralis ostii ureterici et caudomedialis ostii ductus mesonephrici	Cephalolateral movement of ureteric duct opening and caudomedial movement of mesonephric duct opening
<b>E5.6.4.1.0.0.6</b>	Trigonum vesicae	Bladder trigone §Lieutaud§
<b>E5.6.4.1.0.0.7</b>	Urachus	Urachus
<b>E5.6.4.1.0.0.8</b>	Lig. umbilicale medianum	Median umbilical ligament
<b>E5.4.4.0.0.0.4</b>	Epithelium endodermale	Endodermal epithelium
<b>E5.6.4.1.0.0.9</b>	Tunica mucosa vesicae	Bladder mucosa; Bladder mucous membrane
<b>E5.6.4.1.0.0.10</b>	Urothelium; Epithelium transitionale	Urothelium; Transitional epithelium
<b>E5.6.4.1.0.0.11</b>	Urotheliocytus superficialis	Superficial urothelial cell
<b>E5.6.4.1.0.0.12</b>	Area intermedia	Intermediate area
<b>E5.6.4.1.0.0.13</b>	Mesenchyma intermedium in maxima parte parietis vesicalis	Intermediate mesenchyme for most of bladder wall
<b>E5.6.4.1.0.0.14</b>	Mesoderma laminae lateralis in pariete corporis vesicae	Lateral plate mesoderm for wall of body of bladder
<b>E5.4.3.0.0.2.9</b>	Lamina propria mucosae	Lamina propria
<b>E5.4.13.0.0.2.1</b>	Tunica muscularis	Muscular layer; Muscular coat
<b>E5.4.3.0.0.2.11</b>	Tunica adventitia	Adventitial layer; Adventitial coat
<b>E5.6.4.2.0.0.1</b>	<b>URETHRA PRIMORDIALIS</b>	<b>PRIMORDIAL URETHRA</b>
<b>E5.6.4.2.1.0.1</b>	<b>Pars urethralis canalis vesicourethralis</b>	<b>Urethral part of vesico-urethral canal</b>
<b>E5.6.4.2.1.1.1</b>	<b>Pars proximalis maxima urethrae feminae</b>	<b>Major proximal part of female urethra</b>
<b>E5.6.4.2.1.1.2</b>	Tuberculum sinuale fugax <sup>185</sup>	Transient sinus tubercle §Müller§
<b>E5.4.4.0.0.0.4</b>	Epithelium endodermale	Endodermal epithelium
<b>E5.6.4.2.1.1.3</b>	Tunica mucosa urethrae	Urethral mucosa; Urethral mucous membrane
<b>E5.6.4.1.0.0.10</b>	Urothelium; Epithelium transitionale	Urothelium; Transitional epithelium
<b>E5.4.4.0.0.0.7</b>	Epithelium stratificatum columnare	Stratified columnar epithelium
<b>E5.6.4.2.1.1.4</b>	Gemma glandulae urethralis	Urethral gland bud
<b>E5.6.4.2.1.1.5</b>	Lacunae urethrales	Urethral lacunae
<b>E5.6.4.2.1.1.6</b>	Glandula urethralis	Urethral gland
<b>E5.6.4.2.1.1.7</b>	Textus mesenchymalis	Mesenchymal tissue
<b>E5.6.4.2.1.1.8</b>	Tunica spongiosa	Spongy layer
<b>E5.4.13.0.0.2.1</b>	Tunica muscularis	Muscular layer; Muscular coat
<b>E5.6.4.2.1.2.1</b>	<b>Dimidium proximale urethrae prostaticae</b> ♂	<b>Proximal half of prostatic urethra</b> ♂
<b>E5.6.4.2.1.2.2</b>	Tuberculum sinuale <sup>185</sup>	Sinus tubercle §Müller§
<b>E5.6.4.2.1.2.3</b>	Colliculus seminalis	Seminal colliculus
<b>E5.6.4.2.1.2.4</b>	Glandula collicularis	Collicular gland
<b>E5.6.4.2.1.2.5</b>	Utriculus prostaticus; Vagina masculina <sup>186</sup>	Prostatic utricle; Vagina masculina
<b>E5.6.4.2.1.2.6</b>	Ductus ejaculatorius	Ejaculatory duct
<b>E5.4.4.0.0.0.4</b>	Epithelium endodermale	Endodermal epithelium
<b>E5.6.4.2.1.1.3</b>	Tunica mucosa urethrae	Urethral mucosa; Urethral mucous membrane
<b>E5.6.4.1.0.0.10</b>	Urothelium; Epithelium transitionale	Urothelium; Transitional epithelium
<b>E5.6.4.2.1.1.7</b>	Textus mesenchymalis	Mesenchymal tissue
<b>E5.4.13.0.0.2.1</b>	Tunica muscularis	Muscular layer; Muscular coat
<b>E5.6.4.2.1.3.1</b>	<b>Pars pelvina sinus urogenitalis definitivi</b> {vide etiam paginam XX}	<b>Pelvic part of definitive urogenital sinus</b> {see also page XX E5.7.3.1.0.0.1}
<b>E5.6.4.2.1.4.1</b>	<b>Pars distalis minima urethrae feminae</b>	<b>Minor distal part of female urethra</b>
<b>E5.6.4.2.1.4.2</b>	Apertura communis cum vagina	Common opening with vagina
<b>E5.6.4.2.1.4.3</b>	Crescentia perinei <sup>187</sup>	Growth of perineum
<b>E5.6.4.2.1.4.4</b>	Apertura separata a vagina	Separate opening from vagina

<sup>185</sup> E5.6.4.2.1.1.2/ E5.6.4.2.1.2.2 *Tuberculum sinuale* Sinual, mesonephric and paramesonephric epithelia meet at the *sinus tubercle*.

<sup>186</sup> E5.6.4.2.1.2.5 *Utriculus prostaticus; Vagina masculina* The cephalic part of the utricle is derived from the paramesonephric ducts and its caudal part from the mixed epithelium of the sinus tubercle.

<sup>187</sup> E5.6.4.2.1.4.3 *Crescentia perinei* Growth of the perineum brings the urethral and vaginal orifices to the surface (Ammini AC, Pandey J, Vijayaraghavan M, Sabherwal U. Human female phenotypic development: role of fetal ovaries. J Clin Endocrinol Metab 1994;79:604-8.

<b>E5.4.4.0.0.4</b>	Epithelium endodermale	Endodermal epithelium
<b>E5.4.4.0.0.5.2</b>	Epithelium stratificatum squamosum non cornificatum	Nonkeratinized stratified squamous epithelium
<b>E5.6.4.2.1.1.4</b>	Gemma glandulae urethralis	Urethral gland bud
<b>E5.6.4.2.1.1.6</b>	Glandula urethralis	Urethral gland §Littré§
<b>E5.6.4.2.1.4.5</b>	Gemma glandulae paraurethralis	Para-urethral gland bud
<b>E5.6.4.2.1.4.6</b>	Glandula paraurethralis; Prostata feminina	Para-urethral gland; Female prostate §Skene; Guérin§
<b>E5.6.4.2.1.4.7</b>	(Ductus paraurethralis)	(Para-urethral duct) §Skene; Schüller§
<b>E5.6.4.2.1.1.7</b>	Textus mesenchymalis	Mesenchymal tissue
<b>E5.4.13.0.0.2.1</b>	Tunica muscularis	Muscular layer; Muscular coat
<b>E5.6.4.2.1.4.8</b>	M. sphincter urethrae externus	External urethral sphincter; Rhabdosphincter
<b>E5.6.4.2.1.5.1</b>	<b>Dimidium distale urethrae prostaticae♂</b>	<b>Distal half of prostatic urethra♂</b>
<b>E5.6.4.2.1.5.2</b>	Gemma prostaticae <sup>188</sup>	Prostate bud
<b>E5.6.4.2.1.6.1</b>	<b>Pars intermedia urethrae; Pars membranacea urethrae♂</b>	<b>Intermediate part of urethra; Membranous urethra♂</b>
<b>E5.4.4.0.0.4</b>	Epithelium endodermale	Endodermal epithelium
<b>E5.6.4.2.1.1.3</b>	Tunica mucosa urethrae	Urethral mucosa; Urethral mucous membrane
<b>E5.4.4.0.0.0.7</b>	Epithelium stratificatum columnare	Stratified columnar epithelium
<b>E5.4.4.0.0.0.10</b>	Epithelium pseudostratificatum columnare	Pseudostratified columnar epithelium
<b>E5.6.4.2.1.1.7</b>	Textus mesenchymalis	Mesenchymal tissue
<b>E5.4.13.0.0.2.1</b>	Tunica muscularis	Muscular layer; Muscular coat
<b>E5.6.4.2.1.6.2</b>	Stratum nonstriatum	Smooth muscle layer
<b>E5.6.4.2.1.4.8</b>	M. sphincter urethrae externus	External urethral sphincter; Rhabdosphincter
<b>E5.6.4.2.1.7.1</b>	<b>Pars phallica sinus urogenitalis definitivi♂</b> {vide etiam paginam <b>XX</b> }	<b>Phallic part of definitive urogenital sinus♂</b> {see also page <b>XX</b> }
<b>E5.6.4.2.1.7.2</b>	Lamina urethralis; Chorda glandis	Urethral plate; Cord of glans
<b>E5.6.4.2.1.7.3</b>	Sulcus urethralis primarius	Primary urethral groove
<b>E5.6.4.2.1.7.4</b>	Plica urethralis primaria	Primary urethral fold
<b>E3.0.0.6.1.0.6</b>	Cavatio	Cavitation
<b>E5.6.4.2.1.7.5</b>	Sulcus urethralis secundarius	Secondary urethral groove
<b>E5.6.4.2.1.7.6</b>	Plica urethralis secundarius	Secondary urethral fold
<b>E4.0.4.1.0.0.6</b>	Mesenchyma ex eminentia caudale	Mesenchyme from caudal eminence
<b>E3.0.0.6.1.0.10</b>	Conjunctio	Fusion
<b>E5.6.4.2.1.8.1</b>	<b>Pars spongiosa urethrae♂</b>	<b>Spongy urethra♂</b>
<b>E5.4.4.0.0.4</b>	Epithelium endodermale	Endodermal epithelium
<b>E5.6.4.2.1.1.3</b>	Tunica mucosa urethrae	Urethral mucosa; Urethral mucous membrane
<b>E5.4.4.0.0.0.10</b>	Epithelium pseudostratificatum columnare	Pseudostratified columnar epithelium
<b>E5.6.4.2.1.8.2</b>	Glandula bulbourethralis♂	Bulbo-urethral gland♂ §Cowper§
<b>E5.4.4.0.0.0.5</b>	Epithelium simplex columnare	Simple columnar epithelium
<b>E5.6.4.2.1.8.3</b>	Exocrinocytus bulbourethralis	Bulbo-urethral exocrine cell
<b>E5.6.4.2.1.8.4</b>	Endocrinocytus bulbourethralis	Bulbo-urethral endocrine cell
<b>E5.5.3.0.1.0.31</b>	Myoepitheliocytus	Myo-epithelial cell
<b>E4.0.4.1.0.0.6</b>	Mesenchyma ex eminentia caudale	Mesenchyme from caudal eminence
<b>E5.6.4.2.1.8.5</b>	Stroma glandulae bulbourethralis	Stroma of bulbo-urethral gland
<b>E5.4.3.0.0.2.5</b>	Textus muscularis levis	Smooth muscle tissue
<b>E5.6.4.2.1.8.6</b>	Textus muscularis striatus	Striated muscle tissue
<b>E5.6.4.2.1.8.7</b>	Ductus glandulae bulbourethralis	Duct of bulbo-urethral gland
<b>E5.6.4.2.1.8.8</b>	Epitheliocytus principalis	Principal cell
<b>E5.6.4.2.1.8.9</b>	Epitheliocytus basalis	Basal cell
<b>E5.5.3.0.1.0.29</b>	Mucocytus	Mucous cell
<b>E5.6.4.2.1.1.4</b>	Gemma glandulae urethralis♂	Urethral gland buds♂
<b>E5.6.4.2.1.1.5</b>	Lacunae urethrales	Urethral lacunae
<b>E5.6.4.2.1.1.6</b>	Glandula urethralis	Urethral gland
<b>E5.6.4.2.1.8.10</b>	Fossa navicularis urethrae	Navicular fossa
<b>E5.4.4.0.0.5.2</b>	Epithelium stratificatum squamosum non cornificatum	Nonkeratinized stratified squamous epithelium

<sup>188</sup> E5.6.4.2.1.5.2 *Gemma prostaticae* A series of five clusters of endodermal buds grow into the surrounding mesenchyme. The latter becomes the fibromuscular part and forms about one third of the prostate. The five fetal lobules are obscured in postnatal life, so that there is no external sign of lobulation.

<b>E4.0.4.1.0.0.6</b>	Mesenchyma ex eminentia caudale	Mesenchyme from caudal eminence
<b>E5.4.3.0.0.2.11</b>	Tunica adventitia	Adventitial layer; Adventitial coat
<b>E5.7.0.0.0.0.1</b>	<b>Systemata genitalia</b>	<b>Genital systems</b>
<b>E5.7.1.0.0.0.1</b>	<b>Gonada</b>	<b>Gonad</b>
<b>E5.0.2.2.1.0.1</b>	Epiblastus <sup>357</sup>	Epiblast; Primary ectoderm
<b>E5.7.1.0.0.0.2</b>	Cellula germinalis praecursoria	Primordial germ cell
<b>E1.0.5.0.1.5.3</b>	Chromosoma sexuale; Gonosoma	Sex chromosome
<b>E5.7.1.0.0.0.3</b>	Translatio cellularum germinalium praecursorium; Migratio cellularum germinalium praecursorium <sup>189</sup>	Positional change of primordial germ cells; Migration of primordial germ cells
<b>E5.7.1.0.0.0.4</b>	Vesicula umbilicalis; Saccus vitellinus <sup>242</sup>	Umbilical vesicle; Yolk sac
<b>E5.4.9.0.2.0.1</b>	Metenteron	Hindgut
<b>E5.6.2.0.0.0.2</b>	Crista mesonephrica; Plica mesonephrica	Mesonephric ridge; Mesonephric fold
<b>E5.7.1.0.0.0.5</b>	Crista gonadalis	Gonadal ridge
<b>E5.7.1.1.0.0.1</b>	<b>STADIUM NEUTRALE</b>	<b>INDIFFERENT STAGE</b>
<b>E5.6.2.0.0.0.2</b>	Crista mesonephrica; Plica mesonephrica	Mesonephric ridge; Mesonephric fold
<b>E5.7.1.0.0.0.5</b>	Crista gonadalis	Gonadal ridge
<b>E5.7.1.1.0.0.2</b>	Epithelium coelomicum	Coelomic epithelium <sup>▲</sup>
<b>E5.7.1.0.0.0.2</b>	Cellula germinalis praecursoria	Primordial germ cell
<b>E5.7.1.1.0.0.3</b>	Chorda epithelii coelomici <sup>190</sup>	Coelomic epithelial cord <sup>▲</sup>
<b>E5.7.1.1.0.0.4</b>	Cellula somatica sustinens	Somatic support cell
<b>E5.7.1.1.0.0.5</b>	Mesenchyma gonadale <sup>191</sup>	Gonadal mesenchyme
<b>E5.7.1.1.0.0.6</b>	Cellula mesonephrica	Mesonephric cell
<b>E5.7.1.1.0.0.7</b>	Chorda sexualis primordialis gonadalis <sup>192</sup>	Gonadal cord; Primordial sex cord
<b>E5.7.1.2.0.0.1</b>	<b>OVARIUM</b>	<b>OVARY</b>
<b>E5.7.1.1.0.0.2</b>	Epithelium coelomicum	Coelomic epithelium <sup>▲</sup>
<b>E5.7.1.2.0.0.2</b>	Epithelium coelomicum ovarii	Coelomic epithelium of ovary <sup>▲</sup>
<b>E5.7.1.2.0.0.3</b>	Mesothelium ovaricum; Epithelium superficiale ovarii	Ovarian mesothelium; Surface epithelium of ovary
<b>E5.7.1.2.0.0.4</b>	Mesotheliocytus cuboideus microvillosus	Microvillous cuboidal epithelial cell
<b>E5.7.1.2.0.0.5</b>	Medulla ovarii	Ovarian medulla
<b>E5.7.1.2.0.0.6</b>	Rete ovarii	Rete ovarii
<b>E5.7.1.2.0.0.7</b>	Cellula hili ovarii	Ovarian hilus cell
<b>E5.7.1.1.0.0.7</b>	Chorda sexualis primordialis gonadalis <sup>192</sup>	Gonadal cord; Primordial sex cord
<b>E1.0.5.0.1.5.4</b>	Chromosoma X; Gonosoma femininum	X chromosome
<b>E5.7.1.2.0.0.8</b>	Absentia regionis determinantis chromosomatis Y[SRY]	Absence of sex determining region of Y chromosome [SRY]
<b>E5.7.1.2.0.0.9</b>	Chorda sexualis primordialis ovarii <sup>193</sup>	Primordial sex cord of ovary; Medullary cord of ovary
<b>E5.7.1.2.0.0.10</b>	Mesovarium	Mesovarium
<b>E5.7.1.2.0.0.11</b>	Cortex ovarii	Ovarian cortex
<b>E5.7.1.2.1.0.1</b>	<b>Chorda folliculogenica</b>	<b>Folliculogenous cord; Cortical cord of ovary</b>
<b>E5.7.1.0.0.0.2</b>	Cellula germinalis praecursoria	Primordial germ cell

<sup>189</sup> E5.7.1.0.0.0.3 *Translatio cellularum germinalium praecursorium; Migratio cellularum germinalium praecursorium* The relocation of primordial germ cells from the wall of the umbilical vesicle to that of the hindgut can be explained by growth movements and shape changes (Freeman B. The active migration of germ cells in the embryos of mice and men is a myth. *Reproduction* 2003;125:635-643). However, relocation from the wall of the hindgut to the gonadal ridge is difficult to envision without true migration playing a part.

<sup>190</sup> E5.7.1.1.0.0.3 *Chorda epithelii coelomici* These cords were previously called primary sex cords but they represent only proliferative coelomic epithelium, presumably contributing to gonadal mesenchyme; they are not the precursors of the cords in which primordial germ cells will develop (Satoh M. Histogenesis and organogenesis of the gonad in human embryos. *J Anat* 1991;177:85-107).

<sup>191</sup> E5.7.1.1.0.0.5 *Mesenchyma gonadale* The *gonadal mesenchyme* that forms most gonadal cells comes from the mesonephros (Campagnolo L, Russo MA, Puglianello A, Favale A, Siracusa G. Mesenchymal cell precursors of peritubular smooth muscle cells of the mouse testis can be identified by the presence of the p75 neurotrophin receptor. *Biol Reprod* 2001;64:464-472). However, that which forms sustentacular (and granulosa) cells comes from the coelomic epithelium (Karl J, Capel B. Sertoli cells of the mouse testis originate from the coelomic epithelium. *Dev Biol* 1998;203:323-333).

<sup>192</sup> E5.7.1.1.0.0.7 *Chorda sexualis primordialis gonadalis* *Gonadal cords or primordial sex cords* extend from the mesonephros into the gonadal ridge and become associated with primordial germ cells; the coelomic epithelium flattens and the gonad protrudes into the coelomic cavity (Satoh M. Histogenesis and organogenesis of the gonad in human embryos. *J Anat* 1991;177:85-107).

<sup>193</sup> E5.7.1.2.0.0.9 *Chorda sexualis primordialis ovarii* In the ovary, primordial sex cords enlarge, extend peripherally, pick up primordial germ cells, leave the medulla and become the folliculogenous sex cords of the cortex (Satoh M. Histogenesis and organogenesis of the gonad in human embryos. *J Anat* 1991;177:85-107). Some cords remain in the medulla but do not develop and disappear in the third trimester.

<b>E5.7.1.2.1.0.2</b>	Oogonium	Oogonium
<b>E5.7.1.2.1.0.3</b>	Mitosis oogoniorum	Oogonial mitosis
<b>E5.7.1.2.1.0.4</b>	Syncytium oogenicum	Oogenetic syncytium
<b>E5.7.1.2.1.0.5</b>	Clonum oogenicum	Oogenetic clone
<b>E5.7.1.2.1.0.6</b>	Pons intercellularis oogonialis	Oogonial intercellular bridge
<b>E5.7.1.2.1.0.7</b>	Apoptosis oogoniorum	Oogonial apoptosis
<b>E5.7.1.2.1.0.8</b>	Oocytus primarius	Primary oocyte
<b>E1.0.5.0.0.3.2</b>	Meiosis I	Meiosis I
<b>E5.7.1.2.1.0.9</b>	Oocytus primarius interruptus in phase diplonemale	Primary oocyte arrested in diplotene
<b>E5.7.1.2.1.0.10</b>	Epithelium simplex squamosum folliculi	Simple squamous follicular epithelium
<b>E5.7.1.2.1.0.11</b>	Epitheliocytus follicularis; Folliculocytus primordialis	Primordial follicular epithelial cell
<b>E5.7.1.2.1.0.12</b>	Folliculus ovaricus primordialis	Primordial ovarian follicle
<b>E5.7.1.2.1.0.13</b>	Apoptosis oocytorum	Oocytic apoptosis
<b>E5.7.1.2.1.0.14</b>	Folliculus atreticus ovarii	Atretic ovarian follicle
<b>E5.7.1.2.2.0.1</b>	<b>Stroma ovarii</b>	<b>Stroma of ovary</b>
<b>E5.7.1.2.2.0.2</b>	Textus connectivus fusocellularis	Fusocellular connective tissue
<b>E5.7.1.2.2.0.3</b>	Cellula obscura fusiformis	Dark spindle-shaped cell
<b>E5.7.1.2.2.0.4</b>	Cellula lucida epithelioidea	Light epithelioid cell
<b>E5.7.1.2.2.0.5</b>	Endocrinocytus interstitialis ovarii	Interstitial cell of ovary
<b>E5.7.1.2.2.0.6</b>	Tunica albuginea	Tunica albuginea
<b>E1.0.2.1.0.0.4</b>	<b>Phasis pubertalis</b> {vide Terminologia Histologica}	<b>Pubertal phase</b> {see Terminologia Histologica}
<b>E5.7.1.2.3.0.1</b>	Folliculogenesis {vide Terminologia Histologica}	Folliculogenesis {see Terminologia Histologica}
<b>E5.7.1.2.3.0.2</b>	Luteogenesis {vide Terminologia Histologica}	Luteogenesis {see Terminologia Histologica}
<b>E1.0.2.2.0.0.2</b>	Oogenesis {vide supra}	Oogenesis {see above}
<b>E5.7.1.3.0.0.1</b>	<b>TESTIS</b>	<b>TESTIS</b>
<b>E5.7.1.1.0.0.2</b>	Epithelium coelomicum	Coelomic epithelium <sup>▲</sup>
<b>E5.7.1.3.0.0.2</b>	Epithelium coelomicum testis	Coelomic epithelium of testis <sup>▲</sup>
<b>E5.7.1.3.0.0.3</b>	Mesothelium testis; Epithelium superficiale testis; Lamina visceralis tunicae vaginalis testis	Testicular mesothelium; Surface epithelium of testis; Visceral layer of tunica vaginalis testis
<b>E5.7.1.3.0.0.4</b>	Mesotheliocytus	Mesothelial cell; Mesotheliocyte
<b>E5.7.1.3.0.0.5</b>	Tunica albuginea primaria testis	Primary tunica albuginea of testis
<b>E5.7.1.1.0.0.7</b>	Chorda sexualis primordialis gonadalis <sup>192</sup>	Gonadal cord; Primordial sex cord
<b>E1.0.5.0.1.5.6</b>	Chromosoma Y; Gonosoma masculinum	Y chromosome
<b>E5.7.1.3.0.0.7</b>	Regio chromosomatis Y determinans sexum [SRY]	Sex determining region of Y chromosome [SRY]
<b>E5.7.1.3.0.0.8</b>	Chorda sexualis primordialis testis; Chorda testicularis	Primordial sex cord of testis; Medullary cord of testis
<b>E5.7.1.3.0.0.9</b>	Mesorchium	Mesorchium
<b>E5.7.1.3.0.0.10</b>	Rete testis	Rete testis
<b>E5.7.1.3.0.0.8</b>	<b>Chorda sexualis primordialis testis; Chorda testicularis</b>	<b>Primordial sex cord of testis; Medullary cord of testis</b>
<b>E5.7.1.3.1.0.1</b>	Prospermatogonium; Spermatogonium praesumptivum	Prospermatogonium; Presumptive spermatogonium
<b>E5.7.1.3.1.0.2</b>	Mitosis prospermatogonialis	Prospermatogonial mitosis
<b>E5.7.1.3.1.0.3</b>	Syncytium spermatogenicum	Spermatogenic syncytium
<b>E5.7.1.3.1.0.4</b>	Clonum spermatogenicum	Spermatogenic clone
<b>E5.7.1.3.1.0.5</b>	Pons intercellularis prospermatogonialis	Prospermatogonial intercellular bridge
<b>E5.7.1.3.1.0.6</b>	Sustentocytus lucidus praesumptivus	Light presumptive sustentacular cell
<b>E5.7.1.3.1.0.7</b>	Inhibitio mitosis et meiosis	Inhibition of mitosis and meiosis
<b>E5.7.1.3.1.0.8</b>	Factor antiparamesonephricus <sup>194</sup>	Antiparamesonephric hormone [AMH/MIS]
<b>E5.7.1.3.2.0.1</b>	<b>Chorda seminifera</b>	<b>Seminiferous cord</b>
<b>E5.7.1.3.2.0.2</b>	Membrana basalis chordae seminiferae	Basement membrane of seminiferous cord
<b>E5.7.1.3.1.0.1</b>	Prospermatogonium; Spermatogonium praesumptivum	Prospermatogonium; Presumptive spermatogonium

<sup>194</sup> E5.7.1.3.1.0.8 *Factor antiparamesonephricus* The antiparamesonephric factor is eponymously known as AMH (AntiMüllerian Hormone) or MIS (Müllerian Inhibiting Substance).

<b>E5.7.1.3.1.0.6</b>	Sustentocytus lucidus praesumptivus	Light presumptive sustentacular cell
<b>E5.7.1.3.2.0.3</b>	Sustentocytus obscurus praesumptivus	Dark presumptive sustentacular cell
<b>E5.7.1.3.2.0.4</b>	Promotio meiosis	Promotion of meiosis
<b>E5.4.1.3.0.0.12</b>	Canalisatio	Canalization
<b>E5.7.1.3.3.0.1</b>	<b>Tubulus seminifer</b>	<b>Seminiferous tubule</b>
<b>E5.7.1.3.3.0.2</b>	Tubulus seminifer contortus	Convolutated seminiferous tubule
<b>E5.7.1.0.0.0.2</b>	Cellula germinalis praecursoria	Primordial germ cell
<b>E5.7.1.3.3.0.3</b>	Sustentocytus; Epitheliocytus sustentans	Sustentacular cell; Supporting cell; Nurse cell §Sertoli§
<b>E5.7.1.3.3.0.4</b>	Tubulus rectus	Straight tubule
<b>E5.7.1.3.3.0.5</b>	Conjunctio tubuli recti cum rete testis incipiens <sup>195</sup>	Incipient connection between straight tubule and rete testis
<b>E5.7.1.3.3.0.6</b>	Epithelium simplex cuboideum; Epithelium simplex isoprismaticum	Simple cuboidal epithelium; Simple isoprismatic epithelium
<b>E5.7.1.3.4.0.1</b>	<b>Parenchyma testis</b>	<b>Parenchyma of testis; Stroma of testis</b>
<b>E5.7.1.3.4.0.2</b>	Textus connectivus intertubularis	Intertubular connective tissue; Interstitial connective tissue
<b>E5.7.1.3.4.0.3</b>	Cellula compartimentans	Compartment-forming cell
<b>E5.7.1.3.4.0.4</b>	Endocrinocytus interstitialis	Interstitial endocrine cell; Interstitial cell §Leydig§
<b>E5.7.1.3.4.0.5</b>	Testosteronum	Testosterone
<b>E5.7.1.3.4.0.6</b>	Tunica albuginea testis definitiva	Definitive tunica albuginea of testis
<b>E5.7.1.3.4.0.7</b>	Mediastinum testis	Mediastinum of testis
<b>E5.7.1.3.4.0.8</b>	Septulum testis	Septum of testis
<b>E5.7.1.3.4.0.9</b>	Lobulus testis	Lobule of testis
<b>E1.0.2.1.0.0.4</b>	<b>Phasis pubertalis</b> {vide Terminologia Histologica}	<b>Pubertal phase</b> {see Terminologia Histologica}
<b>E5.7.1.3.5.0.1</b>	Spermatogenesis {vide supra}	Spermatogenesis; Spermatogeny {see above}
<b>E1.0.5.3.0.0.4</b>	Spermatogonium [Diploidia II] {vide Terminologia Histologica}	Spermatogonium [Diploid 2N] {see Terminologia Histologica}
<b>E1.0.5.3.0.0.11</b>	Spermiogenesis {vide Terminologia Histologica}	Spermiogenesis {see Terminologia Histologica}
<b>E1.0.5.3.0.0.12</b>	Spermatozoon; Spermium; Gametus masculinus [Haploidia I] {vide Terminologia Histologica}	Sperm; Sperm cell; Male gamete [Haploid 1N] {see Terminologia Histologica}
<b>E5.7.2.0.0.0.1</b>	<b>Ductus genitales</b>	<b>Genital ducts</b>
<b>E5.7.2.1.0.0.1</b>	<b>DERIVATIVA MESONEPHRI</b>	<b>DERIVATIVES OF MESONEPHROS</b>
<b>E5.7.2.1.0.0.2</b>	Tubulus mesonephricus	Mesonephric tubule
<b>E5.7.2.1.0.0.3</b>	Ductulus transversus epoophori♀	Transverse ductule of epoophoron♀
<b>E5.7.2.1.0.0.4</b>	Paroophoron♀	Paroophoron♀ §Kobelt§
<b>E5.7.2.1.0.0.5</b>	Ductulus efferens testis♂	Efferent ductule of testis♂
<b>E5.4.4.0.0.0.5</b>	Epithelium simplex columnare	Simple columnar epithelium
<b>E5.7.2.1.0.0.6</b>	Epitheliocytus cuboideus microvillosus	Cuboidal epithelial cell with microvilli
<b>E5.7.2.1.0.0.7</b>	Epitheliocytus columnaris ciliatus	Ciliated columnar epithelial cell
<b>E5.7.2.1.0.0.8</b>	Mesenchyma periductale	Periductal mesenchyme
<b>E5.7.2.1.0.0.9</b>	Stratum musculare ductuli efferentis testis	Muscular layer of efferent ductule of testis
<b>E5.7.2.1.0.0.10</b>	Myocytus levis periductalis	Periductal smooth muscle cell
<b>E5.7.2.1.0.0.11</b>	(Ductulus aberrans superior♂)	(Superior aberrant ductule♂) §Haller§
<b>E5.7.2.1.0.0.12</b>	(Ductulus aberrans inferior♂)	(Inferior aberrant ductule♂) §Haller§
<b>E5.7.2.1.0.0.13</b>	(Paradidymis♂)	(Paradidymis♂) §Giraldés§
<b>E5.7.2.1.0.0.14</b>	(Ductulus paradidymidis♂)	(Paradidymal ductule♂)
<b>E5.7.2.2.0.0.1</b>	<b>DERIVATIVA DUCTUS MESONEPHRICI</b>	<b>DERIVATIVES OF MESONEPHRIC DUCT</b>
<b>E5.7.2.2.0.0.2</b>	(Appendix vesiculosa♀)	(Vesicular appendix♀) §Morgagni§
<b>E5.7.2.2.0.0.3</b>	(Ductus longitudinalis epoophori♀)	(Longitudinal duct of epoophoron♀) §Gärtner§ §Malpighii§
<b>E5.7.2.2.0.0.4</b>	(Ductus deferens vestigialis♀)	(Vestige of ductus deferens♀)
<b>E5.7.2.2.0.0.5</b>	Epididymis♂	Epididymis♂
<b>E5.7.2.2.0.0.6</b>	Ductus epididymidis♂	Duct of epididymis

<sup>195</sup> E5.7.1.3.3.0.5 *Conjunctio tubuli recti cum rete testis incipiens* Although the primordium of the rete testis is present in the embryo, it is not until the second trimester that it begins to connect with straight tubules and the process is not completed until puberty.

<b>E5.4.4.0.0.0.10</b>	Epithelium pseudostratificatum columnare	Pseudostratified columnar epithelium
<b>E5.7.2.2.0.0.7</b>	Epitheliocytus stereociliatus	Stereociliated epithelial cell; Principal cell
<b>E5.7.2.2.0.0.8</b>	Epitheliocytus basalis	Basal cell
<b>E5.7.2.2.0.0.9</b>	Macrophagocytus spermatophagus	Spermatophagous macrophage
<b>E5.7.2.1.0.0.8</b>	Mesenchyma periductale	Periductal mesenchyme
<b>E5.4.13.0.0.2.1</b>	Tunica muscularis	Muscular layer; Muscular coat
<b>E5.7.2.2.0.0.10</b>	Interstitium	Interstitium
<b>E5.7.2.2.0.0.11</b>	Tela subserosa	Subserosa; Subserous layer
<b>E5.7.2.2.0.0.12</b>	Tunica serosa	Serosa; Serous coat
<b>E5.7.2.2.0.0.13</b>	Appendix epididymidis♂	Appendix of epididymis♂
<b>E5.7.2.2.0.0.14</b>	Ductus deferens♂	Ductus deferens; Vas deferens♂
<b>E5.7.2.2.0.0.15</b>	Tunica mucosa ductus deferentis	Mucosa of ductus deferens; Mucous membrane of ductus deferens
<b>E5.7.2.2.0.0.16</b>	Plica longitudinalis	Longitudinal mucosal fold
<b>E5.4.4.0.0.0.10</b>	Epithelium pseudostratificatum columnare	Pseudostratified columnar epithelium
<b>E5.7.2.2.0.0.7</b>	Epitheliocytus stereociliatus	Stereociliated epithelial cell; Principal cell
<b>E5.7.2.2.0.0.17</b>	Epitheliocytus basalis	Basal cell
<b>E5.7.2.1.0.0.8</b>	Mesenchyma periductale	Periductal mesenchyme
<b>E5.4.13.0.0.2.1</b>	Tunica muscularis	Muscular layer; Muscular coat
<b>E5.7.2.2.0.0.18</b>	Stratum longitudinale internum	Internal longitudinal layer
<b>E5.7.2.2.0.0.19</b>	Stratum circulare	Circular layer
<b>E5.7.2.2.0.0.20</b>	Stratum longitudinale externum	External longitudinal layer
<b>E5.4.3.0.0.2.11</b>	Tunica adventitia	Adventitial layer; Adventitial coat
<b>E5.7.2.2.0.0.11</b>	Tela subserosa	Subserosa; Subserous layer
<b>E5.7.2.2.0.0.12</b>	Tunica serosa	Serosa; Serous coat
<b>E5.7.2.2.0.0.21</b>	Glandula vesiculosa et structurae pertinentae♂	Seminal gland and related structures♂
<b>E5.7.2.2.0.0.22</b>	Tunica mucosa	Mucosa; Mucous membrane
<b>E5.7.2.2.0.0.23</b>	Plica mucosa primaria	Primary mucosal fold
<b>E5.7.2.2.0.0.24</b>	Plica mucosa secundaria	Secondary mucosal fold
<b>E5.7.2.2.0.0.25</b>	Plica mucosa tertiaria	Tertiary mucosal fold
<b>E5.4.4.0.0.0.5</b>	Epithelium simplex columnare	Simple columnar epithelium
<b>E5.7.2.2.0.0.26</b>	Diverticulum	Diverticulum
<b>E5.7.2.2.0.0.27</b>	Exocrinocytus principalis	Principal cell
<b>E5.7.2.2.0.0.28</b>	Epitheliocytus basalis	Basal cell
<b>E5.7.2.1.0.0.8</b>	Mesenchyma periductale	Periductal mesenchyme
<b>E5.4.13.0.0.2.1</b>	Tunica muscularis	Muscular layer; Muscular coat
<b>E5.4.3.0.0.2.11</b>	Tunica adventitia	Adventitial layer; Adventitial coat
<b>E5.7.2.2.0.0.11</b>	Tela subserosa	Subserosa; Subserous layer
<b>E5.7.2.2.0.0.12</b>	Tunica serosa	Serosa; Serous coat
<b>E5.6.4.1.0.0.6</b>	Trigonum vesicae	Bladder trigone §Lieutaud§
<b>E5.7.2.3.0.0.1</b>	<b>DERIVATIVA CRISTAE GONADALIS</b>	<b>GONADAL RIDGE DERIVATIVES</b>
<b>E5.7.2.3.0.0.2</b>	Sulcus paramesonephricus	Paramesonephric groove
<b>E5.7.2.3.0.0.3</b>	Ductus paramesonephricus	Paramesonephric duct §Müller§
<b>E5.7.2.3.0.0.4</b>	Pars praefundibularis	Pre-infundibular part
<b>E5.7.2.2.0.0.2</b>	(Appendix vesiculosa♀)	(Vesicular appendix♀) §Morgagni§
<b>E5.7.2.3.0.0.5</b>	(Appendix testis♂)	(Appendix of testis♂) §Morgagni§
<b>E5.7.2.3.0.0.6</b>	Pars infundibularis	Infundibular part
<b>E5.7.2.3.0.0.7</b>	Pars postinfundibularis	Postinfundibular part
<b>E5.7.2.3.0.0.8</b>	Pars non conjuncta	Unfused part
<b>E5.7.2.3.0.0.9</b>	Ampulla tubae uterinae	Ampulla of uterine tube
<b>E5.7.2.3.0.0.10</b>	Isthmus tubae uterinae	Isthmus of uterine tube
<b>E5.7.2.3.0.0.11</b>	Pars uterina tubae uterinae	Uterine part of uterine tube
<b>E5.7.2.3.0.0.12</b>	Pars conjuncta	Fused part
<b>E5.7.2.3.0.0.13</b>	Canalis uterovaginalis	Uterovaginal canal
<b>E5.7.2.3.1.0.1</b>	<b>Tuba uterina♀</b>	<b>Uterine tube♀</b>
<b>E5.7.2.3.1.0.2</b>	Tunica mucosa tubae uterinae	Mucosa of uterine tube; Mucous membrane of uterine tube
<b>E5.7.2.3.1.0.3</b>	Plica mucosae tubae uterinae	Mucosal fold of uterine tube
<b>E5.4.4.0.0.0.5</b>	Epithelium simplex columnare	Simple columnar epithelium
<b>E5.7.2.3.1.0.4</b>	Epitheliocytus ciliatus	Ciliated epithelial cell



<b>E5.7.2.3.1.0.5</b>	Exocrinocytus tubarius	Tubal secretory cell
<b>E5.7.2.3.1.0.6</b>	Epitheliocytus tubarius angustus	Peg cell; Intercalary cell
<b>E5.7.2.3.1.0.7</b>	Epitheliocytus tubarius basalis	Basal epithelial cell
<b>E5.4.3.0.0.2.9</b>	Lamina propria mucosae	Lamina propria
<b>E5.4.13.0.0.2.1</b>	Tunica muscularis	Muscular layer; Muscular coat
<b>E5.7.2.3.1.0.8</b>	Stratum circulare; Stratum internum	Circular layer; Internal layer
<b>E5.7.2.3.1.0.9</b>	Stratum longitudinale; Stratum externum	Longitudinal layer; External layer
<b>E5.7.2.2.0.0.11</b>	Tela subserosa	Subserosa; Subserous layer
<b>E5.7.2.3.1.0.10</b>	Tunica serosa; Perimetrium	Serosa; Serous coat; Perimetrium
<b>E5.7.2.3.2.0.1</b>	<b>Corpus uteri</b> ♀	<b>Body of uterus</b> ♀
<b>E5.7.2.3.2.0.2</b>	Tunica mucosa corporis uteri; Endometrium	Endometrium
<b>E5.4.4.0.0.0.5</b>	Epithelium simplex columnare	Simple columnar epithelium
<b>E5.7.2.3.1.0.4</b>	Epitheliocytus ciliatus	Ciliated epithelial cell
<b>E5.7.2.3.2.0.3</b>	Exocrinocytus uterinus	Uterine secretory cell
<b>E5.7.2.3.2.0.4</b>	Glandula uterina	Uterine gland
<b>E5.7.2.3.2.0.5</b>	Stroma endometriale; Lamina propria mucosae	Endometrial stroma; Lamina propria
<b>E5.7.2.3.2.0.6</b>	Cellula stromalis	Stromal cell
<b>E5.7.2.3.2.0.7</b>	Cellula granularis	Granular cell; Uterine natural killer [uNK] cell §Hamperl§
<b>E5.7.2.3.2.0.8</b>	Myometrium	Myometrium
<b>E5.7.2.3.2.0.9</b>	Tunica serosa; Perimetrium	Serosa; Serous coat; Perimetrium
<b>E5.7.2.3.3.0.1</b>	<b>Cervix uteri</b> ♀	<b>Cervix of uterus</b> ♀
<b>E5.7.2.3.3.0.2</b>	Tunica mucosae endocervicalis	Endocervical mucosa
<b>E5.4.4.0.0.0.5</b>	Epithelium simplex columnare	Simple columnar epithelium
<b>E5.5.3.0.1.0.29</b>	Mucocytus	Mucous cell
<b>E5.7.2.3.1.0.4</b>	Epitheliocytus ciliatus	Ciliated epithelial cell
<b>E5.7.2.3.3.0.3</b>	Glandula cervicalis	Cervical gland
<b>E5.7.2.3.3.0.4</b>	Tunica mucosae exocervicalis; Tunica mucosae portionis vaginalis	Exocervical mucosa; Mucosa of portio vaginalis
<b>E5.4.4.0.0.5.2</b>	Epithelium stratificatum squamosum non cornificatum	Nonkeratinized stratified squamous epithelium
<b>E5.7.2.3.4.0.1</b>	<b>Pars superior vaginae</b> ♀ {vide ulterius Cloaca}	<b>Upper part of vagina</b> ♀ {see Cloaca following}
<b>E5.7.2.3.5.0.1</b>	<b>Utriculus prostaticus; Pars superior vaginae masculinae</b> ♂ {vide ulterius Cloaca}	<b>Prostatic utricle; Upper part of vagina masculina</b> ♂ {see Cloaca following}
<b>E5.7.2.3.6.0.1</b>	<b>Anomaliae gonadarum et organorum genitalium internorum</b>	<b>Anomalies of gonads and internal genitalia</b>
<b>E5.7.2.3.6.0.2</b>	Anovaria	Absence of ovary
<b>E5.7.2.3.6.0.3</b>	Ovotestis <sup>196</sup>	Ovotestis
<b>E5.7.2.3.6.0.4</b>	Ovarium polycysticum	Polycystic ovary
<b>E5.7.2.3.6.0.5</b>	Polyovaria	Multiple ovaries
<b>E5.7.2.3.6.0.6</b>	Agenesis tubae uterinae	Agenesis of uterine tube
<b>E5.7.2.3.6.0.7</b>	Tuba uterina rudimentaria	Rudimentary uterine tube
<b>E5.7.2.3.6.0.8</b>	Atresia tubae uterinae	Atresia of uterine tube
<b>E5.7.2.3.6.0.9</b>	Ostium accessorium tubae uterinae	Accessory ostium of uterine tube
<b>E5.7.2.3.6.0.10</b>	Tuba uterina accessoria	Accessory uterine tube
<b>E5.7.2.3.6.0.11</b>	Agenesis uteri	Uterine agenesis
<b>E5.7.2.3.6.0.12</b>	Uterus arcuatus	Arcuate uterus
<b>E5.7.2.3.6.0.13</b>	Uterus bicornis	Bicornuate uterus
<b>E5.7.2.3.6.0.14</b>	Uterus bicervicalis	Bicervical uterus
<b>E5.7.2.3.6.0.15</b>	Uterus didelphys	Uterus didelphys
<b>E5.7.2.3.6.0.16</b>	Uterus duplex	Double uterus
<b>E5.7.2.3.6.0.17</b>	Uterus infantilis	Infantile uterus
<b>E5.7.2.3.6.0.18</b>	Uterus septatus	Septate uterus
<b>E5.7.2.3.6.0.19</b>	Uterus subseptatus	Subseptate uterus
<b>E5.7.2.3.6.0.20</b>	Uterus unicornis	Unicornuate uterus
<b>E5.7.2.3.6.0.21</b>	Agenesis vaginae	Vaginal agenesis
<b>E5.7.2.3.6.0.22</b>	Hymen imperforatus	Imperforate hymen

<sup>196</sup> E5.7.2.3.6.0.3 *Ovotestis* An abnormal gonad that contains both ovarian and testicular tissue.

<b>E5.7.2.3.6.0.23</b>	Vagina duplex	Double vagina
<b>E5.7.2.3.6.0.24</b>	Clitoris bifidus	Bifid clitoris
<b>E5.7.2.3.6.0.25</b>	Anorchismus	Anorchism
<b>E5.7.2.3.6.0.26</b>	Cryptorchismus	Cryptorchism
<b>E5.7.2.3.6.0.27</b>	Ectopia testis	Ectopic testis
<b>E5.7.2.3.6.0.28</b>	Testis contralateralis	Crossed testis
<b>E5.7.2.3.6.0.29</b>	Polyorchismus	Polyorchism
<b>E5.7.2.3.6.0.30</b>	Hydrocoelia	Hydrocoele <sup>▲</sup>
<b>E5.7.2.3.6.0.31</b>	Hydrocoelia testis	Testicular hydrocoele <sup>▲</sup>
<b>E5.7.2.3.6.0.32</b>	Hydrocoelia funiculi spermatici	Hydrocoele of spermatic cord <sup>▲</sup>
<b>E5.7.2.3.6.0.33</b>	Intersexus	Intersex
<b>E5.7.2.3.6.0.34</b>	Hermaphroditismus	True hermaphroditism
<b>E5.7.2.3.6.0.35</b>	Dysgenesis gonadalis mixta	Mixed gonadal dysgenesis
<b>E5.7.2.3.6.0.36</b>	Pseudohermaphroditismus {vide paginam <b>XX</b> }	Pseudohermaphroditism {see page <b>XX</b> <b>E5.7.4.0.2.0.1</b> }
<b>E5.4.0.0.0.14</b>	<b>Cloaca</b>	<b>Cloaca</b>
<b>E5.7.3.0.1.0.1</b>	<b>Diverticulum allantoicum; ductus allantoicus</b>	<b>Allantoic diverticulum; allantoic duct</b>
<b>E5.7.3.0.1.0.2</b>	Mesenchyma allantoicum et umbilicale	Allantoic and umbilical mesenchyme
<b>E5.4.9.0.2.0.14</b>	Septum urorectale	Urorectal septum
<b>E5.4.9.0.2.0.1</b>	<b>Metenteron</b>	<b>Hindgut</b>
<b>E5.4.9.0.2.0.11</b>	Rectum primordiale	Primordial rectum
<b>E5.4.10.0.0.2</b>	Pars metenteralis canalis analis	Hindgut part of anal canal
<b>E5.4.11.0.0.0.1</b>	Ureteron; Pars postcloacalis intestini <sup>197</sup>	Postcloacal gut; Tailgut; Endgut
<b>E5.6.2.0.0.4</b>	<b>Ductus mesonephricus</b>	<b>Mesonephric duct</b> §Wolff§
<b>E5.7.3.0.3.0.1</b>	Sinus urogenitalis primordialis	Primordial urogenital sinus
<b>E5.7.3.0.3.0.2</b>	Canalis vesicourethralis	Vesico-urethral canal
<b>E5.6.4.1.0.0.2</b>	Pars vesicalis canalis vesicourethralis {vide paginam <b>XX</b> }	Vesical part of vesico-urethral canal {see page <b>XX</b> <b>E5.6.4.0.0.2</b> }
<b>E5.6.4.2.1.0.1</b>	Pars urethralis canalis vesicourethralis {vide paginam <b>XX</b> }	Urethral part of vesico-urethral canal {see page <b>XX</b> <b>E5.6.4.2.1.0.1</b> }
<b>E5.6.4.2.1.1.2</b>	<b>Tuberculum sinuale fugax</b> ♀ <sup>185</sup>	<b>Transient sinus tubercle</b> ♀ §Müller§
<b>E5.7.3.0.4.0.1</b>	Bulbus sinuvaginalis ♀	Sinuvaginal bulb ♀
<b>E5.7.3.0.4.0.2</b>	Lamina vaginae	Vaginal plate
<b>E3.0.0.6.1.0.5</b>	Canalisatio	Canalisation
<b>E5.7.3.0.4.0.3</b>	Vagina <sup>198</sup>	Vagina
<b>E5.7.3.0.4.0.4</b>	Hymen	Hymen
<b>E5.7.3.0.5.0.1</b>	<b>Histogenesis vaginae</b>	<b>Histogenesis of vagina; Histogeny of vagina</b>
<b>E5.4.4.0.0.5.2</b>	Epithelium stratificatum squamosum non cornificatum	Nonkeratinized stratified squamous epithelium
<b>E5.7.3.0.5.0.2</b>	Epitheliocytus basalis	Basal cell
<b>E5.7.3.0.5.0.3</b>	Epitheliocytus parabasalis	Parabasal epithelial cell
<b>E5.7.3.0.5.0.4</b>	Epitheliocytus superficialis	Superficial epithelial cell
<b>E5.6.4.2.1.1.8</b>	Tunica spongiosa	Spongy layer
<b>E5.4.13.0.0.2.1</b>	Tunica muscularis	Muscular layer; Muscular coat
<b>E5.7.2.3.5.0.5</b>	Stratum circulare; Stratum internum	Circular layer; Internal layer
<b>E5.7.2.3.5.0.6</b>	Stratum longitudinale; Stratum externum	Longitudinal layer; External layer
<b>E5.4.3.0.0.2.11</b>	Tunica adventitia	Adventitial layer; Adventitial coat
<b>E5.6.4.2.1.2.2</b>	<b>Tuberculum sinuale</b> ♂ <sup>185</sup>	<b>Sinus tubercle</b> ♂ §Müller§
<b>E5.7.3.0.6.0.1</b>	Bulbus sinuutricularis ♂	Sinu-utricular bulb ♂
<b>E5.6.4.2.1.2.3</b>	Colliculus seminalis	Seminal colliculus
<b>E5.6.4.2.1.2.4</b>	Glandula collicularis	Collicular gland
<b>E5.6.4.2.1.2.5</b>	Utriculus prostaticus; Vagina masculina <sup>198</sup>	Prostatic utricle; Vagina masculina
<b>E5.7.3.1.0.0.1</b>	<b>SINUS UROGENITALIS DEFINITIVUS</b>	<b>DEFINITIVE UROGENITAL SINUS</b>
<b>E5.6.4.2.1.3.1</b>	Pars pelvina sinus urogenitalis definitivi {vide etiam paginam <b>XX</b> }	Pelvic part of definitive urogenital sinus {see also page <b>XX</b> <b>E5.6.4.2.1.3.1</b> }

<sup>197</sup> E5.4.11.0.0.0.1 *Ureteron; Pars postcloacalis intestini* The term postanal gut is a misnomer because the tailgut is evanescent and has disappeared before there is an established anorectum.

<sup>198</sup> E5.7.3.0.4.0.3/ E5.6.4.2.1.2.5 *Vagina / Utriculus prostaticus; Vagina masculina* Accounts vary but the cephalic parts of the vagina and of the utricle are probably derived from the paramesonephric ducts and their caudal parts from the mixed epithelium of the sinus tubercle.

<b>E5.7.3.1.0.0.2</b>	Apertura communis urethrae et vaginae♀	Common opening of urethra and vagina♀
<b>E5.7.3.1.0.0.3</b>	Perineum primarium <sup>199</sup>	Primary perineum
<b>E5.6.4.2.1.4.3</b>	Crescentia perinei <sup>187</sup>	Growth of perineum
<b>E5.7.3.1.0.0.4</b>	Perineum secundarium <sup>200</sup>	Secondary perineum
<b>E5.7.3.1.0.0.5</b>	Corpus perineale; Centrum perinei	Perineal body
<b>E5.7.3.1.0.0.6</b>	Aperturae disjunctae urethrae et vaginae♀	Separate openings of urethra and vagina♀
<b>E5.7.3.1.0.0.7</b>	Pars prostatica urethrae♂	Prostatic urethra♂
<b>E5.6.4.2.1.6.1</b>	Pars intermedia urethrae; Pars membranacea urethrae♂	Intermediate part of urethra; Membranous urethra♂
<b>E5.6.4.2.1.7.1</b>	Pars phallica sinus urogenitalis definitivi {vide paginam <b>XX</b> }	Phallic part of definitive urogenital sinus {see page <b>XX E5.6.4.2.1.7.1</b> }
<b>E5.4.0.0.0.0.15</b>	Membrana cloacalis	Cloacal membrane
<b>E5.4.10.0.0.0.7</b>	Abruptio membranae cloacalis	Rupture of cloacal membrane
<b>E5.7.3.2.0.0.1</b>	<b>ANOMALIAE CLOACAE</b>	<b>ANOMALIES OF CLOACA</b>
<b>E5.7.3.2.0.0.2</b>	Cloaca persistens	Persistent cloaca
<b>E5.7.3.2.0.0.3</b>	Exstrophia cloacae	Exstrophy of cloaca
<b>E5.7.3.2.0.0.4</b>	Fistula rectalis congenita	Congenital rectal fistula
<b>E5.4.11.0.1.0.8</b>	Fistula rectourethralis	Recto-urethral fistula
<b>E5.4.11.0.1.0.5</b>	Fistula rectovaginalis	Rectovaginal fistula
<b>E5.4.11.0.1.0.7</b>	Fistula rectovestibularis	Rectovestibular fistula
<b>E5.7.3.2.0.0.5</b>	Fistula rectovesicalis congenita	Congenital rectovesical fistula
<b>E5.7.3.2.0.0.6</b>	Fistula vesicalis congenita	Congenital vesical fistula
<b>E5.7.3.2.0.0.7</b>	Fistula vesicouterina	Vesico-uterine fistula
<b>E5.7.3.2.0.0.8</b>	Fistula vesicovaginalis	Vesicovaginal fistula
<b>E5.7.4.0.0.0.1</b>	<b>Organa genitalia externa</b>	<b>External genitalia</b>
<b>E5.7.1.1.0.0.1</b>	<b>Stadium neutrale</b>	<b>Indifferent stage</b>
<b>E5.7.4.0.1.0.1</b>	Tuberculum phallicum; Tuberculum genitale	Phallic tubercle; Genital tubercle
<b>E5.7.4.0.1.0.2</b>	Phallus primordialis	Primordial phallus
<b>E5.7.4.0.1.0.3</b>	Lamina urethralis endodermalis	Endodermal urethral plate
<b>E5.7.4.0.1.0.4</b>	Tuberculum labioscrotale	Labioscrotal swelling; Genital swelling
<b>E5.7.4.0.1.0.5</b>	Plica cloacalis <sup>201</sup>	Cloacal fold
<b>E5.6.4.2.1.7.4</b>	Plica urethralis primaria	Primary urethral fold
<b>E5.6.4.2.1.7.3</b>	Sulcus urethralis primarius	Primary urethral groove
<b>E3.0.0.6.1.0.6</b>	Cavatio	Cavitation
<b>E5.6.4.2.1.7.5</b>	Sulcus urethralis secundarius	Secondary urethral groove
<b>E5.6.4.2.1.7.6</b>	Plica urethralis secundarius	Secondary urethral fold
<b>E5.7.4.0.1.0.6</b>	Plica analis	Anal fold
<b>E5.4.0.0.0.0.13</b>	Fovea analis <sup>142</sup>	Anal pit
<b>E5.4.10.0.0.0.7</b>	Abruptio membranae cloacalis	Rupture of cloacal membrane
<b>E5.7.3.1.0.0.4</b>	Perineum secundarium <sup>200</sup>	Secondary perineum
<b>E5.7.4.0.2.0.1</b>	<b>Stadium discriminatum</b>	<b>Differentiating stage</b>
<b>E5.7.4.0.2.1.1</b>	<b>Tuberculum phallicum; Tuberculum genitale</b>	<b>Phallic tubercle; Genital tubercle</b>
<b>E5.6.4.2.1.7.1</b>	Pars phallica sinus urogenitalis definitivi {vide etiam supra et paginam <b>XX</b> }	Phallic part of definitive urogenital sinus {see also above and page <b>XX E5.6.4.2.1.7.1</b> }
<b>E5.7.4.0.2.1.2</b>	Corpus et glans clitoridis♀	Body and glans of clitoris♀
<b>E5.7.4.0.2.1.3</b>	Glans et pars dorsalis corporis penis♂	Glans and dorsal part of body of penis♂
<b>E5.7.4.0.2.1.4</b>	Sulcus coronarius	Coronary groove
<b>E5.7.4.0.2.1.5</b>	Glans clitoridis♀	Glans of clitoris♀
<b>E5.7.4.0.2.1.6</b>	Glans penis♂	Glans of penis♂
<b>E5.7.4.0.2.1.7</b>	Plica glandopraeputialis glandis	Preputial fold of glans
<b>E5.7.4.0.2.1.8</b>	Lamella glandopraeputialis glandis	Preputial lamella of glans
<b>E5.7.4.0.2.1.9</b>	Praeputium	Prepuce
<b>E5.6.4.2.1.7.2</b>	Lamina urethralis; Chorda glandis	Urethral plate; Cord of glans

<sup>199</sup> E5.7.3.1.0.0.3 *Perineum primarium* Mesenchyme from the caudal eminence tracks around the anal pit and forms the *primary perineum* between the anal canal and the pelvic part of definitive urogenital sinus.

<sup>200</sup> E5.7.3.1.0.0.4 *Perineum secundarium* As the perineum is reinforced by mesenchyme from the urorectal septum, it becomes prominent and expands forming the *perineal body*.

<sup>201</sup> E5.7.4.0.1.0.5 *Plica cloacalis* The *cloacal folds* are commonly referred to as primary urethral folds. However, they extend beyond presumptive urethra to flank the presumptive anus and thus have both urethral and anal derivatives, the primary urethral and anal folds.

<b>E5.6.4.2.1.8.10</b>	Fossa navicularis urethrae♂	Navicular fossa ♂
<b>E5.6.4.2.1.7.6</b>	<b>Plica urethralis secundarius</b>	<b>Secondary urethral fold</b>
<b>E5.7.4.0.2.2.1</b>	Labium minus♀	Labium minus♀
<b>E5.7.4.0.2.2.2</b>	Frenulum labiorum pudendi♀	Frenulum of labia minora; Fourchette♀
<b>E5.7.4.0.2.2.3</b>	Vestibulum vaginae♀	Vestibule of vagina♀
<b>E5.7.4.0.2.2.4</b>	Corpus spongiosum clitoridis; Bulbus vestibularis <sup>202</sup>	Corpus spongiosum of clitoris; Vestibular bulb
<b>E5.7.4.0.2.2.5</b>	Glandula vestibularis major♀	Greater vestibular gland♀ §Bartholin§
<b>E5.7.4.0.2.2.6</b>	Exocrinocytus glandulae vestibularis major♀	Secretory cell of greater vestibular gland♀
<b>E5.7.4.0.2.2.7</b>	Endocrinocytus glandulae vestibularis majoris♀ <sup>203</sup>	Endocrine cell of greater vestibular gland♀
<b>E5.5.3.0.1.0.31</b>	Myoepitheliocytus	Myo-epithelial cell
<b>E5.7.4.0.2.2.8</b>	Glandula vestibularis minor♀	Lesser vestibular gland♀
<b>E5.6.4.2.1.7.3</b>	Sulcus urethralis primarius♂	Primary urethral groove♂
<b>E5.6.4.2.1.7.4</b>	Plica urethralis primaria♂	Primary urethral fold♂
<b>E3.0.0.6.1.0.6</b>	Cavatio	Cavitation
<b>E5.6.4.2.1.7.5</b>	Sulcus urethralis secundarius♂	Secondary urethral groove♂
<b>E5.6.4.2.1.7.6</b>	Plica urethralis secundarius♂	Secondary urethral fold♂
<b>E4.0.4.1.0.0.6</b>	Mesenchyma ex eminentia caudale	Mesenchyme from caudal eminence
<b>E3.0.0.6.1.0.10</b>	Conjunctio	Fusion
<b>E5.6.4.2.1.8.1</b>	Pars spongiosa urethrae♂	Spongy urethra♂
<b>E5.7.4.0.1.0.4</b>	<b>Tuberculum labioscrotale</b>	<b>Labioscrotal swelling; Genital swelling</b>
<b>E5.7.4.0.2.3.1</b>	Labium majus♀	Labium majus♀
<b>E5.7.4.0.2.3.2</b>	Commissura labiorum anterior♀	Anterior commissure♀
<b>E5.7.4.0.2.3.3</b>	Commissura labiorum posterior♀	Posterior commissure♀
<b>E5.7.4.0.2.3.4</b>	Scrotum♂	Scrotum♂
<b>E5.7.4.0.2.3.5</b>	Raphe scroti♂	Raphe of scrotum♂
<b>E5.7.4.0.2.3.6</b>	Raphe perinealis♂	Perineal raphe♂
<b>E5.7.4.0.3.0.1</b>	<b>Anomaliae organorum genitalium externorum et tractus urinarii inferioris</b>	<b>Anomalies of external genitalia and lower urinary tract</b>
<b>E5.7.4.0.3.0.2</b>	Epispadias	Epispadias
<b>E5.7.4.0.3.0.3</b>	Hypospadias	Hypospadias
<b>E5.7.4.0.3.0.4</b>	Hypospadias glandis	Hypospadias of glans; Glandular hypospadias
<b>E5.7.4.0.3.0.5</b>	Hypospadias corporis penis	Penile hypospadias
<b>E5.7.4.0.3.0.6</b>	Hypospadias penoscrotalis	Penoscrotal hypospadias
<b>E5.7.4.0.3.0.7</b>	Hypospadias perinealis	Perineal hypospadias
<b>E5.7.4.0.3.0.8</b>	Penis bifidus	Bifid penis
<b>E5.7.4.0.3.0.9</b>	Phimosis	Phimosis
<b>E5.7.4.0.3.0.10</b>	Pseudohermaphroditismus	Pseudohermaphroditism
<b>E5.7.4.0.3.0.11</b>	Pseudohermaphroditismus femininus	Female pseudohermaphroditism
<b>E5.7.4.0.3.0.12</b>	Pseudohermaphroditismus masculinus	Male pseudohermaphroditism
<b>E5.7.4.0.3.0.13</b>	Agenesis vesicae urinariae	Agenesis of bladder
<b>E5.7.4.0.3.0.14</b>	Ectopia vesicae urinariae	Ectopic urinary bladder
<b>E5.7.4.0.3.0.15</b>	Exstrophia vesicae urinariae	Exstrophy of bladder
<b>E5.7.4.0.3.0.16</b>	Vesica urinaria duplex	Double bladder
<b>E5.7.4.0.3.0.17</b>	Cystis urachi	Urachal cyst
<b>E5.7.4.0.3.0.18</b>	Sinus urachi	Urachal sinus
<b>E5.7.4.0.3.0.19</b>	Fistula urachi	Urachal fistula
<b>E5.8.0.0.0.0.1</b>	<b>Coeloma et septa<sup>204</sup></b>	<b>Coelom and septa<sup>▲</sup></b>

<sup>202</sup> E5.7.4.0.2.1.4 *Corpus spongiosum clitoridis; Bulbus vestibularis* The corpus spongiosum of the clitoris extends anteriorly from the bilateral vestibular bulbs to terminate as the glans clitoridis and corresponds to the corpus spongiosum penis (Van Turnhout AA, Hage JJ, van Diest PJ. The female corpus spongiosum revisited. Acta Obstet Gynecol Scand 1995; 74: 767–771). For homology with the male, this term is preferred to the proposed term bulbus clitoridis (O'Connell HE, Hutson JM, Anderson CR, Plenter RJ. Anatomical relationship between urethra and clitoris. J Urol 1998; 159: 1892–1897).

<sup>203</sup> E5.7.4.0.2.1.7 *Endocrinocytus glandulae vestibularis majoris* Endocrine cells similar to those found elsewhere in the urogenital tract (Fetissof F, Arbeille B, Bellet D, Barre I, Lansac J. Endocrine cells in human Bartholin's glands. Virch Arch B Cell Pathol 1989; 57: 117–121).

<sup>204</sup> E5.8.0.0.0.0.1 *Coelomata et septa* The coelom is described as a tubular blastema. The walls of this hollow organ are built up of prospective mesothelium which delimits the lumen from the surrounding mesenchyme. The lumen enlarges by the coalescence of small spaces in this mesenchyme. In this way organs are "liberated" from their surrounding mesenchyme and may reach an intraserosal position. This process leads to serosal connections of the organs with the body wall, carrying vessels and nerves. The mesenterial relations in the developing embryo are quite different from those in the fetus. The "mesenteria" are relatively much more voluminous in the younger organism. They are shaped by the

<b>E5.8.0.0.1.0.1</b>	<b>Coeloma extraembryonic</b>	<b>Extra-embryonic coelom<sup>▲</sup></b>
<b>E5.8.0.0.1.0.2</b>	Cavitas chorionica	Chorionic cavity
<b>E5.8.0.0.1.0.3</b>	Coeloma umbilicale <sup>205</sup>	Umbilical coelom <sup>▲</sup>
<b>E5.8.0.0.2.0.1</b>	<b>Coeloma intraembryonic</b>	<b>Intra-embryonic coelom<sup>▲</sup></b>
<b>E5.8.0.0.2.0.2</b>	Cavitas coelomica	Coelomic cavity; Coelomic vesicle; Coelomic space <sup>▲</sup>
<b>E5.7.1.1.0.0.2</b>	Epithelium coelomicum	Coelomic epithelium <sup>▲</sup>
<b>E5.0.3.0.0.0.2</b>	Mesoderma laminae lateralis	Lateral plate mesoderm
<b>E5.8.0.0.2.0.3</b>	Cavatio mesenchymatis	Cavitation of mesenchyme
<b>E5.8.0.0.2.0.4</b>	Spatia coelomica segrega	Isolated coelomic spaces <sup>▲</sup>
<b>E5.8.0.0.2.0.5</b>	Spatia coelomica coalita	Coalesced coelomic spaces <sup>▲</sup>
<b>E5.8.0.0.2.0.6</b>	Mesenchyma cardiogenicum	Cardiogenic mesenchyme
<b>E5.2.0.4.0.0.2</b>	Septum transversum	Septum transversum
<b>E5.8.0.0.2.0.7</b>	Pars transversa cavitatis coelomaticae	Transverse part of coelomic cavity <sup>▲</sup>
<b>E5.8.0.0.2.0.8</b>	Cavitas pericardiaca primordialis	Primordial pericardial cavity
<b>E5.8.0.0.2.0.9</b>	Canalis pericardioperitonealis primordialis	Primordial pericardioperitoneal canal
<b>E4.0.4.1.0.0.3</b>	Mesenchyma somatopleurale <sup>206</sup>	Somatopleuric mesenchyme
<b>E4.0.4.1.0.0.4</b>	Mesenchyma splanchnopleurale <sup>207</sup>	Splanchnopleuric mesenchyme
<b>E5.8.0.0.2.0.10</b>	Pars longitudinalis cavitatis coelomaticae	Longitudinal part of coelomic cavity <sup>▲</sup>
<b>E5.8.0.0.2.0.11</b>	Zona junctionalis mesenchymalis <sup>208</sup>	Junctional zone of mesenchyme
<b>E5.8.0.0.2.0.12</b>	Communicatio inter coelomata embryonicum et extraembryonicum	Communication between intra-embryonic and extra-embryonic coeloms <sup>▲</sup>
<b>E5.8.0.0.3.0.1</b>	<b>Cavitas pericardiaca</b>	<b>Pericardial cavity</b>
<b>E5.8.0.0.2.0.8</b>	Cavitas pericardiaca primordialis	Primordial pericardial cavity
<b>E5.8.0.0.3.0.2</b>	Primordium epicardii; Proepicardium <sup>209</sup>	Primordium of epicardium; Pro-epicardium
<b>E5.8.0.0.3.0.3</b>	Mesocardium <sup>210</sup>	Mesocardium; Dorsal mesocardium
<b>E5.8.0.0.3.0.4</b>	Ruptura mesocardii	Breakdown of mesocardium
<b>E5.8.0.0.3.0.5</b>	Sinus transversus pericardii	Transverse pericardial sinus
<b>E5.8.0.0.4.0.1</b>	<b>Pars rostralis canalis pericardioperitonealis</b>	<b>Rostral part of pericardioperitoneal canal</b>
<b>E5.8.0.0.4.0.2</b>	Invaginatio faciei medialis canalis pericardioperitonealis a pulmone primordiale	Invagination of medial aspect of pericardioperitoneal canal by primordial lung
<b>E5.8.0.0.4.0.3</b>	Hiatus pleuropericardiacus	Pleuropericardial opening
<b>E5.8.0.0.4.0.4</b>	Plica pleuropericardiaca septi transversi <sup>211</sup>	Pleuropericardial fold of septum transversum
<b>E5.8.0.0.4.0.5</b>	Membrana pleuropericardiaca	Pleuropericardial membrane
<b>E5.8.0.0.4.0.6</b>	Cavitas pleuralis	Pleural cavity
<b>E5.8.0.0.4.0.7</b>	Hiatus pleuroperitonealis	Pleuroperitoneal opening
<b>E5.8.0.0.4.0.8</b>	Plica pleuroperitonealis	Pleuroperitoneal fold
<b>E5.8.0.0.4.0.9</b>	Membrana pleuroperitonealis	Pleuroperitoneal membrane
<b>E5.2.0.4.0.0.1</b>	Diaphragma	Diaphragm
<b>E5.8.0.0.5.0.1</b>	<b>Pars caudalis canalis pericardioperitonealis</b>	<b>Caudal part of pericardioperitoneal canal</b>

mentioned "liberation" process and much less so by real folding and rotation. Notwithstanding this difference in relations and topography, the names of the ligaments and plicae (folds) are identical with those in Terminologia Anatomica (1998).

<sup>205</sup> E5.8.0.0.1.0.3 *Coeloma umbilicale* The coelom in the proximal part of the umbilical cord communicates with the intraembryonic coelom and is a remnant of the extraembryonic coelom, most of which is obliterated as the amnion surrounds the connecting stalk to form the umbilical cord.

<sup>206</sup> E4.0.4.1.0.0.3 *Mesenchyma somatopleurale* Together with ectoderm, *somatopleuric mesenchyme* makes up the body wall. The unqualified term *somatopleure* is not recommended because it is ambiguous, having been used to mean either the whole thickness of the body wall or only its mesenchymal component.

<sup>207</sup> E4.0.4.1.0.0.4 *Mesenchyma splanchnopleurale* Together with endoderm, the *splanchnopleuric mesenchyme* makes up the walls of the gut-related viscera. The unqualified term *splanchnopleure* is not recommended because it is ambiguous, having been used to mean either the whole thickness of the visceral wall or only its mesenchymal component.

<sup>208</sup> E5.8.0.0.2.0.11 *Zona junctionalis mesenchymalis* The bar of mesenchyme where somatopleuric and splanchnopleuric mesenchymes meet and which separates the embryonic and extra-embryonic coeloms on each side of the Stage 9 embryo. It breaks down, allowing them to communicate, in Stage 10.

<sup>209</sup> E5.8.0.0.3.0.2 *Primordium epicardii; Proepicardium* A cluster of mesothelial cells over the septum transversum; pro-epicardial vesicles flatten and join to form the epicardium, the cells of which undergo epitheliomesenchymal transformation and invade the heart tube (Poelmann RE, Lie-Venema H, Gittenberger-de Groot AC. The role of the epicardium and the neural crest. *Tex Heart Inst J* 2002;29:255-261).

<sup>210</sup> E5.8.0.0.3.0.3 *Mesocardium* Although a homologue of the dorsal mesocardium in other species, the recommended term is *mesocardium* because, unlike chick embryos, there is no corresponding ventral mesocardium in normal human embryos.

<sup>211</sup> E5.8.0.0.4.0.4 *Plica pleuropericardialis septi transversi* The *pleuropericardial fold of the septum transversum* contains the common cardinal vein.

<b>E5.8.0.0.5.0.2</b>	Cavitas peritonealis propria	Greater sac
<b>E5.8.0.0.5.0.3</b>	Spatium subphrenicum	Subphrenic space
<b>E5.8.0.0.5.0.4</b>	Recessus duodenalis superior	Superior duodenal recess §Treves§
<b>E5.8.0.0.5.0.5</b>	Recessus duodenalis inferior	Inferior duodenal recess §Treves§
<b>E5.8.0.0.5.0.6</b>	Recessus paraduodenalis	Paraduodenal recess
<b>E5.8.0.0.5.0.7</b>	Recessus retroduodenalis	Retroduodenal recess
<b>E5.8.0.0.5.0.8</b>	Recessus duodenojejunalis; Recessus mesocolicus	Duodenojejunal recess; Mesocolic recess
<b>E5.8.0.0.5.0.9</b>	Recessus ileocaecalis inferior	Inferior ileocaecal recess <sup>▲</sup> §Treves§
<b>E5.8.0.0.5.0.10</b>	Recessus mesentericoparietalis	Mesentericoparietal recess §Waldeyer§
<b>E5.8.0.0.5.0.12</b>	Processus vaginalis	Vaginal process
<b>E5.8.0.0.5.0.13</b>	(Vestigium processus vaginalis)	(Vestige of processus vaginalis) <sup>♀</sup> §Nück§
<b>E5.8.0.0.5.0.14</b>	Tunica vaginalis testis	Tunica vaginalis testis
<b>E5.8.0.0.5.0.15</b>	Bursa omentalis <sup>212</sup>	Omental bursa; Lesser sac
<b>E5.8.0.0.5.0.16</b>	Recessus pneumatoenterici	Pneumato-enteric recesses
<b>E5.8.0.0.5.0.17</b>	Recessus pneumatoentericus dexter	Right pneumato-enteric recess
<b>E5.8.0.0.5.0.18</b>	Recessus hepatoentericus dexter	Right hepato-enteric recess
<b>E5.8.0.0.5.0.19</b>	Bursa infracardialis	Infracardiac bursa
<b>E5.8.0.0.5.0.20</b>	Recessus superior bursae omentalis	Superior recess of omental bursa; Superior recess of lesser sac
<b>E5.8.0.0.5.0.21</b>	Recessus inferior bursae omentalis; Bursa omentalis propria	Inferior recess of omental bursa; Inferior recess of lesser sac; Omental bursa proper
<b>E5.8.0.0.5.0.22</b>	Plica pancreaticoduodenalis	Pancreaticoduodenal fold
<b>E5.8.0.0.5.0.23</b>	Recessus splenicus; Recessus lienalis	Splenic recess
<b>E5.8.0.0.5.0.24</b>	Plica gastropancreatica	Gastropancreatic fold
<b>E5.8.0.0.5.0.25</b>	Vestibulum bursae omentalis	Vestibule of omental bursa; Vestibule of lesser sac
<b>E5.8.0.0.5.0.26</b>	Communicatio inter cavitatem peritonealem propriam et bursam omentalem	Communication between greater sac and omental bursa; Communication between greater sac and lesser sac
<b>E5.8.0.0.5.0.27</b>	Foramen omentale; Foramen epiploicum	Omental foramen; Epiploic foramen §Winslow§
<b>E5.8.0.0.2.0.12</b>	<b>Communicatio inter coelomata embryonicum et extraembryonicum</b>	<b>Communication between intra-embryonic and extra-embryonic coeloms<sup>▲</sup></b>
<b>E5.8.0.0.1.0.3</b>	Coeloma umbilicale <sup>205</sup>	Umbilical coelom <sup>▲</sup>
<b>E5.8.0.0.6.0.1</b>	Communicatio inter latera dextrum et sinistrum cavitatis peritonealis caudaliter ductui omphaloenterico	Communication between right and left sides of peritoneal cavity caudal to omphalo-enteric duct
<b>E5.8.0.0.6.0.2</b>	Communicatio inter latera dextrum et sinistrum cavitatis peritonealis cranialiter ductui omphaloenterico	Communication between right and left sides of peritoneal cavity cranial to omphalo-enteric duct
<b>E5.2.0.3.2.0.9</b>	Anulus umbilicalis <sup>213</sup>	Umbilical ring
<b>E5.8.0.0.7.0.1</b>	<b>Herniae abnormales</b>	<b>Abnormal hernias</b>
<b>E5.8.0.0.7.0.2</b>	Hernia diaphragmatica	Diaphragmatic hernia
<b>E5.8.0.0.7.0.3</b>	Hernia glutealis	Sciatic hernia; Gluteal hernia
<b>E5.8.0.0.7.0.4</b>	Hernia inguinalis	Inguinal hernia
<b>E5.8.0.0.7.0.5</b>	Processus vaginalis persistens	Patent processus vaginalis
<b>E5.8.0.0.7.0.6</b>	Hernia fluitans appendicis	Sliding hernia of appendix
<b>E5.8.0.0.7.0.7</b>	Hernia fluitans coli	Sliding hernia of colon
<b>E5.2.0.4.1.0.7</b>	Hernia fluitans hiatus; Hernia fluitans oesophagi	Sliding hiatus hernia; Sliding hernia of oesophagus <sup>▲</sup>
<b>E5.8.0.0.7.0.8</b>	Hernia obturatoria	Obturator hernia
<b>E5.8.0.0.7.0.9</b>	Hernia peritonealis	Peritoneal hernia
<b>E5.8.0.0.7.0.10</b>	Hernia retrocaecalis	Retrocaecal hernia <sup>▲</sup>

<sup>212</sup> E5.8.0.0.5.0.15 *Bursa omentalis* The *anlage* of the omental bursa is a thickening and invagination of coelomic epithelium on the right side of the dorsal mesogastrium (C. Viebahn, unpublished observation on 7mm embryo).

<sup>213</sup> E5.2.0.3.2.0.9 *Anulus umbilicalis* The term *umbilical ring* is used in two different but related ways: firstly, it describes the site on the ventral aspect of an embryo where the margins of the folded embryonic disc converge – the structures transmitted by the ring become covered by amnion and mesenchyme and form the umbilical cord; secondly, it describes the opening through which the umbilical vessels pass: in young embryos it is relatively closer to the pubis than in the fetus, in which it becomes an umbilical hiatus in the linea alba, which normally closes in postnatal life.

<b>E5.8.0.0.7.0.11</b>	Hernia umbilicalis	Umbilical hernia
<b>E5.9.0.0.0.0.1</b>	<b>Massae mesenchymales mesentericae; Mesenteria primordialis</b>	<b>Mesenchymal mesenteric masses; Primordial mesenteries</b>
<b>E5.9.0.0.0.0.2</b>	Mesenterium dorsale primordiale	Primordial dorsal mesentery
<b>E5.8.0.0.3.0.3</b>	Mesocardium <sup>210</sup>	Mesocardium; Dorsal mesocardium
<b>E5.9.0.0.0.0.3</b>	Mesoesophagum dorsale	Dorsal meso-oesophagus <sup>▲</sup>
<b>E5.9.0.0.0.0.4</b>	Mesogastrium dorsale	Dorsal mesogastrium
<b>E5.9.0.0.0.0.5</b>	Omentum majus	Greater omentum
<b>E5.9.0.0.0.0.6</b>	Plica cystoduodenalis	Cystoduodenal fold
<b>E5.9.0.0.0.0.7</b>	Plica gastrocolica	Gastrocolic fold
<b>E5.9.0.0.0.0.8</b>	Plica gastrophrenica	Gastrophrenic fold
<b>E5.9.0.0.0.0.9</b>	Plica gastrosplenica; Plica gastrolienalis	Gastrosplenic fold; Gastrolienal fold
<b>E5.9.0.0.0.0.10</b>	Plica pancreaticocolica	Pancreaticocolic fold
<b>E5.9.0.0.0.0.11</b>	Plica pancreaticosplenica	Pancreaticosplenic fold
<b>E5.9.0.0.0.0.12</b>	Plica paraduodenalis	Paraduodenal fold
<b>E5.9.0.0.0.0.13</b>	Plica presplenis	Presplenic fold
<b>E5.9.0.0.0.0.14</b>	Plica vascularis caecalis	Vascular fold of caecum <sup>▲</sup>
<b>E5.9.0.0.0.0.15</b>	Plica phrenicocolica	Phrenicocolic fold
<b>E5.9.0.0.0.0.16</b>	Plica phrenicosplenica	Phrenicosplenic fold
<b>E5.9.0.0.0.0.17</b>	Plica praesplenica	Presplenic fold
<b>E5.9.0.0.0.0.18</b>	Plica splenorenalis; Plica lienorenalis	Splenorenal fold; Lienorenal fold
<b>E5.4.6.0.0.0.6</b>	Mesoduodenum dorsale	Dorsal mesoduodenum
<b>E5.4.8.0.0.0.7</b>	Mesenterium dorsale commune	Common dorsal mesentery
<b>E5.4.8.0.0.0.8</b>	Mesojejenum	Mesojejenum
<b>E5.4.8.0.0.0.9</b>	Mesoileum	Meso-ileum
<b>E5.9.0.0.0.0.19</b>	Mesoappendix	Mesoappendix
<b>E5.9.0.0.0.0.20</b>	Mesocolon	Mesocolon
<b>E5.4.9.0.2.0.13</b>	Mesorectum	Mesorectum
<b>E5.9.0.0.0.0.21</b>	Mesenterium ventrale primordiale	Primordial ventral mesentery
<b>E5.9.0.0.0.0.22</b>	Omentum minus	Lesser omentum
<b>E5.9.0.0.0.0.23</b>	Mesoesophageum ventrale	Ventral meso-oesophagus <sup>▲</sup>
<b>E5.9.0.0.0.0.24</b>	Plica hepatooesophagea	Hepato-oesophageal fold <sup>▲</sup>
<b>E5.9.0.0.0.0.25</b>	Plica hepatophrenica	Hepatophrenic fold
<b>E5.9.0.0.0.0.26</b>	Mesogastrium ventrale	Ventral mesogastrium
<b>E5.9.0.0.0.0.27</b>	Plica hepatogastrica	Hepatogastric fold
<b>E5.4.6.0.0.0.7</b>	Mesoduodenum ventrale	Ventral mesoduodenum
<b>E5.9.0.0.0.0.28</b>	Plica hepatoduodenalis	Hepatoduodenal fold
<b>E5.9.0.0.0.0.29</b>	Mesocolon ventrale	Ventral mesocolon
<b>E5.9.0.0.0.0.30</b>	Plica hepatocolica	Hepatocolic fold
<b>E5.9.0.0.0.0.31</b>	Plica umbilicalis mediana	Median umbilical fold
<b>E5.9.0.0.0.0.32</b>	Plica umbilicalis medialis	Medial umbilical fold
<b>E5.9.0.0.0.0.33</b>	Mesenterium urogenitale	Urogenital mesentery
<b>E5.9.0.0.0.0.34</b>	Lig. suspensorium ovarii <sup>♀</sup>	Suspensory ligament of ovary <sup>♀</sup> ; Infundibulopelvic ligament <sup>♀</sup>
<b>E5.9.0.0.0.0.35</b>	Mesorchium <sup>♂</sup>	Mesorchium <sup>♂</sup>
<b>E5.9.0.0.0.0.36</b>	Mesenterium ductus paramesonephrici	Paramesonephric duct mesentery
<b>E5.9.0.0.0.0.37</b>	Plica lata uterina	Broad ligament of uterus
<b>E5.7.1.2.0.0.10</b>	Mesovarium	Mesovarium
<b>E5.9.0.0.0.0.38</b>	Mesosalpinx	Mesosalpinx
<b>E5.9.0.0.0.0.39</b>	Mesometrium	Mesometrium
<b>E5.9.0.0.0.0.40</b>	Mesenchyma gubernaculare	Gubernacular mesenchyme
<b>E5.9.0.0.0.0.41</b>	Gubernaculum ovarii	Gubernaculum of ovary
<b>E5.9.0.0.0.0.42</b>	Lig. ovarii proprium; Lig. uteroovaricum	Ligament of ovary
<b>E5.9.0.0.0.0.43</b>	Lig. teres uteri	Round ligament of uterus
<b>E5.9.0.0.0.0.44</b>	Gubernaculum testis	Gubernaculum of testis
<b>E5.9.0.0.0.0.45</b>	Lig. scrotale <sup>214</sup>	Scrotal ligament
<b>E5.9.0.0.1.0.1</b>	<b>Anomaliae mesenterii</b>	<b>Mesenteric defects</b>
<b>E5.9.0.0.1.0.2</b>	Cystis enterica dorsalis abdominalis	Abdominal dorsal enteric cyst

<sup>214</sup> E5.9.0.0.0.0.45 *Lig. scrotale* A scrotal ligament is not usually seen on dissection of the adult scrotum.

<b>E5.10.0.0.0.1</b>	<b>Glandulae endocrinae</b>	<b>Endocrine glands</b>
<b>E5.10.1.0.0.1</b>	<b>Hypophysis; Glandula pituitaria</b>	<b>Pituitary gland</b>
<b>E5.10.1.1.0.0.1</b>	<b>ADENOHYPHYSIS</b>	<b>ADENOHYPHYSIS</b>
<b>E5.10.1.1.0.0.2</b>	Ectoderma stomodei; Ectoderma stomatodei	Stomodeal ectoderm
<b>E5.4.1.1.2.2.2</b>	Primordium adenohipophysialis	Adenohipophysial primordium
<b>E5.10.1.1.0.0.3</b>	Placoda adenohipophysialis <sup>215</sup>	Adenohipophysial placode
<b>E5.10.1.1.0.0.4</b>	Saccus adenohipophysialis <sup>112</sup>	Adenohipophysial pouch §Rathke§
<b>E5.10.1.1.0.0.5</b>	Truncus sacci adenohipophysialis patens <sup>112</sup>	Open stem of adenohipophysial pouch
<b>E5.10.1.1.0.0.6</b>	Truncus oclusus sacci adenohipophysialis <sup>112</sup>	Closed stem of adenohipophysial pouch
<b>E5.10.1.1.0.0.7</b>	Truncus extensus sacci adenohipophysialis <sup>112</sup>	Elongated stem of adenohipophysial pouch
<b>E5.10.1.1.0.0.8</b>	Truncus dissolutus sacci adenohipophysialis <sup>112</sup>	Fragmented stem of adenohipophysial pouch
<b>E5.10.1.1.0.0.9</b>	Pars pharyngea hypophysis	Pharyngeal hypophysis
<b>E5.10.1.1.0.0.10</b>	Paries abinfundibularis sacci adenohipophysialis	Abinfundibular wall of adenohipophysial pouch
<b>E5.10.1.1.0.0.11</b>	Pars distalis adenohipophysialis	Pars distalis of adenohipophysialis; Pars anterior of hypophysis
<b>E5.10.1.1.0.0.12</b>	Endocrinocytus corticotropicus	Corticotropic cell
<b>E5.10.1.1.0.0.13</b>	Endocrinocytus somatotropicus	Somatotropic cell
<b>E5.10.1.1.0.0.14</b>	Endocrinocytus gonatotropicus	Gonatotropic cell
<b>E5.10.1.1.0.0.15</b>	Endocrinocytus thyrotropicus	Thyrotropic cell
<b>E5.10.1.1.0.0.16</b>	Endocrinocytus prolactinicus	Prolactin cell
<b>E5.10.1.1.0.0.17</b>	Lumen sacci adenohipophysialis	Lumen of of adenohipophysial pouch
<b>E5.10.1.1.0.0.18</b>	Lumen residuale hypophysis	Residual lumen of hypophysis
<b>E5.10.1.1.0.0.19</b>	Paries infundibularis sacci adenohipophysialis	Infundibular wall of adenohipophysial pouch
<b>E5.10.1.1.0.0.20</b>	Pars intermedia adenohipophysialis	Pars intermedia of adenohipophysialis
<b>E5.10.1.1.0.0.12</b>	Endocrinocytus corticotropicus	Corticotropic cell
<b>E5.10.1.1.0.0.21</b>	Paries dorsolateralis sacci adenohipophysialis	Dorsolateral wall of adenohipophysial pouch
<b>E5.10.1.1.0.0.22</b>	Pars tuberalis hypophysis	Pars tuberalis of hypophysis
<b>E5.10.1.1.0.0.23</b>	Sulcus infundibularis	Infundibular notch
<b>E5.10.1.1.1.0.1</b>	<b>Anomaliae adenohipophysialis</b>	<b>Anomalies of adenohipophysialis</b>
<b>E5.10.1.1.1.0.2</b>	Absentia adenohipophysialis	Absence of adenohipophysialis
<b>E5.10.1.1.1.0.3</b>	Aplasia adenohipophysialis	Aplasia of adenohipophysialis
<b>E5.10.1.1.1.0.4</b>	Craniopharyngioma	Craniopharyngioma
<b>E5.10.1.1.1.0.5</b>	Duplicatio adenohipophysialis	Duplication of adenohipophysialis
<b>E5.10.1.1.1.0.6</b>	Dystopia adenohipophysialis	Dystopia of adenohipophysialis
<b>E5.10.1.1.1.0.7</b>	Ectopia adenohipophysialis	Ectopia of adenohipophysialis
<b>E5.10.1.1.1.0.8</b>	Hypoplasia adenohipophysialis	Hypoplasia of adenohipophysialis; Hypopituitarism
<b>E5.10.1.1.1.0.9</b>	Cystis sacci adenohipophysialis	Cyst of adenohipophysial pouch
<b>E5.10.1.2.0.0.1</b>	<b>NEUROHYPHYSIS</b>	<b>NEUROHYPHYSIS</b>
<b>E5.10.1.2.0.0.2</b>	Evaginatio neurohipophysialis diencephali <sup>112</sup>	Neurohipophysial evagination of diencephalon
<b>E5.10.1.2.0.0.3</b>	Recessus infundibularis	Infundibular recess
<b>E5.10.1.2.0.0.4</b>	Primordium neurohipophysialis	Primordium of neurohipophysialis
<b>E5.10.1.2.0.0.5</b>	Gemma neurohipophysialis	Neurohipophysial bud
<b>E5.10.1.2.0.0.6</b>	Eminentia mediana	Median eminence
<b>E5.10.1.2.0.0.7</b>	Truncus infundibularis	Infundibular stem
<b>E5.10.1.2.0.0.8</b>	Pars nervosa hypophysis; Lobus nervosus hypophysis	Pars nervosa of hypophysis; Neural lobe of hypophysis
<b>E5.10.1.2.0.0.9</b>	Neurofibra neurosecretoria	Neurosecretory nerve fibre <sup>▲</sup>

<sup>215</sup> E5.10.1.1.0.0.3 *Placoda adenohipophysialis* The use of this term to describe the primordium of the adenohipophysialis seems justified by the observation that mutant embryos that cannot transduce hedgehog signals mis-specify median pituitary precursors and form an ectopic lens (Dutta S, Dietrich JE, Aspöck G, Burdine RD, Schier A, Westerfield M, Varga ZM. *pitx3* defines an equivalence domain for lens and anterior pituitary placode. *Development* 2005;132:1579-90).



<b>E5.10.1.2.0.0.10</b>	Pituicytus	Pituicyte
<b>E5.10.1.2.1.0.1</b>	<b>Anomaliae neurohypophysis</b>	<b>Anomalies of neurohypophysis</b>
<b>E5.10.1.2.1.0.2</b>	Absentia neurohypophysis	Absence of neurohypophysis
<b>E5.10.1.2.1.0.3</b>	Duplicatio neurohypophysis	Duplication of neurohypophysis
<b>E5.10.1.2.1.0.4</b>	Dystopia neurohypophysis	Dystopia of neurohypophysis
<b>E5.10.2.0.0.0.1</b>	<b>Glandula pinealis; Epiphysis cerebri; Corpus pineale</b>	<b>Pineal gland; Pineal body</b>
<b>E5.10.2.0.0.0.2</b>	Primordium glandulae pinealis	Primordium of pineal gland
<b>E5.10.2.0.0.0.3</b>	Diverticulum pineale	Pineal diverticulum
<b>E5.10.2.0.0.0.4</b>	Paries diverticuli pinealis	Wall of pineal diverticulum
<b>E5.10.2.0.0.0.5</b>	Paries rostralis	Rostral wall
<b>E5.10.2.0.0.0.6</b>	Lobus anterior	Anterior lobe
<b>E5.10.2.0.0.0.7</b>	Paries caudalis	Caudal wall
<b>E5.10.2.0.0.0.8</b>	Lobus posterior	Posterior lobe
<b>E5.10.2.0.0.0.9</b>	Conjunctio lobi anterioris cum lobo posteriore	Fusion of anterior and posterior lobes
<b>E5.10.2.0.0.0.10</b>	Pinealocytus	Pinealocyte
<b>E5.10.2.0.0.0.11</b>	Astrocytus	Astrocyte
<b>E5.10.2.0.0.0.12</b>	N. pinealis	Pineal nerve
<b>E5.10.2.0.0.0.13</b>	Truncus diverticuli pinealis	Stalk of pineal gland; Stem of pineal gland
<b>E5.10.2.0.0.0.14</b>	Recessus pinealis	Pineal recess
<b>E5.10.2.0.1.0.1</b>	<b>Anomaliae glandulae pinealis</b>	<b>Pineal gland anomalies</b>
<b>E5.10.2.0.1.0.2</b>	Aplasia glandulae pinealis	Aplasia of pineal gland
<b>E5.10.2.0.1.0.3</b>	Hypoplasia glandulae pinealis	Hypoplasia of pineal gland
<b>E5.10.2.0.1.0.4</b>	Hyperplasia glandulae pinealis	Hyperplasia of pineal gland
<b>E5.10.2.0.1.0.5</b>	Cystis glandulae pinealis	Cyst of pineal gland
<b>E4.0.3.5.0.3.21</b>	<b>Glandula thyroidea</b>	<b>Thyroid gland</b>
<b>E5.10.3.0.0.0.1</b>	Lamina thyroidea	Thyroid plate
<b>E5.4.1.2.0.0.9</b>	Saccus thyroideus; Diverticulum thyroideum	Thyroid pouch; Thyroid diverticulum
<b>E5.4.2.0.0.1.22</b>	Ductus thyroglossus	Thyroglossal duct
<b>E5.10.3.0.0.0.2</b>	Primordium thyroideum	Thyroid primordium
<b>E5.10.3.0.0.0.3</b>	Folliculus thyroideus	Thyroid follicle
<b>E5.10.3.0.0.0.4</b>	Thyrocytus T	T thyrocyte; Follicular cell
<b>E5.10.3.0.0.0.5</b>	Pars lateralis primordii thyroidei	Lateral thyroid component
<b>E5.4.2.0.0.1.21</b>	Corpus ultimopharyngeum	Ultimopharyngeal body
<b>E5.10.3.0.0.0.6</b>	Pars neurocristalis primordii thyroidei	Neural crest component of thyroid primordium
<b>E4.0.3.5.0.3.22</b>	Thyrocytus C	C thyrocyte; C cell; Parafollicular cell
<b>E5.10.3.0.1.0.1</b>	<b>Anomaliae glandulae thyroideae</b>	<b>Thyroid gland anomalies</b>
<b>E5.10.3.0.1.0.2</b>	Cretinismus congenitus	Congenital cretinism
<b>E5.10.3.0.1.0.3</b>	Ectopia glandulae thyroideae	Ectopic thyroid
<b>E5.10.3.0.1.0.4</b>	Glandula thyroidea lingualis	Lingual thyroid
<b>E5.10.3.0.1.0.5</b>	Glandula thyroidea sublingualis	Sublingual thyroid
<b>E5.10.3.0.1.0.6</b>	Glandula thyroidea suprahyoidea	Suprahyoid thyroid
<b>E5.10.3.0.1.0.7</b>	Glandula thyroidea infrahyoidea	Infrahyoid thyroid
<b>E5.10.3.0.1.0.8</b>	Glandula thyroidea praetrachealis	Pretracheal thyroid
<b>E5.10.3.0.1.0.9</b>	Glandula thyroidea intratrachealis	Intratracheal thyroid
<b>E5.10.3.0.1.0.10</b>	Glandula thyroidea retrosternalis	Retrosternal thyroid
<b>E5.10.3.0.1.0.11</b>	Hypothyroidia congenita	Congenital hypothyroidism
<b>E5.10.3.0.1.0.12</b>	Vestigium ductus thyroglossi	Thyroglossal duct remnant
<b>E5.10.3.0.1.0.13</b>	Lobus pyramidalis	Pyramidal lobe
<b>E5.10.3.0.1.0.14</b>	Fistula thyroglossa	Thyroglossal fistula
<b>E5.10.3.0.1.0.15</b>	Cystis thyroglossa	Thyroglossal cyst
<b>E5.10.3.0.1.0.16</b>	Glandulae thyroideae accessoriae	Accessory thyroid glands
<b>E5.10.3.0.1.0.17</b>	Glandula thyroidea accessoria cervicis	Cervical accessory thyroid gland
<b>E5.10.3.0.1.0.18</b>	Glandula thyroidea accessoria thymi	Thymic accessory thyroid gland
<b>E5.10.3.0.1.0.19</b>	Glandula thyroidea accessoria mediastini	Mediastinal accessory thyroid gland
<b>E5.10.3.0.1.0.20</b>	Glandula thyroidea accessoria cordis	Cardiac accessory thyroid gland
<b>E5.10.3.0.1.0.21</b>	Glandula thyroidea accessoria tracheae	Tracheal accessory thyroid gland
<b>E5.10.3.0.1.0.22</b>	Glandula thyroidea accessoria oesophagi	Oesophageal accessory thyroid gland <sup>▲</sup>

<b>E5.10.3.0.1.0.23</b>	Glandula thyroidea accessoria hepatis	Hepatic accessory thyroid gland
<b>E5.10.3.0.1.0.24</b>	Glandula thyroidea accessoria ovarii	Ovarian accessory thyroid gland
<b>E5.10.4.0.0.0.1</b>	<b>Glandula parathyroidea</b>	<b>Parathyroid gland</b>
<b>E5.4.2.0.0.1.18</b>	Pars dorsalis sacci pharyngei quarti {pro contextu vide Pharyngem}	Dorsal part of fourth pharyngeal pouch {for context see Pharynx}
<b>E5.4.2.0.0.1.19</b>	Gemma parathyroidea superior; Gemma parathyroidea a quarto sacco	Superior parathyroid bud; Parathyroid bud from pouch 4
<b>E5.4.2.0.0.1.11</b>	Pars dorsalis sacci pharyngei tertii {pro contextu vide Pharyngem}	Dorsal part of third pharyngeal pouch {for context see Pharynx}
<b>E5.4.2.0.0.1.12</b>	Gemma parathyroidea inferior; Gemma parathyroidea sacci tertii	Inferior parathyroid bud; Parathyroid bud from pouch 3
<b>E5.10.4.0.0.0.2</b>	Gemma parathyroidea inferior disjuncta; Gemma parathyroidea sacci tertii disjuncta	Detached bud of inferior parathyroid; Detached pouch 3 parathyroid bud
<b>E5.10.4.0.0.0.3</b>	Gemma parathyroidea superior disjuncta; Gemma parathyroidea sacci quarti disjuncta	Detached bud of superior parathyroid; Detached pouch 4 parathyroid bud
<b>E5.10.4.0.0.0.4</b>	Glandula parathyroidea inferior	Inferior parathyroid; Parathyroid 3
<b>E5.10.4.0.0.0.5</b>	(Glandula parathyroidea accessoria inferior)	(Accessory inferior parathyroid)
<b>E5.10.4.0.0.0.6</b>	Glandula parathyroidea superior	Superior parathyroid; Parathyroid 4
<b>E5.10.4.0.0.0.7</b>	(Glandula parathyroidea accessoria superior)	(Accessory superior parathyroid)
<b>E5.10.4.0.0.0.8</b>	Parathyrocytus endocrinus densus; Parathyrocytus principalis	Dense principal cell of parathyroid
<b>E5.10.4.0.0.0.9</b>	Parathyrocytus endocrinus lucidus	Pale principal cell of parathyroid
<b>E5.10.4.0.0.0.10</b>	Parathyrocytus oxyphilicus	Oxyphil cell of parathyroid
<b>E5.10.4.0.2.0.1</b>	<b>Anomaliae glandulae parathyroideae</b>	<b>Parathyroid gland anomalies</b>
<b>E5.4.2.0.1.0.11</b>	Aplasia thymoparathyroidea	Thymoparathyroid aplasia §DiGeorge§
<b>E5.10.4.0.2.0.2</b>	Absentia glandulae parathyroideae	Absence of parathyroid gland
<b>E5.10.4.0.2.0.3</b>	Ectopia glandulae parathyroideae	Ectopic parathyroid gland
<b>E5.10.4.0.2.0.4</b>	Glandulae parathyroideae aberrantes	Aberrant parathyroid gland
<b>E5.10.4.0.2.0.5</b>	Glandula parathyroidea in pariete pharyngis	Pharyngeal wall parathyroid gland
<b>E5.10.4.0.2.0.6</b>	Glandula parathyroidea submucosa	Submucosal parathyroid gland
<b>E5.10.5.0.0.0.1</b>	<b>Glandula suprarenalis</b>	<b>Suprarenal gland; Adrenal gland</b>
<b>E5.10.5.1.0.0.1</b>	<b>CORTEX SUPRARENALIS</b>	<b>SUPRARENAL CORTEX</b>
<b>E5.6.0.0.0.0.2</b>	Mesenchyma intermedium <sup>177</sup>	Intermediate mesenchyme
<b>E5.10.5.1.0.0.2</b>	Primordium corticis glandulae suprarenalis	Primordium of cortex of suprarenal gland
<b>E5.6.2.0.0.0.1</b>	Mesonephros	Mesonephros
<b>E5.10.5.1.0.0.3</b>	Chorda suprarenalis	Suprarenal cord
<b>E5.10.5.1.0.0.4</b>	Vas sinusoideum suprarenale	Suprarenal sinusoid
<b>E5.10.5.1.0.0.5</b>	Cortex suprarenalis temporarius <sup>216</sup>	Provisional suprarenal cortex; X zone
<b>E5.10.5.1.0.0.6</b>	Mesenchyma in cortice suprarenale temporaria	Mesenchyme in provisional suprarenal cortex
<b>E5.10.5.1.0.0.7</b>	Cortex suprarenalis definitivus	Definitive suprarenal cortex; Permanent suprarenal cortex
<b>E4.0.3.5.1.3.4</b>	<b>MEDULLA SUPRARENALIS</b>	<b>SUPRARENAL MEDULLA</b>
<b>E5.10.5.2.0.0.1</b>	Textus cristae neuralis	Neural crest tissue
<b>E5.10.5.2.0.0.2</b>	Primordium medullae glandulae suprarenalis	Primordium of medulla of suprarenal gland
<b>E5.10.5.2.0.0.3</b>	Medulla suprarenalis fetalis	Fetal suprarenal medulla
<b>E5.10.5.3.0.0.1</b>	<b>GLANDULA SUPRARENALIS AD PARTUM MATURUM<sup>217</sup></b>	<b>SUPRARENAL GLAND AT FULL TERM</b>
<b>E5.10.5.3.1.0.1</b>	<b>Anomaliae glandulae suprarenalis</b>	<b>Suprarenal gland anomalies</b>
<b>E5.10.5.3.1.0.2</b>	Aplasia glandulae suprarenalis	Aplastic suprarenal gland
<b>E5.10.5.3.1.0.3</b>	Hypoplasia glandulae suprarenalis	Hypoplastic suprarenal gland
<b>E5.10.5.3.1.0.4</b>	Hyperplasia congenita corticis suprarenalis	Congenital adrenocortical hyperplasia; Adrenogenital syndrome
<b>E5.10.5.3.1.0.5</b>	Ectopia glandulae suprarenalis	Ectopic suprarenal gland
<b>E5.10.5.3.1.0.6</b>	Ectopia renalis glandulae suprarenalis	Renal suprarenal gland

<sup>216</sup> E5.10.5.1.0.0.5 *Cortex suprarenalis temporarius* The term *provisional cortex*, rather than *fetal cortex*, is recommended because it is present in embryos from Stage 16 onwards.

<sup>217</sup> E5.10.5.3.0.0.1 *Glandula suprarenalis ad partum maturum* The suprarenal gland is relatively large at birth but the volume of its fetal cortex decreases rapidly, as it undergoes haemorrhagic non-inflammatory necrosis, and is negligible after two postnatal months. The definitive cortex, however, continues to differentiate and grow until early childhood while the medulla also differentiates and undergoes some postnatal growth.

<b>E5.10.5.3.1.0.7</b>	Ectopia hepatica glandulae suprarenalis	Hepatic suprarenal gland
<b>E5.10.5.3.1.0.8</b>	Ectopia testicularis glandulae suprarenalis	Testicular suprarenal gland
<b>E5.10.5.3.1.0.9</b>	Glandula suprarenalis intracranialis	Intracranial suprarenal gland
<b>E5.10.5.3.1.0.10</b>	Conjunctio glandularum suprarenalium	Fused suprarenal glands
<b>E5.10.5.3.1.0.11</b>	Glandula suprarenalis cystica	Cystic suprarenal gland
<b>E5.10.5.3.1.0.12</b>	Glandulae suprarenales accessoriae	Accessory suprarenal glands
<b>E5.10.5.3.1.0.13</b>	Glandula suprarenalis accessoria renis	Renal accessory suprarenal gland
<b>E5.10.5.3.1.0.14</b>	Glandula suprarenalis accessoria parietis vascularis	Vascular wall accessory suprarenal gland
<b>E5.10.5.3.1.0.15</b>	Glandula suprarenalis accessoria hepatis	Hepatic accessory suprarenal gland
<b>E5.10.5.3.1.0.16</b>	Glandula suprarenalis accessoria pancreatis	Pancreatic accessory suprarenal gland
<b>E5.10.5.3.1.0.17</b>	Glandula suprarenalis accessoria splenis	Splenic accessory suprarenal gland
<b>E5.10.5.3.1.0.18</b>	Glandula suprarenalis accessoria coli	Colonic accessory suprarenal gland
<b>E5.10.5.3.1.0.19</b>	Glandula suprarenalis accessoria ductus seminiferi	Seminal duct accessory suprarenal gland
<b>E5.10.5.3.1.0.20</b>	Glandula suprarenalis accessoria testis	Testicular accessory suprarenal gland
<b>E5.10.5.3.1.0.21</b>	Glandula suprarenalis accessoria epididymidis	Epididymal accessory suprarenal gland
<b>E5.10.5.3.1.0.22</b>	Glandula suprarenalis accessoria paradidymidis	Paradidymal accessory suprarenal gland
<b>E5.10.5.3.1.0.23</b>	Glandula suprarenalis accessoria ovarii	Ovarian accessory suprarenal gland
<b>E5.10.5.3.1.0.24</b>	Glandula suprarenalis accessoria mesosalpingis	Mesosalpingeal accessory suprarenal gland
<b>E5.10.5.3.1.0.25</b>	Glandula suprarenalis accessoria ligamenti suspensorii ovarii	Accessory suprarenal gland in suspensory ligament of ovary
<b>E5.10.6.0.0.0.1</b>	<b>Insula pancreatica {vide Pancreas}</b>	<b>Pancreatic islet {see Pancreas}</b>
<b>E5.11.0.0.0.0.1</b>	<b>Systema cardiovasculare</b>	<b>Cardiovascular system</b>
<b>E5.11.1.0.0.0.1</b>	<b>Cor</b>	<b>Heart</b>
<b>E5.11.1.1.0.0.1</b>	<b>CARDIOGENESIS INITIALIS</b>	<b>EARLY CARDIOGENESIS</b>
<b>E5.11.1.1.1.0.1</b>	<b>Mesenchyma cardiogenicum; Lamina cardiogenica</b>	<b>Cardiogenic mesenchyme; Cardiogenic plate</b>
<b>E5.11.1.1.1.0.2</b>	Campus cordis primus	Primary heart field
<b>E5.11.1.1.1.0.3</b>	Laminae cardiogenicae non symmetricae; Primordia endocardiaca	Bilateral asymmetric cardiogenic plates; Endocardiac primordia
<b>E5.11.1.1.1.0.4</b>	Primordium cordis; Cor plexiforme	Heart primordium; Plexiform heart
<b>E5.11.1.1.1.0.5</b>	Cor tubulare <sup>218</sup>	Tubular heart
<b>E5.11.1.1.1.0.6</b>	Striomyohistogenesis cardiaca {vide Myohistogenesis in Histogenesis generalis supra}	Cardiac striomyohistogenesis {see Myohistogenesis in General histogenesis above}
<b>E5.11.1.1.1.0.7</b>	Myocardium primarium <sup>219</sup>	Primary myocardium
<b>E5.11.1.1.1.0.8</b>	Gelatinoreticulum; Cardioglia	Cardiac jelly
<b>E5.11.1.1.1.0.9</b>	Endocardium	Endocardium
<b>E5.8.0.0.3.0.3</b>	Mesocardium <sup>210</sup>	Mesocardium; Dorsal mesocardium
<b>E5.11.1.1.1.0.10</b>	Polaritas cardiaca	Cardiac polarity
<b>E5.11.1.1.1.0.11</b>	Polaritas craniocaudalis; Polaritas superoinferior	Cranio-caudal polarity; Supero-inferior polarity
<b>E5.11.1.1.1.0.12</b>	Polus arteriosus	Arterial pole
<b>E5.11.1.1.1.0.13</b>	Polus venosus	Venous pole
<b>E5.11.1.1.1.0.14</b>	Polaritas dorsoventralis	Dorsoventral polarity
<b>E5.11.1.1.1.0.15</b>	Curvatura interna	Inner curvature
<b>E5.11.1.1.1.0.16</b>	Curvatura externa	Outer curvature
<b>E5.11.1.1.1.0.17</b>	Polaritas sinistradextra	Left-right polarity
<b>E3.0.0.6.1.0.41</b>	<b>FORMATIO ANSAE<sup>57</sup></b>	<b>LOOP FORMATION</b>
<b>E5.11.1.1.1.0.12</b>	Polus arteriosus	Arterial pole

<sup>218</sup> E5.11.1.1.1.0.5 *Cor tubulare* The adjective simplex has been used at this stage but the phenomenon of polarity makes its use inappropriate.

<sup>219</sup> E5.11.1.1.0.7/ E5.11.1.3.1.0.1/ E5.11.1.3.2.0.1/ E5.11.1.5.0.0.9 *Myocardium primarium/Myocardium cordis camerati/Myocardium mediastinale/ Myocardium nodale* Four different types of myocardium can be distinguished by their properties and the level of expression of genes and atrial natriuretic factor (Horsthuis T, Christoffels VM, Anderson RH, Moorman AFM. Can recent insights into cardiac development improve our understanding of congenitally malformed hearts? *Clinical Anatomy* 2009;22:4-20).

<b>E5.11.1.2.0.0.1</b>	Aa. arcuum primorum pharyngeorum [1] <sup>223</sup>	First pharyngeal arch arteries [1]; First aortic arches [1]
<b>E5.11.1.2.0.0.2</b>	Ansa cordis dextra <sup>220</sup>	Dextral heart loop; D-loop; Cardiac loop
<b>E5.11.1.2.0.0.3</b>	Ansa cordis crescentiformis	C-loop
<b>E5.11.1.2.0.0.4</b>	Ansa cordis sigmoidea prima	Early S-loop
<b>E5.11.1.2.0.0.5</b>	Ansa cordis sigmoidea sera	Late S-loop
<b>E5.8.0.0.3.0.5</b>	Sinus transversus pericardii	Transverse pericardial sinus
<b>E5.11.1.1.0.1.13</b>	Polus venosus	Venous pole
<b>E5.11.1.2.0.0.6</b>	Cornua sinistrum et dextrum sinus venosi cordis	Left and right horns of sinus venosus
<b>E5.11.1.3.0.0.1</b>	<b>FORMATIO CAMERARUM</b>	<b>CHAMBER FORMATION</b>
<b>E5.11.1.1.0.1.16</b>	Curvatura externa <sup>221</sup>	Outer curvature
<b>E3.0.0.6.1.0.50</b>	Inflatio <sup>62</sup>	Ballooning
<b>E5.11.1.3.1.0.1</b>	<b>Myocardium cordis camerati<sup>219</sup></b>	<b>Chamber myocardium</b>
<b>E5.11.1.3.1.0.2</b>	Ventriculus embryonicus; Ventriculus communis	Embryonic ventricle
<b>E5.11.1.3.1.0.3</b>	Ventriculi embryonici dexter sinisterque paralleli	Right and left embryonic ventricles in parallel
<b>E5.11.1.3.1.0.4</b>	Formatio trabecularum	Trabeculation
<b>E5.11.1.3.1.0.5</b>	Myocardium compactum	Compact myocardium
<b>E5.11.1.3.1.0.6</b>	Auriculae dextra et sinistra	Right and left auricles; Right and left atrial appendages
<b>E5.11.1.3.1.0.4</b>	Formatio trabecularum	Trabeculation
<b>E5.11.1.3.1.0.7</b>	Pars pectinata atrii; Pars trabeculata atrii	Pectinated part of atrium; Trabeculated part of atrium
<b>E5.11.1.3.2.0.1</b>	<b>Myocardium mediastinale<sup>219</sup></b>	<b>Mediastinal myocardium</b>
<b>E5.11.1.3.2.0.2</b>	Campus cordis secundus	Secondary heart field
<b>E3.0.0.6.1.0.54</b>	Invectio <sup>63</sup>	Recruitment
<b>E5.11.1.3.2.0.3</b>	Tractus influxus	Inflow tract
<b>E5.11.1.3.2.0.4</b>	Sinus venosus cordis	Body of sinus venosus; Central part of sinus venosus; Sinus venosus
<b>E5.11.1.3.2.0.5</b>	Cornu dextrum sinus	Right horn of sinus venosus; Right sinus horn
<b>E5.11.1.3.2.0.6</b>	Cornu sinistrum sinus	Left horn of sinus venosus; Left sinus horn
<b>E5.11.1.3.2.0.7</b>	Ostium sinuatriale	Sinuatrial orifice
<b>E5.11.1.3.2.0.8</b>	Pars maior atrii dextri	Greater part of right atrium
<b>E5.11.1.3.2.0.9</b>	Septum primum	Primary interatrial septum
<b>E5.11.1.3.2.0.10</b>	Pars maior atrii sinistri	Greater part of left atrium
<b>E5.11.1.3.2.0.11</b>	Canalis atrioventricularis	Atrioventricular canal
<b>E5.11.1.3.2.0.12</b>	Tuber endocardiacum atrioventriculare	Atrioventricular endocardial cushion
<b>E5.11.1.1.0.1.15</b>	Curvatura interna	Inner curvature
<b>E5.11.1.3.2.0.13</b>	Anulus interventricularis myocardiacus <sup>222</sup>	Interventricular ring of myocardium
<b>E5.11.1.3.2.0.14</b>	Foramen interventriculare primarium	Primary interventricular foramen
<b>E5.11.1.3.2.0.15</b>	Tractus effluxionis	Outflow tract
<b>E4.0.3.5.0.3.10</b>	Ductus communis effluxionis cordis	Common outflow tract of heart
<b>E4.0.3.5.0.3.11</b>	Crista endocardiaca septalis; Tuber endocardiacum septale	Septal ridge; Septal cushion; Parietal cushion
<b>E5.11.1.3.2.0.16</b>	Saccus aorticus	Aortic sac
<b>E4.0.3.5.0.3.3</b>	Aa. arcuum pharyngeorum <sup>223</sup>	Pharyngeal arch arteries; Aortic arches
<b>E5.11.1.4.0.0.1</b>	<b>COLLATIONES TEXTUS EXTRACARDIACI</b>	<b>EXTRACARDIAC TISSUE CONTRIBUTIONS</b>
<b>E5.8.0.0.3.0.2</b>	Primordium epicardii; Proepicardium <sup>209</sup>	Primordium of epicardium; Pro-epicardium
<b>E5.11.1.4.0.0.2</b>	Cellulae derivatae ex epicardio	Epicardium-derived cells [EPDC]
<b>E5.11.1.4.0.0.3</b>	Epicardium	Epicardium
<b>E5.11.1.4.0.0.4</b>	Aa. coronariae <sup>224</sup>	Coronary arteries

<sup>220</sup> E5.11.1.2.0.0.2 *Ansa cordis dextra* A D-loop is the normal configuration and usually results in a heart with the apex pointing to the left; an L-loop is abnormal and usually results in a heart with the apex pointing to the right.

<sup>221</sup> E5.11.1.1.0.1.16 *Curvatura externa* With ballooning, the ventricles and atria develop in series on the outer curvature but share the inner curvature.

<sup>222</sup> E5.11.1.3.2.0.13 *Anulus interventricularis myocardiacus* This term denotes the myocardium surrounding the primary ventricular foramen.

<sup>223</sup> E4.0.3.5.0.3.3 *Aa. arcuum pharyngeorum* The terms *pharyngeal arch artery/ies* are preferred to those of *aortic arch/es* to avoid confusion with the definitive aortic arch.

<b>E5.8.0.0.3.0.3</b>	Mesocardium <sup>270</sup>	Mesocardium; Dorsal mesocardium
<b>E3.0.0.6.1.0.54</b>	Invectio <sup>63</sup>	Recruitment
<b>E5.11.1.4.0.0.5</b>	Spina vestibuli	Atrial spine; Vestibular spine; Dorsal mesenchymal protrusion §His§
<b>E5.11.1.4.0.0.6</b>	Fulcimen basale septi atrialis	Basal buttress of atrial septum
<b>E5.0.2.1.0.0.2</b>	Crista neuralis	Neural crest
<b>E5.11.1.4.0.0.7</b>	Dens mesenchymalis in crista tractus effluxionis <sup>225</sup>	Prong of condensed mesenchyme in outflow-tract ridge
<b>E5.11.1.4.0.0.8</b>	Vortex mesenchymalis dentium tractus effluxionis	Whorl of fused prongs
<b>E5.11.1.5.0.0.1</b>	<b>FORMATIO ATRIORUM</b>	<b>DEVELOPMENT OF ATRIA</b>
<b>E5.11.1.5.1.0.1</b>	<b>Sinus venosus cordis</b>	<b>Sinus venosus</b>
<b>E5.11.1.5.1.0.2</b>	Corpus sinus venosi cordis; Pars centralis sinus venosi cordis	Body of sinus venosus; Central part of sinus venosus
<b>E5.11.1.5.1.0.3</b>	Pars proximalis sinus coronarii	Proximal part of coronary sinus
<b>E5.11.1.3.2.0.6</b>	Cornu sinistrum sinus	Left horn of sinus venosus; Left sinus horn
<b>E5.11.1.5.1.0.4</b>	Pars intermedia sinus coronarii	Intermediate part of coronary sinus
<b>E5.11.1.5.1.0.5</b>	V. obliqua atrii sinistri	Oblique vein of left atrium §Marshall§
<b>E5.11.1.3.2.0.5</b>	Cornu dextrum sinus	Right horn of sinus venosus; Right sinus horn
<b>E5.11.1.5.1.0.6</b>	Cornu dextrum sinus incorporatum	Incorporated right sinus horn
<b>E5.11.1.5.1.0.7</b>	Sinus venarum cavarum	Systemic venous sinus; Smooth-walled part of right atrium
<b>E5.11.1.5.1.0.8</b>	V. cava superior	Superior vena cava
<b>E5.11.1.5.1.0.9</b>	Myocardium nodale <sup>219</sup>	Nodal myocardium
<b>E5.11.1.5.1.0.10</b>	Nodus sinuatrialis	Sinu-atrial node §Keith-Flack§ §Koch§
<b>E5.11.1.5.1.0.11</b>	V. cava inferior	Inferior vena cava
<b>E5.11.1.5.1.0.12</b>	Valva sinuatrialis	Sinu-atrial valve
<b>E5.11.1.5.1.0.13</b>	Valva venosa dextra	Right venous valve
<b>E5.11.1.5.1.0.14</b>	Crista terminalis	Terminal crest
<b>E5.11.1.5.1.0.15</b>	Valvula venae cavae inferioris	Valve of inferior vena cava
<b>E5.11.1.5.1.0.16</b>	Valvula sinus coronarii	Valve of coronary sinus §Thebesius§
<b>E5.11.1.5.1.0.17</b>	Valva venosa sinistra	Left venous valve
<b>E5.11.1.5.1.0.18</b>	Septum spurium	Septum spurium
<b>E5.11.1.5.2.0.1</b>	<b>Pars mediastinalis atrii</b>	<b>Mediastinal part of atrium</b>
<b>E5.11.1.3.2.0.1</b>	<b>Myocardium mediastinale<sup>219</sup></b>	<b>Mediastinal myocardium</b>
<b>E5.11.1.3.2.0.9</b>	Septum primum	Primary interatrial septum
<b>E5.11.1.5.2.1.1</b>	Foramen primum	Primary interatrial foramen
<b>E5.11.1.5.2.1.2</b>	Foramen secundum	Foramen secundum
<b>E5.11.1.4.0.0.5</b>	Spina vestibuli	Atrial spine; Vestibular spine; Dorsal mesenchymal protrusion §His§
<b>E5.11.1.4.0.0.6</b>	Fulcimen basale septi atrialis	Basal buttress of atrial septum
<b>E5.11.1.5.2.1.3</b>	Solum fossae ovalis	Floor of oval fossa; Floor of fossa ovalis
<b>E5.11.1.5.2.1.4</b>	Tendo valvulae venae cavae inferioris	Tendon of valve of inferior vena cava §Todaro§
<b>E5.11.1.5.2.1.5</b>	Plica pulmonalis	Pulmonary fold
<b>E5.11.1.5.2.1.6</b>	V. pulmonalis incorporata	Incorporated pulmonary vein
<b>E5.11.1.5.2.1.7</b>	Pars levis atrii sinistri	Smooth-walled part of left atrium
<b>E5.11.1.5.2.1.8</b>	Plica secunda interatrialis; Septum secundum <sup>226</sup>	Secondary interatrial fold
<b>E5.11.1.5.2.1.9</b>	Limbus fossae ovalis	Border of oval fossa; Border of fossa ovalis
<b>E5.11.1.5.2.1.10</b>	Fossa ovalis	Oval fossa
<b>E5.11.1.5.2.1.11</b>	Foramen ovale	Oval foramen §Botallo§
<b>E5.11.1.6.0.0.1</b>	<b>FORMATIO CANALIS ATRIOVENTRICULARIS</b>	<b>DEVELOPMENT OF ATRIOVENTRICULAR CANAL</b>

<sup>224</sup> E5.11.1.4.0.0.4 Aa. coronariae For a recent review see: Ratajska A, Czarnowska E, Ciszek B. Embryonic development of the proepicardium and coronary vessels. Int J Dev Biol 2008;52:229-36.

<sup>225</sup> E5.11.1.4.0.0.7 Dens mesenchymalis in crista tractus effluxionis – Such prongs represent the precursors of the cardiac skeleton.

<sup>226</sup> E5.11.1.5.1.1.8 Plica secunda interatrialis; Septum secundum The term *plica* or *fold* is preferred as the structure is not a septum, *in sensu stricto*.

<b>E5.11.1.6.0.0.2</b>	Vestibulum valvarum atrioventricularem	Vestibule of atrioventricular valves
<b>E5.11.1.5.0.0.9</b>	Myocardium nodale <sup>219</sup>	Nodal myocardium
<b>E5.11.1.6.0.0.3</b>	Nodus atrioventricularis	Atrioventricular node §Aschoff-Tawara§ §Node of Tawara§
<b>E5.11.1.6.0.0.4</b>	Tubera endocardiaca atrioventricularia	Atrioventricular cushions
<b>E5.11.1.6.0.0.5</b>	Tuber endocardiacum atrioventriculare inferius	Inferior atrioventricular cushion
<b>E5.11.1.6.0.0.6</b>	Tuber endocardiacum atrioventriculare laterale dexter	Right lateral atrioventricular cushion
<b>E5.11.1.6.0.0.7</b>	Tuber endocardiacum atrioventriculare laterale sinister	Left lateral atrioventricular cushion
<b>E5.11.1.6.0.0.8</b>	Tuber endocardiacum atrioventriculare superior	Superior atrioventricular cushion
<b>E5.11.1.6.0.0.9</b>	Septum atrioventriculare membranosum	Membranous atrioventricular septum
<b>E5.11.1.7.0.0.1</b>	<b>FORMATIO VENTRICULORUM</b>	<b>DEVELOPMENT OF VENTRICLES</b>
<b>E5.11.1.7.1.0.1</b>	<b>Ventriculus sinister</b>	<b>Left ventricle</b>
<b>E5.11.1.7.1.0.2</b>	Pars trabecularis ventriculi sinistri	Trabecular portion of left ventricle
<b>E5.11.1.7.1.0.3</b>	M. papillaris superolateralis ventriculi sinistri; M. papillaris anterior ventriculi sinistri <sup>227</sup>	Superolateral papillary muscle of left ventricle; Anterior papillary muscle of left ventricle
<b>E5.11.1.7.1.0.4</b>	M. papillaris inferoseptalis ventriculi sinistri; M. papillaris posterior ventriculi sinistri <sup>227</sup>	Inferoseptal papillary muscle of left ventricle; Posterior papillary muscle of left ventricle
<b>E5.11.1.5.0.0.9</b>	Myocardium nodale <sup>219</sup>	Nodal myocardium
<b>E5.11.1.7.1.0.5</b>	Crus sinistrum fasciculi atrioventricularis	Left bundle branch; Left branch of atrioventricular bundle
<b>E5.11.1.7.1.0.6</b>	Portio ingressiois ventriculi sinistri	Inlet portion of left ventricle
<b>E5.11.1.7.1.0.7</b>	Portio egressiois ventriculi sinistri	Outlet portion of left ventricle
<b>E4.0.3.5.0.3.11</b>	Crista endocardiaca septalis; Tuber endocardiacum septale	Septal ridge; Septal cushion; Parietal cushion
<b>E4.0.3.5.0.3.13</b>	Valva aortae	Aortic valve; Aortic arterial valve
<b>E5.11.1.7.1.0.8</b>	Valvulae semilunares	Semilunar cusps
<b>E5.11.1.7.1.0.9</b>	Valvula semilunaris dexter	Right coronary cusp; Right cusp
<b>E5.11.1.7.1.0.10</b>	Valvula semilunaris posterior	Non-coronary cusp; Posterior cusp
<b>E5.11.1.7.1.0.11</b>	Valvula semilunaris sinister	Left coronary cusp; Left cusp
<b>E5.11.1.7.2.0.1</b>	<b>Ventriculus dexter</b>	<b>Right ventricle</b>
<b>E5.11.1.7.2.0.2</b>	Pars trabecularis ventriculi dextri	Trabecular portion of right ventricle
<b>E5.11.1.7.2.0.3</b>	M. papillaris anterolateralis ventriculi dextri; M. papillaris anterior <sup>228</sup>	Anterolateral papillary muscle; Anterior papillary muscle of right ventricle
<b>E5.11.1.7.2.0.4</b>	M. papillaris posterior ventriculi dextri <sup>229</sup>	Posterior papillary muscle
<b>E5.11.1.5.0.0.9</b>	Myocardium nodale <sup>219</sup>	Nodal myocardium
<b>E5.11.1.7.2.0.5</b>	Crus dextrum fasciculi atrioventricularis	Right bundle branch; Right branch of atrioventricular bundle
<b>E5.11.1.7.2.0.6</b>	Portio influxus ventriculi dextri	Inlet portion of right ventricle
<b>E5.11.1.5.0.0.9</b>	Myocardium nodale <sup>219</sup>	Nodal myocardium
<b>E5.11.1.7.2.0.7</b>	Trabecula septomarginalis	Septomarginal trabecula; Moderator band §Leonardo da Vinci§ §Wolf§
<b>E5.11.1.7.2.0.8</b>	Ostium praepapillare valvae tricuspidalis	Prepapillary orifice of tricuspid valve
<b>E5.11.1.7.2.0.9</b>	Ostium postpapillare valvae tricuspidalis	Postpapillary orifice of tricuspid valve
<b>E5.11.1.7.2.0.10</b>	Portio effluxiois ventriculi dextri; Conus arteriosus	Outlet portion of right ventricle; Infundibulum of right ventricle
<b>E4.0.3.5.0.3.11</b>	Crista endocardiaca septalis; Tuber endocardiacum septale	Septal ridge; Septal cushion; Parietal cushion
<b>E4.0.3.5.0.3.14</b>	Valva trunci pulmonalis	Pulmonary valve; Pulmonary arterial valve

<sup>227</sup> E5.11.1.7.1.0.3/ E5.11.1.7.1.0.4 M. papillaris superolateralis ventriculi sinistri; M. papillaris anterior ventriculi sinistri/M. papillaris inferoseptalis ventriculi sinistri; M. papillaris posterior ventriculi sinistri These muscles are well-defined in the Stage 18 heart. The terms *superolateral* and *inferoseptal papillary muscles* are appropriate for the left ventricle with the heart in the anatomical position (Anderson RH, Loukas M. The importance of attitudinally appropriate description of cardiac anatomy. Clin Anat 2009;22:47-51).

<sup>228</sup> E5.11.1.7.2.0.3 M. papillaris anterolateralis ventriculi dextri; M. papillaris anterior This muscle is the only well-defined right papillary muscle in the Stage 18 heart. Although the recommended term in Terminologia Anatomica 1998 is *anterior papillary muscle*, more recent usage seems to favour *anterolateral papillary muscle*.

<sup>229</sup> E5.11.1.7.2.0.4 M. papillaris posterior ventriculi dextri The right papillary muscles vary considerably: the so-called posterior papillary muscle develops only after the cavity of the right ventricle expands posteriorly and inferiorly and has a series of muscle bellies.

<b>E5.11.1.7.1.0.8</b>	Valvulae semilunares	Semilunar cusps
<b>E5.11.1.7.2.0.11</b>	Septum musculare tractus effluxionis	Muscular outflow-tract septum
<b>E5.11.1.7.2.0.12</b>	Crista supraventricularis	Supraventricular crest
<b>E5.11.1.7.2.0.13</b>	M. papillaris septalis	Septal papillary muscle
<b>E5.11.1.7.2.0.14</b>	Infundibulum liberum	Freestanding infundibulum
<b>E5.11.1.7.3.0.1</b>	<b>Septum interventriculare</b>	<b>Interventricular septum</b>
<b>E5.11.1.7.3.0.2</b>	Sulcus interventricularis	Interventricular sulcus; Interventricular groove
<b>E5.11.1.7.3.0.3</b>	Anulus interventricularis myocardiacus	Interventricular ring of myocardium
<b>E5.11.1.3.2.0.14</b>	Foramen interventriculare primarium	Primary interventricular foramen
<b>E5.11.1.7.3.0.4</b>	Portio periaortica foraminis interventricularis primarii	Peri-aortic portion of primary ventricular foramen
<b>E5.11.1.7.3.0.5</b>	Septum conotruncale distale	Distal conotruncal septum
<b>E5.11.1.7.3.0.6</b>	Initium aortae ascendentes et trunci pulmonalis	Beginning of ascending aorta and pulmonary trunk
<b>E5.11.1.7.3.0.7</b>	Portio septalis foraminis interventricularis primarii	Septal portion of primary ventricular foramen
<b>E5.11.1.7.3.0.8</b>	Apertura persistens	Persistent opening
<b>E5.11.1.7.3.0.9</b>	Vestibulum aortae	Aortic vestibule
<b>E5.11.1.7.3.0.10</b>	Portio atrioventricularis dextra foraminis interventricularis	Right atrioventricular portion of primary ventricular foramen
<b>E5.11.1.7.3.0.11</b>	Foramen interventriculare secundarium	Secondary interventricular foramen
<b>E5.11.1.7.3.0.12</b>	Septum interventriculare occludens	Occluding interventricular septum
<b>E5.11.1.7.3.0.13</b>	Pars muscularis septi interventricularis	Muscular part of interventricular septum
<b>E5.11.1.7.3.0.14</b>	Pars trabecularis septi interventricularis	Trabecular part of interventricular septum
<b>E5.11.1.7.3.0.15</b>	Portio influxus septi interventricularis	Inlet portion of interventricular septum
<b>E5.11.1.5.0.0.9</b>	Myocardium nodale <sup>219</sup>	Nodal myocardium
<b>E5.11.1.7.3.0.16</b>	Fasciculus atrioventricularis	Atrioventricular bundle §His§
<b>E5.11.1.7.3.0.17</b>	Reticulum conducens subendocardiacum	Subendocardiac conductive network; Subendocardial conductive network §Purkinje§
<b>E5.11.1.7.3.0.18</b>	Pars membranacea septi interventricularis <sup>230</sup>	Membranous portion of interventricular septum
<b>E5.11.1.7.4.0.1</b>	<b>Formatio ulterior valvarum atrioventricularium<sup>231</sup></b>	<b>Further development of atrioventricular valves</b>
<b>E5.11.1.7.4.0.2</b>	Valva atrioventricularis sinistra; Valva mitralis	Mitral valve; Left atrioventricular valve
<b>E5.11.1.7.4.0.3</b>	Cuspis anterior valvae mitralis	Anterior leaflet of mitral valve; Anterior cusp of mitral valve
<b>E5.11.1.7.4.0.4</b>	Cuspis posterior valvae mitralis	Posterior leaflet of mitral valve; Posterior cusp of mitral valve
<b>E5.11.1.7.4.0.5</b>	Valva atrioventricularis dextra; Valva tricuspidalis	Tricuspid valve; Right atrioventricular valve
<b>E5.11.1.7.4.0.6</b>	Cuspis anterosuperior valvae tricuspidalis; Cuspis anterior valvae tricuspidalis	Anterosuperior leaflet of tricuspid valve; Anterior cusp of tricuspid valve
<b>E5.11.1.7.4.0.7</b>	Cuspis posterior valvae tricuspidalis	Inferior leaflet of tricuspid valve; Posterior cusp of tricuspid valve
<b>E5.11.1.7.4.0.8</b>	Cuspis septalis valvae tricuspidalis	Septal leaflet of tricuspid valve; Septal cusp of tricuspid valve
<b>E5.11.1.8.0.0.1</b>	<b>FORMATIO JUNCTIONUM VENTRICULOARTERIOSARUM</b>	<b>DEVELOPMENT OF VENTRICULO-ARTERIAL JUNCTIONS</b>
<b>E5.11.1.8.1.0.1</b>	<b>Ductus communis effluxionis</b>	<b>Common outflow tract</b>
<b>E5.11.1.8.1.0.2</b>	Flexus ductus communis effluxionis <sup>232</sup>	Bend of common outflow tract

<sup>230</sup> E5.11.1.7.3.0.18 *Pars membranacea septi interventricularis* This part develops from the muscular septum after the septal leaflet of tricuspid valve has delaminated after the twelfth week.

<sup>231</sup> E5.11.1.7.4.0.1 *Formatio ulterior valvarum atrioventricularium* While the anterosuperior leaflet of the tricuspid valve and the anterolateral papillary muscle of the right ventricle develop in embryonic life, the other four atrioventricular leaflets and the septal papillary muscle of the right ventricle develop after the twelfth week.

<sup>232</sup> E5.11.1.8.1.0.2 *Flexus ductus communis effluxionis* This is an external landmark that separates the proximal and distal portions of the tract; at the site of the bend the pitch of the spiralling endocardial outflow tract ridges is highest, explaining claims for separate proximal and distal [conal and truncal] ridges.

<b>E5.11.1.8.1.0.3</b>	Pars proximalis; Conus arteriosus	Proximal portion; Conus arteriosus
<b>E5.11.1.8.1.0.4</b>	Pars distalis; Truncus arteriosus	Distal portion; Truncus arteriosus
<b>E5.11.1.8.1.0.5</b>	Regressio myocardii	Myocardial regression
<b>E5.11.1.8.1.0.6</b>	Junctio sinutubularis	Sinutubular junction
<b>E5.11.1.8.1.0.7</b>	Continuatio fibrosa	Fibrous continuity
<b>E5.11.1.8.1.0.8</b>	Aorta ascendens et truncus pulmonalis	Ascending aorta and pulmonary trunk
<b>E5.4.3.0.0.2.2</b>	Irruptio a cellulis cristae neuralis	Invasion by neural crest cells
<b>E5.11.1.8.1.0.9</b>	Dens mesenchymalis in crista ductus effluxionis proximalis	Prong of condensed mesenchyme in proximal outflow tract ridge
<b>E5.11.1.8.1.0.10</b>	Conjunctio distoproximalis	Distoproximal fusion
<b>E5.11.1.8.1.0.11</b>	Septum distale <sup>233</sup>	Distal septum
<b>E5.11.1.8.1.0.12</b>	Valva arteriosa semilunaris	Arterial semilunar valve
<b>E5.11.1.8.1.0.13</b>	Septum proximale {vide Formatio ventriculorum supra}	Proximal septum {see Development of ventricles above}
<b>E5.11.1.4.0.0.2</b>	Cellulae derivatae ex epicardio	Epicardium-derived cells [EPDC]
<b>E5.11.1.4.0.0.4</b>	Aa. coronariae	Coronary arteries
<b>E5.11.1.8.2.0.1</b>	<b>Anomaliae cordis</b>	<b>Heart anomalies</b>
<b>E5.11.1.8.2.0.2</b>	Acardia	Acardia
<b>E5.11.1.8.2.0.3</b>	Diplocardia	Diplocardia
<b>E5.11.1.8.2.0.4</b>	Cor bifidum	Bifid heart
<b>E5.11.1.8.2.0.5</b>	Ectopia cordis; Ectocardia	Ectopic heart
<b>E5.11.1.8.2.0.6</b>	Hemicardia	Hemicardia
<b>E5.4.8.0.1.0.12</b>	Heterotaxia	Heterotaxy; Isomerism
<b>E5.5.3.0.6.4.19</b>	Isomerismus dexter	Right isomerism
<b>E5.5.3.0.6.4.20</b>	Isomerismus sinister	Left isomerism
<b>E5.11.1.8.2.0.7</b>	Dextrocardia	Dextrocardia
<b>E5.11.1.8.2.0.8</b>	Laevocardia	Laevocardia <sup>▲</sup>
<b>E5.11.1.8.2.0.9</b>	Mesocardia	Mesocardia
<b>E5.11.1.8.2.0.10</b>	Cor biloculare	Bilocular heart
<b>E5.11.1.8.2.0.11</b>	Cor decussans; Connexio atrioventricularis decussans	Criss-cross heart; Atrioventricular criss-cross connection
<b>E5.11.1.8.2.0.12</b>	Cor triloculare	Trilocular heart
<b>E5.11.1.8.2.0.13</b>	Cor biatriale triloculare	Biautrial heart
<b>E5.11.1.8.2.0.14</b>	Ventriculus communis persistens	Persistent common ventricle
<b>E5.11.1.8.2.0.15</b>	Cor biventriculare triloculare	Biventricular heart
<b>E5.11.1.8.2.0.16</b>	Atrium commune persistens	Persistent common atrium
<b>E5.11.1.8.2.0.17</b>	Cor triatriale	Triatrial heart
<b>E5.11.1.8.2.0.18</b>	Defectus septi interatrialis	Atrial septal defect [ASD]; Interatrial septal defect
<b>E5.11.1.8.2.0.19</b>	Foramen ovale patens	Patent foramen ovale §Botallo§
<b>E5.11.1.8.2.0.20</b>	Absentia septi primi	Absent septum primum
<b>E5.11.1.8.2.0.21</b>	Absentia septi secundi	Absent septum secundum
<b>E5.11.1.8.2.0.22</b>	Defectus septi interventricularis	Ventricular septal defect [VSD]; Interventricular septal defect
<b>E5.11.1.8.2.0.23</b>	Foramen interventriculare patens	Patent interventricular foramen
<b>E5.11.1.8.2.0.24</b>	Defectus partis membranaceae septi interventricularis	Defective membranous part of interventricular septum
<b>E5.11.1.8.2.0.25</b>	Defectus partis muscularis septi interventricularis	Defective muscular part of interventricular septum
<b>E5.11.1.8.2.0.26</b>	Defectus septi atrioventricularis	Defective atrioventricular septum; Defective membranous atrioventricular septum
<b>E5.11.1.8.2.0.27</b>	Anomaliae valvarum	Valve anomalies
<b>E5.11.1.8.2.0.28</b>	Atresia valvae aortae	Aortic atresia
<b>E5.11.1.8.2.0.29</b>	Stenosis valvae aortae	Aortic stenosis
<b>E5.11.1.8.2.0.30</b>	Atresia valvae mitralis	Mitral atresia
<b>E5.11.1.8.2.0.31</b>	Stenosis valvae mitralis	Mitral stenosis
<b>E5.11.1.8.2.0.32</b>	Atresia valvae pulmonalis	Pulmonary atresia
<b>E5.11.1.8.2.0.33</b>	Stenosis valvae pulmonalis	Pulmonary stenosis
<b>E5.11.1.8.2.0.34</b>	Atresia valvae tricuspidalis	Tricuspid atresia
<b>E5.11.1.8.2.0.35</b>	Stenosis valvae tricuspidalis	Tricuspid stenosis

<sup>233</sup> E5.11.1.8.1.0.11 *Septum distale* The *distal septum* lies between intrapericardial parts of aorta and pulmonary trunk (distal to arterial valves).



<b>E5.11.1.8.2.0.36</b>	Dysplasia valvae tricuspidalis et ventriculi dextri	Dysplasia of tricuspid valve and right ventricle §Ebstein§
<b>E5.11.1.8.2.0.37</b>	Dysplasia valvae mitralis et ventriculi sinistri	Dysplasia of mitral valve and left ventricle
<b>E5.11.1.8.2.0.38</b>	Pentalogia cardiaca	Cardiac pentalogy §Fallot§
<b>E5.11.1.8.2.0.39</b>	Tetralogia cardiaca <sup>234</sup>	Cardiac tetralogy §Fallot§
<b>E5.11.1.8.2.0.40</b>	Trilogia cardiaca	Cardiac trilogy §Fallot§
<b>E5.11.1.8.2.0.41</b>	Canalis atrioventricularis communis persistens	Persistent common atrioventricular canal
<b>E5.11.1.8.2.0.42</b>	Transpositio aorticopulmonalis	Aorto-pulmonary transposition; Transposition of great arteries
<b>E5.11.1.8.2.0.43</b>	Ductus communis effluxionis persistens	Persistent common outflow tract
<b>E5.11.1.8.2.0.44</b>	Ductus duplex effluxionis ventriculi sinistri	Double outlet of left ventricle
<b>E5.11.1.8.2.0.45</b>	Ductus duplex effluxionis ventriculi dextri	Double outlet of right ventricle
<b>E5.11.1.8.2.0.46</b>	Hypoplasia ventriculi sinistri	Hypoplasia of left ventricle
<b>E5.11.1.8.2.0.47</b>	Hypoplasia ventriculi dextri	Hypoplasia of right ventricle
<b>E5.11.1.8.2.0.48</b>	Fibrosis endomyocardiaca congenita {vide infra etiam Anomaliae vasculorum}	Congenital endomyocardial fibrosis {see also Vascular anomalies below}
<b>E5.11.2.0.0.0.1</b>	<b>Vasa</b>	<b>Vessels</b>
<b>E5.11.2.0.0.0.2</b>	Mesenchyma vasculare	Vascular mesenchyme
<b>E5.11.2.0.0.0.3</b>	Textus angioblasticus	Angioblastic tissue
<b>E5.11.2.0.0.0.4</b>	Insula sanguinea vesiculae umbilicalis; Insula sanguinea sacci vitellini	Blood island of umbilical vesicle; Blood island ofYolk sac §Pander§
<b>E5.11.2.0.0.0.5</b>	Endothelioblastus	Endothelioblast
<b>E5.11.2.0.0.0.6</b>	Haemocytoblastus {vide infra Structurae haematolymphoideae}	Haemocytoblast <sup>▲</sup> {See Haematolymphoid complex below}
<b>E5.11.2.0.0.1.1</b>	<b>Vasculogenesis</b> <sup>235</sup>	<b>Vasculogenesis</b>
<b>E5.11.2.0.0.1.2</b>	Rete capillare primordiale	Primordial capillary network
<b>E5.11.2.0.0.2.1</b>	<b>Angiogenesis</b> <sup>236</sup>	<b>Angiogenesis</b>
<b>E5.11.2.0.0.2.2</b>	Angiogenesis ramificans	Branching angiogenesis
<b>E5.11.2.0.0.2.3</b>	Angiogenesis gemmascens	Sprouting angiogenesis
<b>E5.11.2.0.0.2.4</b>	Angiogenesis intussusceptiva	Intussusceptive angiogenesis; Splitting angiogenesis
<b>E5.11.2.0.0.2.5</b>	Angiogenesis non ramificans	Non-branching angiogenesis
<b>E5.11.2.0.0.2.6</b>	Reformatio vasis sanguinei	Blood vessel remodelling
<b>E5.11.2.0.0.2.7</b>	Circulatio embryonica	Embryonic circulation
<b>E5.11.2.0.0.2.8</b>	Rete vasculare	Vascular network
<b>E5.11.2.0.0.2.9</b>	Phasis symmetros	Symmetrical phase
<b>E5.11.2.0.0.2.10</b>	Phasis asymmetros	Asymmetrical phase
<b>E5.11.2.1.0.0.1</b>	<b>ARTERIAE</b>	<b>ARTERIES</b>
<b>E5.11.2.1.0.0.2</b>	Arteriogenesis	Arteriogenesis
<b>E5.11.1.3.2.0.16</b>	<b>Saccus aorticus</b>	<b>Aortic sac</b>
<b>E4.0.3.5.0.3.11</b>	Crista endocardiaca septalis; Tuber endocardiacum septale	Septal ridge; Septal cushion; Parietal cushion
<b>E4.0.3.5.0.3.12</b>	Septum aorticopulmonale	Aorticopulmonary septum
<b>E5.11.2.1.1.0.1</b>	Aorta ascendens et pars proximalis arcus aortae	Ascending aorta and proximal part of aortic arch
<b>E5.11.1.4.0.0.4</b>	Aa. coronariae	Coronary arteries
<b>E5.11.2.1.1.0.2</b>	Pars intermedia arcus aortae	Intermediate part of arch of aorta
<b>E5.11.2.1.1.0.3</b>	Truncus pulmonalis	Pulmonary trunk
<b>E5.11.2.1.1.0.4</b>	Gemma ventralis a sacco aortae	Ventral sprout from aortic sac
<b>E5.11.2.1.1.0.5</b>	Aa. pulmonales primordiales	Primordial pulmonary arteries
<b>E5.11.2.1.1.0.6</b>	Partes proximales arteriarum pulmonalium	Proximal parts of pulmonary arteries
<b>E5.11.2.1.1.0.7</b>	Cornu dextrum sacci aortici	Right horn of aortic sac

<sup>234</sup> E5.11.1.8.2.0.39 *Tetralogia cardiaca* Although described by Stenson in 1671 the *tetralogy* ascribed to Fallot (1888) consists of pulmonary stenosis, dextraposition of the aorta overriding an interventricular septal defect and right ventricular hypertrophy. An interatrial septal defect is often present making the *pentalogy*. The combination of pulmonary stenosis, interatrial septal defect and right ventricular hypertrophy constitutes the *trilogy*.

<sup>235</sup> E5.11.2.0.0.1.1 *Vasculogenesis* Formation of a primordial capillary network from cells that differentiate locally: they may be invading angioblasts (Risau W, Flamme I. Vasculogenesis. Annu Rev Cell Dev Biol. 1995;11:79-91) or be endothelial progenitor cells (EPCs) which differentiate in splanchnopleuric mesenchyme or its derivatives.

<sup>236</sup> E5.11.2.0.0.2.1 *Angiogenesis* The formation of new vessels from existing ones (Risau W. Mechanisms of angiogenesis. Nature. 1997;386:671-4): it occurs in somatopleuric mesenchyme or its derivatives. For the different forms of angiogenesis see Charnock-Jones DS, Kaufmann P, Mayhew TM Aspects of human fetoplacental vasculogenesis and angiogenesis. I. Molecular regulation. Placenta 2004;25:103-13;

<b>E5.11.2.1.1.0.8</b>	Truncus brachiocephalicus	Brachiocephalic trunk
<b>E5.11.2.1.1.0.9</b>	A. carotis communis dextra	Right common carotid artery
<b>E5.11.2.1.1.0.10</b>	A. carotis externa	External carotid artery
<b>E5.11.2.1.1.0.11</b>	Cornu sinistrum sacci aortici	Left horn of aortic sac
<b>E5.11.2.1.1.0.12</b>	A. carotis communis sinistra	Left common carotid artery
<b>E5.11.2.1.1.0.10</b>	A. carotis externa	External carotid artery
<b>E4.0.3.5.0.3.3</b>	<b>Aa. arcuum pharyngeorum</b> <sup>223</sup>	<b>Pharyngeal arch arteries; Aortic arches</b>
<b>E5.11.1.2.0.0.1</b>	A. arcus primi pharyngei [1] <sup>223</sup>	First pharyngeal arch artery [1]; First aortic arch [1]
<b>E5.11.2.1.2.0.1</b>	A. maxillaris	Maxillary artery
<b>E5.11.2.1.2.0.2</b>	A. arcus secundi pharyngei [2] <sup>223</sup>	Second pharyngeal arch artery [2]; Second aortic arch [2]
<b>E5.11.2.1.2.0.3</b>	R. stapedius	Stapedial branch
<b>E5.11.2.1.2.0.4</b>	A. arcus tertii pharyngei [3] <sup>223</sup>	Third pharyngeal arch artery [3]; Third aortic arch [3]
<b>E5.11.2.1.2.0.5</b>	Radix arteriae carotidis internae	Root of internal carotid artery
<b>E5.11.2.1.2.0.6</b>	Reliquum arteriae carotidis internae	Remainder of internal carotid artery
<b>E5.11.2.1.2.0.7</b>	Aa. cerebri anterior, media et posterior	Anterior, middle and posterior cerebral arteries
<b>E5.11.2.1.2.0.8</b>	A. quarti arcus pharyngei sinistri [4] <sup>223</sup>	Left fourth pharyngeal arch artery [4]; Left fourth aortic arch [4]
<b>E5.11.2.1.1.0.2</b>	Pars intermedia arcus aortae	Intermediate part of arch of aorta
<b>E5.11.2.1.2.0.9</b>	A. quarti arcus pharyngei dextri [4] <sup>223</sup>	Right fourth pharyngeal arch artery [4]; Right fourth aortic arch [4]
<b>E5.11.2.1.2.0.10</b>	Pars proxima arteriae subclaviae dextrae	Proximal part of right subclavian artery
<b>E5.11.2.1.2.0.11</b>	(A. quinti arcus pharyngei[5]) <sup>237</sup>	(Fifth pharyngeal arch artery[5]; Fifth aortic arch [5])
<b>E5.11.2.1.1.0.4</b>	Gemma ventralis a sacco aortae	Ventral sprout from aortic sac
<b>E5.11.2.1.2.0.12</b>	Gemma dextra dorsalis a sacco aortae	Right dorsal sprout from dorsal aorta
<b>E5.11.2.1.2.0.13</b>	A. sexti arcus pharyngei [6]; Arcus pulmonalis <sup>223</sup>	Sixth pharyngeal arch artery [6]; Sixth aortic arch [6]; Pulmonary arch
<b>E5.11.2.1.2.0.14</b>	Bifurcatio trunci pulmonalis	Bifurcation of pulmonary trunk
<b>E5.11.2.1.2.0.15</b>	A. pulmonalis	Pulmonary artery
<b>E5.11.2.1.2.0.16</b>	Gemma sinistra dorsalis a sacco aortae	Left dorsal sprout from dorsal aorta
<b>E5.11.2.1.2.0.17</b>	Ductus arteriosus	Ductus arteriosus
<b>E5.11.2.1.2.0.18</b>	Lig. arteriosum	Ligamentum arteriosum §Botallo§
<b>E5.11.2.1.3.0.1</b>	<b>Aortae dorsales</b>	<b>Dorsal aortae</b>
<b>E5.11.2.1.3.0.2</b>	Aortae dorsales pares	Paired dorsal aortae
<b>E5.11.2.1.3.0.3</b>	Aortae dorsales non conjunctae	Unfused dorsal aortae
<b>E5.11.2.1.3.0.4</b>	Aortae dorsales conjunctae	Fused dorsal aortae
<b>E5.11.2.1.3.0.3</b>	<b>Aortae dorsales non conjunctae</b>	<b>Unfused dorsal aortae</b>
<b>E5.11.2.1.3.1.1</b>	Radix sinistra aortae dorsalis; Pars sinistra par aortae dorsalis	Left dorsal aortic root; Left paired part of dorsal aorta
<b>E5.11.2.1.3.1.2</b>	Pars distalis arcus aortae	Distal part of arch of aorta
<b>E5.11.2.1.3.1.3</b>	Pars proximalis aortae descendens	Proximal descending aorta
<b>E5.11.2.1.3.1.4</b>	Radix dextra aortae dorsalis; Pars dextra par aortae dorsalis	Right dorsal aortic root; Right paired part of dorsal aorta
<b>E5.11.2.1.3.1.5</b>	Pars intermedia arteriae subclaviae dextrae	Intermediate part of right subclavian artery
<b>E5.11.2.1.3.0.4</b>	<b>Aortae dorsales conjunctae</b>	<b>Fused dorsal aortae</b>
<b>E5.11.2.1.3.2.1</b>	Pars impar aortae dorsalis	Unpaired part of dorsal aorta
<b>E5.11.2.1.3.2.2</b>	A. segmentalis ventralis	Ventral segmental artery
<b>E5.11.2.1.3.2.3</b>	A. omphalomesenterica; A. vitellina	Omphalomesenteric artery; Vitelline artery
<b>E5.11.2.1.3.2.4</b>	Truncus coeliacus	Coeliac trunk <sup>▲</sup>
<b>E5.4.7.0.0.6</b>	A. mesenterica superior	Superior mesenteric artery
<b>E5.11.2.1.3.2.5</b>	A. mesenterica inferior	Inferior mesenteric artery
<b>E5.11.2.1.3.2.6</b>	Truncus umbilicalis	Umbilical trunk
<b>E5.11.2.1.3.2.7</b>	A. iliaca communis	Common iliac artery
<b>E5.11.2.1.3.2.8</b>	A. iliaca interna	Internal iliac artery

<sup>237</sup> E5.11.2.1.2.0.11 A. quinti arcus pharyngei Only the first four pharyngeal arches, grooves and pouches are distinct structures. Nevertheless, arch arteries develop caudal to the fourth arch. The pulmonary arch caudal to the fourth arch artery is sometimes named a sixth arch artery because of its phylogeny, even when a fifth arch artery is not present (Congdon ED. Transformation of the aortic-arch system during the development of the human embryo. Contrib Embryol Carnegie Instn 1922;14:47-110).

<b>E5.11.2.1.3.2.9</b>	A. umbilicalis <sup>238</sup>	Umbilical artery
<b>E5.11.2.1.3.2.10</b>	A. axialis membri inferioris; Rete arteriosum axiale membri inferioris	Axial artery of lower limb; Axial arterial plexus of lower limb
<b>E5.11.2.1.3.2.11</b>	A. nervi ischiadici	Artery of sciatic nerve
<b>E5.11.2.1.3.2.12</b>	Lig. umbilicale mediale	Medial umbilical ligament
<b>E5.11.2.1.3.2.13</b>	Aa. vesicales superiores	Superior vesical arteries
<b>E5.11.2.1.3.2.14</b>	A. segmentalis lateralis	Lateral segmental artery
<b>E5.11.2.1.3.2.15</b>	A. phrenica communis	Common phrenic artery
<b>E5.11.2.1.3.2.16</b>	A. suprarenalis media	Middle suprarenal artery
<b>E5.11.2.1.3.2.17</b>	A. renalis	Renal artery
<b>E5.11.2.1.3.2.18</b>	A. gonadalis	Gonadal artery
<b>E5.11.2.1.3.2.19</b>	Aa. intersegmentales dorsolaterales	Dorsolateral intersegmental arteries
<b>E5.11.2.1.3.2.20</b>	R. dorsalis	Dorsal branch
<b>E5.11.2.1.3.2.21</b>	Anastomosis dorsalis	Dorsal anastomosis
<b>E5.11.2.1.3.2.22</b>	A. vertebralis	Vertebral artery
<b>E5.11.2.1.3.2.23</b>	Anastomosis vertebralis	Vertebral anastomosis
<b>E5.11.2.1.3.2.24</b>	A. basilaris	Basilar artery
<b>E5.11.2.1.3.2.25</b>	Anastomosis ventralis	Ventral anastomosis
<b>E5.11.2.1.3.2.26</b>	Truncus thyrocervicalis	Thyrocervical trunk
<b>E5.11.2.1.3.2.27</b>	Truncus costocervicalis	Costocervical trunk
<b>E5.11.2.1.3.2.28</b>	R. ventrolateralis	Ventrolateral branch
<b>E5.11.2.1.3.2.29</b>	Pars dorsalis arteriae subclaviae dextrae	Distal part of right subclavian artery
<b>E5.11.2.1.3.2.30</b>	A. subclavia sinistra	Left subclavian artery
<b>E5.11.2.1.3.2.31</b>	A. axialis membri superioris; Rete arteriosum axiale membri superioris	Axial artery of upper limb; Axial arterial plexus of upper limb
<b>E5.11.2.1.3.2.32</b>	A. axillaris	Axillary artery
<b>E5.11.2.1.3.2.33</b>	A. brachialis	Brachial artery
<b>E5.11.2.1.3.2.34</b>	A. interossea anterior	Anterior interosseus artery
<b>E5.11.2.1.3.2.35</b>	(A. mediana)	(Median artery)
<b>E5.11.2.1.3.2.36</b>	A. intercostalis	Intercostal artery
<b>E5.11.2.1.3.2.37</b>	A. lumbalis	Lumbar artery
<b>E5.11.2.1.3.2.38</b>	A. sacralis mediana	Median sacral artery
<b>E5.11.2.2.0.0.1</b>	<b>VENAE</b>	<b>VEINS</b>
<b>E5.11.2.2.0.0.2</b>	Venogenesis	Venogenesis
<b>E5.11.2.2.1.0.1</b>	<b>Venae extraembryonicae</b>	<b>Extra-embryonic veins</b>
<b>E5.11.2.2.1.0.2</b>	V. omphalomesenterica extraembryonica; V. vitellina extraembryonica	Extra-embryonic omphalomesenteric vein
<b>E5.11.2.2.1.0.3</b>	V. allantoica	Allantoic vein
<b>E5.11.2.2.1.0.4</b>	V. umbilicalis	Umbilical vein
<b>E5.11.2.2.2.0.1</b>	<b>Venae intraembryonicae</b>	<b>Intra-embryonic veins</b>
<b>E5.11.2.2.1.0.4</b>	V. umbilicalis	Umbilical vein
<b>E5.11.2.2.2.0.2</b>	Lig. teres hepatis	Round ligament of liver
<b>E5.11.2.2.2.0.3</b>	Plexus venosus visceralis	Visceral venous plexus
<b>E5.11.2.2.2.1.1</b>	<b>Venae viscerales</b>	<b>Visceral veins</b>
<b>E5.11.2.2.2.1.2</b>	V. pulmonalis communis	Common pulmonary vein
<b>E5.11.2.2.2.1.3</b>	V. omphalomesenterica intraembryonica; V. vitellina intraembryonica	Intra-embryonic omphalomesenteric vein
<b>E5.11.2.2.2.1.4</b>	V. portae hepatis	Hepatic portal vein
<b>E5.11.2.2.2.1.5</b>	Vv. afferentes hepatis	Afferent hepatic veins
<b>E5.4.12.0.0.3.7</b>	Ductus venosus	Ductus venosus
<b>E5.11.2.2.2.1.6</b>	Lig. venosum	Ligamentum venosum
<b>E5.11.2.2.2.1.7</b>	Vv. efferentes hepatis	Efferent hepatic veins
<b>E5.11.2.2.2.1.8</b>	Vv. hepaticae	Hepatic veins
<b>E5.11.2.2.2.1.9</b>	Pars hepatica venae cavae inferioris	Hepatic part of inferior vena cava
<b>E5.11.2.2.2.2.1</b>	<b>Venae somaticae</b>	<b>Somatic veins</b>
<b>E5.11.2.2.2.2.2</b>	V. praecardinalis	Precardinal vein; Anterior cardinal vein
<b>E5.11.2.2.2.2.3</b>	V. capitis primaria	Primary head vein
<b>E5.11.2.2.2.2.4</b>	V. jugularis interna	Internal jugular vein
<b>E5.11.2.2.2.2.5</b>	V. jugularis externa	External jugular vein

<sup>238</sup> E5.11.2.1.3.2.9 A. umbilicalis The umbilical arteries develop precociously in the mesoderm of the connecting stalk in relation to the allantoic diverticulum, where they may be regarded as allantoic arteries. The vascularization of the placenta is thus said to be chorio-allantoic.

<b>E5.11.2.2.2.2.6</b>	Truncus brachiocephalicus dexter	Right brachiocephalic trunk
<b>E5.11.2.2.2.2.7</b>	Anastomosis praecardinalis	Praecardinal anastomosis
<b>E5.11.2.2.2.2.8</b>	Truncus brachiocephalicus sinister	Left brachiocephalic trunk
<b>E5.11.2.2.2.2.9</b>	V. subclavia	Subclavian vein
<b>E5.11.2.2.2.2.10</b>	Pars superior venae cavae superioris	Superior part of superior vena cava
<b>E5.11.2.2.2.2.11</b>	V. cardinalis communis dextra	Right common cardinal vein
<b>E5.11.2.2.2.2.12</b>	Pars inferior venae cavae superioris	Inferior part of superior vena cava
<b>E5.11.2.2.2.2.13</b>	V. intercostalis superior dextra	Right superior intercostal vein
<b>E5.11.2.2.2.2.14</b>	Radix venae azygos	Root of azygos vein
<b>E5.11.2.2.2.2.15</b>	V. cardinalis communis sinistra	Left common cardinal vein
<b>E5.11.2.2.2.2.16</b>	Pars distalis sinus coronarii	Distal part of coronary sinus
<b>E5.11.2.2.2.2.17</b>	V. obliqua atrii sinistri	Oblique vein of left atrium
<b>E5.11.2.2.2.2.18</b>	Lig. venae cavae sinistrae	Ligament of left vena cava
<b>E5.11.2.2.2.2.19</b>	V. postcardinalis <sup>239</sup>	Postcardinal vein; Posterior cardinal vein
<b>E5.11.2.2.2.2.20</b>	V. azygos	Azygos vein
<b>E5.11.2.2.2.2.21</b>	V. azygos accessoria	Accessory azygos vein
<b>E5.11.2.2.2.2.22</b>	V. hemiazygos	Hemi-azygos vein
<b>E5.11.2.2.2.2.23</b>	V. hemiazygos accessoria	Accessory hemi-azygos vein
<b>E5.11.2.2.2.2.24</b>	V. gonadalis	Gonadal vein
<b>E5.11.2.2.2.2.25</b>	Anastomosis subcardinalis	Subcardinal anastomosis
<b>E5.11.2.2.2.2.26</b>	V. renalis sinistra	Left renal vein
<b>E5.11.2.2.2.2.27</b>	V. subcardinalis dextra	Right subcardinal vein
<b>E5.11.2.2.2.2.28</b>	Pars subcardinalis venae cavae inferioris	Subcardinal part of inferior vena cava
<b>E5.11.2.2.2.2.29</b>	Vv. intersegmentales	Intersegmental veins
<b>E5.11.2.2.2.2.30</b>	V. marginalis membri	Marginal limb vein
<b>E5.11.2.2.2.2.31</b>	V. postaxialis membri inferioris; Rete venosum postaxiale membri inferioris	Postaxial vein of lower limb; Postaxial venous plexus of lower limb
<b>E5.11.2.2.2.2.32</b>	V. saphena parva	Small saphenous vein
<b>E5.11.2.2.2.2.33</b>	V. praeaxialis membri inferioris; Rete venosum praeaxiale membri inferioris	Pre-axial vein of lower limb; Pre-axial venous plexus of lower limb
<b>E5.11.2.2.2.2.34</b>	V. saphena magna	Great saphenous vein
<b>E5.11.2.2.2.2.35</b>	V. axialis membri inferioris; Rete venosum axiale membri inferioris	Axial vein of lower limb; Axial venous plexus of lower limb
<b>E5.11.2.2.2.2.36</b>	V. comitans nervi ischiadici	Vena comitans of sciatic nerve
<b>E5.11.2.2.2.2.37</b>	V. postaxialis membri superioris; Rete venosum postaxiale membri superioris	Postaxial vein of upper limb; Postaxial venous plexus of upper limb
<b>E5.11.2.2.2.2.38</b>	V. basilica	Basilic vein
<b>E5.11.2.2.2.2.39</b>	V. praeaxialis membri superioris; Rete venosum praeaxiale membri superioris	Pre-axial vein of upper limb; Pre-axial venous plexus of upper limb
<b>E5.11.2.2.2.2.40</b>	V. cephalica	Cephalic vein
<b>E5.11.2.2.2.2.41</b>	V. axialis membri superioris; Rete venosum axiale membri superioris	Axial vein of upper limb; Axial venous plexus of upper limb
<b>E5.11.2.2.2.2.42</b>	Vv. brachiales	Brachial veins
<b>E5.11.2.2.2.2.43</b>	Vv. Interosseae anteriores	Anterior interosseus veins
<b>E5.11.2.3.0.0.1</b>	<b>VASA LYMPHATICA</b>	<b>LYMPH VESSELS</b>
<b>E5.11.2.3.0.0.2</b>	Lymphangiogenesis <sup>240</sup>	Lymphangiogenesis
<b>E5.11.2.3.0.0.3</b>	Reticulum mesenchymale	Mesenchymal reticulum
<b>E5.11.2.3.0.0.4</b>	Textus reticularis	Reticular tissue
<b>E5.11.2.3.0.0.5</b>	Cellula reticularis	Reticular cell
<b>E5.11.2.3.0.0.6</b>	Cellula erythropoietica	Erythropoietic cell
<b>E5.11.2.3.0.0.7</b>	Cellula granulopoietica	Granulopoietic cell
<b>E5.11.2.3.0.0.8</b>	Cellula lymphopoietica	Lymphopoietic cell
<b>E5.11.2.3.0.0.9</b>	Monocytus	Monocyte
<b>E5.11.2.3.0.0.10</b>	Macrophagocytus	Macrophage
<b>E5.11.2.3.0.0.11</b>	Vas sanguineum arteriale	Arterial blood vessel
<b>E5.11.2.3.0.0.12</b>	Sinus lymphaticus	Lymphatic sinus
<b>E5.11.2.3.0.0.13</b>	Sacci lymphatici	Lymph sacs

<sup>239</sup> E5.11.2.2.2.19 *V. postcardinalis* In the human embryo there are no supracardinal veins and the azygos system develops from the postcardinal veins (Lamers WH., unpublished observations; Hochstetter F. *Entwicklung des Venensystems der Wirbeltiere. Ergeb Anat Entwicklungsgesch* 1893;3:460-489).

<sup>240</sup> E5.11.2.3.0.0.2 *Lymphangiogenesis* The formation of lymphatics (Oliver G. *Lymphatic vasculature development. Nature Rev Immunol.* 2004;4:35-45).

<b>E5.11.2.3.0.0.14</b>	Saccus lymphaticus jugularis	Jugular lymph sac
<b>E5.11.2.3.0.0.15</b>	Saccus lymphaticus axillaris	Axillary lymph sac
<b>E5.11.2.3.0.0.16</b>	Saccus lymphaticus juguloaxillaris	Juguloaxillary lymph sac
<b>E5.11.2.3.0.0.17</b>	Ductus thoracicus duplex symmetricus	Double thoracic duct
<b>E5.11.2.3.0.0.18</b>	Ductus thoracicus simplex definitivus	Definitive thoracic duct
<b>E5.11.2.3.0.0.19</b>	Cysterna chyli	Cysterna chyli; Chyle cistern
<b>E5.11.2.3.0.0.20</b>	Junctio lymphaticovenosa	Lymphatic vein junction
<b>E5.11.2.3.0.0.21</b>	Saccus lymphaticus mesentericus	Mesenteric lymph sac
<b>E5.11.2.3.0.0.22</b>	Saccus lymphaticus lumbalis	Lumbar lymph sac
<b>E5.11.2.3.0.0.23</b>	Saccus lymphaticus ilioinguinalis	Ilioinguinal lymph sac
<b>E5.11.2.3.0.0.24</b>	Vas capillare lymphaticum	Lymphatic capillary
<b>E5.11.2.3.1.0.1</b>	<b>Anomaliae vasculorum</b>	<b>Vascular anomalies</b>
<b>E5.11.2.3.1.0.2</b>	Aneurysma congenitum	Congenital aneurysm
<b>E5.11.2.3.1.0.3</b>	A. coronaria unica	Single coronary artery
<b>E5.11.2.3.1.0.4</b>	Aneurysma congenitum arteriae coronariae	Congenital aneurysm of coronary artery
<b>E5.11.2.3.1.0.5</b>	Fistula arteriae coronariae	Fistula of coronary artery
<b>E5.11.2.3.1.0.6</b>	Origo pulmonalis arteriarum coronariarum	Pulmonary artery origin of coronary arteries
<b>E5.11.2.3.1.0.7</b>	Anulus vascularis arcus aortae	Double aortic arch; Aortic arch vascular ring
<b>E5.11.2.3.1.0.8</b>	Arcus aortae dexter	Right arch of aorta
<b>E5.11.2.3.1.0.9</b>	Arcus aortae interruptus	Interrupted arch of aorta
<b>E5.11.2.3.1.0.10</b>	Coarctatio aortae	Aortic coarctation
<b>E5.11.2.3.1.0.11</b>	A. subclavia lusoria	Retro-oesophageal right subclavian artery
<b>E5.11.2.3.1.0.12</b>	Ductus arteriosus patens	Patent ductus arteriosus §Botallo§
<b>E5.11.2.3.1.0.13</b>	Stenosis trunci pulmonalis	Pulmonary trunk stenosis
<b>E5.11.2.3.1.0.14</b>	Stenosis arteriae pulmonalis	Pulmonary artery stenosis
<b>E5.11.2.3.1.0.15</b>	Anomaliae connexionium venarum pulmonalium	Anomalous pulmonary venous connections
<b>E5.11.2.3.1.0.16</b>	V. cava inferior praeureterica	Pre-ureteric inferior vena cava
<b>E5.11.2.3.1.0.17</b>	V. cava inferior sinistra	Left inferior vena cava
<b>E5.11.2.3.1.0.18</b>	V. cava superior sinistra persistens	Persistent left superior vena cava
<b>E5.11.2.3.1.0.19</b>	V. cava superior duplex	Double superior vena cava
<b>E5.11.2.3.1.0.20</b>	Haemangioma	Haemangioma <sup>▲</sup>
<b>E5.11.2.3.1.0.21</b>	Lymphangioma	Lymphangioma
<b>E5.11.2.3.1.0.22</b>	Hygroma cystica	Cystic hygroma
<b>E5.11.3.0.0.0.1</b>	<b>Formatio haemocytorum<sup>241</sup></b>	<b>Blood cell production</b>
<b>E5.11.3.1.0.0.1</b>	<b>TEXTUS HAEMANGIOGENICUS</b>	<b>HAEMANGIOGENIC TISSUE<sup>▲</sup></b>
<b>E5.11.3.1.1.0.2</b>	<b>Textus haemangiogenicus extraembryonicus</b>	<b>Extra-embryonic haemangiogenic tissue<sup>▲</sup></b>
<b>E5.11.3.1.1.0.3</b>	Chorion	Chorion
<b>E5.11.3.1.1.0.4</b>	Pedunculus connectans	Connecting stalk
<b>E5.7.1.0.0.0.4</b>	Vesicula umbilicalis; Saccus vitellinus <sup>242</sup>	Umbilical vesicle; Yolk sac
<b>E5.11.3.1.1.0.5</b>	Placenta	Placenta
<b>E5.11.3.1.2.0.1</b>	<b>Textus haemangiogenicus intraembryonicus</b>	<b>Intra-embryonic haemangiogenic tissue<sup>▲</sup></b>
<b>E5.11.3.1.2.0.2</b>	Regio AorticoGonadoMesonephrica; AGM	Aortic-Gonadal-Mesonephric region; AGM
<b>E5.11.3.1.3.0.1</b>	<b>Acervatio cellularum haemangiogenicarum</b>	<b>Haemangiogenic cell cluster<sup>▲</sup></b>
<b>E5.11.2.0.0.0.4</b>	Insula sanguinea vesiculae umbilicalis; Insula sanguinea sacci vitellini	Blood island of umbilical vesicle; Blood island of yolk sac
<b>E5.11.3.1.3.0.2</b>	Haemangioblastus	Haemangioblast <sup>▲</sup>
<b>E5.11.3.1.3.0.3</b>	Angioblastus	Angioblast
<b>E5.11.2.0.0.0.5</b>	Endothelioblastus	Endothelioblast
<b>E5.4.12.0.0.5.1</b>	Endotheliocytus	Endothelial cell
<b>E5.11.3.1.3.0.4</b>	Vas capillare primordiale	Primordial capillary
<b>E5.11.3.1.3.0.5</b>	Haemocytoblastus	Haemocytoblast <sup>▲</sup>
<b>E5.11.3.1.3.0.6</b>	Sanguis primordialis	Primordial blood
<b>E4.0.0.1.2.0.11</b>	Cellula haematopoietica praecursoria <sup>243</sup>	Haematopoietic stem cell <sup>▲</sup>

<sup>241</sup> E5.11.3.0.0.0.1 *Formatio haemocytorum* This section on *Blood cell production* complements the extensive section with the same name in Terminologia Histologica 2008 [H2.00.04.3.00001]: here it is restricted to the initiation of haemangiogenesis and the most distinctive features of embryonic and fetal blood.

<sup>242</sup> E5.7.1.0.0.0.4 *Vesicula umbilicalis; Saccus vitellinus* The *umbilical vesicle* or *Yolk sac* accommodates primordial erythroblasts, together with a relatively very small population of macrophages which are the only other differentiated blood cells that it accommodates (Kelemen E, Calvo W, Fliedner TM. Atlas of Human Hemopoietic Development. Springer-Verlag, Berlin, Heidelberg, New York, 1979; Palis J and Yoder MC, Yolk-sac hematopoiesis: The first blood cells of mouse and man. Exp Hematol 2001;29:927-936).

<b>E5.11.3.1.3.0.7</b>	Cellula haematopoietica progenetrix	Haematopoietic progenitor cell <sup>▲</sup>
<b>E5.11.3.1.3.0.8</b>	Macroblastus <sup>244</sup>	Macroblast
<b>E5.11.3.1.3.0.9</b>	Macrocytus	Macrocyte
<b>E5.11.3.1.3.0.10</b>	Erythroblastus <sup>245</sup>	Erythroblast
<b>E5.11.3.1.3.0.11</b>	Erythrocytus	Erythrocyte
<b>E5.11.3.1.3.0.12</b>	Haemoglobinum embryonicum <sup>246</sup>	Embryonic haemoglobin <sup>▲</sup>
<b>E5.11.3.1.3.0.13</b>	Haemoglobinum foetale; HbF	Fetal haemoglobin; HbF <sup>▲</sup>
<b>E5.11.3.1.3.0.14</b>	Haemoglobinum adultum; HbA	Adult haemoglobin; HbA <sup>▲</sup>
<b>E5.11.3.1.4.0.1</b>	<b>Acervatio cellularum angiogenicarum</b>	<b>Angiogenic cell cluster</b>
<b>E5.11.3.1.3.0.3</b>	Angioblastus	Angioblast
<b>E5.11.2.0.0.5</b>	Endothelioblastus	Endothelioblast
<b>E5.4.12.0.0.5.1</b>	Endotheliocytus	Endothelial cell
<b>E5.11.3.1.3.0.4</b>	Vas capillare primordiale	Primordial capillary
<b>E5.11.3.1.5.0.1</b>	<b>Haemangiogenesis<sup>247</sup></b>	<b>Haemangiogenesis<sup>▲</sup></b>
<b>E5.11.3.1.3.0.2</b>	Haemangioblastus <sup>247</sup>	Haemangioblast <sup>▲</sup>
<b>E5.11.2.0.0.2.1</b>	<b>Angiogenesis<sup>236</sup></b>	<b>Angiogenesis</b>
<b>E5.11.3.1.7.0.1</b>	<b>Textus haematopoieticus</b>	<b>Haematopoietic tissue<sup>▲</sup></b>

<sup>243</sup> E4.0.0.1.2.0.11 *Cellula haematopoietica primordialis* Haematopoietic stem cells circulate in the blood throughout gestation and can be interchanged between dizygotic twins when their placental blood vessels are connected (Booth PB, Plaut G, James JD, Ikin EW, Moores P, Sanger R, Race RR. Blood chimerism in a pair of twins. *BMJ* 1957;1:1456-1458; Dunsford I, Bowley CC, Hutchison AM, Thompson JS, Sanger R, Race RR. A human blood group chimera. *BMJ* 1953;1: 81; Nicholas JW, Jenkins WJ, Marsh WL. Human blood chimeras: a study of surviving twins. (*BMJ* 1957;1:1458-1460) or isolated from blood remaining in the umbilical cord after the delivery of a baby and successfully transplanted thereafter (Gluckman E, Rocha V, Chevret S. Results of unrelated umbilical cord blood hematopoietic stem cell transplantation. *Rev Clinical Exp Hemat* 2001;5:87-99).

<sup>244</sup> E5.11.3.1.3.0.8 *Macroblastus* Macroblasts are large cells which contain pyknotic nuclei and a substantial amount of haemoglobin. These cells are similar in form to the macrocytes, which do not contain nuclei. Both populations are numerous in the early embryo but disappear before the end of the first trimester. Macroblasts are readily distinguished from megaloblasts, the cells which characterize megaloblastic anaemias.

<sup>245</sup> E5.11.3.1.3.0.10 *Erythroblastus* Fetal blood contains *erythroblasts* at all stages of maturation, together with corresponding progenitor cells and stem cells (Thomas DB, Yoffey JM. Human fetal haematopoiesis I. The cellular composition of fetal blood. *Br J Haematol* 1962;8:290-295; Thomas DB. The leuco-erythroblastic anaemia of the human foetus. *Arch Dis Childhood* 1963; 38: 95; Kelemen E, Calvo W, Fliedner TM. Atlas of Human Hemopoietic Development. Springer-Verlag, Berlin, Heidelberg, New York, 1979).

<sup>246</sup> E5.11.3.1.3.0.12 *Haemoglobinum embryonicum* Changes in haemoglobin molecules during the course of development reflect changes in their two dissimilar pairs of polypeptide chains (globin chains) :

Globin chains	Predominate in	Haemoglobin <sup>▲</sup>
Zeta + epsilon	early embryo	Gower 1
Zeta + gamma	early embryo	Portland 1
Zeta + beta	early embryo	Portland 2
Alpha + epsilon	early embryo	Gower 2
Alpha + gamma	fetus	Fetal (HbF)
Alpha + beta	postnatal life	Adult (HbA)
Alpha + delta	postnatal life	Adult (HbA2)

*Embryonic haemoglobins* invariably contain one or both of the distinctive globin chains that appear early in the first trimester (zeta and epsilon chains), which may be combined with alpha, beta or gamma chains. During the fifth week of gestation zeta chains and epsilon chains are already being synthesized by primitive erythroblasts in the umbilical vesicle. From the sixth week onwards these same cells also synthesize alpha, beta and gamma chains. Zeta chains and epsilon chains disappear before the end of the first trimester. During the fetal period alpha chains are combined with gamma chains in *fetal haemoglobin* (HbF) which is the predominant haemoglobin until early in the neonatal period. During the second half of gestation the bone marrow is established as the main site of haematopoiesis and *adult haemoglobin* (HbA), in which alpha chains are combined with beta chains, starts to replace fetal haemoglobin. Within a month or so of birth adult haemoglobin is the predominant haemoglobin but traces of fetal haemoglobin may persist for several months. In a minor adult haemoglobin (HbA2), alpha chains are combined with delta chains.

Polypeptide chains	Zeta	Alpha
Epsilon	Gower 1	
Gamma	Portland 1	
Beta	Portland 2	
Epsilon		Gower 2
Gamma		Fetal (HbF)
Beta		Adult, major (HbA)
Delta		Adult, minor (HbA2)

<sup>247</sup> E5.11.3.1.5.0.1/ E5.11.3.1.3.0.2 *Haemangiogenesis/Haemangioblast* It was suggested by Sabin in 1920, that the precursors of both blood cells and endothelial cells may be the progeny of a single population of cells, which were subsequently termed haemangioblasts by Murray in 1932. Haemangioblasts have now been characterised and isolated. Presumably haemangioblasts confer upon the endoderm-associated splanchnopleuric mesenchyme its capacity to sustain *haemangiogenesis*, the ability to give rise to both blood cells and endothelial cells, which is not shared by the ectoderm-associated somatopleuric mesoderm. Endothelial networks are established in somatopleuric mesodermal derivatives extrinsically, by ingrowth from pre-existing vessels of paraxial origin (*angiogenesis q.v.*); they are established in splanchnopleuric mesenchymal derivatives intrinsically, by haemangioblasts (*vasculogenesis q.v.*). Paraxial derivatives are barred from vascularizing visceral organs and from integrating into the floor of the aorta but those of splanchnopleuric origin enter the body wall, the kidney and the visceral organs. (Pardanaud L, Luton D, Prigent M, Bourcheit L-M, Catala M, Dieterlen-Lievre F. Two distinct endothelial lineages in ontogeny, one of them related to hemopoiesis, *Development* 1996;122:1363-1371, Bailey AS, Fleming WH. Converging roads: Evidence for an adult hemangioblast, *Exp Hematol* 2003;31:987-993).

<b>E5.11.3.1.7.0.2</b>	Textus haematopoieticus in hepate	Haematopoietic tissue in liver <sup>▲</sup>
<b>E5.11.3.1.7.0.3</b>	Textus haematopoieticus in pulpa rubra splenis <sup>248</sup>	Haematopoietic tissue in red pulp of spleen <sup>▲</sup>
<b>E5.11.3.1.7.0.4</b>	Textus haematopoieticus in medulla ossium	Haematopoietic tissue in bone marrow <sup>▲</sup>
<b>E5.11.3.1.8.0.1</b>	<b>Textus lymphoideus</b>	<b>Lymphoid tissue</b>
<b>E5.11.3.1.8.0.2</b>	Primordium thymi	Primordium of thymus
<b>E5.11.3.1.8.0.3</b>	Pulpa alba in primordio splenis	White pulp in splenic primordium
<b>E5.11.3.1.8.0.4</b>	Primordium nodi lymphoidei	Lymph node primordium
<b>E5.12.0.0.0.1</b>	<b>Systema lymphoideum</b>	<b>Lymphoid system</b>
<b>E5.12.1.0.0.1</b>	<b>Textus lymphoidei primarii</b>	<b>Primary lymphoid tissues</b>
<b>E5.12.1.1.0.0.1</b>	<b>MEDULLA OSSIIUM RUBRA</b>	<b>RED BONE MARROW; HAEMATOPOIETIC BONE MARROW<sup>▲</sup></b>
<b>E5.12.1.1.0.0.2</b>	Cellula stromalis medullae osseae	Bone marrow stromal cell
<b>E4.0.0.1.2.0.11</b>	Cellula haematopoietica praecursoria	Haematopoietic stem cell <sup>▲</sup>
<b>E5.11.3.1.3.0.7</b>	Cellula haematopoietica progenetrix	Haematopoietic progenitor cell <sup>▲</sup>
<b>E5.12.1.1.0.0.3</b>	Cellula thymocytopenetrix	Thymocytopenetrix progenitor cell
<b>E5.12.1.2.0.0.1</b>	<b>THYMUS<sup>249</sup></b>	<b>THYMUS</b>
<b>E5.4.4.0.0.0.4</b>	Epithelium endodermale	Endodermal epithelium
<b>E5.4.2.0.0.1.10</b>	Saccus pharyngeus tertius [3]	Third pharyngeal pouch [3]
<b>E5.4.2.0.0.1.17</b>	(Saccus pharyngeus quartus [4]) <sup>250</sup>	(Fourth pharyngeal pouch [4])
<b>E5.12.1.2.0.0.2</b>	Epithelium ectodermale <sup>251</sup>	Ectodermal epithelium
<b>E4.0.4.1.0.0.5</b>	Ectomesenchyma; Mesenchyma cristae neuralis <sup>252</sup>	Ectomesenchyme; Neural crest mesenchyme
<b>E5.11.3.1.8.0.2</b>	Primordium thymi	Primordium of thymus
<b>E5.12.1.2.0.0.3</b>	Gemma thymica pharyngealis	Pharyngeal thymic bud
<b>E5.12.1.2.0.0.4</b>	Gemma thymica mediastinalis	Mediastinal thymic bud
<b>E5.12.1.2.0.0.5</b>	Capsula	Capsule
<b>E5.12.1.2.0.0.6</b>	Septum corticale	Cortical septum
<b>E5.12.1.2.0.0.7</b>	Lobus thymicus	Thymic lobe
<b>E5.12.1.2.0.0.8</b>	Lobulus thymicus	Thymic lobule
<b>E5.12.1.2.1.0.1</b>	<b>Cortex thymi</b>	<b>Cortex of thymus</b>
<b>E5.12.1.2.1.0.2</b>	Cortex subcapsularis thymi	Subcapsular cortex
<b>E5.12.1.2.1.0.3</b>	Cortex juxtamedullaris thymi	Juxtamedullary cortex
<b>E5.12.1.2.1.0.4</b>	Junctio corticomedullaris thymi	Corticomedullary junction
<b>E5.12.1.2.2.0.1</b>	<b>Medulla thymi</b>	<b>Medulla of thymus</b>
<b>E5.12.1.2.2.0.2</b>	Medulla externa thymi	Outer medulla
<b>E5.12.1.2.2.0.3</b>	Medulla interna thymi	Inner medulla
<b>E5.12.1.2.2.0.4</b>	Cytoreticulum thymi	Cytoreticulum
<b>E5.12.1.2.2.0.5</b>	Cytoreticulum corticale thymicum	Cortical cytotreticulum of thymus
<b>E5.12.1.2.2.0.6</b>	Epitheliocytus reticularis typorum I-III	Types I-III epithelial reticular cells
<b>E5.12.1.2.2.0.7</b>	Cytoreticulum medullare thymicum	Medullary cytotreticulum of thymus
<b>E5.12.1.2.2.0.8</b>	Epitheliocytus reticulares typorum IV-VI	Types IV-VI epithelial reticular cells

<sup>248</sup> E5.11.3.1.7.0.3 *Textus haematopoieticus in pulpa rubra splenis* In the human fetus the spleen is not a preferential site of blood cell production between the fourth and seventh months of gestation but, like any other site, the spleen may accommodate intra-vascular blood cell precursors. (Thomas DB. Is the spleen a preferential site of blood cell production in the human fetus? Ital J Anat Embryol 1995;100(Supp 1):245-252).

<sup>249</sup> E5.12.1.2.0.0.1 *Thymus* Developmental phases: 1. Primordial; 2. Colonization of primordium by cells derived from the hepatic haematopoietic stem cell population of the liver; 3. Proliferation of T cell antecedents; 4. Generation of T cells; 5. Emigration of mature T cells (to secondary lymphoid tissues).

<sup>250</sup> E5.4.2.0.0.1.17 *Saccus pharyngeus quartus [4]* The ventral part of the fourth pharyngeal arch may contribute to the thymus in a proportion of human embryos (Van Dyke JH. On the origin of accessory thymus tissue, thymus IV: the occurrence in man. Anat Rec 1941;79:179-209).

<sup>251</sup> E5.12.1.2.0.0.2 *Epithelium ectodermale* Histological observations have suggested a contribution from the third pharyngeal groove but recent experimental studies suggest otherwise (Gordon J, Wilson VA, Blair NF, Sheridan J, Farley A, Wilson L, Manley NR, Blackburn CC. Functional evidence for a single endodermal origin for the thymic epithelium. Nat Immunol 2004;5:546-553).

<sup>252</sup> E4.0.4.1.0.0.5 *Ectomesenchyma; Mesenchyma cristae neuralis* Ectomesenchymal cells appear to be required to expand the number of thymic epithelial cells in early stages (Anderson G, Jenkinson WE, Jones T, Parnell SM, Kinsella FA, White AJ, Pongracz JE, Rossi JW, Jenkinson EJ. Establishment and functioning of intrathymic microenvironments. Immunol Rev 2006;209:10-27).

<b>E5.12.1.2.2.0.9</b>	Cellula dendritica thymi <sup>253</sup>	Dendritic reticular cell of thymus
<b>E5.12.1.2.2.0.10</b>	Corpusculum thymicum	Thymic corpuscle §Hassall§
<b>E5.12.1.2.3.0.1</b>	<b>Progenies cellularum T<sup>254</sup></b>	<b>T cell lineage</b>
<b>E4.0.0.1.2.0.11</b>	Cellula haematopoietica praecursoria	Haematopoietic stem cell <sup>▲</sup> [Tmarker negative cell]
<b>E5.12.1.2.3.0.2</b>	Cellula thymocytopoietica progenetrix <sup>254</sup>	Thymocytopoietic progenitor cell [Tdt <sup>+</sup> CD34 <sup>+</sup> CD1 <sup>-/+</sup> CD3 <sup>-</sup> CD4 <sup>-</sup> CD8 <sup>-</sup> cell; Triple negative cell]
<b>E5.12.1.2.3.0.3</b>	Prothymocytus <sup>255</sup>	Prothymocyte [CD4 <sup>-</sup> CD8 <sup>-</sup> cell; Double negative cell]
<b>E5.12.1.2.3.0.4</b>	Thymocytus corticalis <sup>254</sup>	Cortical thymocyte [CD4 <sup>+</sup> CD8 <sup>+</sup> cell; Double positive cell]
<b>E5.12.1.2.3.0.5</b>	Thymocytus medullaris <sup>254</sup>	Medullary thymocyte [CD4 <sup>+</sup> or CD8 <sup>+</sup> cell; Single positive cell]
<b>E5.12.1.2.3.0.6</b>	Cellula T matus; Thymocytus; Lymphocytus T	Mature T cell; T Lymphocyte; Thymocyte
<b>E5.12.1.2.3.0.7</b>	Cellulae T regulatrices	Regulator T cells; CD4 <sup>+</sup> T cells
<b>E5.12.1.2.3.0.8</b>	Cellula T adjuvans <sup>256</sup>	T helper cell
<b>E5.12.1.2.3.0.9</b>	Cellulae efficientes	Effector T cells
<b>E5.12.1.2.3.0.10</b>	Cellula T cytotoxica	T cytotoxic cell; Tc cell; CD8 <sup>+</sup> cell
	<b>Insignia alia</b>	<b>Other aspects</b>
<b>E5.12.1.2.4.0.1</b>	Cellula necatoria anticorporibus non subjecta <sup>257</sup>	Antibody-independent natural killer cell; NK cell
<b>E5.12.1.2.4.0.2</b>	Cellula myoidea thymi <sup>258</sup>	Thymic myoid cell
<b>E5.11.2.3.0.0.10</b>	Macrophagocytus	Macrophage
<b>E5.12.1.2.4.0.3</b>	Mastocytus	Mast cell; Mastocyte
<b>E5.12.1.2.4.0.4</b>	Cellula apoptotica	Apoptotic cell
<b>E5.12.1.2.4.0.5</b>	Involutio thymi	Involution of thymus
<b>E5.12.1.2.4.0.6</b>	Clastrum haematothymicum	Blood-thymus barrier
<b>E5.12.1.2.5.0.1</b>	<b>Anomaliae thymi</b>	<b>Anomalies of thymus</b>
<b>E5.12.1.2.5.0.2</b>	Aplasia thymi	Aplasia of thymus
<b>E5.4.2.0.1.0.11</b>	Aplasia thymoparathyroidea	Thymoparathyroid aplasia §DiGeorge§
<b>E5.12.1.2.5.0.3</b>	Ectopia thymi	Ectopic thymus
<b>E5.12.1.2.5.0.4</b>	Hypoplasia thymi	Hypoplasia of thymus §Sprintzen§
<b>E5.12.1.2.5.0.5</b>	Textus thymicus accessorius	Accessory thymic tissue
<b>E5.12.2.0.0.0.1</b>	<b>Textus lymphoidei secundarii<sup>259</sup></b>	<b>Secondary lymphoid tissues</b>
<b>E5.12.2.0.0.0.2</b>	Textus lymphoideus diffusus	Diffuse lymphoid tissue
<b>E5.12.2.0.0.0.3</b>	Textus lymphoideus circumscriptus	Circumscribed lymphoid tissue

<sup>253</sup> E5.12.1.2.2.0.9 *Cellula dendritica thymi* Dendritic cells have been demonstrated in the human fetal thymus (Liu YJ. Uncover the mystery of plasmacytoid dendritic precursors or type 1 interferon producing cells by serendipity. Hum Immunol 2002;63:1067-1071).

<sup>254</sup> E5.12.1.2.3.0.1 *Progenies cellularum T* Thymocytic progenitor cells reaching the thymic cortex express high levels of Cluster of Differentiation molecule 34 and CD45 and become CD1 positive but they remain negative for CD3, CD4 and CD8 (triple negative cells). In due course, prothymocytes which are CD3+, CD4- and CD8- (double negative cells) form in the cortex, move to the medulla and come to express both CD4 and CD8 (double positive cells), giving rise to both CD4+CD8- helper cells and CD4-CD8+ cytotoxic cells, which leave the thymus.

<sup>255</sup> E5.12.1.2.3.0.3 *Prothymocytus* Prothymocytes are double negative cortical cells that are morphologically recognizable antecedents of T cells.

<sup>256</sup> E5.12.1.2.3.0.8 *Cellula T adjuvans* B lymphocytes are numerous during the fifteenth week of gestation but plasma cells remain rare and serum immunoglobulins virtually absent until after birth. This may reflect functional immaturity of T helper cells in the fetus.

<sup>257</sup> E5.12.1.2.4.0.1 *Cellula necatoria anticorporibus non subjecta* Antibody-independent natural killer cells are found in the thymus: they are the progeny of haematopoietic stem cells, derived initially from the liver and subsequently from the bone marrow.

<sup>258</sup> E5.12.1.2.4.0.2 *Cellula myoidea thymi* Thymic myoid cells are demonstrable from the 10 week embryo onwards (Sato T, Tamaoki N. Acta Pathol Jpn 1989;39:509-519). They are more numerous in the fetus and contain myofilaments but poorly developed sarcomeres (Lambropoulou M, Tamiolakis D, Venizelos I, Alexiadis G, Limberis V, Galzios G, Tsikouras P, Karamanlidis D, Koutsougeras G, Nikolaidou S, Petrakis G, Papadopoulos H, Papadopoulos N. A stromal myoid cell line provokes thymic T-cell immigration at the second and third gestational trimesters. Rev Med Chir Soc Med Nat Iasi 2007;11:710-716).

<sup>259</sup> E5.12.2.0.0.0.1 *Textus lymphoideus secundarius* Lymphocytes, which are ultimately derived from the haematopoietic tissues, leave the primary or central lymphoid tissues to be distributed by the blood and lymph to the secondary or peripheral lymphoid tissues. The completion of secondary lymphoid tissue maturation coincides with the establishment of antibody production during the neonatal period.



<b>E5.12.2.3.0.0.1</b>	<b>NODULUS LYMPHOIDEUS</b> <sup>260</sup>	<b>LYMPHOID NODULE</b>
<b>E5.12.2.3.0.0.2</b>	Nodulus lymphoideus fugax	Transient lymphoid nodule
<b>E5.12.2.3.0.0.3</b>	Nodulus lymphoideus permanens	Persistent lymphoid nodule
<b>E5.4.6.0.1.3.9</b>	Nodulus lymphoideus solitarius	Solitary lymphoid nodule
<b>E5.12.2.3.0.0.4</b>	Nodulus lymphoideus multiplex	Multiple lymphoid nodule
<b>E5.12.2.3.0.0.5</b>	Nodulus lymphoideus confluens	Confluent lymphoid nodule
<b>E5.12.2.3.0.0.6</b>	Nodulus lymphoideus liber	Free lymphoid nodule
<b>E5.12.2.3.0.0.7</b>	Nodulus lymphoideus consociatus	Associated lymphoid nodule
<b>E5.12.2.3.0.0.8</b>	Nodulus lymphoideus incorporatus	Integrated lymphoid nodule
<b>E5.12.2.3.0.0.9</b>	Cellula dendritica nodularis	Nodular dendritic cell §Langerhans§
<b>E5.12.2.3.0.0.10</b>	Lymphocytus B	B lymphocyte
<b>E5.12.2.3.0.0.11</b>	Plasmocytus	Plasma cell; Plasmocyte; Plasmacyte
<b>E5.12.2.3.1.0.1</b>	<b>Nodulus lymphoideus primarius</b>	<b>Primary lymphoid nodule</b>
<b>E5.12.2.3.2.0.1</b>	<b>Nodulus lymphoideus secundarius; Nodulus lymphoideus strenuus</b>	<b>Secondary lymphoid nodule; Active lymphoid nodule</b>
<b>E5.12.2.3.2.0.2</b>	Centrum germinativum	Germinal centre <sup>▲</sup>
<b>E5.12.2.3.2.0.3</b>	Zona pallii	Mantle zone
<b>E5.12.2.3.2.0.4</b>	Zona densa	Dark zone
<b>E5.12.2.3.2.0.5</b>	Zona lucida basalis	Basal light zone
<b>E5.12.2.3.2.0.6</b>	Zona lucida apicalis	Apical light zone
<b>E5.12.2.3.2.0.7</b>	Centroblastus; Lymphocytus B dividens	Centroblast; Dividing B lymphocyte
<b>E5.12.2.3.2.0.8</b>	Centrocytus	Centrocyte
<b>E5.12.2.3.3.0.1</b>	<b>TEXTUS LYMPHOIDEUS ADJUNCTUS MUCOSAE</b> <sup>261</sup>	<b>MUCOSA-ASSOCIATED LYMPHOID TISSUE [MALT]</b>
<b>E5.12.2.3.3.0.2</b>	Textus lymphoideus adjunctus broncho	Bronchus-associated lymphoid tissue [BALT]
<b>E5.12.2.3.3.0.3</b>	Textus lymphoideus adjunctus intestino	Gut-associated lymphoid tissue [GALT]
<b>E5.12.2.3.3.0.4</b>	Textus lymphoideus adjunctus ureteri	Ureter-associated lymphoid tissue [UALT]
<b>E5.12.2.3.4.0.1</b>	<b>TEXTUS LYMPHOIDEUS ADJUNCTUS SUPERFICEI</b>	<b>SURFACE-ASSOCIATED LYMPHOID TISSUE</b>
<b>E5.12.2.3.4.0.2</b>	Textus lymphoideus adjunctus tunicae conjunctivae	Conjunctiva-associated lymphoid tissue [CALT]
<b>E5.12.2.3.4.0.3</b>	Textus lymphoideus adjunctus cuti	Skin-associated lymphoid tissue [SALT]
<b>E5.12.2.3.5.0.1</b>	<b>NODUS LYMPHOIDEUS; NODUS LYMPHATICUS; LYMPHONODUS</b>	<b>LYMPH NODE</b>
<b>E4.0.4.1.0.0.2</b>	Mesenchyma somiticum	Somitic mesenchyme
<b>E4.0.4.1.0.0.3</b>	Mesenchyma somatopleurale <sup>206</sup>	Somatopleuric mesenchyme
<b>E4.0.4.1.0.0.4</b>	Mesenchyma splanchnopleurale <sup>207</sup>	Splanchnopleuric mesenchyme
<b>E4.0.4.1.0.0.5</b>	Ectomesenchyma; Mesenchyma cristae neuralis	Ectomesenchyme; Neural crest mesenchyme
<b>E4.0.4.1.0.0.6</b>	Mesenchyma ex eminentia caudale	Mesenchyme from caudal eminence
<b>E5.12.2.3.5.0.2</b>	Capsula nodi lymphatici	Capsule of lymph node
<b>E5.12.2.3.5.0.3</b>	Vas lymphaticum afferens	Afferent lymphatic vessel
<b>E5.12.2.3.5.0.4</b>	Valva lymphatica	Lymphatic valve
<b>E5.12.2.3.5.0.5</b>	Spatium subcapsulare	Subcapsular space; Subcapsular lymphatic sinus
<b>E5.12.2.3.6.0.1</b>	<b>Cortex</b>	<b>Cortex</b>
<b>E5.12.2.3.6.0.2</b>	Sinus lymphaticus corticalis	Cortical lymphatic sinus

<sup>260</sup> E5.12.2.3.0.0.1 *Nodulus lymphoideus* Lymphoid nodules are units of B lymphocyte organization in the secondary lymphoid tissues. They are unencapsulated clones of activated B lymphocytes, which may be transient or persistent and solitary or multiple. Multiple lymphoid nodules may be separate or coalescent, free in mucosa-associated lymphoid tissues (MALT) or associated in encapsulated organs where interaction between B and T lymphocytes is facilitated, exposure to antigens is promoted and integration may occur with lymphatic vessels (in lymph nodes) or blood vessels (in the spleen). An active lymphoid nodule may contain a germinal centre, in which a mantle zone can be distinguished from a dark zone, a basal light zone and an apical light zone. The dark zone contains dividing B lymphocytes, termed centroblasts, which give rise to centrocytes that migrate into the basal light zone, where they give rise to plasma cells and memory cells that enter the apical light zone.

<sup>261</sup> E5.12.2.3.3.0.1 *Textus lymphoideus adjunctus mucosae* Persistent, multiple coalescent aggregates of lymphoid nodules occur: in the palatine, pharyngeal and lingual tonsils where they form an incomplete ring at the crossover point between the alimentary and respiratory tracts (pharyngeal lymphoid ring); in the small intestine, especially the ileum (aggregated lymphoid nodules) and in the appendix. Together with solitary nodules, these gut-associated lymphoid tissues (GALT), bronchus-associated lymphoid tissues (BALT) and ureter-associated lymphoid tissues (UALT) constitute a group of mucosa-associated lymphoid tissues (MALT) that serves as a common mucosal immune system in which unencapsulated lymphoid nodules, devoid of afferent lymphatic vessels, receive antigens that cross the lamina propria. The highly modified epithelial cells that facilitate this process have been termed membrane-like cells (M cells) or, mistakenly, follicle-associated epithelial cells (FAE cells).

<b>E5.12.2.3.7.0.1</b>	<b>Paracortex</b> <sup>262</sup>	<b>Paracortex</b>
<b>E5.12.2.3.7.0.2</b>	Zona thymodependens	Thymus-dependent zone
<b>E5.12.1.2.3.0.6</b>	Cellula T matorus; Thymocytus; Lymphocytus T	Mature T cell; T Lymphocyte; Thymocyte
<b>E5.12.2.3.7.0.3</b>	Venula altoendothelialis; Venula cum endothelio alto	High endothelial venule
<b>E5.12.2.3.8.0.1</b>	<b>Medulla</b>	<b>Medulla</b>
<b>E5.12.2.3.8.0.2</b>	Chorda medullaris	Medullary cord
<b>E5.12.2.3.8.0.3</b>	Sinus lymphaticus medullaris	Medullary lymphatic sinus
<b>E5.12.2.3.8.0.4</b>	Trabecula	Trabecula
<b>E5.12.2.3.8.0.5</b>	Hilum	Hilum
<b>E5.12.2.3.8.0.6</b>	Vas lymphaticum efferens	Efferent lymphatic vessel
<b>E5.12.2.3.5.0.4</b>	Valva lymphatica	Lymphatic valve
<b>E5.12.2.3.0.0.1</b>	Nodulus lymphoideus <sup>260</sup>	Lymphoid nodule
<b>xxxxxxxxx</b>		
<b>E5.12.2.4.0.0.1</b>	<b>SPLEN; LIEN</b>	<b>SPLEEN</b>
<b>E4.0.4.1.0.0.4</b>	Mesenchyma splanchnopleurale <sup>207</sup>	Splanchnopleuric mesenchyme
<b>E5.7.2.2.0.0.12</b>	Tunica serosa	Serosa; Serous coat
<b>E5.9.0.0.0.0.4</b>	Mesogastrium dorsale	Dorsal mesogastrium
<b>E5.12.2.4.0.0.2</b>	Lig. splenorenale; Lig. lienorenale	Splenorenal ligament; Lienorenal ligament
<b>E5.12.2.4.0.0.3</b>	Lig. gastrosplenicum; Lig. gastrolienale	Gastrosplenic ligament
<b>E5.12.2.4.0.0.4</b>	Capsula; Tunica fibrosa	Fibrous capsule
<b>E5.12.2.3.8.0.5</b>	Hilum	Hilum
<b>E5.12.2.3.8.0.6</b>	Vas lymphaticum efferens	Efferent lymphatic vessel
<b>E5.12.2.3.8.0.4</b>	Trabecula	Trabecula
<b>E5.12.2.4.0.0.5</b>	A. trabecularis	Trabecular artery
<b>E5.12.2.4.0.1.1</b>	<b>Pulpa splenica</b>	<b>Splenic pulp</b>
<b>E5.12.2.4.0.1.2</b>	Pulpa alba	White pulp
<b>E5.12.2.4.0.1.3</b>	Cellula dendritica	Dendritic cell
<b>E5.12.2.3.0.0.10</b>	Lymphocytus B	B lymphocyte
<b>E5.12.2.3.0.0.11</b>	Plasmocytus	Plasma cell; Plasmocyte; Plasmacyte
<b>E5.12.2.4.0.1.4</b>	Zona marginalis	Marginal zone
<b>E5.12.2.4.0.1.5</b>	Arteriola vaginata pulpae albae <sup>263</sup>	Sheathed arteriole
<b>E5.12.2.4.0.1.6</b>	Vagina lymphoidea periarteriolaris	Peri-arteriolar lymphoid sheath [PALS]
<b>E5.12.1.2.3.0.6</b>	Cellula T matorus; Thymocytus; Lymphocytus T	Mature T cell; T Lymphocyte; Thymocyte
<b>E5.12.2.3.0.0.1</b>	Nodulus lymphoideus <sup>260</sup>	Lymphoid nodule §Malpighi§
<b>E5.12.2.4.0.1.7</b>	Arteriola nodularis	Nodular arteriole
<b>E5.12.2.4.0.1.8</b>	Pulpa rubra	Red pulp
<b>E5.12.2.4.0.1.9</b>	A. penicillaris splenis	Penicillar artery of spleen
<b>E5.12.2.4.0.1.10</b>	Vas sinusoideum splenis	Sinusoid of spleen
<b>E5.12.2.4.0.1.11</b>	Spatium extrasinusoideum splenicum	Extrasinusoidal space of spleen
<b>E5.12.2.4.0.1.12</b>	Chorda splenica	Splenic cord; Red pulp cord §Billroth§
<b>E5.12.2.4.0.1.13</b>	Ellipsoid; Vagina periarteriolaris macrophagocytica splenis	Ellipsoid; Peri-arteriolar macrophage sheath of spleen §Schweigger-Seidel§
<b>E5.11.2.3.0.0.10</b>	Macrophagocytus	Macrophage
<b>E5.12.2.4.1.0.1</b>	<b>Anomaliae splenis</b>	<b>Anomalies of spleen</b>
<b>E5.12.2.4.1.0.2</b>	Asplenia	Asplenia
<b>E5.12.2.4.1.0.3</b>	Cystis splenis	Splenic cyst
<b>E5.12.2.4.1.0.4</b>	Conjunctio splenogonadalis	Splenogonadal fusion
<b>E5.12.2.4.1.0.5</b>	Conjunctio splenopancreatica	Splenopancreatic fusion
<b>E5.12.2.4.1.0.6</b>	Haemangioma cavernosa splenis	Cavernous haemangioma of spleen <sup>▲</sup>
<b>E5.12.2.4.1.0.7</b>	Hepatosplenomegalia	Hepatosplenomegaly
<b>E5.12.2.4.1.0.8</b>	Hyposplenia	Hyposplenia
<b>E5.12.2.4.1.0.9</b>	Lobulatio splenis	Lobulation of spleen
<b>E5.12.2.4.1.0.10</b>	Nodulus splenis accessorius	Accessory splenic nodule
<b>E5.12.2.4.1.0.11</b>	Polysplenia	Polysplenia
<b>E5.12.2.4.1.0.12</b>	Splen accessorius glandulae suprarenalis	Accessory spleen in suprarenal gland

<sup>262</sup> E5.12.2.3.7.0.1 *Paracortex* Differentiation of the paracortex occurs about 4 weeks earlier than that of the cortex.

<sup>263</sup> E5.12.2.4.0.1.5 *Arteriola vaginata pulpae albae* The walls of vessels within peri-arteriolar lymphoid sheaths are too thin to warrant their being called arteries.

<b>E5.12.2.4.1.0.13</b>	Splen accessorius pancreati	Accessory spleen in pancreas
<b>E5.12.2.4.1.0.14</b>	Splen accessorius gastrae	Accessory spleen in stomach
<b>E5.12.2.4.1.0.15</b>	Splen accessorius intestino	Accessory spleen in intestine
<b>E5.12.2.4.1.0.16</b>	Splen migrans	Wandering spleen
<b>E5.12.2.5.0.0.1</b>	<b>TONSILLA PALATINA</b>	<b>PALATINE TONSIL</b>
<b>E5.12.2.5.0.0.2</b>	Endoderma sacci pharyngei secundi	Endoderm of second pharyngeal pouch
<b>E5.12.2.5.0.0.3</b>	Mesenchyma arcus pharyngei secundi	Mesenchyme of second pharyngeal arch
<b>E5.12.2.5.0.0.4</b>	Primordium tonsillae palatinae	Primordium of palatine tonsil
<b>E5.12.2.5.0.0.5</b>	Epithelium stratificatum squamosum non cornificatum	Stratified nonkeratinized squamous epithelium
<b>E5.12.2.5.0.0.6</b>	Blastema mesenchymale tonsillae palatinae	Mesenchymal blastema of palatine tonsil
<b>E5.12.2.5.0.0.7</b>	Lymphocytus	Lymphocyte
<b>E5.12.2.5.0.0.8</b>	Fossula tonsillae	Tonsillar pit
<b>E5.4.2.0.0.1.9</b>	Crypta tonsillae	Tonsillar crypt
<b>E5.12.2.5.0.0.9</b>	Crypta primaria tonsillae	Primary tonsillar crypt
<b>E5.12.2.5.0.0.10</b>	Crypta secundaria tonsillae	Secondary tonsillar crypt
<b>E5.12.2.5.0.0.11</b>	Epithelium cryptae	Epithelium of crypt
<b>E5.12.2.3.0.0.1</b>	Nodulus lymphoideus <sup>260</sup>	Lymphoid nodule
<b>E5.12.2.5.1.0.1</b>	<b>Anomaliae tonsillae palatinae</b>	<b>Anomalies of palatine tonsil</b>
<b>E5.12.2.5.1.0.2</b>	Aplasia tonsillae	Aplasia of tonsil
<b>E5.12.2.5.1.0.3</b>	Ectopia tonsillae	Ectopic tonsil
<b>E5.12.2.5.1.0.4</b>	Tonsilla palatina supernumeraria	Supernumerary palatine tonsil
<b>E5.12.2.6.0.0.1</b>	<b>TONSILLA PHARYNGEA</b> <sup>264</sup>	<b>PHARYNGEAL TONSIL</b>
<b>E5.12.2.6.0.0.2</b>	Endoderma parietis dorsalis pharyngis	Endoderm of dorsal pharyngeal wall
<b>E5.12.2.6.0.0.3</b>	Mesenchyma parietis dorsalis pharyngis	Mesenchyme of dorsal pharyngeal wall
<b>E5.5.1.0.0.0.5</b>	Tunica mucosa respiratoria	Respiratory mucosa
<b>E5.12.2.6.0.0.4</b>	Epithelium pseudostratificatum columnare ciliatum	Pseudostratified ciliated columnar epithelium
<b>E5.12.2.5.0.0.5</b>	Epithelium stratificatum squamosum non cornificatum	Stratified nonkeratinized squamous epithelium
<b>E5.12.2.3.0.0.1</b>	Nodulus lymphoideus <sup>260</sup>	Lymphoid nodule
<b>E5.12.2.7.0.0.1</b>	<b>TONSILLA LINGUALIS</b> <sup>264</sup>	<b>LINGUAL TONSIL</b>
<b>E5.12.2.8.0.0.1</b>	<b>TONSILLA TUBARIA</b> <sup>264</sup>	<b>TUBAL TONSIL</b>
<b>E5.13.0.0.0.0.1</b>	<b>Systema nervosum</b>	<b>Nervous system</b>
<b>E3.0.0.6.1.0.90</b>	<b>Neurulatio</b> <sup>265</sup>	<b>Neurulation</b>
<b>E3.0.0.6.1.0.91</b>	<b>Neurulatio primaria</b> <sup>74</sup>	<b>Primary neurulation</b>
<b>E5.13.1.0.1.0.1</b>	Lamina neuralis; Lamina medullaris	Neural plate; Medullary plate
<b>E5.13.1.0.1.0.2</b>	Plica neuralis	Neural fold
<b>E5.13.1.0.1.0.3</b>	Sulcus neuralis	Neural groove
<b>E5.0.1.1.0.0.6</b>	(Canalis neurentericus) <sup>115</sup>	(Neurenteric canal)
<b>E5.13.1.0.1.0.4</b>	Tubulatio neuralis	Neural tubulation
<b>E5.13.1.0.1.0.5</b>	Tubus neuralis primarius	Primary neural tube
<b>E5.13.1.0.1.0.6</b>	Crista neuralis primaria	Primary neural crest
<b>E3.0.0.6.1.0.92</b>	<b>Neurulatio secundaria</b> <sup>75</sup>	<b>Secondary neurulation</b>
<b>E5.13.1.0.2.0.1</b>	Eminentia caudalis; Gemma caudalis	Caudal eminence; Tail bud
<b>E5.13.1.0.2.0.2</b>	Mesenchyma densum axiale	Axial dense mesenchyme; Tail cord
<b>E5.13.1.0.2.0.3</b>	Corda medullaris; Corda neuralis	Medullary cord; Neural cord
<b>E5.13.1.0.2.0.4</b>	Canalisatio neuralis	Neural canalisation
<b>E5.13.1.0.2.0.5</b>	Tubus neuralis secundarius	Secondary neural tube

<sup>264</sup> E5.12.2.6.0.0.1/ E5.12.2.7.0.0.1/ E5.12.2.8.0.0.1 *Tonsilla pharyngea*, *Tonsilla lingualis*, *Tonsilla tubaria* The histogenesis of the pharyngeal, lingual and tubal tonsils is essentially similar to that of the palatine tonsil.

<sup>265</sup> E3.0.0.6.1.0.90 *Neurulatio* The process of *neurulation* occurs in two ways that differ in respect of time, method and place: when primitive streak activity ceases, primary neurulation (*tubulation*) is succeeded by secondary neurulation (*canalization*), which forms structures beyond the second sacral segment; nevertheless, the process is seamless and since the neural structures formed by the two processes are distinguishable only by their location, they can be considered as one thereafter.

<b>E5.13.1.0.2.0.6</b>	Crista neuralis secundaria	Secondary neural crest
<b>E5.13.2.0.0.0.1</b>	<b>Meninges</b>	<b>Meninges</b>
<b>E5.0.2.1.0.0.2</b>	Crista neuralis <sup>266</sup>	Neural crest
<b>E4.0.4.1.0.0.5</b>	Ectomesenchyma; Mesenchyma cristae neuralis	Ectomesenchyme; Neural crest mesenchyme
<b>E5.0.2.2.0.0.3</b>	Somitus	Somite
<b>E4.0.4.1.0.0.2</b>	Mesenchyma somiticum	Somitic mesenchyme
<b>E5.13.2.0.0.0.2</b>	Fibroblastus	Fibroblast
<b>E5.13.2.0.0.0.3</b>	Leptomeningoblastus	Leptomeningoblast
<b>E5.13.2.0.0.0.4</b>	Pioblastus	Pial blast cell
<b>E5.13.2.0.0.0.5</b>	Arachnoidoblastus	Arachnoid blast cell
<b>E5.11.2.3.0.0.10</b>	Macrophagocytus	Macrophage
<b>E5.11.2.3.0.0.9</b>	Monocytus	Monocyte
<b>E5.0.2.1.1.0.5</b>	<b>Meninx primordialis</b>	<b>Primordial meninx</b>
<b>E5.13.2.0.0.1.1</b>	Meninx skeletogenica	Skeletogenous layer
<b>E5.0.2.1.1.0.6</b>	<b>Ectomeninx</b>	<b>Ectomeninx</b>
<b>E5.13.2.0.0.2.1</b>	Lamina interna periosteae	Internal periosteal layer
<b>E5.13.2.0.0.2.2</b>	Dura mater craniospinalis	Craniospinal dura mater
<b>E5.13.2.0.0.2.3</b>	Stratum durale limitans	Dural limiting layer
<b>E5.0.2.1.1.0.7</b>	<b>Endomeninx</b>	<b>Endomeninx</b>
<b>E5.13.2.0.0.3.1</b>	Arachnoidea mater craniospinalis	Craniospinal arachnoid mater
<b>E5.13.2.0.0.3.2</b>	Trabeculae arachnoideae	Arachnoid trabeculae
<b>E5.13.2.0.0.3.3</b>	Granulationes arachnoideae	Arachnoid granulations §Pacchioni§
<b>E5.13.2.0.0.3.4</b>	Villi arachnoidei	Arachnoid villi
<b>E5.13.2.0.0.3.5</b>	Spatium subarachnoideum; Spatium leptomeningeum	Subarachnoid space; Leptomeningeal space
<b>E5.13.2.0.0.3.6</b>	Pia mater craniospinalis	Craniospinal pia mater
	<b>Insignia alia</b>	<b>Other aspects</b>
<b>E5.13.2.0.0.4.1</b>	Manica radialis	Root sheath
<b>E5.13.2.0.0.4.2</b>	Manica radialis	Rootlet sheath
<b>E5.13.2.0.0.4.3</b>	Flexus durae matris	Dural reflection
<b>E5.13.2.0.0.4.4</b>	Sinus durae matris	Dural sinus
<b>E5.13.2.0.0.4.5</b>	Tela choroidea	Tela choroidea
<b>E5.13.2.0.0.4.6</b>	Primordium fili terminalis	Primordial filum terminale; Primordial terminal filum
<b>E5.13.2.0.0.4.7</b>	Filum terminale	Filum terminale; Terminal filum
<b>E5.13.2.0.0.4.8</b>	Pars duralis	Dural part; Coccygeal ligament; Filum terminale externum
<b>E5.13.2.0.0.4.9</b>	Pars pialis	Pial part; Pial filament; Filum terminale internum
<b>E5.13.2.0.1.0.1</b>	<b>Anomaliae meningum</b> <sup>267</sup>	<b>Anomalies of meninges</b>
<b>E5.13.2.0.1.0.2</b>	Diastematomyelia	Diastematomyelia; Split cord formation
<b>E5.13.2.0.1.0.3</b>	Dermoideum spinale	Spinal dermoid
<b>E5.13.2.0.1.0.4</b>	Epidermoideum	Epidermoid
<b>E5.13.2.0.1.0.5</b>	Fovea cutaneosa	Cutaneous pit
<b>E5.13.2.0.1.0.6</b>	Hydromelia	Hydromelia
<b>E5.1.1.0.4.1.4</b>	Meningo-coelia	Meningo-coele <sup>▲</sup>
<b>E5.13.2.0.1.0.7</b>	Meningo-coelia cranialis	Cranial meningo-coele <sup>▲</sup>
<b>E5.13.2.0.1.0.8</b>	Meningo-coelia spinalis	Spinal meningo-coele <sup>▲</sup>
<b>E5.13.2.0.1.0.9</b>	Meningo-encephalo-coelia	Meningo-encephalo-coele; Encephalomeningo-coele <sup>▲</sup>

<sup>266</sup> E5.0.2.1.0.0.2 *Crista neuralis* Cells of the *primary neural crest* separate from the neurosomatic ectodermal junction to give rise to the *mesencephalic*, *rhombencephalic* and *spinal neural crest* down to S<sub>1</sub>. Following secondary neurulation, cells delaminate from the surface of the secondary neural tube and give rise to *spinal neural crest* beyond S<sub>1</sub> (O'Rahilly R, Müller F. The development of the neural crest in the human. J Anat 2007;211:335-351). Neural crest is here divided according to the adjacent part of the brain: the term *circumpharyngeal neural crest* is not used as it describes a migration route to the pharyngeal region, the outflow tract of the heart and great vessels and much of the gut-associated crest derivatives; furthermore, it is said to be in the posterior rhombencephalic region but the crest for the first two pharyngeal arches is mainly associated with rhombomeres 2 and 4.

<sup>267</sup> E5.13.2.0.1.0.1 *Anomaliae meningum* *Anomalies of the meninges* are commonly associated with anomalies of the CNS and of those parts of the PNS that are associated with them.

<b>E5.13.2.0.1.0.10</b>	Meningohydroencephalocoelia; Hydroencephalomeningocoelia	Meningohydro-encephalocoele; Hydro- encephalomeningocoele <sup>▲</sup>
<b>E5.13.2.0.1.0.11</b>	Syringomyelia	Syringomyelia
<b>E5.13.2.0.1.0.12</b>	Taenia dorsalis fibrosa	Dorsal fibrous band
<b>E5.13.2.0.1.0.13</b>	Tractus sinusoideus spinodermalis	Spinal dermal fistula; Spinal dermal sinus tract
<b>E5.14.0.0.0.0.1</b>	<b>Pars centralis; Systema nervosum centrale</b>	<b>Central nervous system [CNS]</b>
<b>E5.14.1.0.0.0.1</b>	<b>Tubus neuralis</b>	<b>Neural tube</b>
<b>E5.14.1.0.0.0.2</b>	Canalis neuralis	Neural canal
<b>E5.14.1.0.0.0.3</b>	Canalis centralis	Central canal
<b>E5.14.1.0.0.0.4</b>	Cavitates encephali	Brain cavities
<b>E5.14.1.0.0.0.5</b>	Neuroporus	Neuropore
<b>E5.14.1.0.0.0.6</b>	Neuroporus rostralis <sup>268</sup>	Rostral neuropore
<b>E5.14.1.0.0.0.7</b>	Labium dorsale	Dorsal lip
<b>E5.14.1.0.0.0.8</b>	Labium terminale	Terminal lip
<b>E5.14.1.0.0.0.9</b>	Situs neuroporicus <sup>269</sup>	Location of neuropore
<b>E5.14.1.0.0.0.10</b>	Lamina terminalis primordialis	Primordial lamina terminalis
<b>E5.14.1.0.0.0.11</b>	Neuroporus caudalis	Caudal neuropore
<b>E5.14.1.0.1.0.1</b>	<b>Partes tubi neuralis</b>	<b>Parts of neural tube</b>
<b>E5.14.1.0.1.0.2</b>	Lamina dorsalis	Roof plate
<b>E5.14.1.0.1.0.3</b>	Epithelium plexus choroidei	Choroid plexus epithelium
<b>E5.14.1.0.1.0.4</b>	Lamina dorsolateralis <sup>270</sup>	Alar plate
<b>E5.14.1.0.1.0.5</b>	Sulcus limitans	Sulcus limitans
<b>E5.14.1.0.1.0.6</b>	Lamina ventrolateralis <sup>270</sup>	Basal plate
<b>E5.14.1.0.1.0.7</b>	Lamina ventralis	Floor plate
<b>E5.14.1.0.2.0.1</b>	<b>Derivativa tubi neuralis</b>	<b>Derivatives of neural tube</b>
<b>E5.14.1.0.2.0.2</b>	Medulla spinalis	Spinal cord
<b>E5.14.1.0.2.0.3</b>	Rhombencephalon	Rhombencephalon; Hindbrain
<b>E5.14.1.0.2.0.4</b>	Myelencephalon; Medulla oblongata; Bulbus	Myelencephalon; Medulla oblongata; Bulb
<b>E5.14.1.0.2.0.5</b>	Metencephalon	Metencephalon; Pons and cerebellum
<b>E5.14.1.0.2.0.6</b>	Pons	Pons
<b>E5.14.1.0.2.0.7</b>	Cerebellum	Cerebellum
<b>E5.14.1.0.2.0.8</b>	Isthmus rhombencephali	Rhombencephalic isthmus
<b>E5.14.1.0.2.0.9</b>	Mesencephalon	Mesencephalon; Midbrain
<b>E5.14.1.0.2.0.10</b>	Prosencephalon	Prosencephalon; Forebrain
<b>E5.14.1.0.2.0.11</b>	Diencephalon	Diencephalon
<b>E5.14.1.0.2.0.12</b>	Telencephalon	Telencephalon
<b>E5.14.1.1.0.0.1</b>	<b>DIFFERENTIATIO EPITHELII TUBI NEURALIS; DIFFERENTIATIO NEURECTODERMATIS<sup>271</sup></b>	<b>DIFFERENTIATION OF NEURAL TUBE EPITHELIUM; DIFFERENTIATION OF NEURECTODERM</b>
<b>E5.14.1.1.1.0.1</b>	<b>Phasis zonae unae</b>	<b>One-zone phase</b>
<b>E5.14.1.1.1.0.2</b>	Rete bacillorum terminalium; Membrana limitans interna	Internal limiting membrane; Terminal bar net
<b>E5.14.1.1.1.1.1</b>	<b>Zona ventricularis; Matrix germinalis<sup>272</sup></b>	<b>Ventricular zone; Germinal matrix</b>
<b>E5.14.1.1.1.1.2</b>	Neuroepithelium columnare <sup>273</sup>	Columnar neuro-epithelium
<b>E5.14.1.1.1.1.3</b>	Epitheliocytus prismaticus	Wedge-shaped epithelial cell
<b>E5.14.1.1.1.1.4</b>	Glia limitans; Membrana limitans glialis superficialis; Membrana limitans externa	Glia limitans; Limiting membrane of superficial glia; External limiting membrane

<sup>268</sup> E5.14.1.0.0.0.6 *Neuroporus rostralis* The term *neuroporus anterior* – *anterior neuropore* is frequently used but is not recommended for the human embryo.

<sup>269</sup> E5.14.1.0.0.0.9 *Situs neuroporicus* The importance of the location of the closure of the rostral neuropore is that it is said to be the site of origin of the lamina terminalis.

<sup>270</sup> E5.14.1.0.1.0.4/ E5.14.1.0.1.0.6 *Lamina dorsolateralis/ Lamina ventrolateralis* There is a lack of agreement on what constitutes the alar and basal plates. Some restrict this designation to the ventricular zone; others include adjacent portions of the intermediate zone. Since progenitor cells of the ventricular zone give rise to postmitotic neurons of the intermediate zone, it is appropriate to include both in the areas described as alar and basal plates. To include only the ventricular zone would clearly imply that the alar and basal plates disappear as development progresses. However, they persist beyond that stage and have derivatives in the adult.

<sup>271</sup> E5.14.1.1.0.0.1 *Differentiatio epithelii tubi neuralis; Differentiatio neurectodermæ* The development of the CNS is spatially and temporally three-dimensional; at the same time, there are features of the developing layers of the CNS that are generally associated with a particular region, be it spinal cord, brainstem, cerebellar cortex or cerebral cortex. The development of the zones and the phases and regions in which they appear are accommodated in this and succeeding sections.

<sup>272</sup> E5.14.1.1.1.1.1 *Zona ventricularis; Matrix germinalis* Cells located in the *ventricular zone* are the source of all neurons and glia of the CNS, except the microglia.

<sup>273</sup> E5.14.1.1.1.1.2 *Neuroepithelium columnare* The cells of the early neural tube that give rise to glial and ependymal cells were formerly known as *spongioblasts*.

<b>E5.14.1.1.2.0.1</b>	<b>Phasis zonarum duarum</b>	<b>Two-zone phase</b>
<b>E5.14.1.1.1.0.2</b>	Rete bacillorum terminalium; Membrana limitans interna	Internal limiting membrane; Terminal bar net
<b>E5.14.1.1.1.1.1</b>	<b>Zona ventricularis; Matrix germinalis</b> <sup>272</sup>	<b>Ventricular zone; Germinal matrix</b>
<b>E5.14.1.1.2.0.2</b>	Cellula mitotica	Mitotic cell
<b>E5.14.1.1.2.0.3</b>	Basis epitheliocyti prismatici	Base of wedge-shaped epithelial cell
<b>E5.12.2.4.0.1.4</b>	<b>Zona marginalis</b>	<b>Marginal zone</b>
<b>E5.14.1.1.2.0.4</b>	Processus epitheliocyti prismatici	Process of wedge-shaped epithelial cell
<b>E5.14.1.1.1.1.4</b>	Glia limitans; Membrana limitans glialis superficialis; Membrana limitans externa	Glia limitans; Limiting membrane of superficial glia; External limiting membrane
<b>E5.14.1.1.3.0.1</b>	<b>Phasis zonarum trium</b>	<b>Three-zone phase</b>
<b>E5.14.1.1.1.0.2</b>	Rete bacillorum terminalium; Membrana limitans interna	Internal limiting membrane; Terminal bar net
<b>E5.14.1.1.1.1.1</b>	<b>Zona ventricularis; Matrix germinalis</b> <sup>272</sup>	<b>Ventricular zone; Germinal matrix</b>
<b>E5.14.1.1.2.0.2</b>	Cellula mitotica	Mitotic cell
<b>E5.14.1.1.2.0.3</b>	Basis epitheliocyti prismatici	Base of wedge-shaped epithelial cell
<b>E5.14.1.1.2.2.1</b>	<b>Zona intermedia; Zona pallii</b>	<b>Intermediate zone; Mantle zone</b>
<b>E5.14.1.1.2.2.2</b>	Cellula migrans	Migrating cell
<b>E5.14.1.1.2.0.4</b>	Processus epitheliocyti prismatici	Process of wedge-shaped epithelial cell
<b>E5.12.2.4.0.1.4</b>	<b>Zona marginalis</b>	<b>Marginal zone</b>
<b>E5.14.1.1.2.0.4</b>	Processus epitheliocyti prismatici	Process of wedge-shaped epithelial cell
<b>E5.14.1.1.1.1.4</b>	Glia limitans; Membrana limitans glialis superficialis; Membrana limitans externa	Glia limitans; Limiting membrane of superficial glia; External limiting membrane
<b>E5.14.1.0.2.0.2</b>	<b>Medulla spinalis</b> <sup>274</sup>	<b>Spinal cord</b>
<b>E5.14.1.0.0.0.3</b>	<b>Canalis centralis</b>	<b>Central canal</b>
<b>E5.14.2.0.0.0.1</b>	Recessus dorsalis; Recessus posterior	Dorsal recess; Posterior recess
<b>E5.14.2.0.0.0.2</b>	Recessus ventralis; Recessus anterior	Ventral recess; Anterior recess
<b>E5.14.2.0.0.1.1</b>	<b>Neuroepithelium</b>	<b>Neuro-epithelium</b>
<b>E5.14.2.0.0.1.2</b>	Neuroepithelium dorsale; Neuroepithelium posterius	Dorsal neuro-epithelium; Posterior neuro-epithelium
<b>E5.14.2.0.0.1.3</b>	Neuroepithelium intermedium	Intermediate neuro-epithelium
<b>E5.14.2.0.0.1.4</b>	Neuroepithelium ventrale; Neuroepithelium anterius	Ventral neuro-epithelium; Anterior neuro-epithelium
<b>E5.14.2.0.0.1.5</b>	Cornu dorsale; Cornu posterius	Dorsal horn; Posterior horn
<b>E5.14.2.0.0.1.6</b>	Substantia gelatinosa	Substantia gelatinosa
<b>E5.14.2.0.0.1.7</b>	Zona ingressus radialis dorsalis; Zona ingressus radialis posterioris	Dorsal root entry zone; Posterior root entry zone
<b>E5.14.2.0.0.1.8</b>	Zona ramificationis radialis dorsalis; Zona ramificationis radialis posterioris	Dorsal root branching zone; Posterior root branching zone
<b>E5.14.2.0.0.1.9</b>	Zona collateralisationis dorsalis; Zona collateralisationis posterioris	Dorsal collateralization zone; Posterior collateralization zone
<b>E5.14.2.0.0.1.10</b>	Zona intermedia	Intermediate zone
<b>E5.14.2.0.0.1.11</b>	Cornu ventrale; Cornu anterius	Anterior horn; Ventral horn
<b>E5.14.2.0.0.1.12</b>	Motoneuron; Neuron motorium	Motor neuron
<b>E5.14.2.0.0.1.13</b>	Interneuron	Interneuron
<b>E5.14.2.0.0.1.14</b>	Funiculus dorsalis primordialis; Fasciculus ovalis <sup>275</sup>	Primordial dorsal funiculus; Oval bundle
<b>E5.14.2.0.0.1.15</b>	Funiculus dorsalis; Funiculus posterior	Dorsal funiculus; Posterior funiculus
<b>E5.14.2.0.0.1.16</b>	Funiculus lateralis	Lateral funiculus
<b>E5.14.2.0.0.1.17</b>	Tractus dorsalis; Tractus posterolateralis	Dorsolateral tract; Posterolateral tract
<b>E5.14.2.0.0.1.18</b>	Neurofibra ascendens	Ascending nerve fibre <sup>▲</sup>
<b>E5.14.2.0.0.1.19</b>	Neurofibra descendens	Descending nerve fibre <sup>▲</sup>

<sup>274</sup> E5.14.1.0.2.0.2/ E5.15.8.0.0.0.1 *Medulla spinalis/Partes nervi peripherici* Usage in this and subsequent sections is not in accord with Terminologia Anatomica (1998): *dorsal* and *ventral* are more appropriate descriptors in the embryo and *dorsal* and *ventral* are now very commonly used for nerve roots. *Sensory* is not recommended, as there is evidence for motor autonomic outflow through dorsal roots.

<sup>275</sup> E5.14.2.0.0.1.14 *Funiculus dorsalis primordialis; Fasciculus ovalis* A prominent feature of the cervical region of the spinal cord of an 8mm human embryo is the oval bundle, which is composed of fine fibres and loses its separate identity when it is joined by larger fibres from dorsal root ganglioblasts. It is the first part of the dorsal funiculus to appear and probably forms the basis for the dorsolateral tract (Hughes A. The development of the dorsal funiculus in the human spinal cord. *J Anat* 1976;122:169-175). It is not to be confused with any of the compact bundles of the adult dorsal funiculus, particularly not with the septomarginal fasciculus, formerly known as Flechsig's oval bundle.

<b>E5.14.2.0.0.1.20</b>	Funiculus ventralis; Funiculus anterior	Ventral funiculus; Anterior funiculus
<b>E5.14.2.0.0.1.21</b>	Commissura alba ventralis; Commissura alba anterior	Ventral white commissure; Anterior white commissure
<b>E5.14.2.0.0.1.22</b>	Septum medianum dorsale; Septum medianum posterius	Dorsal median septum; Posterior median septum
<b>E5.14.2.0.0.1.23</b>	Fissura mediana ventralis; Fissura mediana anterior	Ventral median fissure; Anterior median fissure
<b>E5.14.2.0.0.1.24</b>	Conus medullaris	Medullary cone
<b>E5.14.2.0.0.1.25</b>	Intumescencia lumbosacralis	Lumbosacral enlargement
<b>E5.14.2.0.0.1.26</b>	Intumescencia cervicalis	Cervical enlargement
<b>E5.14.2.0.0.1.27</b>	Flexura cervicalis	Cervical flexure
<b>E5.14.2.0.1.0.1</b>	<b>Anomaliae medullae spinalis</b>	<b>Anomalies of spinal cord</b>
<b>E5.14.2.0.1.0.2</b>	Amyelia	Amyelia
<b>E5.14.2.0.1.0.3</b>	Diplomyelia	Diplomyelia
<b>E5.14.2.0.1.0.4</b>	Rachischisis	Rachischisis
<b>E5.14.2.0.1.0.5</b>	Holorachischisis	Totalis; Holorachischisis
<b>E5.14.2.0.1.0.6</b>	Merorachischisis	Partialis; Merorachischisis
<b>E5.14.2.0.1.0.7</b>	Dysraphismus	Dysraphism
<b>E5.14.2.0.1.0.8</b>	Schistomyelia; Myeloschisis	Myeloschisis
<b>E5.14.2.0.1.0.9</b>	Iniencephalia	Iniencephaly
<b>E5.14.2.0.1.0.10</b>	Medulla spinalis catenata	Tethered cord
<b>E5.13.2.0.1.0.2</b>	Diastematomyelia	Diastematomyelia; Split cord formation
<b>E5.13.2.0.1.0.3</b>	Dermoideum spinale	Spinal dermoid
<b>E5.13.2.0.1.0.4</b>	Epidermoideum	Epidermoid
<b>E5.13.2.0.1.0.11</b>	Syringomyelia	Syringomyelia
<b>E5.13.2.0.1.0.6</b>	Hydromelia	Hydromelia
<b>E5.13.2.0.1.0.13</b>	Tractus sinusoideus spinodermalis	Spinal dermal fistula; Spinal dermal sinus tract
<b>E5.14.2.1.0.0.1</b>	<b>HISTOGENESIS MEDULLAE SPINALIS ET TRUNCI ENCEPHALI</b>	<b>HISTOGENESIS OF SPINAL CORD AND BRAINSTEM; HISTOGENY OF SPINAL CORD AND BRAINSTEM</b>
<b>E5.14.1.1.1.0.2</b>	Rete bacillorum terminalium; Membrana limitans interna	Internal limiting membrane; Terminal bar net
<b>E5.14.1.1.1.1.1</b>	<b>Zona ventricularis; Matrix germinalis</b> <sup>272</sup>	<b>Ventricular zone; Germinal matrix</b>
<b>E5.14.2.1.0.1.1</b>	Ependymoblastus	Ependymoblast
<b>E5.14.2.1.0.1.2</b>	Ependymocytus	Ependymal cell; Ventricular cell
<b>E5.14.2.1.0.1.3</b>	Neuroblastus	Neuroblast
<b>E5.14.1.1.2.2.1</b>	<b>Zona intermedia; Zona pallii</b>	<b>Intermediate zone; Mantle zone</b>
<b>E5.14.2.1.0.2.1</b>	Glioblastus	Glioblast
<b>E5.14.2.1.0.2.2</b>	Gliocytus radialis	Radial glial cell
<b>E5.14.2.1.0.2.3</b>	Astroblastus	Astrocytoblast
<b>E5.10.2.0.0.0.11</b>	Astrocytus	Astrocyte
<b>E5.14.2.1.0.2.4</b>	Cellula oligodendrocytoprogenetrix	Oligodendrocyte progenitor cell
<b>E5.14.2.1.0.2.5</b>	Oligodendroblastus	Oligodendrocytoblast
<b>E5.14.2.1.0.2.6</b>	Oligodendrocytus	Oligodendrocyte
<b>E5.14.2.1.0.2.7</b>	Tanycytus	Tanocyte
<b>E5.14.2.1.0.1.3</b>	Neuroblastus	Neuroblast
<b>E5.14.2.1.0.2.8</b>	Neuron immaturum apolare <sup>276</sup>	Immature apolar neuron
<b>E5.14.2.1.0.2.9</b>	Formatio processuum	Formation of processes
<b>E5.14.2.1.0.2.10</b>	Axonogenesis	Axonogenesis
<b>E5.14.2.1.0.2.11</b>	Dendritogenesis	Dendrite formation; Dendrogenesis
<b>E5.14.2.1.0.2.12</b>	Conus incrementi	Growth cone
<b>E5.14.2.1.0.2.13</b>	Neuron immaturum unipolare <sup>276</sup>	Immature unipolar neuron
<b>E5.14.2.1.0.2.14</b>	Neuron immaturum bipolare <sup>276</sup>	Immature bipolar neuron
<b>E5.14.2.1.0.2.15</b>	Neuron bipolare	Bipolar neuron
<b>E5.14.2.1.0.2.16</b>	Neuron immaturum multipolare <sup>276</sup>	Immature multipolar neuron
<b>E5.14.2.1.0.2.17</b>	Neuron multipolare	Multipolar neuron
<b>E5.12.2.4.0.1.4</b>	<b>Zona marginalis</b>	<b>Marginal zone</b>

<sup>276</sup> E5.14.2.1.0.2.8/ E5.14.2.1.0.2.13/ E5.14.2.1.0.2.14/ E5.14.2.1.0.2.16 *Neuron immaturum apolare/Neuron immaturum unipolare/Neuron immaturum bipolare/Neuron immaturum multipolare* The term neuroblast is commonly used for an immature neuron of the intermediate zone. However, because they are postmitotic and are capable of differentiation but not of further division, the term *immature neuron* is recommended for this and for similar stages elsewhere.

<b>E5.14.2.1.0.3.1</b>	Processus gliocyti	Glial process
<b>E5.14.2.1.0.3.2</b>	Axon <sup>289</sup>	Axon
<b>E5.14.2.1.0.3.3</b>	Dendritum	Dendrite
<b>E5.11.2.3.0.0.9</b>	Monocytus	Monocyte
<b>E5.14.2.1.0.3.4</b>	Microglia <sup>277</sup>	Microglia
<b>E5.14.1.1.1.1.4</b>	Glia limitans; Membrana limitans glialis superficialis; Membrana limitans externa	Glia limitans; Limiting membrane of superficial glia; External limiting membrane
<b>E5.14.3.0.0.0.1</b>	<b>Encephalon</b>	<b>Brain</b>
<b>E5.14.3.0.0.0.2</b>	Vesicula encephalica	Brain vesicle
<b>E5.14.3.0.0.0.3</b>	Placodae	Placodes
<b>E5.2.0.0.0.0.4</b>	Placoda epipharyngea	Epipharyngeal placode
<b>E5.14.3.0.0.0.4</b>	Placoda dorsolateralis	Dorsolateral placode
<b>E5.14.2.0.0.1.27</b>	Flexura cervicalis	Cervical flexure
<b>E5.14.1.0.2.0.3</b>	<b>RHOMBENCEPHALON</b>	<b>RHOMBENCEPHALON; HINDBRAIN</b>
<b>E5.14.3.1.0.0.1</b>	Cavitas rhombencephalica	Rhombencephalic cavity
<b>E5.14.1.0.1.0.5</b>	Sulcus limitans	Sulcus limitans
<b>E5.14.3.1.0.0.2</b>	Ventriculus quartus	Fourth ventricle
<b>E5.13.2.0.0.4.5</b>	Tela choroidea	Tela choroidea
<b>E5.14.3.1.0.0.3</b>	Fissura choroidea	Choroid fissure
<b>E5.14.3.1.0.0.4</b>	Plexus choroideus	Choroid plexus
<b>E5.14.3.1.0.0.5</b>	Diverticulum medianum	Median diverticulum
<b>E5.14.3.1.0.0.6</b>	Apertura mediana	Median aperture
<b>E5.14.3.1.0.0.7</b>	Diverticulum laterale	Lateral diverticulum
<b>E5.14.3.1.0.0.8</b>	Apertura lateralis	Lateral aperture
<b>E5.14.3.1.0.0.9</b>	Canalis centralis medullae oblongatae	Central canal of medulla
<b>E5.14.3.1.1.0.1</b>	<b>Rhombomeres D</b>	<b>Rhombomere D</b>
<b>E5.14.3.1.1.1.1</b>	<b>Rhombomeres 8</b>	<b>Rhombomere 8</b>
<b>E5.14.3.1.1.1.2</b>	Nucleus nervi hypoglossi	Nucleus of hypoglossal nerve
<b>E5.14.3.1.1.1.3</b>	Chorda hypoglossa	Hypoglossal cord
<b>E5.14.3.1.1.1.4</b>	Nucleus nervi accessorii spinalis	Nucleus of spinal accessory nerve
<b>E5.14.3.1.2.0.1</b>	<b>Rhombomeres C</b>	<b>Rhombomere C</b>
<b>E5.14.3.1.2.1.1</b>	<b>Rhombomeres 7</b>	<b>Rhombomere 7</b>
<b>E5.14.3.1.2.1.2</b>	Motoneuron vagum	Vagus nerve motor neuron
<b>E5.14.3.1.2.1.3</b>	Nucleus ambiguus	Nucleus ambiguus
<b>E5.14.3.1.2.2.1</b>	<b>Rhombomeres 6</b>	<b>Rhombomere 6</b>
<b>E5.14.3.1.2.2.2</b>	Motoneuron glossopharyngeum	Glossopharyngeal nerve motor neuron
<b>E5.14.3.1.2.2.3</b>	Nucleus visceromotorius	Visceromotor nucleus
<b>E5.14.3.1.2.3.1</b>	<b>Rhombomeres 5</b>	<b>Rhombomere 5</b>
<b>E5.14.3.1.2.3.2</b>	Nucleus nervi abducentis	Nucleus of abducens nerve; Nucleus of abducent nerve
<b>E5.14.3.1.3.0.1</b>	<b>Rhombomeres B</b>	<b>Rhombomere B</b>
<b>E5.14.3.1.3.1.1</b>	<b>Rhombomeres 4</b>	<b>Rhombomere 4</b>
<b>E5.14.3.1.3.1.2</b>	Nucleus motorius nervi facialis	Motor nucleus of facial nerve
<b>E5.14.3.1.2.2.3</b>	Nucleus visceromotorius	Visceromotor nucleus
<b>E5.14.3.1.4.0.1</b>	<b>Rhombomeres A</b>	<b>Rhombomere A</b>
<b>E5.14.3.1.4.1.1</b>	<b>Rhombomeres 3</b>	<b>Rhombomere 3</b>
<b>E5.14.3.1.4.2.1</b>	<b>Rhombomeres 2</b>	<b>Rhombomere 2</b>
<b>E5.14.3.1.4.2.2</b>	Nuclei trigeminales	Trigeminal nuclei
<b>E5.14.3.1.4.2.3</b>	Nucleus motorius nervi trigemini	Motor nucleus of trigeminal nerve
<b>E5.14.3.1.4.2.4</b>	Nucleus principalis sensorius nervi trigemini	Principal sensory nucleus of trigeminal nerve
<b>E5.14.3.1.4.2.5</b>	Nucleus spinalis nervi trigemini <sup>278</sup>	Spinal nucleus of trigeminal nerve
<b>E5.14.3.1.4.3.1</b>	<b>Rhombomeres 1</b>	<b>Rhombomere 1</b>
<b>E5.14.3.1.4.3.2</b>	Locus caeruleus	Locus caeruleus <sup>▲</sup>
<b>E5.14.1.0.2.0.7</b>	Cerebellum	Cerebellum

<sup>277</sup> E5.14.2.1.0.3.4 *Microglia* Microglial cells do not appear in the CNS until after it is invaded by blood vessels and mononuclear cells, and are not derived from the ventricular zone.

<sup>278</sup> E5.14.3.1.4.2.5 *Nucleus spinalis nervi trigemini* Although listed with the other trigeminal nuclei, the spinal nucleus of the trigeminal nerve extends from the caudal end of the principal sensory nucleus, through the brain stem and into the upper reaches of the cervical spinal cord: it thus spans rhombomeres 3 to 8, inclusive.



<b>E5.14.2.0.0.1.27</b>	Flexura cervicalis	Cervical flexure
<b>E5.14.1.0.2.0.4</b>	<b>Myelencephalon; Medulla oblongata; Bulbus</b>	<b>Myelencephalon; Medulla oblongata; Bulb</b>
<b>E5.14.3.1.5.0.1</b>	Pyramis medullae oblongatae; Pyramis bulbi	Pyramid
<b>E5.14.3.1.5.0.2</b>	Nucleus gracilis	Gracile nucleus
<b>E5.14.3.1.5.0.3</b>	Nucleus cuneatus	Cuneate nucleus
<b>E5.14.1.0.1.0.5</b>	Sulcus limitans	Sulcus limitans
<b>E5.14.3.1.1.1.2</b>	Nucleus nervi hypoglossi	Nucleus of hypoglossal nerve
<b>E5.14.3.1.5.0.4</b>	Pedunculus cerebellaris inferior	Inferior cerebellar peduncle
<b>E5.14.3.1.5.0.5</b>	Nucleus arcuatus	Arcuate nucleus
<b>E5.14.3.1.5.0.6</b>	Decussatio lemniscorum medialis	Medial lemniscal decussation; Sensory decussation; Decussation of internal arcuate fibres <sup>▲</sup>
<b>E5.14.3.1.5.0.7</b>	Decussatio pyramidum	Pyramidal decussation; Motor decussation; Decussation of corticospinal fibres <sup>▲</sup>
<b>E5.14.3.1.5.0.8</b>	Complexus olivarius inferior	Inferior olivary complex
<b>E5.14.3.1.5.0.9</b>	Flexura pontina; Sulcus transversus rhombencephali	Pontine flexure; Transverse rhombencephalic sulcus
<b>E5.14.1.0.2.0.5</b>	<b>Metencephalon</b>	<b>Metencephalon; Pons and cerebellum</b>
<b>E5.14.3.1.6.0.1</b>	Lamina alaris myelencephali	Myelencephalic alar lamina
<b>E5.14.3.1.6.0.2</b>	Extensio bulbopontina	Bulbopontine extension
<b>E5.14.3.1.6.0.3</b>	Complexus nuclearis olivaris	Olivary nuclear complex
<b>E5.14.3.1.6.0.4</b>	Pars basilaris pontis	Basilar part of pons
<b>E5.14.3.1.6.0.5</b>	Nuclei pontis	Pontine nuclei
<b>E5.14.3.1.6.0.6</b>	Lamina alaris metencephali	Metencephalic alar lamina
<b>E5.14.1.0.2.0.7</b>	Cerebellum	Cerebellum
<b>E5.14.3.1.6.0.7</b>	Primordia cerebelli	Cerebellar primordia
<b>E5.14.3.1.6.0.8</b>	Lamina cerebellaris	Cerebellar plate
<b>E5.14.3.1.6.0.9</b>	Cerebellum intraventriculare	Intraventricular part of cerebellum
<b>E5.14.3.1.6.0.10</b>	Cerebellum extraventriculare	Extraventricular part of cerebellum
<b>E5.14.3.1.6.0.11</b>	Coalescentia primordiorum cerebellarium	Coalescence of cerebellar primordia
<b>E5.14.3.1.6.0.12</b>	Eversio cerebelli	Eversion of cerebellum
<b>E5.14.3.1.6.0.13</b>	Vermis	Vermis
<b>E5.14.3.1.6.0.14</b>	Hemispherium cerebelli	Cerebellar hemisphere
<b>E5.14.3.1.6.0.15</b>	Fissuratio et lobulatio cerebelli	Fissuration and lobulation of cerebellum
<b>E5.14.3.1.6.0.16</b>	Fissura posterolateralis cerebelli; Fissura postnodularis	Posterolateral fissure of cerebellum; Postnodular fissure
<b>E5.14.3.1.6.0.17</b>	Lobus flocculonodularis	Flocculonodular lobe
<b>E5.14.3.1.6.0.18</b>	Corpus cerebelli	Corpus cerebelli; Body of cerebellum
<b>E5.14.3.1.6.0.19</b>	Fissura prima cerebelli	Primary fissure of cerebellum; Preclival fissure
<b>E5.14.3.1.6.0.20</b>	Fissura secunda cerebelli	Secondary fissure of cerebellum; Postpyramidal fissure
<b>E5.14.3.1.6.0.21</b>	Fissura horizontalis cerebelli	Horizontal fissure of cerebellum; Great horizontal fissure
<b>E5.14.3.1.6.0.22</b>	Foliatio cerebelli	Foliation of cerebellum
<b>E5.14.1.0.1.0.5</b>	Sulcus limitans	Sulcus limitans
<b>E5.14.3.1.6.0.23</b>	Lamina basalis metencephali	Metencephalic basal lamina
<b>E5.14.3.1.6.0.24</b>	Tegmentum pontis	Tegmentum of pons; Tegmental pons
<b>E5.14.3.1.6.0.4</b>	Pars basilaris pontis	Basilar part of pons
<b>E5.14.3.1.6.0.5</b>	Nuclei pontis	Pontine nuclei
<b>E5.14.3.1.6.0.25</b>	Pedunculus cerebellaris medius	Middle cerebellar peduncle
<b>E5.14.1.0.2.0.8</b>	<b>Isthmus rhombencephali</b>	<b>Rhombencephalic isthmus</b>
<b>E5.14.3.1.7.1.1</b>	<b>Neuromerus isthmicus</b>	<b>Isthmic neuromere</b>
<b>E5.14.3.1.7.1.2</b>	Velum medullare superius	Superior medullary velum
<b>E5.14.1.0.1.0.5</b>	Sulcus limitans	Sulcus limitans
<b>E5.14.3.1.7.1.3</b>	Nucleus nervi trochlearis	Nucleus of trochlear nerve
<b>E5.14.3.1.7.1.4</b>	Recessus isthmicus	Isthmic recess
<b>E5.14.3.1.7.1.5</b>	Sulcus isthmicus	Isthmic groove
<b>E5.14.1.0.2.0.7</b>	Cerebellum	Cerebellum
<b>E5.14.3.1.7.1.6</b>	Pedunculus cerebellaris superior	Superior cerebellar peduncle

<b>E5.14.3.2.0.0.1</b>	<b>HISTOGENESIS CEREBELLI</b>	<b>HISTOGENESIS OF CEREBELLUM; HISTOGENY OF CEREBELLUM</b>
<b>E5.14.2.1.0.1.3</b>	Neuroblastus	Neuroblast
<b>E5.14.2.1.0.2.1</b>	Glioblastus	Glioblast
<b>E5.14.3.1.6.0.23</b>	Lamina basalis metencephali	Metencephalic basal lamina
<b>E5.14.3.2.0.0.2</b>	Stratum ventriculare cerebelli; Stratum germinale internum cerebelli <sup>272</sup>	Ventricular layer of cerebellum; Internal germinal layer of cerebellum
<b>E5.14.3.2.0.0.3</b>	Stratum pallii cerebelli <sup>279</sup>	Mantle layer of cerebellum
<b>E5.14.3.2.0.0.4</b>	Labium rhomboideum laminae dorsolateralis	Rhombic lip of alar plate
<b>E5.14.3.2.0.0.5</b>	Neuroepithelium rhombicum	Rhombic neuro-epithelium
<b>E5.14.3.2.0.0.6</b>	Stratum germinale externum cerebelli	External germinal layer of cerebellum
<b>E5.14.3.2.1.0.1</b>	<b>Phasis stratorum trium</b>	<b>Three strata phase</b>
<b>E5.14.3.2.0.0.2</b>	Stratum ventriculare cerebelli; Stratum germinale internum cerebelli <sup>272</sup>	Ventricular layer of cerebellum; Internal germinal layer of cerebellum
<b>E5.14.3.2.1.0.2</b>	Neuron immaturum purkinjense	Immature purkinje cell §Purkinje§
<b>E5.14.3.2.1.0.3</b>	Neuron immaturum nucleare cerebelli	Cerebellar nuclear immature neuron
<b>E5.14.3.2.0.0.3</b>	Stratum pallii cerebelli <sup>279</sup>	Mantle layer of cerebellum
<b>E5.14.3.2.0.0.6</b>	Stratum germinale externum cerebelli	External germinal layer of cerebellum
<b>E5.14.3.2.1.0.4</b>	Glioblastus radialis	Radial glioblast
<b>E5.14.3.2.2.0.1</b>	<b>Phasis prima stratorum sex</b>	<b>First six strata phase</b>
<b>E5.14.3.2.0.0.2</b>	Stratum ventriculare cerebelli; Stratum germinale internum cerebelli <sup>272</sup>	Ventricular layer of cerebellum; Internal germinal layer of cerebellum
<b>E5.14.3.2.0.0.3</b>	Stratum pallii cerebelli <sup>279</sup>	Mantle layer of cerebellum
<b>E5.14.3.2.1.0.3</b>	Neuron immaturum nucleare cerebelli	Cerebellar nuclear immature neuron
<b>E5.14.3.2.2.0.2</b>	Stratum intermedium cerebelli	Intermediate layer of cerebellum
<b>E5.14.3.2.2.0.3</b>	Stratum purkinjense embryonicum	Embryonic purkinje cell layer §Purkinje§
<b>E5.14.3.2.1.0.2</b>	Neuron immaturum purkinjense	Immature purkinje cell §Purkinje§
<b>E5.14.3.2.2.0.4</b>	Stratum moleculare cerebelli	Molecular layer of cerebellar cortex
<b>E5.14.3.2.0.0.6</b>	Stratum germinale externum cerebelli	External germinal layer of cerebellum
<b>E5.14.3.2.2.0.5</b>	Neuron immaturum stellatum magnum	Immature large stellate cell §Golgi§
<b>E5.14.3.2.2.0.6</b>	Neuron immaturum stellatum	Immature stellate cell
<b>E5.14.3.2.2.0.7</b>	Neuron immaturum corbiforme	Immature basket cell
<b>E5.14.3.2.2.0.8</b>	Neuron immaturum granulosum	Immature granule cell
<b>E5.14.2.1.0.2.1</b>	Glioblastus	Glioblast
<b>E5.14.3.2.3.0.1</b>	<b>Phasis secunda stratorum sex</b>	<b>Second six strata phase</b>
<b>E5.14.3.2.0.0.2</b>	Stratum ventriculare cerebelli; Stratum germinale internum cerebelli <sup>272</sup>	Ventricular layer of cerebellum; Internal germinal layer of cerebellum
<b>E5.14.3.2.3.0.2</b>	Substantia alba cerebelli	Cerebellar white matter
<b>E5.14.3.2.3.0.3</b>	Nuclei cerebelli <sup>280</sup>	Cerebellar nuclei
<b>E5.14.3.2.3.0.4</b>	Stratum granulare corticis cerebelli	Granule cell layer of cerebellar cortex
<b>E5.14.3.2.2.0.8</b>	Neuron immaturum granulosum	Immature granule cell
<b>E5.14.3.2.2.0.5</b>	Neuron immaturum stellatum magnum	Immature large stellate cell §Golgi§
<b>E5.14.3.2.2.0.6</b>	Neuron immaturum stellatum	Immature stellate cell
<b>E5.14.3.2.2.0.7</b>	Neuron immaturum corbiforme	Immature basket cell
<b>E5.14.2.1.0.2.1</b>	Glioblastus	Glioblast
<b>E5.14.3.2.3.0.5</b>	Stratum purkinjense	Definitive purkinje cell layer §Purkinje§
<b>E5.14.3.2.2.0.4</b>	Stratum moleculare cerebelli	Molecular layer of cerebellar cortex
<b>E5.14.3.2.0.0.6</b>	Stratum germinale externum cerebelli	External germinal layer of cerebellum
<b>E5.14.3.2.4.0.1</b>	<b>Phasis definitiva</b>	<b>Definitive phase</b>
<b>E5.14.3.2.4.0.2</b>	Ependyma cerebellare	Cerebellar ependyma
<b>E5.14.3.2.3.0.2</b>	Substantia alba cerebelli	Cerebellar white matter

<sup>279</sup> E5.14.3.2.0.0.3 *Stratum pallii cerebelli* In at least some mammals, three developing zones (dz1, dz2, dz3) appear outside the ventricular layer (Altman J, Bayer SA. Development of Cerebellar System in relation to its Evolution, Structure and Function. New York: CRC Press; 1997). Neuroblasts of dz1 migrate outwards and pause in dz2 before eventually migrating outwards to form cerebellar nuclei; neuroblasts of dz3 appear outside dz2 several days later and eventually migrate towards the cortex to form, successively, the embryonic and definitive Purkinje cell layer. However, this sequence has yet to be confirmed in human embryos.

<sup>280</sup> E5.14.3.2.3.0.3 *Nuclei cerebelli* The use of the adjective deep with *cerebellar nuclei* is redundant as there are no corresponding superficial *cerebellar nuclei* (Haines DE, Dietrichs E. Cerebellar terminology. The Cerebellum 2002;1:163-164. Haines DE, Olry R, Dietrichs E. NEUROwords 17: If there are "deep" cerebellar nuclei, where are the "superficial" ones? J Hist Neurosci 2003;12:203-205).

<b>E5.14.3.2.3.0.3</b>	Nuclei cerebelli <sup>280</sup>	Cerebellar nuclei
<b>E5.14.3.2.3.0.4</b>	Stratum granulare corticis cerebelli	Granule cell layer of cerebellar cortex
<b>E5.14.3.2.2.0.8</b>	Neuron immaturum granulosum	Immature granule cell
<b>E5.14.3.2.2.0.5</b>	Neuron immaturum stellatum magnum	Immature large stellate cell §Golgi§
<b>E5.14.3.2.2.0.6</b>	Neuron immaturum stellatum	Immature stellate cell
<b>E5.14.3.2.2.0.7</b>	Neuron immaturum corbiforme	Immature basket cell
<b>E5.14.3.2.3.0.5</b>	Stratum purkinjense	Definitive purkinje cell layer §Purkinje§
<b>E5.14.3.2.2.0.4</b>	Stratum moleculare cerebelli	Molecular layer of cerebellar cortex
<b>E5.14.1.0.2.0.9</b>	<b>MESENCEPHALON</b>	<b>MESENCEPHALON; MIDBRAIN</b>
<b>E5.14.1.0.1.0.5</b>	Sulcus limitans	Sulcus limitans
<b>E5.14.3.3.0.0.1</b>	Cavitas mesencephalica	Mesencephalic cavity
<b>E5.14.3.3.0.0.2</b>	Aquaeductus cerebri; Aquaeductus mesencephali	Cerebral aqueduct; Aqueduct of midbrain §Sylvius§
<b>E5.14.3.3.0.0.3</b>	Flexura mesencephalica	Mesencephalic flexure; Cephalic flexure
<b>E5.14.3.3.0.1.1</b>	<b>Crista neuralis mesencephalica</b>	<b>Mesencephalic neural crest</b>
<b>E5.14.3.3.0.1.2</b>	Nucleus mesencephalicus nervi trigemini	Mesencephalic nucleus of trigeminal nerve
<b>E5.14.3.3.1.0.1</b>	<b>Neuromerus M</b>	<b>Neuromere M</b>
<b>E5.14.3.3.1.1.1</b>	<b>Neuromerus M2</b>	<b>Neuromere M2</b>
<b>E5.14.3.3.1.1.2</b>	Nucleus nervi oculomotorii	Nucleus of oculomotor nerve
<b>E5.14.3.3.1.1.3</b>	Nucleus visceromotorius	Visceral motor nucleus; Autonomic nucleus §Edinger-Westphal§
<b>E5.14.3.3.1.2.1</b>	<b>Neuromerus M1</b>	<b>Neuromere M1</b>
<b>E5.14.3.3.1.2.2</b>	Evaginatio mesencephalica	Mesencephalic evagination
<b>E5.14.3.3.1.3.1</b>	<b>Basis pedunculi</b>	<b>Basis pedunculi</b>
<b>E5.14.3.3.1.3.2</b>	Tegmentum mesencephali	Tegmentum of midbrain; Tegmental midbrain
<b>E5.14.3.3.1.1.2</b>	Nucleus nervi oculomotorii	Nucleus of oculomotor nerve
<b>E5.14.3.3.1.1.3</b>	Nucleus visceromotorius	Visceral motor nucleus; Autonomic nucleus §Edinger-Westphal§
<b>E5.14.3.3.1.3.3</b>	Nucleus ruber	Red nucleus
<b>E5.14.3.3.1.3.4</b>	Substantia nigra	Substantia nigra
<b>E5.14.3.3.1.3.5</b>	Decussatio pedunculorum cerebellarium superiorum	Decussation of superior cerebellar peduncles
<b>E5.14.3.3.1.3.6</b>	Crus cerebri	Crus cerebri; Cerebral crus
<b>E5.14.3.3.1.4.1</b>	<b>Tectum mesencephali</b>	<b>Tectum of midbrain; Tectal midbrain</b>
<b>E5.14.3.3.1.4.2</b>	Crista collicularis; Corpora bigemina	Corpora bigemina; Collicular ridge
<b>E5.14.3.3.1.4.3</b>	Lamina tecti; Lamina quadrigemina	Tectal plate; Quadrigeminal plate
<b>E5.14.3.3.1.4.4</b>	Colliculus superior	Superior colliculus
<b>E5.14.3.3.1.4.5</b>	Commissura colliculorum superiorum	Commissure of the superior colliculi; Superior collicular commissure
<b>E5.14.3.3.1.4.6</b>	Colliculus inferior	Inferior colliculus
<b>E5.14.3.3.1.4.7</b>	Commissura colliculorum inferiorum	Commissure of the inferior colliculi; Inferior collicular commissure
<b>E5.14.1.0.2.0.10</b>	<b>PROSENCEPHALON</b>	<b>PROSENCEPHALON; FOREBRAIN</b>
<b>E5.14.3.4.0.0.1</b>	Cavitas prosencephalica	Prosencephalic cavity
<b>E5.14.1.0.2.0.11</b>	<b>Diencephalon</b>	<b>Diencephalon</b>
<b>E5.14.3.4.1.1.1</b>	<b>Cavitas diencephalica</b>	<b>Diencephalic cavity</b>
<b>E5.14.3.4.1.1.2</b>	Ventriculus tertius	Third ventricle
<b>E5.14.3.1.0.0.4</b>	Plexus choroideus	Choroid plexus
<b>E5.13.2.0.0.4.5</b>	Tela choroidea	Tela choroidea
<b>E5.14.3.4.1.1.3</b>	Recessus	Recess
<b>E5.14.3.4.1.1.4</b>	Velum interpositum	Velum interpositum
<b>E5.14.3.4.2.0.1</b>	<b>Neuromerus P</b>	<b>Neuromere P</b>
<b>E5.14.3.4.2.0.2</b>	Regio thalamica	Thalamic region
<b>E5.14.3.4.2.0.3</b>	Zona diencephalica	Diencephalic zone
<b>E5.14.3.4.2.1.1</b>	<b>Neuromerus D2</b>	<b>Neuromere D2</b>
<b>E5.14.3.4.2.1.2</b>	Neuromerus synencephali	Synencephalon
<b>E5.14.3.4.2.1.3</b>	Tectum prerubralis	Prerubral tectum
<b>E5.14.3.4.2.1.4</b>	Neuromerus parencephali caudalis	Caudal parencephalon
<b>E5.14.3.4.2.1.5</b>	Epithalamus	Epithalamus
<b>E5.10.2.0.0.0.2</b>	Primordium glandulae pinealis	Primordium of pineal gland
<b>E5.14.3.4.2.1.6</b>	Commissura habenularum	Habenular commissure

E5.14.3.4.2.1.7	Commissura posterior	Posterior commissure
E5.14.3.4.2.1.8	Thalamus dorsalis	Dorsal thalamus
E5.14.3.4.2.1.9	Sulcus medius	Sulcus medius
E5.14.3.4.2.1.10	Zona limitans intrathalamica	Zona limitans intrathalamica
E5.14.3.4.2.1.11	Lamina medullaris lateralis	External medullary lamina
E5.14.3.4.2.1.12	Crista marginalis	Marginal ridge
E5.14.3.4.2.1.13	Neuromerus parencephali rostralis	Rostral parencephalon
E5.14.3.4.2.1.14	Thalamus ventralis	Ventral thalamus
E5.14.3.4.2.1.15	Sulcus hypothalamicus	Hypothalamic sulcus
E5.14.3.4.2.1.16	Hypothalamus	Hypothalamus
E5.10.1.2.0.0.4	Primordium neurohypophysis	Primordium of neurohypophysis
E5.14.3.4.2.1.17	Subthalamus	Subthalamus
E5.14.3.4.2.1.18	Globus pallidus medialis	Globus pallidus-medial segment
E5.14.3.4.2.1.19	Globus pallidus lateralis	Globus pallidus-lateral segment
E5.14.3.4.2.2.1	<b>Neuromerus D1</b>	<b>Neuromere D1</b>
E5.14.3.4.2.2.2	Regio optica	Optic region
E5.14.3.4.2.2.3	Sulcus opticus	Optic groove; Optic sulcus
E5.14.3.4.2.2.4	Vesicula optica	Optic vesicle
E5.14.3.4.2.2.5	Cavitas vesiculae opticae	Cavity of optic vesicle
E5.14.3.4.2.2.6	Pedunculus opticus	Optic stalk
E5.14.3.4.2.2.7	Cupula optica	Optic cup
E5.14.3.4.2.2.8	Cavitas cupulae opticae	Cavity of optic cup
E5.14.3.4.2.2.9	Tractus opticus	Optic tract
E5.14.3.4.2.2.10	Crista optica	Optic crest
E5.14.3.4.2.2.11	Primordium chiasmatis; Torus opticus	Chiasmatic plate
E5.14.3.4.2.2.12	Commissura supraoptica	Supraoptic commissure
E5.14.3.4.2.2.13	Chiasma opticum	Optic chiasm; Optic chiasma
E5.14.3.4.2.2.14	Discus nervi optici	Optic disc
E5.14.3.4.2.2.15	Fissura optica; Fissura retinae <sup>281</sup>	Retinal fissure; Optic fissure
E5.14.3.4.2.3.1	<b>Neuromerus telencephali medium</b> [vide infra]	<b>Neuromere telencephalon medium</b> [see below]
E5.14.3.4.2.4.1	<b>Recessus diencephalicus</b>	<b>Diencephalic recess</b>
E5.14.3.4.2.4.2	Recessus suprapinealis	Suprapineal recess
E5.10.2.0.0.0.14	Recessus pinealis	Pineal recess
E5.14.3.4.2.4.3	Recessus mammillaris	Mammillary recess
E5.14.3.4.2.4.4	Recessus supramammillaris	Supramammillary recess
E5.14.3.4.2.4.5	Recessus inframammillaris	Inframammillary recess
E5.14.3.4.2.4.6	Recessus praeopticus	Preoptic recess
E5.14.3.4.2.4.7	Recessus postopticus	Postoptic recess
E5.10.1.2.0.0.3	Recessus infundibularis	Infundibular recess
E5.14.3.4.2.4.8	Eminentia ventricularis medialis	Medial ventricular eminence
E5.14.3.4.2.4.9	Corpus amygdaloideum	Amygdaloid body; Amygdaloid complex
E5.14.3.4.2.4.10	Nucleus accumbens	Nucleus accumbens
E5.14.1.0.2.0.12	<b>Telencephalon</b>	<b>Telencephalon</b>
E5.14.3.4.3.0.1	Cavitas telencephalica	Telencephalic cavity
E5.14.3.4.3.0.2	Ventriculus lateralis	Lateral ventricle
E5.14.3.4.3.0.3	Foramen interventriculare	Interventricular foramen
E5.14.3.4.3.0.4	Stratum choroideum epitheliale	Choroid epithelial layer
E5.13.2.0.0.4.5	Tela choroidea	Tela choroidea
E5.14.3.1.0.0.3	Fissura choroidea	Choroid fissure
E5.14.3.1.0.0.4	Plexus choroideus	Choroid plexus
E5.14.3.4.3.0.5	Liquor cerebrospinalis	Cerebrospinal fluid
E5.14.3.4.3.0.6	Velum transversum	Velum transversum
E5.14.3.4.3.0.7	Paraphysis	Paraphysis
E5.14.3.4.3.0.8	Torus hemisphericus	Torus hemisphericus
E5.14.3.4.3.0.9	Sulcus diencephalicotelencephalicus	Diencephalic-telencephalic sulcus; Telediencephalic sulcus
E5.14.3.4.3.0.10	Diverticulum telencephalicum	Hemispheric stalk
E5.14.3.4.3.0.11	Lamina affixa	Lamina affixa

<sup>281</sup> E5.14.3.4.2.2.15 *Fissura optica; Fissura retinae* The *retinal fissure* is frequently, but inappropriately, called the choroid fissure.

<b>E5.14.3.4.3.0.12</b>	Sulcus terminalis	Terminal sulcus
<b>E5.14.3.4.3.0.13</b>	Fasciculus prosencephalicus lateralis	Lateral prosencephalic fasciculus
<b>E5.14.3.4.3.1.1</b>	<b>Neuromerus telencephali medium</b>	<b>Neuromere telencephalon medium</b>
<b>E5.14.3.4.3.1.2</b>	Telencephalon impar; Telencephalon medianum	Unpaired telencephalon; Median telencephalon
<b>E5.14.3.4.3.1.3</b>	Area praeoptica	Preoptic area
<b>E5.14.3.4.3.1.4</b>	Lamina terminalis	Lamina terminalis
<b>E5.14.3.4.3.1.5</b>	Lamina commissuralis	Commissural plate
<b>E5.14.3.4.3.1.6</b>	Lamina nasalis	Nasal plate
<b>E5.14.3.4.3.1.7</b>	Commissura anterior	Anterior commissure
<b>E5.14.3.4.3.1.8</b>	Corpus callosum	Corpus callosum
<b>E5.14.3.4.3.1.9</b>	Commissura hippocampalis	Hippocampal commissure
<b>E5.14.3.4.3.1.10</b>	Commissura neopallialis	Neopallial commissure
<b>E5.14.3.4.3.1.11</b>	Structurae olfactoriae	Olfactory structures
<b>E5.14.3.4.3.1.12</b>	Regio olfactoria	Olfactory region
<b>E5.14.3.4.3.1.13</b>	Bulbus olfactorius	Olfactory bulb
<b>E5.14.3.4.3.1.14</b>	Ventriculus olfactorius	Olfactory ventricle
<b>E5.14.3.4.3.1.15</b>	Sulcus olfactorius semicircularis	Olfactory semicircular sulcus
<b>E5.14.3.4.3.1.16</b>	Tuberculum olfactorium	Olfactory tubercle
<b>E4.0.3.1.0.0.5</b>	Epithelium olfactorium	Olfactory epithelium
<b>E5.14.3.4.3.1.17</b>	Cortex piriformis	Piriform cortex
<b>E5.14.3.4.3.1.18</b>	Fissura rhinalis	Rhinal fissure
<b>E5.14.3.4.3.1.19</b>	Area paraterminalis	Paraterminal area
<b>E5.14.3.4.3.1.20</b>	Septum prosencephalicum	Prosencephalic septum
<b>E5.14.3.4.3.1.21</b>	Nuclei septales mediales	Medial septal nuclei
<b>E5.14.3.4.3.1.22</b>	Nucleus striae diagonalis	Nucleus of diagonal band
<b>E5.14.3.4.3.1.23</b>	Nucleus basalis	Nucleus basalis
<b>E5.14.3.4.2.4.10</b>	Nucleus accumbens	Nucleus accumbens
<b>E5.14.3.4.3.1.24</b>	Hemispherium cerebri	Cerebral hemisphere
<b>E5.14.3.4.3.1.25</b>	Cortex trilaminaris primordialis	Primary three-layered cortex
<b>E5.14.3.4.3.1.26</b>	Stratum plexiforme primordiale	Primordial plexiform layer
<b>E5.14.3.4.3.1.27</b>	Lamina corticalis	Cortical plate
<b>E5.14.3.4.3.1.28</b>	Stratum subpiaie	Subpial layer
<b>E5.14.3.4.3.1.29</b>	Sublamina	Subplate
<b>E5.14.3.4.3.1.30</b>	Pallium	Pallium
<b>E5.14.3.4.3.1.31</b>	Archipallium	Archipallium
<b>E5.14.3.4.3.1.32</b>	Archicortex	Archicortex
<b>E5.14.3.4.3.1.33</b>	Paleopallium	Paleopallium
<b>E5.14.3.4.3.1.34</b>	Paleocortex	Paleocortex
<b>E5.14.3.4.3.1.35</b>	Neopallium	Neopallium
<b>E5.14.3.4.3.1.36</b>	Neocortex	Neocortex
<b>E5.14.3.4.3.1.37</b>	Cortex stratificatus definitivus	Definitive stratified cortex
<b>E5.14.3.4.3.1.38</b>	Area lobi frontalis	Frontal lobe area
<b>E5.14.3.4.3.1.39</b>	Area lobi temporalis	Temporal lobe area
<b>E5.14.3.4.3.1.40</b>	Area lobi occipitalis	Occipital lobe area
<b>E5.14.3.4.3.1.41</b>	Area lobi parietalis	Parietal lobe area
<b>E5.14.3.4.3.1.42</b>	Insula	Insula §Reil§
<b>E5.14.3.4.3.1.43</b>	Eminentia ventriculi lateralis	Lateral ventricular eminence
<b>E5.14.3.4.3.1.44</b>	Nucleus caudatus	Caudate nucleus
<b>E5.14.3.4.3.1.45</b>	Putamen	Putamen
<b>E5.14.3.4.3.1.46</b>	Pars suprastrriata hemispherii	Suprastrriatal part of hemisphere
<b>E5.14.3.4.3.1.47</b>	Hippocampus primordialis	Primordial hippocampus
<b>E5.14.3.4.3.1.48</b>	Crista hippocampalis	Hippocampal ridge
<b>E5.14.3.4.3.1.49</b>	Fissura hippocampalis	Hippocampal fissure
<b>E5.14.3.4.3.1.50</b>	Gyrus dentatus	Dentate gyrus
<b>E5.14.3.4.3.1.51</b>	Hippocampus	Hippocampus
<b>E5.14.3.4.3.1.52</b>	Subiculum	Subiculum
<b>E5.14.3.4.3.1.53</b>	Praesubiculum	Presubiculum
<b>E5.14.3.4.3.1.54</b>	Area epithelialis	Epithelial area
<b>E5.14.3.4.3.1.55</b>	Vestigium hippocampi	Vestigial hippocampus
<b>E5.14.3.4.3.1.56</b>	Systema fornicale	Fornix system
<b>E5.14.3.5.0.0.1</b>	<b>HISTOGENESIS PROSENCEPHALI</b>	<b>HISTOGENESIS OF FOREBRAIN; HISTOGENY OF FOREBRAIN</b>

<b>E5.14.3.5.1.0.1</b>	<b>Phasis zonarum quatuor</b>	<b>Four zone phase</b>
<b>E5.14.1.1.1.0.2</b>	Rete bacillorum terminalium; Membrana limitans interna	Internal limiting membrane; Terminal bar net
<b>E5.14.1.1.1.1.1</b>	<b>Zona ventricularis; Matrix germinalis</b> <sup>272</sup>	<b>Ventricular zone; Germinal matrix</b>
<b>E5.14.1.1.2.0.2</b>	Cellula mitotica	Mitotic cell
<b>E5.14.1.1.2.0.3</b>	Basis epitheliocyti prismatici	Base of wedge-shaped epithelial cell
<b>E5.14.1.1.2.2.1</b>	<b>Zona intermedia; Zona pallii</b>	<b>Intermediate zone; Mantle zone</b>
<b>E5.14.1.1.2.2.2</b>	Cellula migrans	Migrating cell
<b>E5.14.1.1.2.0.4</b>	Processus epitheliocyti prismatici	Process of wedge-shaped epithelial cell
<b>E5.14.3.4.3.1.27</b>	<b>Lamina corticalis</b> <sup>282</sup>	<b>Cortical plate</b>
<b>E5.14.1.1.2.2.2</b>	Cellula migrans	Migrating cell
<b>E5.14.1.1.2.0.4</b>	Processus epitheliocyti prismatici	Process of wedge-shaped epithelial cell
<b>E5.12.2.4.0.1.4</b>	<b>Zona marginalis</b>	<b>Marginal zone</b>
<b>E5.14.1.1.2.0.4</b>	Processus epitheliocyti prismatici	Process of wedge-shaped epithelial cell
<b>E5.14.1.1.1.1.4</b>	Glia limitans; Membrana limitans glialis superficialis; Membrana limitans externa	Glia limitans; Limiting membrane of superficial glia; External limiting membrane
<b>E5.14.3.5.2.0.1</b>	<b>Phasis zonarum quinque</b>	<b>Five zone phase</b>
<b>E5.14.1.1.1.0.2</b>	Rete bacillorum terminalium; Membrana limitans interna	Internal limiting membrane; Terminal bar net
<b>E5.14.1.1.1.1.1</b>	<b>Zona ventricularis; Matrix germinalis</b> <sup>272</sup>	<b>Ventricular zone; Germinal matrix</b>
<b>E5.14.1.1.2.0.2</b>	Cellula mitotica	Mitotic cell
<b>E5.14.2.1.0.1.1</b>	Ependymoblastus	Ependymoblast
<b>E5.14.2.1.0.1.3</b>	Neuroblastus	Neuroblast
<b>E5.14.2.1.0.2.1</b>	Glioblastus	Glioblast
<b>E5.14.2.1.0.2.2</b>	Gliocytus radialis	Radial glial cell
<b>E5.14.3.5.2.2.1</b>	<b>Zona subventricularis</b>	<b>Subventricular zone</b>
<b>E5.14.3.5.2.2.2</b>	Cellula proliferativa; Cellula germinativa	Proliferative cell; Germinal cell
<b>E5.14.3.5.2.2.3</b>	Processus gliocyti radialis	Process of radial glial cell
<b>E5.14.1.1.2.2.1</b>	<b>Zona intermedia; Zona pallii</b>	<b>Intermediate zone; Mantle zone</b>
<b>E5.14.1.1.2.2.2</b>	Cellula migrans	Migrating cell
<b>E5.14.3.5.2.2.3</b>	Processus gliocyti radialis	Process of radial glial cell
<b>E5.14.3.4.3.1.27</b>	<b>Lamina corticalis</b> <sup>282</sup>	<b>Cortical plate</b>
<b>E5.14.1.1.2.2.2</b>	Cellula migrans	Migrating cell
<b>E5.14.3.5.2.4.1</b>	Neuron immaturum	Immature neuron
<b>E5.14.2.1.0.2.8</b>	Neuron immaturum apolare <sup>276</sup>	Immature apolar neuron
<b>E5.14.2.1.0.2.9</b>	Formatio processuum	Formation of processes
<b>E5.14.2.1.0.2.10</b>	Axonogenesis	Axonogenesis
<b>E5.14.2.1.0.2.11</b>	Dendritogenesis	Dendrite formation; Dendrogenesis
<b>E5.14.2.1.0.2.12</b>	Conus incrementi	Growth cone
<b>E5.14.2.1.0.2.13</b>	Neuron immaturum unipolare <sup>276</sup>	Immature unipolar neuron
<b>E5.14.2.1.0.2.14</b>	Neuron immaturum bipolare <sup>276</sup>	Immature bipolar neuron
<b>E5.14.2.1.0.2.16</b>	Neuron immaturum multipolare <sup>276</sup>	Immature multipolar neuron
<b>E5.14.2.1.0.2.17</b>	Neuron multipolare	Multipolar neuron
<b>E5.14.3.5.2.2.3</b>	Processus gliocyti radialis	Process of radial glial cell
<b>E5.12.2.4.0.1.4</b>	<b>Zona marginalis</b>	<b>Marginal zone</b>
<b>E5.14.3.5.2.5.1</b>	Processus neuronis immaturi	Process of immature neuron
<b>E5.14.3.5.2.2.3</b>	Processus gliocyti radialis	Process of radial glial cell
<b>E5.14.1.1.1.1.4</b>	Glia limitans; Membrana limitans glialis superficialis; Membrana limitans externa	Glia limitans; Limiting membrane of superficial glia; External limiting membrane
<b>E5.14.3.5.3.0.1</b>	<b>Phasis zonarum sex</b> <sup>283</sup>	<b>Six zone phase</b>
<b>E5.14.1.1.1.0.2</b>	Rete bacillorum terminalium; Membrana limitans interna	Internal limiting membrane; Terminal bar net
<b>E5.14.1.1.1.1.1</b>	<b>Zona ventricularis; Matrix germinalis</b> <sup>272</sup>	<b>Ventricular zone; Germinal matrix</b>
<b>E5.14.1.1.2.0.2</b>	Cellula mitotica	Mitotic cell

<sup>282</sup> E5.14.3.4.3.1.27 *Lamina corticalis* The *cortical plate* is formed by cells originating in the ventricular zone and taking up a position between the marginal zone and the intermediate zone. At stage 21 the subpial layer is external to the cortical plate and the subplate internal thereto (Boulder Committee. Embryonic vertebrate central nervous system: revised terminology. Anat Rec 1970;166:257-261). The cortical plate originates by cell movement from the intermediate zone.

<sup>283</sup> E5.14.3.5.3.0.1 *Phasis zonarum sex* The six zone phase is found in the 14 week fetus. Its *marginal zone* includes a *subpial granular layer*: the name reflects the first shift from the within outwards terminology of development to the without inwards terminology of proliferation (Bystrin I, Blakemore C, Rakic P. Development of the human cerebral cortex: Boulder Committee revisited. Nature Reviews Neuroscience 2008;9:110-122).

<b>E5.14.2.1.0.1.1</b>	Ependyoblastus	Ependyoblast
<b>E5.14.3.5.2.2.3</b>	Processus gliocyti radialis	Process of radial glial cell
<b>E5.14.3.5.2.2.1</b>	<b>Zona subventricularis</b>	<b>Subventricular zone</b>
<b>E5.14.3.5.2.2.2</b>	Cellula proliferativa; Cellula germinativa	Proliferative cell; Germinal cell
<b>E5.14.2.1.0.2.1</b>	Glioblastus	Glioblast
<b>E5.14.2.1.0.2.2</b>	Gliocytus radialis	Radial glial cell
<b>E5.14.1.1.2.2.1</b>	<b>Zona intermedia; Zona pallii</b>	<b>Intermediate zone; Mantle zone</b>
<b>E5.14.3.5.2.5.1</b>	Processus neuronis immaturi	Process of immature neuron
<b>E5.14.3.5.2.2.3</b>	Processus gliocyti radialis	Process of radial glial cell
<b>E5.14.3.5.3.4.1</b>	<b>Zona sublaminae</b>	<b>Subplate zone</b>
<b>E5.14.3.5.2.4.1</b>	Neuron immaturum	Immature neuron
<b>E5.14.2.1.0.2.8</b>	Neuron immaturum apolare <sup>276</sup>	Immature apolar neuron
<b>E5.14.2.1.0.2.16</b>	Neuron immaturum multipolare <sup>276</sup>	Immature multipolar neuron
<b>E5.14.2.1.0.2.17</b>	Neuron multipolare	Multipolar neuron
<b>E5.14.3.4.3.1.27</b>	<b>Lamina corticalis</b> <sup>282</sup>	<b>Cortical plate</b>
<b>E5.14.3.5.2.4.1</b>	Neuron immaturum	Immature neuron
<b>E5.14.2.1.0.2.16</b>	Neuron immaturum multipolare <sup>276</sup>	Immature multipolar neuron
<b>E5.14.2.1.0.2.17</b>	Neuron multipolare	Multipolar neuron
<b>E5.12.2.4.0.1.4</b>	<b>Zona marginalis</b>	<b>Marginal zone</b>
<b>E5.14.3.5.2.5.1</b>	Processus neuronis immaturi	Process of immature neuron
<b>E5.14.3.5.2.2.3</b>	Processus gliocyti radialis	Process of radial glial cell
<b>E5.14.3.5.3.6.1</b>	Stratum granulare subpiaie	Subpiaial granular layer
<b>E5.14.1.1.1.1.4</b>	Glia limitans; Membrana limitans glialis superficialis; Membrana limitans externa	Glia limitans; Limiting membrane of superficial glia; External limiting membrane
<b>E5.14.3.5.4.0.1</b>	<b>Phasis definitiva</b> <sup>284</sup>	<b>Definitive phase</b>
<b>E5.14.1.1.1.0.2</b>	Rete bacillorum terminalium; Membrana limitans interna	Internal limiting membrane; Terminal bar net
<b>E5.14.3.5.4.1.1</b>	<b>Stratum ependymale</b>	<b>Ependymal layer</b>
<b>E5.14.2.1.0.1.1</b>	Ependyoblastus	Ependyoblast
<b>E5.14.2.1.0.1.2</b>	Ependymocytus	Ependymal cell; Ventricular cell
<b>E5.14.3.5.4.1.2</b>	Ependymocytus choroideus	Choroid ependymal cell
<b>E5.14.3.5.4.1.3</b>	Cellula supraependymalis	Supra-ependymal cell
<b>E5.14.2.1.0.2.7</b>	Tanycytus	Tanycyte
<b>E5.14.3.5.2.2.3</b>	Processus gliocyti radialis	Process of radial glial cell
<b>E5.14.3.5.2.2.1</b>	<b>Zona subventricularis</b>	<b>Subventricular zone</b>
<b>E5.14.1.1.2.0.2</b>	Cellula mitotica	Mitotic cell
<b>E5.14.3.5.2.2.3</b>	Processus gliocyti radialis	Process of radial glial cell
<b>E5.14.3.5.4.3.1</b>	<b>Substantia alba</b>	<b>White matter; White substance</b>
<b>E5.14.3.5.2.5.1</b>	Processus neuronis immaturi	Process of immature neuron
<b>E5.14.2.1.0.3.2</b>	Axon <sup>289</sup>	Axon
<b>E5.14.2.1.0.3.3</b>	Dendritum	Dendrite
<b>E5.14.2.1.0.2.1</b>	Glioblastus	Glioblast
<b>E5.14.2.1.0.3.1</b>	Processus gliocyti	Glial process
<b>E5.14.2.1.0.2.2</b>	Gliocytus radialis	Radial glial cell
<b>E5.14.2.1.0.2.3</b>	Astroblastus	Astrocytoblast
<b>E5.10.2.0.0.0.11</b>	Astrocytus	Astrocyte
<b>E5.14.2.1.0.2.4</b>	Cellula oligodendrocytoprogenetrix	Oligodendrocyte progenitor cell
<b>E5.14.2.1.0.2.5</b>	Oligodendroblastus	Oligodendrocytoblast
<b>E5.14.2.1.0.2.6</b>	Oligodendrocytus	Oligodendrocyte
<b>E5.14.3.5.4.4.1</b>	<b>Laminae VI-II primordiales isocortices</b>	<b>Primordial layers VI-II of isocortex</b>
<b>E5.14.3.5.2.4.1</b>	Neuron immaturum	Immature neuron
<b>E5.14.2.1.0.2.8</b>	Neuron immaturum apolare <sup>276</sup>	Immature apolar neuron
<b>E5.14.2.1.0.2.9</b>	Formatio processuum	Formation of processes
<b>E5.14.2.1.0.2.11</b>	Dendritogenesis	Dendrite formation; Dendrogenesis
<b>E5.14.2.1.0.2.12</b>	Conus incrementi	Growth cone
<b>E5.14.2.1.0.2.13</b>	Neuron immaturum unipolare <sup>276</sup>	Immature unipolar neuron
<b>E5.14.2.1.0.2.14</b>	Neuron immaturum bipolare <sup>276</sup>	Immature bipolar neuron

<sup>284</sup> E5.14.3.5.4.0.1 *Phasis definitiva* The *definitive phase* is reached in the 8 month fetus. For purposes of comparison with the previous zones of development, terms here are listed from within outwards. For the orientation of features in their usual way, from without inwards, including the layers of isocortex in order I-VI, see Terminologia Anatomica 1998 or Terminologia Histologica 2008. It has been suggested that the convention of describing developing layers and proliferative layers in these opposite ways should be explicitly adopted (Bystrin I, Blakemore C, Rakic P. Development of the human cerebral cortex: Boulder Committee revisited. Nature Reviews Neuroscience 2008;9:110-122).

<b>E5.14.2.1.0.2.15</b>	Neuron bipolare	Bipolar neuron
<b>E5.14.2.1.0.2.16</b>	Neuron immaturum multipolare <sup>276</sup>	Immature multipolar neuron
<b>E5.14.2.1.0.2.17</b>	Neuron multipolare	Multipolar neuron
<b>E5.11.2.3.0.0.9</b>	Monocytus	Monocyte
<b>E5.14.2.1.0.3.4</b>	Microglia <sup>277</sup>	Microglia
<b>E5.14.3.5.4.5.1</b>	<b>Zona marginalis attenuata; Lamina I primordialis isocorticis</b>	<b>Attenuated zona marginalis; Primordial lamina I of isocortex</b>
<b>E5.14.1.1.1.1.4</b>	Glia limitans; Membrana limitans glialis superficialis; Membrana limitans externa	Glia limitans; Limiting membrane of superficial glia; External limiting membrane
<b>E5.14.3.5.5.0.1</b>	<b>Anomaliae encephali</b>	<b>Anomalies of brain</b>
<b>E5.14.3.5.5.0.2</b>	Meroencephalia <sup>285</sup>	Mero-encephaly
<b>E5.14.3.5.5.0.3</b>	Exencephalia	Exencephaly
<b>E5.1.1.0.2.6.26</b>	Hydrocephalia	Hydrocephaly; Hydrocephalus; Hydrencephaly; Hydrencephalus
<b>E5.14.3.5.5.0.4</b>	Macrencephalia	Macro-encephaly
<b>E5.14.3.5.5.0.5</b>	Micrencephalia	Micro-encephaly
<b>E5.14.3.5.5.0.6</b>	Levencephalia; Agyria	Lissencephaly; Agyria
<b>E5.14.3.5.5.0.7</b>	Schizencephalia	Schizencephaly
<b>E5.14.3.5.5.0.8</b>	Microgyria	Microgyria
<b>E5.14.3.5.5.0.9</b>	Pachygyria	Pachygyria
<b>E5.14.3.5.5.0.10</b>	Polygyria	Polygyria
<b>E5.14.3.5.5.0.11</b>	Encephalocoelia	Encephalocoele <sup>▲</sup>
<b>E5.14.3.5.5.0.12</b>	Encephalocoelia frontalis	Frontal encephalocoele <sup>▲</sup>
<b>E5.14.3.5.5.0.13</b>	Encephalocoelia nasofrontalis	Nasofrontal encephalocoele <sup>▲</sup>
<b>E5.14.3.5.5.0.14</b>	Encephalocoelia parietalis	Parietal encephalocoele <sup>▲</sup>
<b>E5.14.3.5.5.0.15</b>	Encephalocoelia occipitalis	Occipital encephalocoele <sup>▲</sup>
<b>E5.14.3.5.5.0.16</b>	Encephalocoelia basalis	Basal encephalocoele <sup>▲</sup>
<b>E5.14.3.5.5.0.17</b>	Syringobulbia	Syringobulbia
<b>E5.14.3.5.5.0.18</b>	Holoprosencephalia	Holoprosencephaly
<b>E5.14.3.5.5.0.19</b>	Holoprosencephalia alobaris	Alobar holoprosencephaly
<b>E5.14.3.5.5.0.20</b>	Holoprosencephalia semilobaris	Semilobar holoprosencephaly
<b>E5.14.3.5.5.0.21</b>	Holoprosencephalia lobaris	Lobar holoprosencephaly
<b>E5.14.3.5.5.0.22</b>	Tractus sinusoideus craniodermalis	Cranial dermal sinus tract
<b>E5.14.3.5.5.0.23</b>	Tractus sinusoideus dermalis occipitalis	Occipital dermal fistula; Occipital dermal sinus tract
<b>E5.14.3.5.5.0.24</b>	Tractus sinusoideus dermalis parietalis	Parietal dermal sinus tract
<b>E5.14.3.5.5.0.25</b>	Tractus sinusoideus dermalis frontalis	Frontal dermal sinus tract
<b>E5.14.3.5.5.0.26</b>	Tractus sinusoideus dermalis nasalis	Nasal dermal sinus tract
<b>E5.14.3.5.5.0.27</b>	Dermoideum cranii	Cranial dermoid
<b>E5.14.3.5.5.0.28</b>	Agenesis corporis callosi	Agenesis of corpus callosum
<b>E5.14.3.5.5.0.29</b>	Hypoplasia corporis callosi	Hypoplasia of corpus callosum
<b>E5.14.3.5.5.0.30</b>	Agenesis cerebelli	Agenesis of cerebellum
<b>E5.14.3.5.5.0.31</b>	Hypoplasia cerebelli <sup>286</sup>	Hypoplasia of cerebellum
<b>E5.14.3.5.5.0.32</b>	Heterotopia	Heterotopia
<b>E5.14.3.5.5.0.33</b>	Heterotopia neuronalis	Neuronal heterotopia
<b>E5.14.3.5.5.0.34</b>	Heterotopia glialis	Glial heterotopia
<b>E5.15.0.0.0.0.1</b>	<b>Pars peripherica; Systema nervosum periphericum</b>	<b>Peripheral nervous system [PNS]</b>
<b>E5.0.2.1.0.0.2</b>	<b>Crista neuralis<sup>91</sup></b>	<b>Neural crest</b>
<b>E5.15.1.0.0.0.1</b>	Epithelium tubi neuralis; Neurectoderma	Neural tube epithelium; Neurectoderm; Neural ectoderm
<b>E5.13.1.0.1.0.5</b>	Tubus neuralis primarius	Primary neural tube
<b>E5.13.1.0.1.0.6</b>	Crista neuralis primaria	Primary neural crest
<b>E5.15.1.0.0.0.2</b>	Cellula cristae neuralis	Neural crest cell
<b>E5.13.1.0.2.0.5</b>	Tubus neuralis secundarius	Secondary neural tube
<b>E5.13.1.0.2.0.6</b>	Crista neuralis secundaria	Secondary neural crest

<sup>285</sup> E5.14.3.5.5.0.2 *Meroencephalia* – The preferred term *mero-encephaly*, recognizes that the anomaly entails drastic effects on some brain areas and lesser or no effects on others, which is not indicated by the term *anencephaly*.

<sup>286</sup> E5.14.3.5.5.0.31 *Hypoplasia cerebelli* – MRI may reveal a small or rudimentary cerebellar structure in cases described as agenesis of the cerebellum.



<b>E5.15.1.0.0.0.2</b>	Cellula cristae neuralis	Neural crest cell
<b>E5.14.3.4.2.2.4</b>	Vesicula optica	Optic vesicle
<b>E5.15.1.0.0.0.3</b>	Cellula neuralocristiformis <sup>287</sup>	Neural crest-like cell
<b>E5.0.3.0.0.0.3</b>	Ectoderma embryonicum <sup>121</sup>	Embryonic ectoderm
<b>E5.3.0.0.0.0.8</b>	Placoda nasalis; Placoda olfactoria <sup>165</sup>	Nasal placode; Nasal disc; Olfactory placode
<b>E5.15.1.0.0.0.3</b>	Cellula neuralocristiformis	Neural crest-like cell
<b>E5.15.1.0.0.0.4</b>	Vesicula otica	Otic vesicle; Otocyst
<b>E5.15.1.0.0.0.3</b>	Cellula neuralocristiformis	Neural crest-like cell
<b>E5.2.0.0.0.0.4</b>	Placoda epipharyngea	Epipharyngeal placode
<b>E5.14.3.0.0.0.4</b>	Placoda dorsolateralis	Dorsolateral placode
<b>E5.15.1.0.0.0.3</b>	Cellula neuralocristiformis	Neural crest-like cell
<b>E5.15.1.0.1.0.1</b>	<b>Epithelium cristae neuralis</b>	<b>Neural crest epithelium</b>
<b>E5.10.5.2.0.0.1</b>	Textus cristae neuralis	Neural crest tissue
<b>E5.15.1.0.0.0.2</b>	Cellula cristae neuralis	Neural crest cell
<b>E5.15.1.0.2.0.1</b>	<b>Crista neuralis cranialis</b>	<b>Cranial neural crest</b>
<b>E4.0.3.1.0.0.1</b>	Complexus cristae neuralis nasalis <sup>92</sup>	Nasal neural crest complex
<b>E5.15.1.0.2.0.2</b>	Complexus cristae neuralis olfactoriae	Olfactory neural crest complex
<b>E5.15.1.0.2.0.3</b>	Complexus cristae neuralis terminalis	Terminal neural crest complex
<b>E5.15.1.0.2.0.4</b>	Complexus cristae neuralis vomeronasalis	Vomeronasal neural crest complex
<b>E4.0.3.2.0.0.1</b>	Complexus cristae neuralis opticae <sup>93</sup>	Optic neural crest complex
<b>E4.0.3.3.0.0.1</b>	Crista neuralis praeotica	Pre-otic neural crest
<b>E4.0.3.3.1.0.1</b>	Complexus cristae neuralis mesencephalicae <sup>95</sup>	Mesencephalic neural crest complex
<b>E4.0.3.3.2.0.1</b>	Crista neuralis isthmica <sup>96</sup>	Isthmic neural crest
<b>E4.0.3.3.3.0.1</b>	Crista neuralis rhombencephalica	Rhombencephalic neural crest
<b>E4.0.3.3.3.1.1</b>	Complexus cristae neuralis trigeminalis <sup>97</sup>	Trigeminal neural crest complex
<b>E4.0.3.3.3.2.1</b>	Complexus cristae neuralis facialis <sup>98</sup>	Facial neural crest complex
<b>E4.0.3.4.0.0.1</b>	Complexus cristae neuralis oticae <sup>99</sup>	Otic neural crest complex
<b>E5.15.1.0.2.0.5</b>	Complexus cristae neuralis faciovestibulocochlearis <sup>288</sup>	Faciovestibulocochlear neural crest complex
<b>E5.15.1.0.2.0.6</b>	Complexus cristae neuralis vestibulocochlearis	Vestibulocochlear neural crest complex
<b>E5.15.1.0.2.0.7</b>	Complexus cristae neuralis vestibularis	Vestibular neural crest complex
<b>E5.15.1.0.2.0.8</b>	Complexus cristae neuralis cochlearis	Cochlear neural crest complex
<b>E4.0.3.5.0.0.1</b>	Crista neuralis postotica	Post-otic neural crest
<b>E4.0.3.5.0.1.1</b>	Complexus cristae neuralis glossopharyngealis <sup>100</sup>	Glossopharyngeal neural crest complex
<b>E4.0.3.5.0.2.1</b>	Complexus cristae neuralis vagalis <sup>100</sup>	Vagal neural crest complex
<b>E4.0.3.5.0.3.1</b>	Complexus cristae neuralis cardiacus <sup>101</sup>	Cardiac neural crest complex
<b>E4.0.3.5.0.4.1</b>	Crista neuralis nervi accessorii <sup>102</sup>	Neural crest of accessory nerve
<b>E4.0.3.5.0.5.1</b>	Crista neuralis hypoglossalis; Crista neuralis occipitalis <sup>103</sup>	Hypoglossal neural crest; Occipital neural crest
<b>E4.0.3.5.1.0.1</b>	<b>Crista neuralis spinalis<sup>104</sup></b>	<b>Spinal neural crest</b>
<b>E5.15.1.0.3.0.1</b>	Crista neuralis truncalis	Truncal neural crest
<b>E5.15.1.0.3.0.2</b>	Crista neuralis lumbosacralis	Lumbosacral neural crest
<b>E5.15.1.0.4.0.1</b>	<b>Cellulae textus neuralis</b>	<b>Neural tissue cells</b>
<b>E5.15.1.0.4.0.2</b>	Neuroblastus ganglionicus	Ganglionic neuroblast
<b>E5.15.1.0.4.0.3</b>	Neuron ganglionicum immaturum	Immature ganglionic neuron
<b>E5.15.1.0.4.0.4</b>	Gliocytus ganglionicus primordialis	Primordial ganglionic satellite cell
<b>E5.15.1.0.4.0.5</b>	Schwannoblastus; Schwannocytus primordialis	Schwannoblast; Primordial schwann cell
<b>E5.15.2.0.0.0.1</b>	<b>Placodae neurogenicae</b>	<b>Neurogenic placodes</b>

<sup>287</sup> E5.15.1.0.0.0.3 *Cellula neuralocristiformis* Cells that behave in a similar manner to *neural crest cells* but arise from other sources are here referred to as *neural crest-like cells*. However, they meld seamlessly with *neural crest cells* into *complexes* and are then no longer morphologically distinguishable (O'Rahilly R, Müller F. The development of the neural crest in the human. J Anat 2007;211:335-351). The term *neural crest* is here restricted to temporary aggregations of cells derived from the neural folds or tube and the term *neural crest complex* is used when neural crest-like cell are involved.

<sup>288</sup> E5.15.1.0.2.0.5 *Complexus cristae neuralis faciovestibulocochlearis* At Stage 11 some cells from the otic vesicle, representing the primordial vestibular ganglion, attach to the facial neural crest; at Stage 14 afferent fibres to the geniculate ganglion and efferent fibres from the vestibular ganglion distinguish between the two parts; at Stage 15 the smaller primordial cochlear ganglion cells appear and fibres are present at Stage 16.

<b>E5.2.0.0.0.4</b>	Placoda epipharyngea	Epipharyngeal placode
<b>E5.14.3.0.0.4</b>	Placoda dorsolateralis	Dorsolateral placode
<b>E5.15.2.0.0.2</b>	Placoda intermedia	Intermediate placode
<b>E5.15.2.0.0.3</b>	Placoda ventrolateralis	Ventrolateral placode
<b>E5.3.0.0.0.8</b>	Placoda nasalis; Placoda olfactoria <sup>165</sup>	Nasal placode; Nasal disc; Olfactory placode
<b>E5.15.2.0.0.4</b>	Placoda otica	Otic placode; Otic disc
<b>E5.15.2.0.0.5</b>	Fovea otica	Otic pit
<b>E5.15.1.0.0.4</b>	Vesicula otica	Otic vesicle; Otocyst
<b>E5.15.2.0.0.6</b>	Placoda trigeminalis	Trigeminal placode
<b>E5.15.2.0.0.7</b>	Placoda profunda	Placoda profunda
<b>E5.15.2.0.0.8</b>	Placoda facialis	Facial placode
<b>E5.15.3.0.0.1</b>	<b>Nn. olfactorius et vomeronasalis</b>	<b>Olfactory and vomeronasal nerves</b>
<b>E5.15.3.0.0.2</b>	Crista neuralis olfactoria	Olfactory neural crest
<b>E4.0.0.1.2.0.17</b>	Cellula olfactoria praecursoria	Olfactory stem cell
<b>E5.3.0.0.0.8</b>	Placoda nasalis; Placoda olfactoria <sup>165</sup>	Nasal placode; Nasal disc; Olfactory placode
<b>E4.0.3.1.0.0.5</b>	Epithelium olfactorium	Olfactory epithelium
<b>E4.0.3.1.0.0.6</b>	Neuroblastus olfactorius	Olfactory neuroblast
<b>E4.0.3.1.0.0.7</b>	Neuron olfactorium immaturum	Immature olfactory neuron
<b>E4.0.3.1.0.0.8</b>	Epitheliocytus sustentans olfactorius	Olfactory supporting epithelial cell
<b>E5.15.3.0.0.3</b>	Glioblastus olfactorius implicans	Olfactory ensheathing glioblast
<b>E4.0.3.1.0.0.9</b>	Cellula olfactoria implicans; Gliocytus olfactorius implicans	Olfactory ensheathing cell [OEC]; Olfactory ensheathing glial cell
<b>E5.15.3.0.0.4</b>	Fila olfactoria	Olfactory nerves
<b>E5.15.3.0.0.5</b>	Epithelium vomeronasale	Vomeronasal epithelium
<b>E4.0.3.1.0.0.11</b>	Neuroblastus vomeronasalis	Vomeronasal neuroblast
<b>E4.0.3.1.0.0.12</b>	Neuron immaturum vomeronasale	Immature vomeronasal neuron
<b>E5.15.3.0.0.6</b>	Cellula vomeronasalis sustinens	Vomeronasal supporting cell
<b>E5.15.3.0.0.7</b>	Glioblastus vomeronasalis implicans	Vomeronasal ensheathing glioblast
<b>E5.15.3.0.0.8</b>	Cellula vomeronasalis implicans	Vomeronasal ensheathing cell
<b>E5.15.3.0.0.9</b>	N. vomeronasalis	Vomeronasal nerve
<b>E4.0.3.1.0.0.15</b>	Neuroblastus nervi terminalis	Neuroblast of nervus terminalis
<b>E4.0.3.1.0.0.16</b>	Neuron immaturum nervi terminalis	Immature neuron of nervus terminalis
<b>E4.0.3.1.0.0.18</b>	Cellula nervi terminalis implicans; Gliocytus nervi terminalis implicans	Ensheathing cell of terminal nerve; Ensheathing glial cell of terminal nerve
<b>E5.15.3.0.0.10</b>	N. terminalis	Terminal nerve
<b>E5.15.4.0.0.1</b>	<b>Ganglia sensoria</b>	<b>Sensory ganglia</b>
<b>E5.15.4.0.0.2</b>	Ganglioblastus cranialis	Cranial ganglioblast
<b>E5.15.4.0.0.3</b>	Primordia gangliorum craniospinalium sensoriorum	Primordia of craniospinal sensory ganglia
<b>E5.15.4.0.0.4</b>	Primordia gangliorum sensoriorum nervorum cranialium	Primordia of cranial sensory ganglia
<b>E5.15.4.0.0.5</b>	Primordium ganglii trigeminalis	Primordium of trigeminal ganglion
<b>E5.15.4.0.0.6</b>	Ganglioblastus trigeminalis	Trigeminal ganglioblast
<b>E5.15.4.0.0.7</b>	Primordium ganglii geniculi; Primordium ganglii geniculati	Primordium of geniculate ganglion
<b>E5.15.4.0.0.8</b>	Ganglioblastus facialis	Facial ganglioblast
<b>E5.15.4.0.0.9</b>	Primordium ganglii cochleae; Primordium ganglii spiralis cochleae	Primordium of cochlear ganglion; Primordium of spiral ganglion
<b>E5.15.4.0.0.10</b>	Ganglioblastus cochlearis	Cochlear ganglioblast
<b>E5.15.4.0.0.11</b>	Primordium ganglii vestibularis	Primordium of vestibular ganglion
<b>E5.15.4.0.0.12</b>	Ganglioblastus vestibularis	Vestibular ganglioblast
<b>E5.15.4.0.0.13</b>	Primordium ganglii superioris nervi glossopharyngei	Primordium of superior glossopharyngeal ganglion
<b>E5.15.4.0.0.14</b>	Primordium ganglii inferioris nervi glossopharyngei	Primordium of inferior glossopharyngeal ganglion
<b>E5.15.4.0.0.15</b>	Ganglioblastus glossopharyngeus	Glossopharyngeal ganglioblast
<b>E5.15.4.0.0.16</b>	Primordium ganglii superioris nervi vagi	Primordium of superior vagal ganglion
<b>E5.15.4.0.0.17</b>	Primordium ganglii inferioris nervi vagi	Primordium of inferior vagal ganglion
<b>E5.15.4.0.0.18</b>	Ganglioblastus vagalis	Vagal ganglioblast
<b>E5.15.4.0.0.19</b>	Primordia gangliorum sensoriorum nervorum spinalium	Primordia of spinal ganglia; Primordia of dorsal root ganglia

<b>E5.15.4.0.0.0.20</b>	Ganglioblastus spinalis	Spinal ganglioblast
<b>E5.15.4.0.0.0.21</b>	Primordia gangliorum cervicalium	Primordia of cervical ganglia
<b>E5.15.4.0.0.0.22</b>	Primordia gangliorum thoracicorum	Primordia of thoracic ganglia
<b>E5.15.4.0.0.0.23</b>	Primordia gangliorum lumbalium	Primordia of lumbar ganglia
<b>E5.15.4.0.0.0.24</b>	Primordia gangliorum sacralium	Primordia of sacral ganglia
<b>E5.15.4.0.0.0.25</b>	Primordia gangliorum coccygeorum	Primordia of coccygeal ganglia
<b>E5.15.4.0.0.0.26</b>	Neuron immaturum sensorium	Immature sensory neuron
<b>E5.15.4.0.0.0.27</b>	Neuron immaturum bipolare periphericum	Immature peripheral bipolar neuron
<b>E5.14.2.1.0.2.13</b>	Neuron immaturum unipolare	Immature unipolar neuron
<b>E5.15.4.0.0.0.28</b>	Neuron afferens	Afferent neuron
<b>E5.15.4.0.0.0.29</b>	Neuron unipolare; Neuron pseudounipolare	Unipolar neuron; Pseudounipolar neuron
<b>E5.15.4.0.0.0.30</b>	Processus centralis	Central process
<b>E5.15.4.0.0.0.31</b>	Processus periphericus	Peripheral process
<b>E5.15.4.0.0.0.32</b>	Neuron immaturum craniale	Immature cranial neuron
<b>E5.15.4.0.0.0.33</b>	Neuron immaturum afferens somaticum speciale	Immature special somatic afferent neuron
<b>E5.15.4.0.0.0.34</b>	Neuron immaturum afferens somaticum commune	Immature general somatic afferent neuron
<b>E5.15.4.0.0.0.35</b>	Neuron immaturum afferens pharyngeum	Immature pharyngeal afferent neuron; Immature special visceral afferent neuroblast
<b>E5.15.4.0.0.0.36</b>	Neuron immaturum afferens viscerale commune	Immature general visceral afferent neuron
<b>E5.15.4.0.0.0.37</b>	Neuron immaturum sensorium nervi oculomotorii	Immature sensory neuron of oculomotor nerve
<b>E5.15.4.0.0.0.38</b>	Neuron immaturum sensorium nervi trochlearis	Immature sensory neuron of trochlear nerve
<b>E5.15.4.0.0.0.39</b>	Neuron immaturum sensorium nervi abducentis	Immature sensory neuron of abducens nerve
<b>E5.15.4.0.0.0.40</b>	Neuron immaturum sensorium nervi hypoglossi	Immature sensory neuron of hypoglossal nerve §Froriep§
<b>E5.15.4.0.0.0.41</b>	Neuron immaturum sensorium nervi accessorii spinalis	Immature sensory neuron of spinal accessory nerve
<b>E5.15.4.0.0.0.42</b>	Neuron immaturum spinalis	Immature spinal neuron
<b>E5.15.4.0.0.0.43</b>	Neuron immaturum radices posterioris; Neuron immaturum sensorium; Neuron immaturum radices dorsalis	Immature posterior root neuron; Immature sensory root neuron; Immature dorsal root neuron
<b>E5.15.4.0.0.0.44</b>	Neuron immaturum afferens somaticum	Immature somatic afferent neuron
<b>E5.15.4.0.0.0.45</b>	Neuron immaturum afferens viscerale	Immature visceral afferent neuron
<b>E5.15.4.0.0.0.46</b>	Neuron sensorium	Sensory neuron
<b>E5.15.4.0.0.0.47</b>	Terminatio neuralis sensoria	Sensory nerve ending
<b>E5.15.4.0.0.0.48</b>	Terminatio neuralis libera	Free nerve ending
<b>E5.15.4.0.0.0.49</b>	Neuron afferens chemodifferentiatum	Chemodifferentiated afferent neuron
<b>E5.15.4.0.0.0.50</b>	Glioblastus ganglionaris spinalis implicans	Spinal ganglion ensheathing blast cell
<b>E5.14.2.0.0.1.12</b>	<b>Motoneuron; Neuron motorium</b>	<b>Motor neuron</b>
<b>E5.15.5.0.0.0.1</b>	Neuron immaturum efferens somaticum	Immature somatic efferent neuron
<b>E5.15.5.0.0.0.2</b>	Neuron motorium non maturum	Immature motor neuron
<b>E5.15.5.0.0.0.3</b>	Neuron efferens	Efferent neuron
<b>E5.14.2.0.0.1.12</b>	Motoneuron; Neuron motorium	Motor neuron
<b>E5.15.5.0.0.0.4</b>	Motoneuron $\alpha$ ; Neuron efferens $\alpha$	$\alpha$ motoneuron; $\alpha$ efferent neuron
<b>E5.15.5.0.0.0.5</b>	Motoneuron $\gamma$ ; Neuron efferens $\gamma$	$\gamma$ motoneuron ; $\gamma$ efferent neuron
<b>E5.15.5.0.0.0.6</b>	Junctio neuromuscularis; Synapsis neuromuscularis	Neuromuscular junction; Neuromuscular synapse; Motor end plate
<b>E5.15.5.0.0.0.7</b>	Neuron immaturum efferens viscerale commune	Immature general visceral efferent neuron
<b>E5.15.5.0.0.0.8</b>	Neuron immaturum efferens pharyngeale	Immature special visceral efferent neuron
<b>E5.15.5.0.0.0.9</b>	Neuron immaturum efferens somaticum commune	Immature general somatic efferent neuron
<b>E5.14.2.1.0.3.2</b>	<b>Axon</b> <sup>289</sup>	<b>Axon</b>

<sup>289</sup> E5.14.2.1.0.3.2/ E5.15.7.0.0.0.1 Axon/Neurofibræ Axon refers to the axonal process only. Fibre or neurofibræ refers to the combination of axon and Schwann cell. Thus, the terms myelinated fibre, nonmyelinated fibre and promyelin or promyelin fibre include both axon(s) and Schwann cell(s).

<b>E5.15.6.0.0.0.1</b>	Axon ramificatum	Branched axon
<b>E5.15.6.0.0.0.2</b>	Telodendron	Terminal arborization
<b>E5.15.6.0.0.0.3</b>	Axon explorans	Pathfinder axon
<b>E5.15.6.0.0.0.4</b>	Axon bifurcatum; Bifurcatio axonalis	Bifurcated axon
<b>E5.15.6.0.0.0.5</b>	Conus crescentiae axonis	Axon growth cone
<b>E5.15.6.0.0.0.6</b>	Fasciculus axonium	Axon bundle
<b>E5.15.7.0.0.0.1</b>	<b>Neurofibra<sup>289</sup></b>	<b>Nerve fibre<sup>▲</sup></b>
<b>E5.15.7.0.0.0.2</b>	Neurofibra peripherica	Peripheral nerve fibre <sup>▲</sup>
<b>E5.15.7.0.0.0.3</b>	Neurofibra afferens	Afferent nerve fibre; Sensory nerve fibre <sup>▲</sup>
<b>E5.15.7.0.0.0.4</b>	Neurofibra efferens	Efferent nerve fibre; Motor nerve fibre <sup>▲</sup>
<b>E5.15.7.0.0.0.5</b>	Fasciculus neurofibrarum	Nerve fibre bundle <sup>▲</sup>
<b>E5.15.8.0.0.0.1</b>	<b>Partes nervi peripherici<sup>274</sup></b>	<b>Elements of peripheral nerve</b>
<b>E5.15.8.0.0.0.2</b>	N. periphericus	Peripheral nerve
<b>E5.15.8.0.0.0.3</b>	N. cranialis	Cranial nerve
<b>E5.15.8.0.0.0.4</b>	Radicula motoria	Motor rootlet
<b>E5.15.8.0.0.0.5</b>	Radicula sensoria	Sensory rootlet
<b>E5.15.8.0.0.0.6</b>	Radix motoria	Motor root
<b>E5.15.8.0.0.0.7</b>	Radix sensoria	Sensory root
<b>E5.15.8.0.0.0.8</b>	N. spinalis segmentalis	Segmental spinal nerve
<b>E5.15.8.0.0.0.9</b>	Radicula ventralis; Radicula motoria; Radicula anterior	Ventral rootlet; Motor rootlet; Anterior rootlet
<b>E5.15.8.0.0.0.10</b>	Radicula dorsalis; Radicula posterior	Dorsal rootlet; Posterior rootlet
<b>E5.15.8.0.0.0.11</b>	Radix ventralis; Radix motoria; Radix anterior	Ventral root; Motor root; Anterior root
<b>E5.15.8.0.0.0.12</b>	Radix dorsalis; Radix posterior	Dorsal root; Posterior root
<b>E5.15.8.0.0.0.13</b>	Cauda equina	Cauda equina
<b>E5.15.8.0.0.0.14</b>	R. nervosus motorius; N. motorius; R. muscularis	Motor branch; Motor nerve; Muscular branch
<b>E5.15.8.0.0.0.15</b>	R. nervosus sensorius; N. sensorius	Sensory branch; Sensory nerve
<b>E5.15.8.0.0.0.16</b>	R. nervosus mixtus	Mixed branch
<b>E5.15.8.0.0.0.17</b>	Truncus nervi spinalis	Trunk of spinal nerve
<b>E5.15.8.0.0.0.18</b>	Rr. nervi spinalis	Spinal nerve branches
<b>E5.15.8.0.0.0.19</b>	R. dorsalis; R. posterior	Dorsal ramus; Posterior ramus
<b>E5.15.8.0.0.0.20</b>	R. ventralis; R. anterior	Ventral ramus; Anterior ramus
<b>E5.15.8.0.0.0.21</b>	Plexus nervorum spinalium	Spinal nerve plexus
<b>E5.15.8.0.0.0.22</b>	Plexus cervicalis	Cervical plexus
<b>E5.15.8.0.0.0.23</b>	Plexus brachialis	Brachial plexus
<b>E5.15.8.0.0.0.24</b>	Plexus lumbosacralis	Lumbosacral plexus
<b>E5.15.8.0.0.0.25</b>	Plexus lumbalis	Lumbar plexus
<b>E5.15.8.0.0.0.26</b>	Plexus sacralis	Sacral plexus
<b>E5.15.8.0.0.0.27</b>	Plexus coccygeus	Coccygeal plexus
<b>E5.15.8.0.0.0.28</b>	Plexus dorsalis	Dorsal plexus
<b>E5.15.9.0.0.0.1</b>	<b>Locus transitionis inter systema nervosum centrale et systema nervosum periphericum</b>	<b>CNS – PNS transitional zone [TZ]</b>
<b>E5.15.9.0.0.0.2</b>	Glia limitans praesumptiva	Presumptive glia limitans; Presumptive external limiting membrane
<b>E5.15.9.0.0.0.3</b>	Projectus textus centralis	Central tissue projection
<b>E5.15.9.0.0.0.4</b>	Locus ingressiois radialis dorsalis; Locus ingressiois radialis posterioris	Dorsal root entry zone [DREZ]; Posterior root entry zone
<b>E5.15.9.0.0.0.5</b>	Taenia conexa radialis dorsalis; Taenia conexa radialis posterioris	Dorsal rootlet attachment zone; Posterior rootlet attachment zone
<b>E5.15.9.0.0.0.6</b>	Locus transitionis radialis ventralis; Locus transitionis radialis motoriae; Locus transitionis radialis anterioris	Ventral root transitional zone; Motor root transitional zone; Anterior root transitional zone
<b>E5.15.9.0.0.0.7</b>	Punctum egressus ventralis; Punctum egressus motorium; Punctum egressus anterior	Ventral rootlet exit point; Motor rootlet exit point ; Anterior rootlet exit point

<b>E5.15.9.0.0.0.8</b>	Taenia egressus radiculae ventralis; Taenia egressus radiculae motoriae; Taenia egressus radiculae anterioris	Ventral rootlet exit zone; Motor rootlet exit zone; Anterior rootlet exit zone
<b>E5.15.9.0.0.0.9</b>	Acervatio cellularum ad radiculam ventralem; Acervatio cellularum ad radiculam motoriam; Acervatio cellularum ad radiculam anteriorem <sup>290</sup>	Ventral rootlet cell cluster; Motor rootlet cell cluster; Anterior rootlet cell cluster
<b>E5.15.9.0.0.0.10</b>	Cellula pilleoli liminis	Boundary cap cell
<b>E5.15.10.0.0.0.1</b>	<b>Gliocyti peripherici</b> <sup>291</sup>	<b>Peripheral glial cells</b>
<b>E5.15.10.0.0.0.2</b>	Linea generationis schwannocytorum	Schwann cell lineage
<b>E5.15.1.0.4.0.5</b>	Schwannoblastus; Schwannocytus primordialis	Schwannoblast; Primordial Schwann cell
<b>E5.15.10.0.0.0.3</b>	Schwannocytus non maturus	Immature Schwann cell
<b>E5.15.10.0.0.0.4</b>	Schwannocytus perifascicularis epithelioidalis <sup>292</sup>	Perifascicular epithelioid Schwann cell
<b>E5.15.10.0.0.0.5</b>	Schwannocytus segregans <sup>291</sup>	Segregating Schwann cell
<b>E5.15.10.0.0.0.6</b>	Schwannocytus involvens <sup>291</sup>	Ensheathing schwann cell
<b>E5.15.10.0.0.0.7</b>	Schwannocytus maturus <sup>291</sup>	Mature Schwann cell
<b>E5.15.10.0.0.0.8</b>	Lamina basalis schwannocytii; Lamina basalis strati endoneurialis	Schwann cell basal lamina; Endoneurial layer basal lamina
<b>E5.15.10.0.0.0.9</b>	Schwannocytus non myelinopoieticus <sup>291</sup>	Nonmyelinating Schwann cell
<b>E5.15.10.0.0.0.10</b>	Schwannocytus myelinopoieticus <sup>291</sup>	Myelinating Schwann cell
<b>E5.15.10.0.0.0.11</b>	Schwannocytus praemyelinatus; Schwannocytus promyelinatus <sup>291</sup>	Premyelinating Schwann cell; Promyelinating Schwann cell
<b>E5.15.10.0.0.0.12</b>	Schwannocytus isolatus <sup>291</sup>	Isolated Schwann cell
<b>E5.15.10.0.0.0.13</b>	Schwannocytus terminalis; Cellula teloglialis <sup>291</sup>	Terminal Schwann cell; Terminal glial cell
<b>E5.15.4.0.0.0.50</b>	Glioblastus ganglionaris spinalis impicans; Glioblastus ganglionaris radialis dorsalis impicans	Dorsal root ganglion ensheathing blast cell; Spinal ganglion ensheathing blast cell
<b>E5.15.11.0.0.0.1</b>	<b>Myelinisatio</b>	<b>Myelination</b>
<b>E5.15.11.0.0.0.2</b>	Schwannocytus uniaxonalis <sup>293</sup>	Uniaxonal Schwann cell
<b>E5.15.11.0.0.0.3</b>	Segmentum axonis	Axon segment
<b>E5.15.11.0.0.0.4</b>	Neurofibra non myelinata <sup>289</sup>	Nonmyelinated fibre <sup>▲</sup>
<b>E5.15.11.0.0.0.5</b>	Neurofibra praemyelinata; Neurofibra promyelinata <sup>289</sup>	Premyelinated fibre; Promyelinated fibre <sup>▲</sup>
<b>E5.15.11.0.0.0.6</b>	Mesaxon	Mesaxon
<b>E5.15.11.0.0.0.7</b>	Extensio mesaxonis	Mesaxonal elongation
<b>E5.15.11.0.0.0.8</b>	Spiralisatio mesaxonis	Spiralisation of mesaxon
<b>E5.15.11.0.0.0.9</b>	Inceptio myelinopoesis	Onset of myelination
<b>E3.0.4.0.0.1</b>	Compactio	Compaction
<b>E5.15.11.0.0.0.10</b>	Extrusum cytoplasmatis schwannocytii	Extrusion of Schwann cell cytoplasm
<b>E5.15.11.0.0.0.11</b>	Myelinum condensum; Myelinum compactum	Compact myelin
<b>E5.15.11.0.0.0.12</b>	Neurofibra myelinata; Neurofibra myelinata peripherica	Myelinated fibre; Peripheral myelinated fibre <sup>▲</sup>
<b>E5.15.11.0.0.0.13</b>	Mesaxon externum	External mesaxon
<b>E5.15.11.0.0.0.14</b>	Mesaxon internum	Internal mesaxon
<b>E5.15.11.0.0.0.15</b>	Lamella myelini; Stratum myelini	Myelin lamella; myelin layer
<b>E5.15.11.0.0.0.16</b>	Linea densa major	Major dense line
<b>E5.15.11.0.0.0.17</b>	Linea densa minor	Minor dense line

<sup>290</sup> E5.15.9.0.0.0.9 *Acervatio cellularum ad radiculam ventraliam; Acervatio cellularum ad radiculam motoriam; Acervatio cellularum ad radiculam anteriorem* Ventral rootlet cell clusters are clusters of cells that differentiate into Schwann cells that ensheath and eventually myelinate the axons of the ventral rootlet.

<sup>291</sup> E5.15.10.0.0.0.1 *Gliocyti periphericae* The term *Schwann cell* is now almost universally ascribed to the PNS ensheathing cell. Terms including the stem *neurolemm-* are now rarely used. The term *endoneurial sheath* applies to the basal lamina of the Schwann cell and the collagenous sheath surrounding it. Inside that is the *nerve fibre*, defined as the axon(s) and the surrounding Schwann cell(s).

<sup>292</sup> E5.15.10.0.0.0.4 *Schwannocytus perifascicularis epithelioidalis* Schwann cell precursors initially form a cellular sheath around axon bundles (*perifascicular epithelioid Schwann cells*). They then invade and partition the axon bundles (*segregating Schwann cells*). Segregation is completed when a Schwann cell has completely surrounded the presumptively myelinated axon or the presumptively nonmyelinated axon bundle (*ensheathing Schwann cells*).

<sup>293</sup> E5.15.11.0.0.0.2 *Schwannocytus uniaxonalis* As a prerequisite for myelination each Schwann cell enfolds only one axon segment.

<b>E5.15.11.0.0.0.18</b>	Segmentum internodale	Internode; internodal segment
<b>E5.15.11.0.0.0.19</b>	Incrementum manicae myelini	Myelin sheath growth
<b>E5.15.11.0.0.0.20</b>	Formatio nodi; Formatio nodi interruptionis myelini	Node development §Ranvier§
<b>E5.15.11.0.0.0.21</b>	Segregatio canalium ionicorum <sup>294</sup>	Ion channel segregation
<b>E5.15.11.0.0.0.22</b>	Fissura nodalis	Node gap
<b>E5.15.11.0.0.0.23</b>	Substantia fissurae nodalis	Node gap substance
<b>E5.15.11.0.0.0.24</b>	Paranodus	Paranode; paranodal region
<b>E5.15.11.0.0.0.25</b>	Heminodus	Heminode
<b>E5.15.11.0.0.0.26</b>	Pes terminalis; Infundibulum paranodale	End-foot; paranodal pocket
<b>E5.15.11.0.0.0.27</b>	Segmentum juxtannodale	Juxtannodal segment
<b>E5.15.11.0.0.0.28</b>	Microvilli schwannocytii	Schwann cell microvilli
<b>E5.15.11.0.0.0.29</b>	Attenuatio axonis	Axon attenuation
<b>E5.15.11.0.0.0.30</b>	Densitas subaxolemmalis	Subaxolemmal density
<b>E5.15.12.0.0.0.1</b>	<b>Formatio unitatis motoriae</b>	<b>Motor unit development</b>
<b>E5.15.12.0.0.0.2</b>	Axon appositum ad scopum; Axon appositum ad musculum	Axon-target contact; axon–muscle contact
<b>E5.15.12.0.0.0.3</b>	Synaptogenesis	Synaptogenesis
<b>E5.15.12.0.0.0.4</b>	Eliminatio synapsium superfluarum <sup>295</sup>	Elimination of superfluous synapses
<b>E5.15.12.0.0.0.5</b>	Competitio synaptica	Synaptic competition
<b>E5.15.12.0.0.0.6</b>	Synapsis neuromuscularis; Junctio neuromuscularis	Neuromuscular junction; Neuromuscular synapse
<b>E5.15.13.0.0.0.1</b>	<b>Pars autonoma systematis nervosi peripherici</b>	<b>Autonomic part of peripheral nervous system</b>
<b>E5.0.2.1.0.0.2</b>	Crista neuralis	Neural crest
<b>E5.15.4.0.0.0.36</b>	Neuron immaturum afferens viscerale commune	Immature general visceral afferent neuron
<b>E5.15.13.0.1.0.1</b>	<b>Pars visceromotoria systematis nervosi peripherici</b>	<b>Visceromotor system</b>
<b>E4.0.3.5.1.3.2</b>	Linea generationis cellularum sympathicosuprarenalium	Sympathosuprarenal cell lineage; Sympatho-adrenal cell lineage
<b>E5.15.13.0.1.0.2</b>	Ganglion autonomicum	Autonomic ganglion
<b>E5.15.13.0.2.0.1</b>	<b>Primordia gangliorum autonomicorum</b>	<b>Primordia of autonomic ganglia</b>
<b>E5.15.13.0.2.0.2</b>	Ganglioblastus autonomicus	Autonomic ganglioblast
<b>E5.15.13.0.2.0.3</b>	Ganglion sympathicum	Sympathetic ganglion
<b>E5.15.13.0.3.0.1</b>	<b>Primordia gangliorum sympathicorum</b>	<b>Primordia of sympathetic ganglia</b>
<b>E5.15.13.0.3.0.2</b>	Primordia gangliorum trunci sympathici	Primordia of sympathetic trunk ganglia
<b>E5.15.13.0.3.0.3</b>	Primordium ganglii cervicalis superioris	Primordium of superior cervical ganglion
<b>E5.15.13.0.3.0.4</b>	Primordium ganglii cervicalis medii	Primordium of middle cervical ganglion
<b>E5.15.13.0.3.0.5</b>	Primordium ganglii cervicalis inferioris	Primordium of inferior cervical ganglion
<b>E5.15.13.0.3.0.6</b>	Primordium ganglii cervicothoracici; Primordium ganglii stellati	Primordium of cervicothoracic ganglion; Primordium of stellate ganglion
<b>E5.15.4.0.0.0.22</b>	Primordia gangliorum thoracorum	Primordia of thoracic ganglia
<b>E5.15.4.0.0.0.23</b>	Primordia gangliorum lumbalium	Primordia of lumbar ganglia
<b>E5.15.4.0.0.0.24</b>	Primordia gangliorum sacralium	Primordia of sacral ganglia
<b>E5.15.13.0.3.0.7</b>	Primordium ganglii imparis	Primordium of ganglion impar
<b>E5.15.13.0.3.0.8</b>	Primordia gangliorum sympathicorum visceralium	Primordia of sympathetic visceral ganglia
<b>E4.0.3.5.1.3.7</b>	Ganglion parasymphaticum	Parasympathetic ganglion
<b>E5.15.13.0.4.0.1</b>	<b>Primordia gangliorum parasymphaticorum</b>	<b>Primordia of parasymphatic ganglia</b>

<sup>294</sup> E5.15.11.0.0.0.21 *Segregatio canalium ionicorum* Sodium and potassium channels are segregated into complementary membrane domains in the earliest stages of formation of nodes of Ranvier (Waxman SG, Ritchie JM. Organisation of ion channels in the myelinated nerve fiber. Science 1985;228:1502-1507).

<sup>295</sup> E5.15.12.0.0.0.4 *Eliminatio synapsium superfluarum* In developing mammalian skeletal muscle several axons innervate a single motor end-plate. This polyneuronal innervation is lost in early postnatal life as inactive motor neurons degenerate (Jordan C L. Ciliary neurotrophic factor may act in target musculature to regulate developmental synapse elimination. Dev Neurosci 1996;18:185-198; Favero M, Lorenzetto E, Bidoia C, Buffelli M, Busetto G, Cangiano A. Synapse formation and elimination: role of activity studied in different models of adult muscle reinnervation. J Neurosci Res 2007 Sep;85(12):2610-9.

<b>E5.15.13.0.4.0.2</b>	Primordium ganglii terminalis	Primordium of terminal ganglion
<b>E5.15.13.0.4.0.3</b>	Primordium ganglii ciliaris	Primordium of ciliary ganglion
<b>E5.15.13.0.4.0.4</b>	Primordia gangliorum episcleralium	Primordia of episcleral ganglia
<b>E5.15.13.0.4.0.5</b>	Primordium ganglii pterygopalatini	Primordium of pterygopalatine ganglion
<b>E5.15.13.0.4.0.6</b>	Primordium ganglii submandibularis	Primordium of submandibular ganglion
<b>E5.15.13.0.4.0.7</b>	Primordium ganglii sublingualis	Primordium of sublingual ganglion
<b>E5.15.13.0.4.0.8</b>	Primordium ganglii otici	Primordium of otic ganglion
<b>E5.15.13.0.4.0.9</b>	Primordia gangliorum pelvicorum	Primordia of pelvic ganglia
<b>E5.15.13.0.4.0.10</b>	Primordia gangliorum visceralium	Primordia of visceral ganglia
<b>E5.15.13.0.4.0.11</b>	Neuron autonomicum	Autonomic neuron
<b>E5.15.13.0.5.0.1</b>	<b>Blasti autonomici</b>	<b>Autonomic blast cells</b>
<b>E5.15.13.0.2.0.2</b>	Ganglioblastus autonomicus	Autonomic ganglioblast
<b>E5.15.13.0.5.0.2</b>	Ganglioblastus sympathicus	Sympathetic ganglioblast
<b>E5.15.13.0.5.0.3</b>	Neuron immaturum sympathicum praeganglionare	Preganglionic sympathetic neuron
<b>E5.15.13.0.5.0.4</b>	Neuron immaturum sympathicum postganglionare; Sympathoblastus	Postganglionic sympathetic neuron; Sympathoblast
<b>E5.15.13.0.5.0.5</b>	Sympathoblastus parvus	Small sympathoblast
<b>E5.15.13.0.5.0.6</b>	Sympathoblastus intermedius	Intermediate sympathoblast
<b>E5.15.13.0.5.0.7</b>	Sympathoblastus magnus	Large sympathoblast
<b>E5.14.2.0.0.1.13</b>	Interneuron	Interneuron
<b>E5.15.13.0.5.0.8</b>	Neuron immaturum parasympathicum praeganglionare; Parasympathoblastus	Preganglionic parasympathetic neuron
<b>E5.15.13.0.5.0.9</b>	Ganglioblastus parasympathicus	Parasympathetic ganglioblast
<b>E5.15.13.0.5.0.10</b>	Neuron immaturum parasympathicum postganglionare; Parasympathoblastus	Postganglionic parasympathetic neuron; Parasympathoblast
<b>E5.15.13.0.5.0.11</b>	Glioblastus ganglionaris autonomicus	Autonomic ganglion-ensheathing blast cell
<b>E5.15.13.0.5.0.12</b>	Capsula ganglii	Ganglionic capsule
<b>E5.15.13.0.5.0.13</b>	Stroma ganglii	Stroma of ganglion
<b>E5.10.5.2.0.0.2</b>	Primordium medullae glandulae suprarenalis	Primordium of medulla of suprarenal gland
<b>E5.15.13.0.5.0.14</b>	Medulloblastus suprarenalis	Suprarenal medulloblast
<b>E5.15.13.0.5.0.15</b>	Paraganglion	Paraganglion
<b>E5.15.13.0.5.0.16</b>	Phaeochromocytoblastus	Phaeochromocytoblast
<b>E5.15.13.0.5.0.17</b>	Blastus cellulae sympathochromaffinae	Sympathochromaffin blast cell
<b>E5.15.13.0.5.0.18</b>	Neuron autonomicum chemodifferentiatum	Chemodifferentiated autonomic neuron
<b>E5.15.13.0.6.0.1</b>	<b>Axona et fasciculi autonomici</b>	<b>Autonomic axons and fasciculi</b>
<b>E5.15.13.0.6.0.2</b>	Truncus sympathicus	Sympathetic trunk
<b>E5.15.13.0.6.0.3</b>	R. interganglionicus	Interganglionic branch
<b>E5.15.13.0.6.0.4</b>	Primordium trunci sympathici	Primordium of sympathetic trunk
<b>E5.15.13.0.6.0.5</b>	Axon praeganglionicum	Preganglionic axon
<b>E5.15.13.0.6.0.6</b>	Neurofibra praeganglionica	Preganglionic nerve fibre <sup>▲</sup>
<b>E5.15.13.0.6.0.7</b>	R. communicans albus	White ramus communicans
<b>E5.15.13.0.6.0.8</b>	Axon postganglionicum	Postganglionic axon
<b>E5.15.13.0.6.0.9</b>	Neurofibra postganglionica	Postganglionic nerve fibre <sup>▲</sup>
<b>E5.15.13.0.6.0.10</b>	Neurofibra autonómica	Autonomic nerve fibre <sup>▲</sup>
<b>E5.15.13.0.6.0.11</b>	R. communicans griseus	Grey ramus communicans <sup>▲</sup>
<b>E5.15.13.0.6.0.12</b>	Plexus sympathicus	Sympathetic plexus
<b>E5.15.13.0.6.0.13</b>	Plexus autonomicus	Autonomic plexus
<b>E5.15.13.0.1.0.2</b>	Ganglion autonomicum	Autonomic ganglion
<b>E5.15.14.0.0.0.1</b>	<b>Systema nervosum entericum</b>	<b>Enteric nervous system</b>
<b>E5.0.2.1.0.0.2</b>	Crista neuralis	Neural crest
<b>E5.15.14.0.0.0.2</b>	Ganglioblastus entericus	Enteric ganglioblast
<b>E5.15.14.0.0.0.3</b>	Neuron immaturum entericum	Immature enteric neuron
<b>E4.0.3.5.0.2.11</b>	Plexus entericus ganglionaris	Ganglionic enteric plexus; Enteric nerve plexus
<b>E4.0.3.5.0.2.12</b>	Plexus nervosus myentericus	Myenteric plexus §Auerbach§
<b>E4.0.3.5.0.2.13</b>	Plexus nervosus submucosus externus	Outer submucous plexus §Schabadasch§
<b>E4.0.3.5.0.2.14</b>	Plexus nervosus submucosus internus	Inner submucous plexus §Meissner§
<b>E5.15.14.0.0.0.4</b>	Glioblastus entericus; Cellula implicans enterica	Enteric glioblast; Enteric ensheathing cell

<b>E5.15.14.0.0.0.5</b>	Glia enterica	Enteric glia
<b>E4.0.3.5.0.2.16</b>	Gliocyty entericus	Enteric glial cell
<b>E4.0.3.5.0.2.10</b>	Ganglion entericum	Enteric ganglion
<b>E4.0.3.5.0.2.15</b>	Plexus entericus aganglionaris	Aganglionic enteric plexus
<b>E5.15.15.0.0.0.1</b>	<b>Textus connectivus nervi peripherici</b>	<b>Connective tissue of peripheral nerve</b>
<b>E5.0.2.1.0.0.2</b>	Crista neuralis	Neural crest
<b>E4.0.4.1.0.0.5</b>	Ectomesenchyma; Mesenchyma cristae neuralis	Ectomesenchyme; Neural crest mesenchyme
<b>E4.0.4.1.0.0.2</b>	Mesenchyma somiticum	Somitic mesenchyme
<b>E5.15.15.0.0.0.2</b>	Mesenchyma dermatomyotomiale	Dermatomyotomal mesenchyme
<b>E4.0.4.1.0.0.3</b>	Mesenchyma somatopleurale <sup>206</sup>	Somatopleuric mesenchyme
<b>E4.0.4.1.0.0.4</b>	Mesenchyma splanchnopleurale <sup>207</sup>	Splanchnopleuric mesenchyme
<b>E5.2.0.3.2.0.2</b>	Ectoderma embryonicum anuli umbilicalis <sup>134</sup>	Embryonic ectoderm of umbilical ring
<b>E4.0.4.1.0.0.6</b>	Mesenchyma ex eminentia caudale	Mesenchyme from caudal eminence
<b>E5.15.15.0.0.0.3</b>	Endoneurium	Endoneurium
<b>E5.15.15.0.0.0.4</b>	Epineurium	Epineurium
<b>E5.15.15.0.0.0.5</b>	Perineurium	Perineurium
<b>E5.13.2.0.0.0.2</b>	Fibroblastus	Fibroblast
<b>E5.15.15.0.0.0.6</b>	Fibroblastus endoneuralis <sup>296</sup>	Endoneurial fibroblast
<b>E5.15.15.0.0.0.7</b>	Fibroblastus epineuralis <sup>296</sup>	Epineurial fibroblast
<b>E5.15.15.0.0.0.8</b>	Fibroblastus perineuralis <sup>296</sup>	Perineurial fibroblast
<b>E5.15.15.0.0.0.9</b>	Vagina endoneuralis	Endoneurial sheath
<b>E5.15.15.0.0.0.10</b>	Lamina basalis vaginae endoneuralis	Endoneurial sheath basal lamina
<b>E5.15.15.0.0.0.11</b>	Perineurioblastus	Perineurial blast cell
<b>E5.15.15.0.0.0.12</b>	Perineuriocytus	Perineurial cell
<b>E5.11.2.3.0.0.10</b>	Macrophagocytus <sup>297</sup>	Macrophage
<b>E5.15.15.0.1.0.1</b>	<b>Anomaliae systematis nervosi peripherici</b>	<b>Anomalies of peripheral nervous system</b>
<b>E5.15.15.0.1.0.2</b>	Hypomyelinisatio congenita <sup>298</sup>	Congenital hypomyelination
<b>E5.15.15.0.1.0.3</b>	Polyneuropathia congenita hypomyelinisatione	Congenital hypomyelinating polyneuropathy §Déjérine-Sottas§
<b>E5.15.15.0.1.0.4</b>	Dysmyelinisatio	Dysmyelination
<b>E5.15.15.0.1.0.5</b>	Neuropathia peripherica congenita	Hereditary peripheral neuropathy
<b>E5.15.15.0.1.0.6</b>	Neuropathiae motoriae et sensoriae congenitae	Hereditary motor and sensory neuropathies §Charcot-Marie-Tooth§
<b>E5.3.0.0.2.1.6</b>	Paralysis congenita abducentofacialis	Congenital abducens-facial paralysis §Möbius§
<b>E5.15.15.0.1.0.7</b>	Atrophia neuronii motorii congeniti	Congenital motor neuron atrophy
<b>E5.15.15.0.1.0.8</b>	Neuronopathia motoria hereditaria	Hereditary motor neuronopathy §Werdnig-Hoffmann§
<b>E5.15.15.0.1.0.9</b>	Atrophia infantilis spinalis musculorum acuta	Acute infantile spinal muscular atrophy §Werdnig-Hoffmann§
<b>E5.15.15.0.1.0.10</b>	Agenesis nervi peripherici	Agenesis of peripheral nerve
<b>E5.15.15.0.1.0.11</b>	Agenesis nervi cranialis	Cranial nerve agenesis
<b>E5.15.15.0.1.0.12</b>	Agenesis nervi spinalis	Spinal nerve agenesis
<b>E5.15.15.0.1.0.13</b>	Hypoplasia nervi peripherici	Hypoplasia of peripheral nerve
<b>E5.15.15.0.1.0.14</b>	Hypoplasia nervi cranialis	Cranial nerve hypoplasia
<b>E5.1.1.0.4.1.9</b>	Hypoplasia nervi spinalis	Spinal nerve hypoplasia
<b>E5.1.1.0.2.6.1</b>	<b>Anomaliae crescentiae</b>	<b>Growth anomalies</b>
<b>E5.15.15.0.1.1.1</b>	N. periphericus duplicatus	Duplicated peripheral nerve
<b>E5.15.15.0.1.1.2</b>	N. periphericus triplicatus	Tripllicated peripheral nerve
<b>E5.15.15.0.1.1.3</b>	N. periphericus plexiformis	Plexiform peripheral nerve

<sup>296</sup> E5.15.15.0.0.0.6/ E5.15.15.0.0.0.7/ E5.15.15.0.0.0.8 *Fibroblastus endoneuralis/ Fibroblastus epineuralis/ Fibroblastus perineuralis* Only endoneurial fibroblasts are now believed to be derived solely from neural crest cells: epineurial and perineurial fibroblasts may be of mixed lineage (Joseph NM, Mukoyama YS, Mosher JT, Jaegle M, Crone SA, Dormand EL, Lee KF, Meijer D, Anderson DJ, Morrison SJ. Neural crest cells undergo multilineage differentiation in developing peripheral nerves to generate endoneurial fibroblasts in addition to Schwann cells. Development 2004;131:5599-5612).

<sup>297</sup> E5.11.2.3.0.0.10 *Macrophagocytus* The macrophages of peripheral nerve connective tissue are not derived from the neural crest.

<sup>298</sup> E5.15.15.0.1.0.2 *Hypomyelinisatio congenita* In congenital hypomyelination there is impairment of elements of the myelination process, including segregation, ensheathment and myelin formation.



<b>E5.15.15.0.1.1.4</b>	Conexus abnormalis inter nervos periphericos	Anomalous connection between peripheral nerves
<b>E5.15.15.0.1.1.5</b>	Distributio abnormalis fascis neurofibrarum spinalium segmentalium	Anomalous spinal segmental fibre bundle distribution
<b>E5.15.15.0.1.1.6</b>	Cursus abnormalis nervi peripherici	Anomalous peripheral nerve course
<b>E5.15.15.0.1.1.7</b>	Dislocatio congenita nervi peripherici	Congenital peripheral nerve displacement
<b>E5.15.15.0.1.1.8</b>	Dislocatio plexus	Plexus displacement
<b>E5.15.15.0.1.1.9</b>	Praefixatio plexus brachialis	Brachial plexus prefixation
<b>E5.15.15.0.1.1.10</b>	Postfixatio plexus brachialis	Brachial plexus postfixation
<b>E5.15.15.0.1.1.11</b>	Praefixatio plexus lumbosacralis	Lumbosacral plexus prefixation
<b>E5.15.15.0.1.1.12</b>	Postfixatio plexus lumbosacralis	Lumbosacral plexus postfixation
<b>E5.15.15.0.2.0.1</b>	<b>Anomaliae systematis nervosi enterici</b>	<b>Enteric nervous system anomalies</b>
<b>E5.15.15.0.2.0.2</b>	Dysautonomia familiaris <sup>299</sup>	Familial dysautonomia §Riley Day§
<b>E5.15.15.0.2.0.3</b>	Dysplasia neuronalis intestinalis	Intestinal neuronal dysplasia
<b>E5.4.8.0.1.0.20</b>	Absentia systematis nervosi enterici post duodenalis	Absence of postduodenal enteric nervous system
<b>E5.4.9.0.4.0.2</b>	Aganglionosis coli	Colonic aganglionosis
<b>E5.4.9.0.4.0.3</b>	Aganglionosis coli completa	Total colonic aganglionosis
<b>E5.4.9.0.4.0.4</b>	Aganglionosis coli partialis	Partial colonic aganglionosis
<b>E5.4.9.0.4.0.5</b>	Megacolon congenitum	Congenital megacolon
<b>E5.4.9.0.4.0.7</b>	Dysplasia neuralis coli	Colonic neuronal dysplasia
<b>E5.4.9.0.4.0.8</b>	Hypoganglionosis coli	Colonic hypoganglionosis; Colonic hypogangliosis
<b>E5.16.0.0.0.1</b>	<b>Organa sensuum</b>	<b>Sense organs</b>
<b>E5.16.1.0.0.0.1</b>	<b>Organum olfactorium; Organum olfactus</b>	<b>Olfactory organ</b>
<b>E5.16.1.0.0.0.2</b>	Ectoderma capitis	Ectoderm of head
<b>E5.3.0.0.0.8</b>	Placoda nasalis; Placoda olfactoria <sup>165</sup>	Nasal placode; Nasal disc; Olfactory placode
<b>E4.0.3.1.0.0.1</b>	Complexus cristae neuralis nasalis <sup>92</sup>	Nasal neural crest complex
<b>E4.0.3.1.0.0.5</b>	Epithelium olfactorium	Olfactory epithelium
<b>E4.0.0.1.2.0.17</b>	Cellula olfactoria praecursoria	Olfactory stem cell
<b>E4.0.3.1.0.0.6</b>	Neuroblastus olfactorius	Olfactory neuroblast
<b>E4.0.3.1.0.0.7</b>	Neuron olfactorium immaturum	Immature olfactory neuron
<b>E5.16.1.0.0.0.3</b>	Cellula progenetrix interneuronis bulbi olfactorii	Olfactory bulb interneuron progenitor cell
<b>E5.16.1.0.0.0.4</b>	Interneuron bulbi olfactorii	Olfactory bulb interneuron
<b>E4.0.3.1.0.0.8</b>	Epitheliocytus sustentans olfactorius	Olfactory supporting epithelial cell
<b>E4.0.3.1.0.0.10</b>	Epitheliocytus basalis olfactorius	Olfactory basal epithelial cell
<b>E5.15.3.0.0.0.3</b>	Glioblastus olfactorius implicans	Olfactory ensheathing glioblast
<b>E4.0.3.1.0.0.9</b>	Cellula olfactoria implicans; Gliocytus olfactorius implicans	Olfactory ensheathing cell [OEC]; Olfactory ensheathing glial cell
<b>E5.15.3.0.0.0.4</b>	Fila olfactoria	Olfactory nerves
<b>E5.3.0.0.0.9</b>	Fovea nasalis	Nasal pit
<b>E5.5.1.0.0.0.2</b>	Saccus nasalis	Nasal sac
<b>E5.3.0.0.0.10</b>	Pinna nasalis	Nasal fin
<b>E5.5.1.0.0.0.9</b>	Membrana oronasalis	Oronasal membrane
<b>E5.16.1.0.0.0.5</b>	Obturamentum nasale	Nasal plug
<b>E5.16.1.0.0.0.6</b>	Pulvillus conchalis	Conchal cushion
<b>E5.16.1.0.0.0.7</b>	Diverticulum paranasale	Paranasal diverticulum
<b>E5.16.1.0.0.0.8</b>	Primordium olfactorium	Olfactory primordium
<b>E5.16.1.0.1.0.1</b>	<b>Anomaliae organi olfactorii</b>	<b>Olfactory organ anomalies</b>
<b>E5.16.1.0.1.0.2</b>	Defectus nervi olfactorii	Olfactory nerve deficiency
<b>E5.16.1.0.1.0.3</b>	Absentia bulbi olfactorii	Olfactory bulb absence
<b>E5.16.1.0.1.0.4</b>	Hypoplasia bulbi olfactorii	Olfactory bulb hypoplasia
<b>E5.16.1.0.1.0.5</b>	Absentia tractus olfactorii	Olfactory tract absence
<b>E5.16.1.0.1.0.6</b>	Hypoplasia tractus olfactorii	Olfactory tract hypoplasia

<sup>299</sup> E5.15.15.0.2.0.2 *Dysautonomia familiaris* Familial dysautonomia is characterized by dysfunction of the autonomic nervous system, sensory disturbances, neurological disorders, psychical anomalies and ophthalmological symptoms such as dry eyes, corneal anaesthesia, keratinized conjunctiva and cornea: a smooth tongue is accompanied by absence of fungiform papillae and taste buds.

<b>E5.16.1.1.0.0.1</b>	<b>ORGANUM VOMERONASALE</b>	<b>VOMERONASAL ORGAN</b>
<b>E5.3.0.0.0.0.8</b>	Placoda nasalis; Placoda olfactoria <sup>165</sup>	Nasal placode; Nasal disc; Olfactory placode
<b>E5.15.1.0.2.0.4</b>	Complexus cristae neuralis vomeronasalis	Vomeronasal neural crest complex
<b>E5.16.1.1.0.0.2</b>	Primordium organi vomeronasalis	Primordium of vomeronasal organ
<b>E5.5.1.0.0.0.14</b>	Sulcus vomeronasalis	Vomeronasal groove
<b>E5.16.1.1.0.0.3</b>	Cupula vomeronasalis	Vomeronasal cup
<b>E5.16.1.1.0.0.4</b>	Organum vomeronasale tubulare	Tubular vomeronasal organ
<b>E5.16.1.1.0.0.5</b>	Ductus organi vomeronasalis	Vomeronasal duct
<b>E5.15.3.0.0.0.5</b>	Epithelium vomeronasale	Vomeronasal epithelium
<b>E4.0.3.1.0.0.11</b>	Neuroblastus vomeronasalis	Vomeronasal neuroblast
<b>E4.0.3.1.0.0.12</b>	Neuron immaturum vomeronasale	Immature vomeronasal neuron
<b>E5.15.3.0.0.0.7</b>	Glioblastus vomeronasalis implicans	Vomeronasal ensheathing glioblast
<b>E5.15.3.0.0.0.8</b>	Cellula vomeronasalis implicans	Vomeronasal ensheathing cell
<b>E5.15.3.0.0.0.9</b>	N. vomeronasalis	Vomeronasal nerve
<b>E4.0.3.1.0.0.15</b>	Neuroblastus nervi terminalis	Neuroblast of nervus terminalis
<b>E4.0.3.1.0.0.16</b>	Neuron immaturum nervi terminalis	Immature neuron of nervus terminalis
<b>E4.0.3.1.0.0.18</b>	Cellula nervi terminalis implicans; Gliocytyus nervi terminalis implicans	Ensheathing cell of terminal nerve; Ensheathing glial cell of terminal nerve
<b>E5.15.3.0.0.0.10</b>	N. terminalis	Terminal nerve
<b>E5.16.2.0.0.0.1</b>	<b>Organum gustatorium; Organum gustus</b>	<b>Gustatory organ</b>
<b>E5.4.1.2.0.0.18</b>	<b>Gemma gustatoria; Caliculus gustatorius</b>	<b>Taste bud</b>
<b>E5.16.2.0.1.0.1</b>	Epithelium oropharyngeum	Oropharyngeal epithelium
<b>E5.16.2.0.1.0.2</b>	Primordium gemmae gustatoriae	Primordium of taste bud
<b>E5.16.2.0.1.0.3</b>	Neurofibra perigemmalis	Perigemmal nerve fibre <sup>▲</sup>
<b>E5.16.2.0.1.0.4</b>	Neurofibra intragemmalis	Intragemmal nerve fibre <sup>▲</sup>
<b>E5.16.2.0.1.0.5</b>	Cellula perigemmalis	Perigemmal cell
<b>E5.16.2.0.1.0.6</b>	Porus gustatorius primordialis	Primordial taste pore
<b>E5.16.2.0.1.0.7</b>	Epitheliocytyus extensus non differentiatius	Elongated nondifferentiated cell
<b>E5.16.2.0.1.0.8</b>	Epitheliocytyus gustatorius typi I	Type I gustatory epithelial cell
<b>E5.16.2.0.1.0.9</b>	Epitheliocytyus sensorius gustatorius typi II	Type II gustatory sensory epithelial cell
<b>E5.16.2.0.1.0.10</b>	Epitheliocytyus sensorius gustatorius typi III	Type III gustatory sensory epithelial cell
<b>E5.16.2.0.1.0.11</b>	Epitheliocytyus gustatorius typi IV; Epitheliocytyus basalis	Type IV gustatory epithelial cell; Basal epithelial cell
<b>E5.16.2.0.1.0.12</b>	Epitheliocytyus gustatorius typi V; Epitheliocytyus marginalis	Type V gustatory epithelial cell; Marginal epithelial cell
<b>E5.16.2.0.1.0.13</b>	Porus gustatorius	Taste pore
<b>E5.16.3.0.0.0.1</b>	<b>Oculus et structurae pertinentes</b>	<b>Eye and related structures</b>
<b>E5.16.3.1.0.0.1</b>	<b>BULBUS OCULI</b>	<b>EYEBALL</b>
<b>E5.15.1.0.0.0.1</b>	Epithelium tubi neuralis; Neurectoderma	Neural tube epithelium; Neurectoderm; Neural ectoderm
<b>E5.16.3.1.0.0.2</b>	Primordium opticum	Optic primordium
<b>E5.14.3.4.2.2.3</b>	Sulcus opticus	Optic groove; Optic sulcus
<b>E5.14.3.4.2.2.4</b>	Vesicula optica	Optic vesicle
<b>E5.14.3.4.2.2.5</b>	Cavitas vesiculae opticae	Cavity of optic vesicle
<b>E5.16.3.1.0.0.3</b>	Spatium intraretinale <sup>300</sup>	Intraretinal space; Intraretinal cleft
<b>E5.16.3.1.0.0.4</b>	Discus retinalis	Retinal disc
<b>E5.14.3.4.2.2.6</b>	Pedunculus opticus	Optic stalk
<b>E5.16.3.1.0.0.5</b>	N. opticus	Optic nerve
<b>E5.14.3.4.2.2.14</b>	Discus nervi optici	Optic disc
<b>E5.14.3.4.2.2.7</b>	Cupula optica	Optic cup
<b>E5.16.3.1.0.0.6</b>	Labrum cupulae opticae	Optic cup lip
<b>E5.16.3.1.0.0.7</b>	Lamina externa cupulae	External cup layer
<b>E5.14.3.4.2.2.8</b>	Cavitas cupulae opticae	Cavity of optic cup
<b>E5.16.3.1.0.0.8</b>	Camera postrema; Camera vitrea	Postremal chamber; Vitreous chamber
<b>E5.16.3.1.0.0.9</b>	Lamina interna cupulae	Internal cup layer
<b>E5.14.3.4.2.2.15</b>	Fissura optica; Fissura retinae <sup>281</sup>	Retinal fissure; Optic fissure
<b>E5.16.1.0.0.0.2</b>	Ectoderma capitis	Ectoderm of head

<sup>300</sup> E5.16.3.1.0.0.3 *Spatium intraretinale* Although the cavity of the optic vesicle disappears, there remains a potential cleft, the site of so-called retinal detachment.

<b>E5.16.3.1.0.0.10</b>	Epithelium anterius corneae	Corneal epithelium
<b>E5.16.3.1.0.0.11</b>	Epithelium simplex cuboideum	Simple cuboidal epithelium
<b>E5.4.4.0.0.5.2</b>	Epithelium stratificatum squamosum non cornificatum	Nonkeratinized stratified squamous epithelium
<b>E5.16.3.1.0.0.12</b>	Lamina limitans anterior	Anterior limiting lamina §Bowman§
<b>E4.0.0.1.2.0.3</b>	Cellula cornealis praecursoria <sup>94</sup>	Corneal stem cell
<b>E5.16.3.1.0.0.13</b>	Placoda lentis; Discus lentis	Lens placode; Lens disc
<b>E5.16.3.1.0.0.14</b>	Fovea lentis	Lens pit
<b>E5.16.3.1.0.0.15</b>	Vesicula lentis	Lens vesicle
<b>E5.16.3.1.0.0.16</b>	Cavitas lentis	Lens cavity
<b>E5.16.3.1.0.0.17</b>	Cavitas lentis figurata D	D-shaped lens cavity
<b>E5.16.3.1.0.0.18</b>	Cavitas crescentiformis lentis	Crescent-shaped lens cavity
<b>E5.16.3.1.0.0.19</b>	Cavitas lentis clausa	Closed lens cavity
<b>E5.16.3.1.0.0.20</b>	Epithelium superficiale lentis	Superficial lens epithelium
<b>E5.16.3.1.0.0.21</b>	Epithelium profundum lentis	Deep lens epithelium
<b>E5.16.3.1.0.0.22</b>	Fibra lentis primaria	Primary lens fibre <sup>▲</sup>
<b>E5.16.3.1.0.0.23</b>	Epithelium aequatoriale lentis	Equatorial lens epithelium
<b>E5.16.3.1.0.0.24</b>	Fibra lentis secundaria	Secondary lens fibre <sup>▲</sup>
<b>E5.16.3.1.0.0.25</b>	Sutura fibrae lentis secundariae	Suture of secondary lens fibre <sup>▲</sup>
<b>E5.16.3.1.0.0.26</b>	Capsula lentis	Lens capsule
<b>E5.16.3.1.0.0.27</b>	Tunica vasculosa lentis	Vascular lens tunic
<b>E5.16.3.1.0.0.28</b>	Arcus nucleorum	Nuclear bow
<b>E5.16.3.1.1.0.1</b>	<b>Retina</b>	<b>Retina</b>
<b>E5.15.1.0.0.0.1</b>	<b>Epithelium tubi neuralis; Neurectoderma</b>	<b>Neural tube epithelium; Neurectoderm; Neural ectoderm</b>
<b>E5.16.3.1.0.0.7</b>	Lamina externa cupulae	External cup layer
<b>E5.16.3.1.1.1.1</b>	Epithelium pseudostratificatum	Pseudostratified epithelium
<b>E5.16.3.1.1.1.2</b>	Stratum pigmentosum	Pigmented layer
<b>E5.16.3.1.1.1.3</b>	Pigmentocytus	Pigment cell
<b>E5.16.3.1.0.0.3</b>	Spatium intraretinale <sup>300</sup>	Intraretinal space; Intraretinal cleft
<b>E5.16.3.1.0.0.9</b>	Lamina interna cupulae	Internal cup layer
<b>E5.16.3.1.1.1.4</b>	Pars optica retinae	Pars optica retinae
<b>E5.16.3.1.1.1.5</b>	Stratum ventriculare cupulae opticae	Ventricular zone; Photosensitive layer
<b>E5.16.3.1.1.1.6</b>	Neuroepithelium pseudostratificatum	Pseudostratified neuro-epithelium
<b>E5.16.3.1.1.1.7</b>	Stratum nucleare	Nuclear layer
<b>E4.0.4.4.5.0.4</b>	Zona proliferationis	Proliferation zone
<b>E5.16.3.1.1.1.8</b>	Stratum marginale initiale	Initial marginal layer
<b>E5.16.3.1.1.1.9</b>	Lamina basalis	Lamina basalis
<b>E5.14.3.5.2.5.1</b>	Processus neuronis immaturi	Process of immature neuron
<b>E5.16.3.1.1.1.10</b>	Stratum neuronum immaturorum externum	Outer immature neuron layer
<b>E5.14.3.5.2.4.1</b>	Neuron immaturum	Immature neuron
<b>E5.14.3.2.1.0.4</b>	Glioblastus radialis	Radial glioblast
<b>E5.14.3.5.2.2.3</b>	Processus gliocyti radialis	Process of radial glial cell
<b>E5.16.3.1.1.1.11</b>	Neuron horizontale	Horizontal cell
<b>E5.16.3.1.1.1.12</b>	Proneuron bacilliferum; Neuron immaturum bacilliferum	Rod cell proneuron; Immature rod cell
<b>E5.16.3.1.1.1.13</b>	Neuron bacilliferum	Rod cell
<b>E5.16.3.1.1.1.14</b>	Bacillum retinae	Rod
<b>E5.16.3.1.1.1.15</b>	Segmentum externum neuronis bacilliferi	Outer segment of rod
<b>E5.16.3.1.1.1.16</b>	Discus membranaceus neuronis bacilliferi	Membranous disc of rod
<b>E5.16.3.1.1.1.17</b>	Segmentum internum neuronis bacilliferi	Inner segment of rod
<b>E5.16.3.1.1.1.18</b>	Proneuron coniferum; Neuron immaturum coniferum	Cone cell proneuron; Immature cone cell
<b>E5.16.3.1.1.1.19</b>	Neuron coniferum	Cone cell
<b>E5.16.3.1.1.1.20</b>	Conus retinae	Cone
<b>E5.16.3.1.1.1.21</b>	Segmentum externum neuronis coniferi	Outer segment of cone
<b>E5.16.3.1.1.1.22</b>	Discus membranaceus neuronis coniferi	Membranous disc of cone
<b>E5.16.3.1.1.1.23</b>	Segmentum internum neuronis coniferi	Inner segment of cone

<b>E5.16.3.1.1.1.24</b>	Stratum segmentorum externorum et internorum	Layer of outer and inner segments
<b>E5.16.3.1.1.1.25</b>	Stratum limitans externum	Outer limiting layer
<b>E5.16.3.1.1.1.26</b>	Stratum nucleorum externum	Outer nuclear layer
<b>E5.16.3.1.1.1.27</b>	Stratum plexiforme externum	Outer plexiform layer
<b>E5.16.3.1.1.1.28</b>	Processus axonalis neuronis bacilliferi	Axonal process of rod
<b>E5.16.3.1.1.1.29</b>	Spherula terminalis bacilli	Rod spherule
<b>E5.16.3.1.1.1.30</b>	Processus axonalis neuronis coniferi	Axonal process of cone
<b>E5.16.3.1.1.1.31</b>	Pes terminalis coni	Cone pedicle
<b>E5.16.3.1.1.1.32</b>	Neuropilus	Neuropil
<b>E5.16.3.1.1.1.33</b>	Stratum anucleare fugax	Transient anuclear layer §Chievitz§
<b>E5.16.3.1.1.1.34</b>	Stratum neuronum immaturorum internum; Stratum intermedium; Stratum pallii	Inner immature neuron layer; Mantle layer
<b>E5.14.3.2.1.0.4</b>	Glioblastus radialis	Radial glioblast
<b>E5.14.2.1.0.2.2</b>	Gliocytus radialis	Radial glial cell §Müller§
<b>E5.16.3.1.1.1.35</b>	Processus radialis gliocyti	Radial process of glial cell
<b>E5.16.3.1.1.1.36</b>	Neuron immaturum retinae; Proneuron	Immature retinal neuron; Proneuron
<b>E5.16.3.1.1.1.37</b>	Neuron amacrinum	Amacrine cell
<b>E5.16.3.1.1.1.38</b>	Neuron interplexiforme	Interplexiform cell
<b>E5.14.2.1.0.2.15</b>	Neuron bipolare	Bipolar neuron
<b>E5.16.3.1.1.1.39</b>	Cellula immatura ganglionica; Proneuron ganglionare	Immature ganglion cell; Ganglion cell proneuron
<b>E5.16.3.1.1.1.40</b>	Translatio introrsum <sup>301</sup>	Apparent migration inwards
<b>E5.16.3.1.1.1.41</b>	Stratum nucleare internum	Inner nuclear layer
<b>E5.16.3.1.1.1.42</b>	Stratum marginale residuale	Residual marginal layer
<b>E5.16.3.1.1.1.43</b>	Stratum plexiforme internum	Inner plexiform layer
<b>E5.16.3.1.1.1.32</b>	Neuropilus	Neuropil
<b>E5.16.3.1.1.1.44</b>	Stratum ganglionare multipolare	Ganglionic layer
<b>E5.16.3.1.1.1.45</b>	Neuron ganglionare multipolare retinae	Retinal ganglion cell
<b>E5.16.3.1.1.1.46</b>	Stratum neurofibrarum	Layer of nerve fibres <sup>▲</sup>
<b>E5.16.3.1.1.1.47</b>	Ora serrata	Ora serrata
<b>E5.16.3.1.1.1.48</b>	Stratum limitans internum	Inner limiting layer
<b>E5.16.3.1.1.2.1</b>	<b>Pars caeca retinae</b>	<b>Nonvisual retina</b>
<b>E5.16.3.1.1.2.2</b>	Pars ciliaris retinae	Ciliary part of retina
<b>E5.16.3.1.1.2.3</b>	Epithelium ciliare	Ciliary epithelium
<b>E5.16.3.1.1.2.4</b>	Pars iridica retinae	Iridial part of retina
<b>E5.16.3.1.1.2.5</b>	Epithelium iridicum	Iris epithelium
<b>E5.16.3.1.1.2.6</b>	Primordium musculi sphincteris pupillae	Primordium of sphincter pupillae
<b>E5.16.3.1.1.2.7</b>	Primordium musculi dilatatoris pupillae	Primordium of dilator pupillae
<b>E4.0.3.2.0.0.3</b>	<b>Tunica fibrosa bulbi<sup>302</sup></b>	<b>Fibrous layer of eyeball</b>
<b>E5.16.3.1.2.0.1</b>	Sclera	Sclera
<b>E5.16.3.1.2.0.2</b>	Cornea	Cornea
<b>E4.0.3.2.0.0.5</b>	<b>Tunica vasculosa bulbi; Uvea<sup>303</sup></b>	<b>Vascular layer of eyeball; Uvea</b>
<b>E5.16.3.1.3.0.1</b>	Choroidea	Choroid
<b>E5.16.3.1.3.0.2</b>	Corpus ciliare	Ciliary body
<b>E5.16.3.1.3.0.3</b>	Iris non retinalis	Nonretinal iris
<b>E5.16.3.1.4.0.1</b>	<b>Mesenchyma oculi</b>	<b>Optic mesenchyme</b>
<b>E5.14.3.3.0.1.1</b>	Crista neuralis mesencephalica	Mesencephalic neural crest
<b>E5.16.3.1.4.0.2</b>	Crista neuralis optica	Optic neural crest
<b>E5.16.3.1.0.0.27</b>	Tunica vasculosa lentis	Vascular lens tunic
<b>E5.16.3.1.4.0.3</b>	Mesenchyma camerae vitreae	Vitreous chamber mesenchyme
<b>E5.16.3.1.4.0.4</b>	A. lentis	Lens artery

<sup>301</sup> E5.16.3.1.1.1.40 *Translatio introrsum* Ganglion cell proneurons separate as the retina increases in thickness.

<sup>302</sup> E4.0.3.2.0.0.3 *Tunica fibrosa bulbi* The parts of the fibrous layer of the eyeball are derived from both head ectoderm and the ectomesenchyme surrounding the optic cup: their component parts are listed either under *Eye and related structures* or under *Optic mesenchyme*.

<sup>303</sup> E4.0.3.2.0.0.5 *Tunica vasculosa bulbi; Uvea* The parts of the vascular layer of the eyeball are derived from both the optic cup and the surrounding ectomesenchyme: their component parts are listed either under *Retina* or under *Optic mesenchyme*.

<b>E5.16.3.1.0.0.27</b>	Tunica vasculosa lentis	Vascular lens tunic
<b>E5.16.3.1.4.0.5</b>	A. hyaloidea	Hyaloid artery
<b>E5.16.3.1.4.0.6</b>	Corpus vitreum primarium	Primary vitreous body
<b>E5.16.3.1.4.0.7</b>	Corpus vitreum secundarium	Secondary vitreous body
<b>E5.16.3.1.4.0.8</b>	Corpus vitreum tertiarium	Tertiary vitreous body
<b>E5.16.3.1.4.0.9</b>	Canalis hyaloideus	Hyaloid canal
<b>E5.16.3.1.4.0.20</b>	Membrana vitrea	Vitreous membrane
<b>E5.16.3.1.4.0.21</b>	Mesenchyma camerae anterioris	Anterior chamber mesenchyme
<b>E5.16.3.1.4.0.22</b>	Epithelium camerae anterioris	Anterior chamber epithelium
<b>E5.16.3.1.4.0.23</b>	Humor aquosus	Aqueous humor
<b>E5.16.3.1.4.0.24</b>	Camera anterior	Anterior chamber
<b>E5.16.3.1.4.0.25</b>	Camera posterior	Posterior chamber
<b>E5.16.3.1.4.0.26</b>	Mesenchyma capsulae	Capsule mesenchyme
<b>E4.0.3.2.0.0.3</b>	Tunica fibrosa bulbi <sup>302</sup>	Fibrous layer of eyeball
<b>E5.16.3.1.4.0.27</b>	Substantia propria sclerae	Substantia propria of sclera
<b>E5.16.3.1.4.0.28</b>	Vv. intrasclerales.	Intrascleral veins
<b>E5.16.3.1.4.0.29</b>	Sinus venosus sclerae	Scleral venous sinus §Schlemm§
<b>E5.16.3.1.0.0.12</b>	Lamina limitans anterior	Anterior limiting lamina §Bowman§
<b>E5.16.3.1.4.0.30</b>	Substantia propria corneae	Substantia propria of cornea
<b>E4.0.3.3.1.0.8</b>	Epithelium posterius corneae <sup>304</sup>	Endothelium of anterior chamber
<b>E5.16.3.1.0.0.11</b>	Epithelium simplex cuboideum	Simple cuboidal epithelium
<b>E5.16.3.1.4.0.31</b>	Epithelium simplex squamosum	Simple squamous epithelium
<b>E4.0.3.3.1.0.6</b>	Keratocytus	Keratocyte
<b>E5.16.3.1.4.0.32</b>	Lamina limitans posterior	Posterior limiting lamina §Descemet§
<b>E5.16.3.1.4.0.33</b>	Pars laminata striataque	Banded, striated part
<b>E5.16.3.1.4.0.34</b>	Pars non laminata et non striata <sup>305</sup>	Nonbanded, nonstriated part
<b>E4.0.3.2.0.0.5</b>	Tunica vasculosa bulbi; Uvea <sup>303</sup>	Vascular layer of eyeball; Uvea
<b>E5.16.3.1.4.0.35</b>	Lamina vasculosa	Vascular layer
<b>E5.16.3.1.4.0.36</b>	Lamina choroidocapillaris	Choroidocapillary layer
<b>E5.16.3.1.4.0.37</b>	Stroma ciliare	Ciliary stroma
<b>E5.16.3.1.4.0.38</b>	M. ciliaris	Ciliary muscle
<b>E4.0.3.3.1.0.9</b>	Stroma iridis	Stroma of iris
<b>E4.0.3.3.1.0.10</b>	Membrana pupillaris <sup>306</sup>	Pupillary membrane; Iridopupillary membrane
<b>E5.16.3.1.4.0.39</b>	Defectio membranae pupillaris	Regression of pupillary membrane
<b>E5.16.3.2.0.0.1</b>	<b>STRUCTURAE OCULI ACCESSORIAE</b>	<b>ACCESSORY OCULAR STRUCTURES</b>
<b>E5.16.3.2.0.0.2</b>	Plica palpebralis	Palpebral fold
<b>E5.16.3.2.0.0.3</b>	Palpebra	Eyelid
<b>E5.0.3.0.0.0.3</b>	Ectoderma embryonicum <sup>121</sup>	Embryonic ectoderm
<b>E5.3.0.0.0.0.2</b>	Epidermis	Epidermis
<b>E5.16.3.2.0.0.4</b>	Cilium	Eyelash
<b>E5.16.3.2.0.0.5</b>	Epithelium conjunctivale	Conjunctival epithelium
<b>E5.16.3.2.0.0.6</b>	Gemma glandulae tarsalis	Tarsal gland bud
<b>E5.16.3.2.0.0.7</b>	Gemmae glandulae lacrimalis	Lacrimal gland buds
<b>E5.16.3.2.0.0.8</b>	Blastema glandulae lacrimalis	Blastema of lacrimal gland
<b>E5.16.3.2.0.0.9</b>	Ductuli excretorii lacrimales	Lacrimal excretory ducts
<b>E5.3.0.0.0.0.20</b>	Sulcus nasolacrimalis; Sulcus lacrimalis <sup>307</sup>	Nasolacrimal groove; Lacrimal groove
<b>E5.16.3.2.0.0.10</b>	Lamina lacrimalis <sup>308</sup>	Lacrimal lamina

<sup>304</sup> E4.0.3.3.1.0.8 *Epithelium posterius corneae* This epithelium may be ectomesenchymal in origin.

<sup>305</sup> E5.16.3.1.4.0.34 *Pars non laminata et non striata* The nonbanded, nonstriated part of the posterior limiting lamina is formed postnatally by the endothelium of the anterior chamber.

<sup>306</sup> E4.0.3.3.1.0.10 *Membrana pupillaris* The pupillary membrane develops from the mesenchymal tissue posterior to the cornea in continuity with the mesenchymal tissue developing into the sclera (Wai SM, Li WY, Chai WY, Sha O, Yew DT. The iridopupillary membrane (or pupillary membrane) in human development. *Neuroembryology* 2002, 1: 44-46).

<sup>307</sup> E5.3.0.0.0.0.20 *Sulcus nasolacrimalis; Sulcus lacrimalis* The nasolacrimal groove is said to appear approximately along, but independently of, the line where the maxillary and frontonasal prominences merge and is thus not to be synonymous with the nasomaxillary groove [O'Rahilly R and Müller F. *Human Embryology & Teratology*. 3<sup>rd</sup> ed. New York: Wiley-Liss; 2001].

<sup>308</sup> E5.16.3.2.0.0.10 *Lamina lacrimalis* The lacrimal lamina is a thickening of the epithelium at the bottom of the lacrimal groove: its tip bifurcates to form primordial canaliculi before it canalises and connects conjunctival and inferior meatal epithelia (de la Cuadra-Blanco C, Peces-Peña MD, Járñez-Escalada L, Mérida-Velasco JR. Morphogenesis of the human excretory lacrimal system. *J Anat* 2006;209:127-135).

<b>E5.16.3.2.0.0.11</b>	Chorda lacrimonalis	Lacrimal cord
<b>E5.16.3.2.0.0.12</b>	Canaliculus lacrimonalis	Lacrimal canaliculus
<b>E5.16.3.2.0.0.13</b>	Saccus lacrimonalis	Lacrimal sac
<b>E5.16.3.2.0.0.14</b>	Ductus nasolacrimonalis	Nasolacrimonial duct
<b>E5.16.3.2.0.0.15</b>	Mesenchyma palpebrale	Palpebral mesenchyme
<b>E5.16.3.2.0.0.16</b>	Palpebrae conjunctae	Fused eyelids
<b>E5.16.3.2.0.0.17</b>	Rima palpebrarum	Palpebral fissure
<b>E5.16.3.2.0.0.18</b>	Palpebrae apertae	Open eyelids
<b>E5.16.3.2.1.0.1</b>	<b>Anomaliae structurarum oculi</b>	<b>Anomalies of ocular structures</b>
<b>E5.16.3.2.1.0.2</b>	Anophthalmia	Anophthalmia
<b>E5.16.3.2.1.0.3</b>	Cryptophthalmia	Cryptophthalmia
<b>E5.1.1.0.2.4.2</b>	Cyclopia	Cyclopia
<b>E5.16.3.2.1.0.4</b>	Synophthalmia	Synophthalmia
<b>E5.16.3.2.1.0.5</b>	Macrophthalmia	Macrophthalmia
<b>E5.16.3.2.1.0.6</b>	Microphthalmia	Microphthalmia
<b>E5.16.3.2.1.0.7</b>	Hypotelorismus oculorum	Ocular hypotelorism
<b>E5.16.3.2.1.0.8</b>	Hypertelorismus oculorum	Ocular hypertelorism
<b>E5.16.3.2.1.0.9</b>	Cornea conica	Conical cornea
<b>E5.16.3.2.1.0.10</b>	Cornea ovoidea	Ovoid cornea
<b>E5.16.3.2.1.0.11</b>	Cornea plana	Flat cornea
<b>E5.16.3.2.1.0.12</b>	Cornea perforata congenita	Congenital perforated cornea
<b>E5.16.3.2.1.0.13</b>	Cornea guttata	Hereditary corneal epithelial dystrophy
<b>E5.16.3.2.1.0.14</b>	Megalocornea	Megalocornea
<b>E5.16.3.2.1.0.15</b>	Microcornea	Microcornea
<b>E5.16.3.2.1.0.16</b>	Opacitas corneae congenita	Congenital corneal opacity
<b>E5.16.3.2.1.0.17</b>	Sclerocornea	Sclerocornea
<b>E5.16.3.2.1.0.18</b>	Absentia laminae limitantis posterioris	Absent posterior limiting membrane
<b>E5.16.3.2.1.0.19</b>	Persistentia foveae lentis	Persistent lens fovea
<b>E5.16.3.2.1.0.20</b>	Aniridia	Aniridia
<b>E5.16.3.2.1.0.21</b>	Coloboma congenita <sup>309</sup>	Coloboma
<b>E5.16.3.2.1.0.22</b>	Polycoria	Polycoria
<b>E5.16.3.2.1.0.23</b>	Polycoria vera	True polycoria
<b>E5.16.3.2.1.0.24</b>	Polycoria spuria	Polycoria spuria
<b>E5.16.3.2.1.0.25</b>	Persistentia membranae pupillaris	Persistent pupillary membrane
<b>E5.16.3.2.1.0.26</b>	Glaucoma congenitum	Congenital glaucoma
<b>E5.16.3.2.1.0.27</b>	Buphthalmia	Buphthalmia
<b>E5.16.3.2.1.0.28</b>	Aplasia lentis; Aphakia	Lens aplasia; Aphakia
<b>E5.16.3.2.1.0.29</b>	Cataracta congenita	Congenital cataract
<b>E5.16.3.2.1.0.30</b>	Duplicatio lentis	Duplication of lens
<b>E5.16.3.2.1.0.31</b>	Ectopia lentis	Ectopic lens
<b>E5.16.3.2.1.0.32</b>	Persistentia arteriae hyaloideae	Persistent hyaloid artery
<b>E5.16.3.2.1.0.33</b>	Persistentia tunicae vasculosae lentis	Persistent tunica vasculosa lentis
<b>E5.16.3.2.1.0.34</b>	Cystis retinae	Retinal cyst
<b>E5.16.3.2.1.0.35</b>	Persistentia corporis vitrei primarii hyperplastici	Persistent hyperplastic primary vitreous body
<b>E5.16.3.2.1.0.36</b>	Ablatio retinae	Congenital retinal detachment
<b>E5.16.3.2.1.0.37</b>	Albinismus choroideus	Albinism of choroid
<b>E5.16.3.2.1.0.38</b>	Albinismus oculocutaneus	Oculocutaneous albinism
<b>E5.16.3.2.1.0.39</b>	Aplasia glandulae lacrimonalis	Aplasia of lacrimal gland
<b>E5.16.3.2.1.0.40</b>	Ectopia glandulae lacrimonalis	Ectopic lacrimal gland
<b>E5.16.3.2.1.0.41</b>	Hypolacrimia congenita	Congenital hypolacrimia
<b>E5.16.3.2.1.0.42</b>	Aplasia punctorum lacrimonium	Aplasia of lacrimal puncta
<b>E5.16.3.2.1.0.43</b>	Punctum lacrimonale rimatum	Slit-like lacrimal punctum
<b>E5.16.3.2.1.0.44</b>	Ectopia puncti lacrimonalis	Ectopic lacrimal punctum
<b>E5.16.3.2.1.0.45</b>	Punctum lacrimonalis duplex	Double lacrimal punctum
<b>E5.16.3.2.1.0.46</b>	Punctum lacrimonalis supernumerarium	Supernumerary lacrimal punctum
<b>E5.16.3.2.1.0.47</b>	Atresia canaliculi lacrimonalis	Atresia of lacrimal canaliculus
<b>E5.16.3.2.1.0.48</b>	Diverticulum sacci lacrimonalis	Diverticulum of lacrimal sac
<b>E5.16.3.2.1.0.49</b>	Fistula sacci lacrimonalis congenita	Congenital fistula of lacrimal sac
<b>E5.16.3.2.1.0.50</b>	Absentia plicae lacrimonalis	Absence of lacrimal fold

<sup>309</sup> E5.16.3.2.1.0.21 *Coloboma congenita* A defect, usually in ocular tissue, due to incomplete closure of the retinal fissure: the optic nerve, macula, vitreous body, lens, cornea, choroid and/or iris may be affected.

<b>E5.16.3.2.1.0.51</b>	Aplasia ductus nasolacrimalis	Aplasia of nasolacrimal duct
<b>E5.16.3.2.1.0.52</b>	Dacryostenosis congenita	Congenital stenosis of nasolacrimal duct
<b>E5.16.3.2.1.0.53</b>	Fistula externa nasolacrimalis	External nasolacrimal fistula
<b>E5.16.3.2.1.0.54</b>	Syndroma cryptophthalmiae	Cryptophthalmia syndrome §Fraser§
<b>E5.16.3.2.1.0.55</b>	Syndroma dysgenesis iridocornealis mesenchymalis	Iridocorneal mesenchymal dysgenesis syndrome §Rieger§
<b>E5.16.3.2.1.0.56</b>	Syndroma fissurae camerae anterioris	Anterior chamber cleavage syndrome §Peters§
<b>E5.16.3.2.1.0.57</b>	Syndroma lacrimoauriculodentodigitale	Lacrimo-auriculo-dento-digital syndrome [LADD]
<b>E5.16.3.2.1.0.58</b>	Anomaliae palpebrae {vide paginam <b>XX</b> }	Anomalies of eyelids {see page <b>XX</b> E5.3.0.0.2.0.1}
<b>E5.16.4.0.0.0.1</b>	<b>Auris</b>	<b>Ear</b>
<b>E5.16.4.0.1.0.1</b>	<b>Auris externa</b>	<b>External ear</b>
<b>E5.16.4.0.1.0.2</b>	Sulcus pharyngeus primus [1]	First pharyngeal groove [1]
<b>E5.16.4.0.1.0.3</b>	Meatus acusticus externus	External acoustic meatus
<b>E5.4.2.0.0.0.4</b>	Membrana pharyngea [1]	Pharyngeal membrane [1]
<b>E5.16.4.0.1.0.4</b>	Membrana tympanica	Tympanic membrane
<b>E5.16.4.0.1.0.5</b>	Arcus pharyngei primus et secundus [1,2]	First and second pharyngeal arches [1,2]
<b>E5.16.4.0.1.0.6</b>	Colliculus auricularis	Auricular hillock
<b>E5.16.4.0.1.0.7</b>	Auricula	Auricle; Pinna
<b>E5.16.4.0.2.0.1</b>	<b>Auris media</b>	<b>Middle ear</b>
<b>E5.4.2.0.0.1.2</b>	Saccus pharyngeus primus [1]	First pharyngeal pouch [1]
<b>E5.4.2.0.0.1.3</b>	Recessus tubotympanicus	Tubotympanic recess
<b>E5.16.4.0.2.0.2</b>	Apex recessus tubotympanici	Tip of tubotympanic recess
<b>E5.4.2.0.0.1.4</b>	Tuba auditiva; Tuba auditoria	Pharyngotympanic tube; Auditory tube §Eustachius§
<b>E5.4.2.0.0.1.5</b>	Cavitas tympani	Tympanic cavity
<b>E5.16.4.0.2.0.3</b>	Cellulae tympanicae	Tympanic cells
<b>E5.4.2.0.0.1.6</b>	Antrum mastoideum	Mastoid antrum
<b>E5.16.4.0.2.0.4</b>	Cellulae mastoideae	Mastoid cells
<b>E5.0.2.1.5.0.1</b>	Arcus pharyngeus primus [1]	First pharyngeal arch [1]
<b>E5.16.4.0.2.0.5</b>	Mesenchyma arcus pharyngei primi	Mesenchyme of first pharyngeal arch
<b>E5.16.4.0.2.0.6</b>	Pars dorsalis cartilaginis arcus pharyngei primi	Dorsal part of first pharyngeal arch cartilage
<b>E5.16.4.0.2.0.7</b>	Crus breve incudis	Short limb of incus
<b>E5.16.4.0.2.0.8</b>	Corpus incudis	Body of incus
<b>E5.16.4.0.2.0.9</b>	Caput mallei	Head of malleus
<b>E5.16.4.0.2.0.10</b>	Lig. mallei anterius <sup>310</sup>	Anterior ligament of malleus
<b>E5.16.4.0.2.0.11</b>	M. tensor tympani	Tensor tympani
<b>E5.16.4.0.2.0.12</b>	Arcus pharyngeus secundus [2]	Second pharyngeal arch [2]
<b>E5.12.2.5.0.0.3</b>	Mesenchyma arcus pharyngei secundi	Mesenchyme of second pharyngeal arch
<b>E4.0.3.3.3.2.3</b>	Cartilago arcus pharyngei secundi	Second pharyngeal arch cartilage
<b>E5.16.4.0.2.0.13</b>	Processus mallei	Malleal process
<b>E5.16.4.0.2.0.14</b>	Manubrium mallei	Handle of malleus
<b>E5.16.4.0.2.0.15</b>	Crus longum incudis	Long limb of incus
<b>E5.16.4.0.2.0.16</b>	Stapes	Stapes
<b>E5.2.0.2.0.1.3</b>	Blastema musculi stapedii	Blastema of stapedius
<b>E5.16.4.0.2.0.17</b>	M. stapedius	Stapedius
<b>E5.16.4.0.2.0.18</b>	Anulus stapedis	Stapedial ring
<b>E5.16.4.0.2.0.19</b>	Chorda tympani	Chorda tympani
<b>E5.16.4.0.2.0.20</b>	R. stapedius nervi facialis	Stapedial branch of facial nerve
<b>E5.16.4.0.3.0.1</b>	<b>Auris interna</b>	<b>Internal ear</b>
<b>E5.0.3.0.0.0.3</b>	Ectoderma embryonicum <sup>121</sup>	Embryonic ectoderm
<b>E5.15.2.0.0.0.4</b>	Placoda otica	Otic placode; Otic disc
<b>E5.15.2.0.0.0.5</b>	Fovea otica	Otic pit
<b>E5.15.1.0.0.0.4</b>	Vesicula otica	Otic vesicle; Otocyst

<sup>310</sup> E5.16.4.0.2.0.10 *Lig. mallei anterius* It is usually considered that the *anterior ligament* is derived from the first pharyngeal arch because of its continuity, via the sphenomandibular ligament, with the mandible. However, it has also been suggested that the *anterior ligament* is derived from the second pharyngeal arch (Hanson JR, Anson BJ, Strickland EM. Branchial sources of the auditory ossicles in man. Arch Otolaryngol 1962;76:200-215).

<b>E5.16.4.0.3.0.2</b>	Maculae densae epithelii	Thickened patches of epithelium
<b>E5.16.4.0.3.0.3</b>	Primordium labyrinthi membranacei; Saccus vestibularis	Primordial membranous labyrinth; Vestibular sac
<b>E5.16.4.0.3.0.4</b>	Appendix endolymphatica	Endolymphatic appendage
<b>E5.16.4.0.3.0.5</b>	Ductus endolymphaticus	Endolymphatic duct
<b>E5.16.4.0.3.0.6</b>	Camera utriculosaccularis	Utriculosaccular chamber
<b>E5.16.4.0.3.0.7</b>	Primordium utriculi	Primordial utricle
<b>E5.16.4.0.3.0.8</b>	Lamina semicircularis	Semicircular plate
<b>E5.16.4.0.3.0.9</b>	Coalescentia centralis	Central coalescence
<b>E5.16.4.0.3.0.10</b>	Ductus semicircularis	Semicircular duct
<b>E5.16.4.0.3.0.11</b>	Primordium sacculi	Primordial saccule
<b>E5.16.4.0.3.0.12</b>	Primordium ductus cochlearis; Diverticulum endolymphaticum	Primordial cochlear duct; Endolymphatic diverticulum
<b>E5.16.4.0.3.0.13</b>	Crescentia spiraliformis	Spiral growth
<b>E5.16.4.0.3.0.14</b>	Ductus reuniens	Ductus reuniens
<b>E4.0.3.3.2.0.3</b>	Mesenchyma capitis	Head mesenchyme
<b>E5.0.2.1.4.1.4</b>	Capsula otica	Otic capsule
<b>E5.16.4.0.3.0.15</b>	Cartilago otica	Otic cartilage
<b>E5.16.4.0.3.0.16</b>	Labyrinthus cartilagineus	Cartilaginous labyrinth
<b>E5.16.4.0.3.0.17</b>	Labyrinthus osseus	Bony labyrinth
<b>E5.16.4.0.3.0.18</b>	Mesenchyma	Mesenchyme
<b>E5.16.4.0.3.0.19</b>	Spatium perilymphaticum	Perilymphatic space
<b>E5.16.4.0.3.0.20</b>	Cisterna periotica	Periotic cistern
<b>E5.16.4.0.3.0.21</b>	Primordium scalae tympani	Primordium of scala tympani
<b>E5.16.4.0.3.0.22</b>	Primordium scalae vestibuli	Primordium of scala vestibuli
<b>E5.16.4.0.3.0.23</b>	Helicotrema	Helicotrema
<b>E5.16.4.0.3.0.24</b>	Scala media	Scala media
<b>E5.16.4.0.3.0.19</b>	Spatium perilymphaticum	Perilymphatic space
<b>E5.16.4.0.3.0.18</b>	Mesenchyma	Mesenchyme
<b>E5.16.4.0.3.0.25</b>	Modiolus cochleae	Modiolus
<b>E5.16.4.0.3.0.26</b>	Lamina spiralis ossea	Osseous spiral lamina
<b>E5.15.2.0.0.0.4</b>	Placoda otica	Otic placode; Otic disc
<b>E5.16.4.0.3.0.27</b>	Area neuroepithelialis vesiculae oticae	Neuro-epithelial area of otic vesicle
<b>E5.16.4.0.3.0.28</b>	Vestibuloblastus	Vestibuloblast
<b>E5.16.4.0.3.0.29</b>	Vestibulocytus; Cellula sensoria pilosa	Vestibular hair cell; Vestibular sensory cell
<b>E5.16.4.0.3.0.30</b>	Vestibulocytus I; Vestibulocytus piriformis <sup>311</sup>	Type 1 vestibular hair cell; Type 1 vestibular sensory cell
<b>E5.16.4.0.3.0.31</b>	Vestibulocytus II; Vestibulocytus columnaris	Type 2 vestibular hair cell; Type 2 vestibular sensory cell
<b>E5.16.4.0.3.0.32</b>	Cochleoblastus	Cochleoblast
<b>E5.16.4.0.3.0.33</b>	Cochleocytus	Cochlear hair cell
<b>E5.16.4.0.3.0.34</b>	Cochleocytus internus <sup>312</sup>	Inner hair cell
<b>E5.16.4.0.3.0.35</b>	Cochleocytus externus	Outer hair cell
<b>E5.16.4.0.3.0.36</b>	Vestibulocytus sustentans	Vestibular supporting cell
<b>E5.16.4.0.3.0.37</b>	Epithelium striae vascularis	Epithelium of stria vascularis
<b>E5.16.4.0.3.0.38</b>	Epithelium sacci endolymphatici	Epithelium of endolymphatic sac
<b>E5.16.4.0.3.0.39</b>	Epithelium labyrinthi membranosi	Lining of membranous labyrinth
<b>E5.16.4.0.3.0.40</b>	Ganglion vestibulocochleare	Vestibulocochlear ganglion
<b>E5.16.4.0.3.0.41</b>	Ganglion spirale cochleae	Spiral ganglion §Corti§
<b>E5.16.4.0.3.0.42</b>	Vestibulocytus internus	Inner vestibular hair cell
<b>E5.16.4.0.3.0.43</b>	Vestibulocytus externus	Outer vestibular hair cell
<b>E5.16.4.0.3.0.36</b>	Vestibulocytus sustentans	Vestibular supporting cell
<b>E5.16.4.0.3.0.44</b>	Canalis spiralis cochleae	Spiral canal of cochlea §Corti; Rosenthal§

<sup>311</sup> E5.16.4.0.3.0.30 *Vestibulocytus I; Vestibulocytus piriformis* Type 1 vestibular hair cells are demonstrable in the 8 week embryo and they have synaptic vesicles at 9 weeks (Dechesne CJ, Sans A. Development of vestibular receptor surfaces in human fetuses. Am J Otolaryngol 1985;6:378-387).

<sup>312</sup> E5.16.4.0.3.0.34/ E5.16.4.0.3.0.35 *Cochleocytus internus/ Cochleocytus externus* Inner and outer hair cells of the cochlea can be found in the 10 and 11 week embryo, respectively (Pujol R, Lavigne-Rebillard M. Early stages of innervations and sensory cell differentiation in the human organ of Corti. Acta Otolaryngol Suppl. 1985;423:43-50). Ciliogenesis starts one week later in each cell type (Lavigne-Rebillard M, Pujol R. Development of the auditory hair cell surface in human fetuses. A scanning electron microscope study. Anat Embryol (Berl) 1986;174:369-377).



<b>E5.16.4.0.3.0.45</b>	Textum cristae neuralis oticae <sup>99</sup>	Otic neural crest tissue
<b>E4.0.3.4.0.0.5</b>	Neuron sensorium ganglionare vestibulare	Vestibular ganglion cell
<b>E4.0.3.4.0.0.6</b>	Neuron sensorium ganglionare cochleare	Cochlear ganglion cell
<b>E5.15.4.0.0.0.50</b>	Glioblastus ganglionaris spinalis implicans; Glioblastus ganglionaris radialis dorsalis implicans	Dorsal root ganglion ensheathing blast cell; Spinal ganglion ensheathing blast cell
<b>E4.0.3.3.3.1.8</b>	Gliocytyus ganglionicus	Ganglionic satellite cell
<b>E5.15.1.0.4.0.5</b>	Schwannoblastus; Schwannocytus primordialis	Schwannoblast; Primordial Schwann cell
<b>E4.0.3.3.3.1.9</b>	Schwannocytus	Schwann cell
<b>E5.16.4.0.4.0.1</b>	<b>Anomaliae auris</b>	<b>Ear anomalies</b>
<b>E5.16.4.0.4.1.1</b>	<b>Anomaliae auris externae</b> {vide paginam <b>XX</b> }	<b>Anomalies of external ear</b> {see page <b>XX</b> E5.3.0.0.2.0.1}
<b>E5.16.4.0.4.2.1</b>	<b>Anomaliae auris mediae</b>	<b>Anomalies of middle ear</b>
<b>E5.16.4.0.4.2.2</b>	Atresia cavitatis tympanicae	Atresia of tympanic cavity
<b>E5.16.4.0.4.2.3</b>	Dysplasia cavitatis tympanicae	Dysplasia of tympanic cavity
<b>E5.16.4.0.4.2.4</b>	Hypoplasia cavitatis tympanicae	Hypoplasia of tympanic cavity
<b>E5.16.4.0.4.2.5</b>	Aplasia fenestrae cochleae	Aplasia of round window
<b>E5.16.4.0.4.2.6</b>	Ectopia fenestrae cochleae	Ectopia of round window
<b>E5.16.4.0.4.2.7</b>	Aplasia fenestrae vestibuli	Aplasia of oval window
<b>E5.16.4.0.4.2.8</b>	Ankylotia; Otosclerosis	Ankylotia; Otosclerosis
<b>E5.16.4.0.4.2.9</b>	Aplasia ossiculorum auditus	Aplasia of auditory ossicles
<b>E5.16.4.0.4.2.10</b>	Dysplasia ossiculorum auditus	Dysplasia of auditory ossicles
<b>E5.16.4.0.4.2.11</b>	Hypoplasia ossiculorum auditus	Hypoplasia of auditory ossicles
<b>E5.16.4.0.4.2.12</b>	Hyperplasia ossiculorum auditus	Hyperplasia of auditory ossicles
<b>E5.16.4.0.4.2.13</b>	M. tensor tympani absens	Absent tensor tympani
<b>E5.16.4.0.4.2.14</b>	M. stapedius absens	Absent stapedius
<b>E5.16.4.0.4.2.15</b>	Aplasia tubae auditivae	Aplasia of pharyngotympanic tube
<b>E5.16.4.0.4.2.16</b>	Stenosis tubae auditivae	Stenosis of pharyngotympanic tube
<b>E5.16.4.0.4.2.17</b>	Canalis nervi facialis dehiscens	Facial canal dehiscence
<b>E5.16.4.0.4.2.18</b>	Persistencia arteriae stapediae	Persistent stapedial artery
<b>E5.16.4.0.4.3.1</b>	<b>Anomaliae auris internae</b>	<b>Anomalies of internal ear</b>
<b>E5.16.4.0.4.3.2</b>	Aplasia labyrinthi	Labyrinthine aplasia
<b>E5.16.4.0.4.3.3</b>	Hypoplasia labyrinthi	Labyrinthine hypoplasia
<b>E5.16.4.0.4.3.4</b>	Heteroplasia labyrinthi	Labyrinthine heteroplasia
<b>E5.16.4.0.4.3.5</b>	Ectopia labyrinthi	Ectopic labyrinth
<b>E5.16.4.0.4.3.6</b>	Absentia melanocytorum	Melanocyte absence
<b>E5.16.4.0.4.3.7</b>	Defectus melanocytorum	Melanocyte deficiency
<b>E5.16.4.0.4.3.8</b>	Aplasia meatus acustici interni	Aplasia of internal acoustic meatus
<b>E5.16.4.0.4.3.9</b>	Ectopia meatus acustici interni	Ectopia of internal acoustic meatus
<b>E5.16.4.0.4.3.10</b>	Hypoplasia meatus acustici interni	Hypoplasia of internal acoustic meatus
<b>E5.16.4.0.4.3.11</b>	Hyperplasia meatus acustici interni	Hyperplasia of internal acoustic meatus
<b>E5.16.4.0.4.3.12</b>	Aplasia fossae subarcuatae	Aplasia of subarcuate fossa
<b>E5.16.4.0.4.3.13</b>	Hypoplasia fossae subarcuatae	Hypoplasia of subarcuate fossa
<b>E5.16.4.0.4.3.14</b>	Ectopia fossae subarcuatae	Ectopia of subarcuate fossa
<b>E5.16.4.0.4.3.15</b>	Hyperplasia fossae subarcuatae	Hyperplasia of subarcuate fossa
<b>E5.17.0.0.0.0.1</b>	<b>Integumentum commune</b>	<b>The integument</b>
<b>E5.17.1.0.0.0.1</b>	<b>Cutis</b>	<b>Skin</b>
<b>E5.3.0.0.0.0.2</b>	<b>Epidermis</b>	<b>Epidermis</b>
<b>E5.0.3.0.0.0.3</b>	Ectoderma embryonicum <sup>121</sup>	Embryonic ectoderm
<b>E5.17.1.0.1.0.1</b>	Epidermis intitialis	Initial epidermis
<b>E5.3.0.0.0.0.3</b>	Periderma	Periderm
<b>E5.17.1.0.1.0.2</b>	Stratum basale	Basal layer
<b>E5.17.1.0.1.0.3</b>	Stratum intermedium	Intermediate layer
<b>E5.0.2.1.0.0.2</b>	Crista neuralis	Neural crest
<b>E4.0.4.1.0.0.5</b>	Ectomesenchyma; Mesenchyma cristae neuralis	Ectomesenchyme; Neural crest mesenchyme
<b>E5.15.4.0.0.0.48</b>	Terminatio neuralis libera	Free nerve ending
<b>E5.17.1.0.1.0.4</b>	Corpusculum sensorium non capsulatum	Nonencapsulated sensory corpuscle
<b>E5.17.1.0.1.0.5</b>	Epitheliocytus tactilis	Sensory epithelial cell §Merkel§
<b>E5.17.1.0.1.0.6</b>	Meniscus tactilis; Meniscus dendriticus	Tactile meniscus; Terminal meniscus
<b>E4.0.3.2.0.0.4</b>	Melanocytus	Melanocyte

<b>E5.12.1.1.0.0.1</b>	Medulla ossium rubra	Red bone marrow; Haematopoietic bone marrow <sup>▲</sup>
<b>E5.17.1.0.1.0.7</b>	Dendrocytus	Dendritic cell §Langerhans§
<b>E5.17.1.0.1.0.8</b>	Epidermis definitiva	Definitive epidermis
<b>E5.17.1.0.1.0.9</b>	Gemma glandularis epidermis	Epidermal glandular downgrowth
<b>E5.17.1.0.1.0.10</b>	Glandula sudorifera	Sweat gland
<b>E5.17.1.0.2.0.1</b>	<b>Dermis; Corium</b>	<b>Dermis</b>
<b>E5.16.4.0.3.0.18</b>	Mesenchyma <sup>359</sup>	Mesenchyme
<b>E4.0.4.1.0.0.2</b>	Mesenchyma somiticum	Somitic mesenchyme
<b>E5.17.1.0.2.0.2</b>	Mesenchyma dermatomiale	Dermatomal mesenchyme
<b>E4.0.4.1.0.0.3</b>	Mesenchyma somatopleurale <sup>206</sup>	Somatopleuric mesenchyme
<b>E4.0.4.1.0.0.4</b>	Mesenchyma splanchnopleurale <sup>207</sup>	Splanchnopleuric mesenchyme
<b>E5.2.0.3.2.0.2</b>	Ectoderma embryonicum anuli umbilicalis <sup>134</sup>	Embryonic ectoderm of umbilical ring
<b>E4.0.4.1.0.0.6</b>	Mesenchyma ex eminentia caudale	Mesenchyme from caudal eminence
<b>E4.0.4.1.0.0.5</b>	Ectomesenchyma; Mesenchyma cristae neuralis	Ectomesenchyme; Neural crest mesenchyme
<b>E5.17.1.0.2.0.3</b>	Plexus neuralis subepidermalis	Subepidermal nerve plexus
<b>E5.17.1.0.2.0.4</b>	Plexus neuralis dermalis	Dermal nerve plexus
<b>E5.15.4.0.0.0.48</b>	Terminatio neuralis libera	Free nerve ending
<b>E5.17.1.0.2.0.5</b>	Corpusculum sensorium capsulatum	Encapsulated sensory corpuscle
<b>E5.17.1.0.2.0.6</b>	Corpusculum nervosum lanceolatum	Lanceolate nerve corpuscle
<b>E5.17.1.0.2.0.7</b>	Terminatio lanceolata	Palisade ending
<b>E5.17.1.0.2.0.8</b>	Schwannocytus cuneiformis	Wedge-shaped Schwann cell
<b>E5.17.1.0.2.0.9</b>	Corpusculum ovoideum; Corpusculum tactile	Tactile corpuscle §Meissner§ §Wagner-Meissner§
<b>E5.17.1.0.2.0.10</b>	Terminatio spiralis	Spiral ending
<b>E5.17.1.0.2.0.8</b>	Schwannocytus cuneiformis	Wedge-shaped Schwann cell
<b>E5.17.1.0.2.0.11</b>	Corpusculum lamellosum	Lamellar corpuscle §Pacini§ §Vater-Pacini§
<b>E5.17.1.0.2.0.12</b>	Terminatio centralis	Central ending
<b>E5.17.1.0.2.0.13</b>	Cellula lamellosa	Lamellar cell
<b>E5.17.1.0.2.0.14</b>	Capsula perineuralis; Bulbus externus	External bulb; Outer core; Perineurial capsule
<b>E5.17.1.0.2.0.15</b>	Corpusculum sensorium fusiforme	Bulbous corpuscle §Ruffini§
<b>E5.17.1.0.2.0.16</b>	Fibra collageni centralis	Central collagen fibre <sup>▲</sup>
<b>E5.17.1.0.2.0.17</b>	Terminatio ramosa	Branching ending
<b>E5.17.1.0.2.0.18</b>	Capsula perineuralis	Perineurial capsule
<b>E5.17.1.0.3.0.1</b>	<b>Pilus</b>	<b>Hair</b>
<b>E5.17.1.0.3.0.2</b>	Gemma pili	Hair bud
<b>E5.17.1.0.3.0.3</b>	Folliculus epithelialis pili	Epithelial hair follicle
<b>E5.17.1.0.3.0.4</b>	Stipes pili; Scapus	Hair shaft
<b>E5.17.1.0.3.0.5</b>	Lanugo	Lanugo
<b>E5.17.1.0.3.0.6</b>	Glandula sebacea	Sebaceous gland
<b>E5.17.1.0.3.0.7</b>	Vernix caseosa	Vernix caseosa
<b>E5.17.1.0.4.0.1</b>	<b>Unguis</b>	<b>Nail</b>
<b>E5.17.1.0.4.0.2</b>	Campus unguis	Nail field
<b>E5.17.1.0.4.0.3</b>	Plica unguis	Nail fold
<b>E5.17.1.0.4.0.4</b>	Matrix unguis	Nail matrix
<b>E5.17.1.0.4.0.5</b>	Lamina unguis	Nail plate
<b>E5.17.1.0.4.0.6</b>	Eponychium	Eponychium
<b>E5.17.1.0.4.0.7</b>	Hyponychium	Hyponychium
<b>E5.17.1.0.5.0.1</b>	<b>Mamma</b> <sup>313</sup>	<b>Breast</b>
<b>E5.17.1.0.5.0.2</b>	Ectoderma mammaria	Mammary ectoderm
<b>E5.17.1.0.5.0.3</b>	Crista mammaria	Mammary crest
<b>E5.17.1.0.5.0.4</b>	Primordium epitheliale mammae	Epithelial mammary primordium
<b>E5.17.1.0.5.0.5</b>	Fovea mammaria	Mammary pit

<sup>313</sup> E5.17.1.0.5.0.1 *Mamma* The prenatal and prepubertal development of the mammary glands is similar in both sexes. In the newborn, both may secrete "witch's milk". The definitive male gland at 20 years is similar to that of the early pubertal female.

<b>E5.17.1.0.5.0.6</b>	Involutio cristae mammariae reliquae	Involution of remaining mammary crest
<b>E5.17.1.0.5.0.7</b>	Gemma ductus	Duct bud
<b>E5.17.1.0.5.0.8</b>	Gemma alveoli	Alveolar bud
<b>E5.16.4.0.3.0.18</b>	Mesenchyma <sup>359</sup>	Mesenchyme
<b>E5.17.1.0.5.0.9</b>	Stroma glandulae mammariae	Mammary gland stroma
<b>E5.17.1.0.5.0.10</b>	Glandula mammaria	Mammary gland
<b>E5.17.1.0.5.0.11</b>	Papilla mammae	Nipple
<b>E5.17.1.0.5.0.12</b>	Areola mammae	Areola
<b>E4.0.4.1.0.0.5</b>	Ectomesenchyma; Mesenchyma cristae neuralis	Ectomesenchyme; Neural crest mesenchyme
<b>E5.17.1.0.5.0.13</b>	Melanoblastus	Melanoblast
<b>E5.17.1.0.5.0.14</b>	Glandula areolaris	Areolar gland §Montgomery§
<b>E5.16.4.0.3.0.18</b>	Mesenchyma	Mesenchyme
<b>E5.17.1.0.2.0.1</b>	Dermis; Corium	Dermis
<b>E5.17.1.0.5.0.15</b>	Stroma mammae	Stroma of breast
<b>E4.0.4.1.0.0.15</b>	Textus adiposus albus	White adipose tissue
<b>E5.17.1.0.5.0.16</b>	Cutis mammae	Skin
<b>E5.17.1.0.6.0.1</b>	<b>Anomaliae integumenti communis</b>	<b>Anomalies of integument</b>
<b>E5.17.1.0.6.0.2</b>	Achoria	Achoria
<b>E5.17.1.0.6.0.3</b>	Aplasia cutis congenita; Aplasia cutis circumscripta	Congenital aplasia of the skin
<b>E5.17.1.0.6.0.4</b>	Dysplasia ectodermiae congenita	Congenital ectodermal dysplasia
<b>E5.17.1.0.6.0.5</b>	Epidermolysis bullosa	Epidermolysis bullosa; [EB]
<b>E5.17.1.0.6.0.6</b>	Epidermolysis bullosa simplex	Simple epidermolysis bullosa; Epidermal EB
<b>E5.17.1.0.6.0.7</b>	Epidermolysis bullosa simplex manuum et pedum	Simple epidermolysis bullosa of hands and feet; §Weber-Cockayne§
<b>E5.17.1.0.6.0.8</b>	Epidermolysis bullosa letalis	Junctional EB §Herlitz§
<b>E5.17.1.0.6.0.9</b>	Epidermolysis bullosa dystrophica	Dermal EB
<b>E5.17.1.0.6.0.10</b>	Ichthyosis	Ichthyosis
<b>E5.17.1.0.6.0.11</b>	Keratodermatosis mutilans hereditaria	Hereditary mutilating keratoderma §Vohwinkel§
<b>E5.17.1.0.6.0.12</b>	Polymerismus	Polymerism
<b>E5.17.1.0.6.0.13</b>	Pterygium colli	Webbed neck
<b>E5.17.1.0.6.0.14</b>	Dyschromia congenita	Abnormal colour of skin
<b>E5.17.1.0.6.0.15</b>	Albinismus	Albinism
<b>E5.17.1.0.6.0.16</b>	Albinismus non totus; Hypomelanosis	Partial albinism; Hypomelanosis; Piebaldism §Ito§
<b>E5.16.3.2.1.0.38</b>	Albinismus oculocutaneus	Oculocutaneous albinism
<b>E5.17.1.0.6.0.17</b>	Albinismus totus; Amelanosis	Total albinism; Amelanosis
<b>E5.17.1.0.6.0.18</b>	Heterochromia	Heteropigmentation
<b>E5.17.1.0.6.0.19</b>	Hypochromia	Hypopigmentation
<b>E5.17.1.0.6.0.20</b>	Melanismus	Melanism
<b>E5.17.1.0.6.0.21</b>	Naevus	Naevus <sup>▲</sup>
<b>E5.17.1.0.6.0.22</b>	Naevus achromicus	Nonpigmented naevus <sup>▲</sup>
<b>E5.17.1.0.6.0.23</b>	Naevus pigmentosus	Pigmented naevus <sup>▲</sup>
<b>E5.17.1.0.6.0.24</b>	Naevus vasculosus	Vascular naevus <sup>▲</sup>
<b>E5.17.1.0.6.0.25</b>	Cystis dermoidea congenita	Congenital dermoid cyst
<b>E5.17.1.0.6.0.26</b>	Cystis pilonidalis congenita	Congenital pilonidal cyst
<b>E5.17.1.0.6.0.27</b>	Fistula pilonidalis congenita	Congenital pilonidal fistula
<b>E5.17.1.0.6.0.28</b>	Sinus pilonidalis congenitus	Congenital pilonidal sinus
<b>E5.17.1.0.6.0.29</b>	Sinus dermalis congenitus	Congenital dermal sinus
<b>E5.17.1.0.6.1.1</b>	<b>Anomaliae unguis</b>	<b>Nail anomalies</b>
<b>E5.17.1.0.6.1.2</b>	Onychodystrophia	Onychodystrophy
<b>E5.17.1.0.6.1.3</b>	Anonychia	Anonychia
<b>E5.17.1.0.6.1.4</b>	Brachyonychia	Brachyonychia
<b>E5.17.1.0.6.1.5</b>	Hyperonychia	Hyperonychia
<b>E5.17.1.0.6.1.6</b>	Pachyonychia	Pachyonychia
<b>E5.17.1.0.6.1.7</b>	Polyonychia	Polyonychia
<b>E5.17.1.0.6.2.1</b>	<b>Anomaliae pili</b>	<b>Hair anomalies</b>
<b>E5.17.1.0.6.2.2</b>	Trichodystrophia	Trichodystrophy
<b>E5.17.1.0.6.2.3</b>	Alopecia totalis congenita; Atrichia	Alopecia universalis congenita; Atrichia §El-Shanti§
<b>E5.17.1.0.6.2.4</b>	Alopecia triangularis temporalis congenita	Congenital temporal or frontal baldness

<b>E5.17.1.0.6.2.5</b>	Atrichia congenita circumscripta	Circumscribed congenital atrichosis
<b>E5.17.1.0.6.2.6</b>	Atrichia congenita diffusa	Diffuse congenital atrichosis
<b>E5.17.1.0.6.2.7</b>	Hypertrichosis partialis congenita	Congenital patchy hypertrichosis
<b>E5.17.1.0.6.2.8</b>	Hypertrichosis lanuginosa congenita; Hypertrichosis universalis	Congenital hypertrichosis lanuginosa §Ambras§
<b>E5.17.1.0.6.2.9</b>	Hypotrichosis	Hypotrichosis
<b>E5.17.1.0.6.2.10</b>	Pilus tortus congenitus	Congenital twisted hair
<b>E5.17.1.0.6.2.11</b>	Monilethrix congenita	Congenital moniliform hair; Congenital beaded hair
<b>E5.17.1.0.6.2.12</b>	Pilus canaliculus congenitus; Pilus triangularis congenitus	Congenital spun glass hair
<b>E5.17.1.0.6.2.13</b>	Trichorrhaxis nodosa congenita	Congenital nodular hair
<b>E5.17.1.0.6.2.14</b>	Trichorrhaxis invaginata congenita	Congenital bamboo hair
<b>E5.17.1.0.6.2.15</b>	Trichoschisis congenita	Congenital split hair
<b>E5.17.1.0.6.2.16</b>	Trichothiodystrophia congenita	Trichothiodystrophy; Congenital brittle hair
<b>E5.17.1.0.6.3.1</b>	<b>Anomaliae mammae</b>	<b>Anomalies of breast</b>
<b>E5.17.1.0.6.3.2</b>	Amastia	Amastia
<b>E5.17.1.0.6.3.3</b>	Gynaecomastia	Gynaecomastia <sup>▲</sup>
<b>E5.17.1.0.6.3.4</b>	Hypermastia	Hypermastia
<b>E5.17.1.0.6.3.5</b>	Macromastia	Macromastia
<b>E5.17.1.0.6.3.6</b>	Micromastia	Micromastia
<b>E5.17.1.0.6.3.7</b>	Polymastia	Polymastia
<b>E5.17.1.0.6.3.8</b>	Athelia	Athelia
<b>E5.17.1.0.6.3.9</b>	Microthelia	Microthelia
<b>E5.17.1.0.6.3.10</b>	Papilla mammaria inversa congenita	Congenital inverted nipple
<b>E5.17.1.0.6.3.11</b>	Polythelia	Polythelia
<b>E5.17.1.0.6.3.12</b>	Papilla mammaria accessoria pectoris	Accessory pectoral nipple
<b>E5.17.1.0.6.3.13</b>	Papilla mammaria axillaris	Axillary nipple
<b>E5.17.1.0.6.3.14</b>	Papilla mammaria inguinalis	Inguinal nipple
<b>E5.17.2.0.0.0.1</b>	<b>Tela subcutanea</b>	<b>Subcutaneous tissue</b>
<b>E5.16.4.0.3.0.18</b>	Mesenchyma <sup>359</sup>	Mesenchyme
<b>E4.0.4.1.0.0.2</b>	Mesenchyma somiticum	Somitic mesenchyme
<b>E5.17.1.0.2.0.2</b>	Mesenchyma dermatomiale	Dermatomal mesenchyme
<b>E4.0.4.1.0.0.3</b>	Mesenchyma somatopleurale <sup>206</sup>	Somatopleuric mesenchyme
<b>E5.2.0.3.2.0.2</b>	Ectoderma embryonicum anuli umbilicalis <sup>134</sup>	Embryonic ectoderm of umbilical ring
<b>E4.0.4.1.0.0.6</b>	Mesenchyma ex eminentia caudale	Mesenchyme from caudal eminence
<b>E4.0.4.1.0.0.5</b>	Ectomesenchyma; Mesenchyma cristae neuralis	Ectomesenchyme; Neural crest mesenchyme
	<b>Adnexa embryonica et fetalia; Membranae extraembryonicae et fetales<sup>17</sup></b>	<b>Developmental adnexa; Extra-embryonic and fetal membranes</b>
	<i>Nomina generalia</i>	<i>General terms</i>
<b>E6.0.0.0.0.0.1</b>	Nutritio <sup>314</sup>	Nutrition
<b>E6.0.0.0.0.0.2</b>	Endotrophia	Endotrophe <sup>▲</sup>
<b>E6.0.0.0.0.0.3</b>	Exotrophia	Exotrophe <sup>▲</sup>
<b>E6.0.0.0.0.0.4</b>	Embryotrophia	Embryotrophe <sup>▲</sup>
<b>E6.0.0.0.0.0.5</b>	Haemotrophia	Haemotrophe <sup>▲</sup>
<b>E6.0.0.0.0.0.6</b>	Histiotrophia	Histiotrophe <sup>▲</sup>
<b>E6.0.1.0.0.0.1</b>	<b>Adnexa embryonica<sup>315</sup></b>	<b>Embryonic adnexa</b>
<b>E6.0.1.1.0.0.1</b>	<b>ADNEXA EMBRYONICA ANTE DIEM 19</b>	<b>EMBRYONIC ADNEXA BEFORE DAY 19</b>
<b>E2.0.1.2.0.0.11</b>	<b>Morula<sup>353</sup></b>	<b>Morula</b>

<sup>314</sup> E6.0.0.0.0.0.1 *Nutritio* Nutrients originating inside the conceptus as a result of specific metabolic processes such as liquefaction of its cells are described as *endotrophe*. Nutrients originating outside the conceptus from maternal blood (*haemotrophe*<sup>▲</sup>) or as a result of liquefaction of maternal cells (*histiotrophe*) are described as *exotrophe* (Blechsmidt E, Gasser R. Biokinetics and biodynamics of human differentiation. Springfield: Charles C Thomas; 1978).

<sup>315</sup> E6.0.1.0.0.0.1 *Adnexa embryonica* The terms for the development of the extra-embryonic membranes are presented here in temporal sequence, which entails some repetition and, in the earlier stages, include items previously thought to give rise only to embryonic tissues: in particular, the *embryoblast* gives rise to both extra-embryonic and embryonic tissues; hence the alternative term *pluriblast* which recognizes this.

<b>E6.0.1.1.1.0.1</b>	Cellula externa morulae; Cellula trophoblastica praesumptiva; Cellula polarisata; Polarblastus <sup>316</sup>	Outer cell of morula; Presumptive trophoblastic cell; Polarized cell; Polarblast
<b>E6.0.1.1.1.0.2</b>	Cellula interna morulae; Cellula embryoblastica praesumptiva; Pluriblastus initialis <sup>317</sup>	Inner cell of morula; Presumptive embryoblastic cell; Early pluriblast
<b>E6.0.1.1.2.0.1</b>	<b>Blastocystis unilaminaris</b> <sup>318</sup>	<b>Unilaminar blastocyst</b>
<b>E6.0.1.1.2.0.2</b>	Trophoblastus; Massa cellularis externa <sup>319</sup>	Trophoblast; Outer cell mass; Trophoctoderm
<b>E6.0.1.1.2.0.3</b>	Cavitas blastocystica <sup>360</sup>	Blastocystic cavity; Blastocyst cavity
<b>E6.0.1.1.2.0.4</b>	Embryoblastus; Massa cellularis interna; Pluriblastus serior <sup>355</sup>	Embryoblast; Inner cell mass; Late pluriblast
<b>E6.0.1.1.3.0.1</b>	<b>Blastocystis bilaminaris</b>	<b>Bilaminar blastocyst</b>
<b>E6.0.1.1.2.0.2</b>	Trophoblastus; Massa cellularis externa <sup>319</sup>	Trophoblast; Outer cell mass; Trophoctoderm
<b>E6.0.1.1.2.0.3</b>	Cavitas blastocystica <sup>360</sup>	Blastocystic cavity; Blastocyst cavity
<b>E6.0.1.1.3.0.2</b>	Endoblastus extraembryonicus; Membrana exocoelomica <sup>368</sup>	Extra-embryonic endoblast; Exocoelomic membrane; Primary endoderm <sup>▲</sup>
<b>E5.0.2.2.1.0.1</b>	Epiblastus <sup>357</sup>	Epiblast; Primary ectoderm
<b>E6.0.1.1.3.0.3</b>	Cavitas amniotica primordialialis <sup>363</sup>	Primordial amniotic cavity
<b>E6.0.1.1.3.0.4</b>	Hypoblastus <sup>358</sup>	Hypoblast; Primary endoderm
<b>E6.0.1.1.4.0.1</b>	<b>Blastocystis trilaminaris</b>	<b>Trilaminar blastocyst</b>
<b>E6.0.1.1.4.0.2</b>	Syncytiotrophoblastus	Syncytiotrophoblast
<b>E6.0.1.1.4.0.3</b>	Lacunae trophoblasticae	Trophoblastic lacunae
<b>E6.0.1.1.4.0.4</b>	Circulus lacunosus vascularis	Lacunar vascular circle
<b>E6.0.1.1.4.0.5</b>	Cytotrophoblastus	Cytotrophoblast
<b>E6.0.1.1.4.0.6</b>	Aggregatio praevillosa cytotrophoblasti	Previllous clump of cytotrophoblast
<b>E6.0.1.1.4.0.7</b>	Cavitas trophoeplastica <sup>320</sup>	Tropho-epiblastic cavity
<b>E6.0.1.1.4.0.8</b>	Amnioblastus; Cellulae amniogenicae <sup>321</sup>	Amnioblast; Amniogenic cells; Amniotic ectoderm
<b>E6.0.1.1.4.0.9</b>	Amnion primordiale	Primordial amnion
<b>E6.0.1.1.4.0.10</b>	Cavitas amniotica definitiva	Definitive amniotic cavity
<b>E2.0.1.2.0.0.14</b>	Discus embryonicus	Embryonic disc
<b>E5.0.2.2.1.0.1</b>	Epiblastus <sup>357</sup>	Epiblast; Primary ectoderm
<b>E6.0.1.1.4.0.11</b>	Area caudalis mesoblastogenica <sup>366</sup>	Caudal mesoblastogenic area
<b>E6.0.1.1.4.0.12</b>	Mesoblastus extraembryonicus <sup>367</sup>	Extra-embryonic mesoblast
<b>E6.0.1.1.4.0.13</b>	Textus angioblasticus mesoblasti <sup>370</sup>	Angioblastic tissue of mesoblast
<b>E6.0.1.1.4.0.14</b>	Crista praevillosa mesoblasti <sup>370</sup>	Previllous crest of mesoblast

<sup>316</sup> E6.0.1.1.1.0.1 *Cellula externa morulae; Cellula trophoblastica praesumptiva; Cellula polarisata; Polarblastus* The outer cells of the morula are polarized and are asymmetrical cells with the characteristics of epithelia. Their longitudinal divisions are conservative and result only in more polarized cells. Their transverse divisions are differentiative and result in both unpolarized embryoblastic cells and polarized cells. Cells remaining polarized become trophoblast (Johnson MH. Origin of pluriblast and trophoblast in the eutherian conceptus. *Reprod Fertil Dev* 1996;8:699-709). The term polarblast appropriately describes the tissue.

<sup>317</sup> E6.0.1.1.1.0.2 *Cellula interna morulae; Cellula embryoblastica praesumptiva; Pluriblastus initialis* The inner cells of the morula are unpolarized and remain rounded and radially symmetrical. Their divisions are conservative and result only in more unpolarized cells. They will become the embryoblast or inner cell mass. The term *pluriblast* (Johnson MH. Origin of pluriblast and trophoblast in the eutherian conceptus. *Reprod Fertil Dev* 1996;8:699-709) recognizes the fact that its derivatives are both extra-embryonic or adnexal and embryonic or cyemic.

<sup>318</sup> E6.0.1.1.2.0.1 *Blastocystis unilaminaris [St 3]* The cavity of a *unilaminar blastocyst* is surrounded by a single layered extra-embryonic ectodermal membrane, the trophoblast; in the bilaminar blastocyst, the trophoblast is lined by extra-embryonic endoblast; the interposition of extra-embryonic mesoderm creates the trilaminar blastocyst.

<sup>319</sup> E6.0.1.1.2.0.2 *Trophoblastus; Massa cellularis externa* The term trophoblast is preferred for this tissue, which is defined as the earliest appearing stem cell population dedicated to nourishment of future embryonic tissues. Its cells are adhesive, migratory and, initially, multinucleate. They appear, at least in the mouse, to signal the specification of primordial germ cells and the allantois in the caudal epiblast (Lawson KA, Dunn NR, Roelen BA, Zeinstra LM, Davies AM, Wright CV, Corving JP, Hogan BL. Bmp4 is required for the generation of primordial germ cells in the mouse embryo. *Genes Dev* 1999;13:424-436). The term trophoctoderm and its variants are not recommended because current usage postpones the use of the suffix -derm until after gastrulation (Johnson MH and Selwood L. Nomenclature of early development in mammals. *Reprod Fertil Dev* 1996;8:759-64). Other alternatives that include the term ectoderm, the use of which should be limited to the cells remaining on the dorsal surface of the embryo after the early somite stage, are not recommended.

<sup>320</sup> E6.0.1.1.4.0.7 *Cavitas trophoeplastica* It appears that the roof of the primordial amniotic cavity breaks down, creating a transient tropho-epiblastic cavity, present in most conceptuses of Stage 5a (Luckett WP. The development of primordial and definitive amniotic cavities in early Rhesus monkey and human embryos *Am J Anat* 1975;144:149-168).

<sup>321</sup> E6.0.1.1.4.0.8 *Amnioblastus; Cellulae amniogenicae* The term *amnioblast* is preferred for this tissue as it provides appropriate information about its site, fate and potential. Extra-embryonic ectoderm is least preferred because current usage postpones the use of the suffix -derm until after gastrulation (Johnson MH and Selwood L. Nomenclature of early development in mammals. *Reprod Fertil Dev* 1996;8:759-64). Other alternatives that include the suffix -derm are not recommended.

<b>E6.0.1.1.4.0.15</b>	Reticulum extraembryonicum; Magma reticulare <sup>371</sup>	Extra-embryonic reticulum; Mesenchymal reticulum
<b>E6.0.1.1.3.0.4</b>	Hypoblastus <sup>358</sup>	Hypoblast; Primary endoderm
<b>E6.0.1.1.4.0.16</b>	Pedunculus connectans primordialis	Primordial connecting stalk
<b>E6.0.1.1.4.0.17</b>	Cavitas vesiculae umbilicalis primariae; Cavitas sacci vitellini primarii <sup>322</sup>	Cavity of primary umbilical vesicle; Cavity of primaryYolk sac
<b>E6.0.1.1.4.0.18</b>	Endoblastus extraembryonicus trophoblasto applicatus	Extra-embryonic endoblast applied to trophoblast
<b>E6.0.1.1.4.0.19</b>	Vesicula umbilicalis primaria; Saccus vitellinus primarius <sup>322</sup>	Primary umbilical vesicle; Primary yolk sac
<b>E6.0.1.1.4.0.20</b>	Operculum deciduale	Decidual operculum
<b>E6.0.1.1.5.0.1</b>	<b>Saccus chorionicus immaturus; Vesicula chorionica immatura</b>	<b>Early chorionic sac; Early chorionic vesicle</b>
<b>E6.0.1.1.5.0.2</b>	Chorion frondosum <sup>323</sup>	Chorion frondosum; Villous chorion
<b>E6.0.1.1.5.0.3</b>	Vesicula chorionica	Chorionic sac; Chorionic vesicle
<b>E6.0.1.1.5.0.4</b>	Cavitas chorionica; Coeloma extraembryonicum	Chorionic cavity; Extra-embryonic coelom <sup>▲</sup>
<b>E6.0.1.1.5.0.5</b>	Mesoblastus extraembryonicus caudaliter et dorsaliter amnioblasto et trophoblasto adjunctus	Extra-embryonic mesoblast applied to amnioblast and trophoblast caudodorsally
<b>E6.0.1.1.5.0.6</b>	Mesoblastus extraembryonicus amnioblasto toto adjunctus	Extra-embryonic mesoblast applying to whole amnioblast
<b>E6.0.1.1.5.0.7</b>	Amnion definitivum	Definitive amnion
<b>E6.0.1.1.5.0.8</b>	Cavitas amniotica	Amniotic cavity
<b>E6.0.1.1.5.0.9</b>	Liquor amnioticus	Amniotic fluid
<b>E2.0.1.2.0.0.14</b>	Discus embryonicus	Embryonic disc
<b>E5.11.3.1.1.0.4</b>	Pedunculus connectans	Connecting stalk
<b>E6.0.1.1.5.0.10</b>	Gemma alloenterica	Alloenteric bud
<b>E5.7.3.0.1.0.1</b>	Diverticulum allantoicum; Ductus allantoicus	Allantoic diverticulum; Allantoic duct
<b>E6.0.1.1.5.0.11</b>	Vasa primordialis pedunculi connectantis	Primordial vessels of connecting stalk
<b>E6.0.1.1.5.0.12</b>	Pedunculus vesiculae umbilicalis; Pedunculus sacci vitellini	Umbilical stalk; Stalk of yolk sac
<b>E6.0.1.1.5.0.13</b>	Cavitas vesiculae umbilicalis secundariae; Cavitas sacci vitellini secundarii <sup>322</sup>	Cavity of secondary umbilical vesicle; Cavity of secondary yolk sac
<b>E6.0.1.1.5.0.14</b>	Endoderma extraembryonicum vesiculae umbilicalis; Endoderma extraembryonicum sacci vitellini	Extra-embryonic endoderm of umbilical vesicle; Extra-embryonic endoderm of yolk sac
<b>E6.0.1.1.5.0.15</b>	Mesoblastus extraembryonicus endodermati extraembryonico adjunctus	Extra-embryonic mesoblast applied to extra-embryonic endoderm
<b>E6.0.1.1.5.0.16</b>	Vesicula umbilicalis secundaria; Saccus vitellinus secundarius <sup>322</sup>	Secondary umbilical vesicle; Secondary yolk sac
<b>E6.0.1.1.5.0.12</b>	Pedunculus vesiculae umbilicalis; Pedunculus sacci vitellini	Umbilical stalk; Stalk of yolk sac
<b>E6.0.1.1.5.0.17</b>	Vasa omphalomesenterica; Vasa vitellina	Omphalomesenteric vessels; Vitelline vessels
<b>E5.4.7.0.0.0.5</b>	Ductus omphaloentericus; Ductus vitellointestinalis	Omphalo-enteric duct; Vitello-intestinal duct; Yolk stalk
<b>E6.0.1.2.0.0.1</b>	<b>PARTES MEMBRANARUM EXTRAEMBRYONICARUM POST DIEM 19</b>	<b>COMPONENTS OF EXTRA-EMBRYONIC MEMBRANES AFTER DAY 19</b>
<b>E6.0.1.2.0.0.2</b>	Allantois	Allantois
<b>E6.0.1.1.5.0.10</b>	Gemma alloenterica	Alloenteric bud
<b>E3.0.0.6.1.0.5</b>	Canalisatio	Canalisation
<b>E6.0.1.2.0.0.3</b>	Pars proximalis	Proximal part
<b>E6.0.1.2.0.0.4</b>	Murus ventralis metenteri	Ventral wall of hindgut
<b>E6.0.1.2.0.0.5</b>	Pars distalis	Distal part

<sup>322</sup> E6.0.1.1.4.0.17/ E6.0.1.1.4.0.19/ E6.0.1.1.5.0.13/ E6.0.1.1.5.0.16 *Cavitas vesiculae umbilicalis primariae; Cavitas sacci vitellini primarii/Vesicula umbilicalis primaria; Saccus vitellinus primarius/Cavitas vesiculae umbilicalis secundariae; Cavitas sacci vitellini secundarii/Vesicula umbilicalis secundaria; Saccus vitellinus secundarius* The term umbilical vesicle, which has been in use for many years, is preferred because yolk (Latin *vitellus*) is not present in the human vesicle and because the term indicates location, the vesicle being a feature of the umbilical region of the embryo and becoming, at least partially, incorporated into the umbilical cord.

<sup>323</sup> E6.0.1.1.5.0.2 *Chorion frondosum* The predecidual reaction around embryos of Carnegie Stage 5 becomes a full-blown decidual reaction around embryos of Carnegie Stage 6, with the transformation of stromal cells into decidual cells: they become rounded or polyhedral and glycogen, lipids and mitochondria accumulate within their vacuolated cytoplasm.

<b>E5.7.3.0.1.0.1</b>	Diverticulum allantoicum; Ductus allantoicus	Allantoic diverticulum; Allantoic duct
<b>E6.0.1.2.0.0.6</b>	Pedunculus allantoicus	Allantoic part of connecting stalk
<b>E5.7.3.0.1.0.1</b>	Diverticulum allantoicum; Ductus allantoicus	Allantoic diverticulum; Allantoic duct
<b>E6.0.1.2.0.0.7</b>	Mesenchyma allantoicum	Allantoic mesenchyme
<b>E6.0.1.2.0.0.8</b>	Vasa allantoica	Allantoic vessels
<b>E6.0.1.2.0.0.9</b>	Amnion	Amnion
<b>E6.0.1.2.0.0.10</b>	Ectoderma extraembryonicum	Extra-embryonic ectoderm
<b>E6.0.1.2.0.0.11</b>	Mesenchyma amnioticum	Amniotic mesenchyme
<b>E6.0.1.2.0.0.12</b>	Mesothelium amnioticum	Amniotic mesothelium
<b>E5.11.3.1.1.0.3</b>	Chorion	Chorion
<b>E6.0.1.1.2.0.2</b>	Trophoblastus; Massa cellularis externa <sup>319</sup>	Trophoblast; Outer cell mass; Trophoctoderm
<b>E6.0.1.2.0.0.13</b>	Mesenchyma chorionicum	Chorionic mesenchyme
<b>E6.0.1.2.0.0.14</b>	Mesothelium chorionicum	Chorionic mesothelium
<b>E6.0.1.1.5.0.2</b>	Chorion frondosum <sup>323</sup>	Chorion frondosum; Villous chorion
<b>E6.0.1.2.0.0.15</b>	Villus primarius	Primary villus
<b>E6.0.1.2.0.0.16</b>	Trophoblastus villosus	Villous trophoblast
<b>E6.0.1.1.4.0.2</b>	Syncytiotrophoblastus	Syncytiotrophoblast
<b>E6.0.1.2.0.0.17</b>	Villus secundarius	Secondary villus
<b>E6.0.1.2.0.0.18</b>	Centrum cytotrophoblasticum villi secundarii	Cytotrophoblastic core of secondary villus
<b>E6.0.1.2.0.0.19</b>	Centrum mesenchymale villi secundarii	Mesenchymal core of secondary villus
<b>E6.0.1.2.0.0.20</b>	Villus tertiaris	Tertiary villus
<b>E6.0.1.2.0.0.21</b>	Vasa primordialia villi tertiaris	Primordial vessels of tertiary villus
<b>E6.0.1.2.0.0.22</b>	Villus mesenchymalis <sup>324</sup>	Mesenchymal villus
<b>E6.0.1.2.0.0.23</b>	Villus ancorans	Anchoring villus
<b>E6.0.1.2.0.0.24</b>	Trophoblastus extravillosus <sup>325</sup>	Extravillous trophoblast [EVT]
<b>E6.0.1.2.0.0.25</b>	Cytotrophoblastus interstitialis <sup>326</sup>	Interstitial cytotrophoblast
<b>E6.0.1.2.0.0.26</b>	Cytotrophoblastus endovascularis <sup>327</sup>	Endovascular cytotrophoblast
<b>E6.0.1.2.0.0.27</b>	Villus liber	Floating villus
<b>E6.0.1.2.0.0.28</b>	Villus ramosus	Branching villus
<b>E6.0.1.2.0.0.29</b>	Spatium intervillousum	Intervillous space
<b>E6.0.1.2.0.0.30</b>	Spatium subchorionicum	Subchorial lake
<b>E6.0.1.2.0.0.31</b>	Sinus marginalis	Marginal sinus
<b>E6.0.1.2.0.0.32</b>	Testa trophoblastica	Trophoblastic shell
<b>E6.0.1.2.0.0.33</b>	Cellula trophoblastica mononucleata	Mononuclear trophoblastic cell
<b>E6.0.1.2.0.0.34</b>	Cellula gigantea trophoblastica mononucleata	Mononuclear trophoblastic giant cell
<b>E6.0.1.2.0.0.35</b>	Cellula gigantea trophoblastica multinucleata	Multinuclear trophoblastic giant cell
<b>E6.0.1.2.0.0.36</b>	Cellula gigantea trophoblastica intravascularis	Intravascular trophoblastic giant cell
<b>E6.0.1.2.0.0.37</b>	Chorion laeve	Chorion laeve; Smooth chorion <sup>▲</sup>
<b>E5.7.1.0.0.0.4</b>	Vesicula umbilicalis; Saccus vitellinus <sup>242</sup>	Umbilical vesicle; Yolk sac
<b>E6.0.1.1.5.0.14</b>	Endoderma extraembryonicum vesiculae umbilicalis; Endoderma extraembryonicum sacci vitellini	Extra-embryonic endoderm of umbilical vesicle; Extra-embryonic endoderm of yolk sac
<b>E5.7.1.0.0.0.2</b>	Cellula germinalis praecursoria <sup>381</sup>	Primordial germ cell

<sup>324</sup> E6.0.1.2.0.0.22 *Villus mesenchymalis* Until Stage 23 all villi are *mesenchymal villi* and are inconspicuous, "with loose connective tissue, rich in mesenchymal cells, poor in fibres; few capillaries with signs of capillary sprouting; numerous cytotrophoblasts; and thick syncytiotrophoblastic layer, extending in trophoblastic sprouts." In the first two trimesters mesenchymal villi develop into immature intermediate villi, which themselves develop into *stem villi*. In the third trimester mesenchymal villi develop into mature intermediate villi and they and stem villi develop terminal villi (Castelluci M, Scheper M, Scheffen I, Celona A and Kaufmann P. The development of the human placental villous tree. *Anat Embryol* 1990;181:117-128).

<sup>325</sup> E6.0.1.2.0.0.24 *Trophoblastus extravillosus* *Extravillous trophoblast* is a highly migratory, proliferative and invasive population of cells that emerges from the tips of anchoring villi (Lyll F. Mechanisms regulating cytotrophoblast invasion in normal pregnancy and pre-eclampsia. *Aust NZ J Obstet Gynaecol* 2006;46:266-273). It infiltrates the maternal tissues in two phases: the first results in giant cells in the decidua basalis around the spiral arteries, which they penetrate; in the second phase giant cells reach the inner one-third of the myometrium by extravascular and intravascular routes.

<sup>326</sup> E6.0.1.2.0.0.25 *Cytotrophoblastus interstitialis* *Interstitial cytotrophoblast* invades the decidual stroma and superficial myometrium, including the walls of spiral vessels (Pijnenborg R, Bland JM, Robertson WB, Dixon G, Brosens I. The pattern of interstitial trophoblast invasion in early human pregnancy. *Placenta* 1981;2:303-316).

<sup>327</sup> E6.0.1.2.0.0.26 *Cytotrophoblastus endovascularis* When interstitial cytotrophoblast has penetrated the wall of a spiral vessel, it becomes *endovascular cytotrophoblast*, which invades the lumen and a small muscular artery is transformed into a distended flaccid vessel (Pijnenborg R, Bland JM, Robertson WB, Dixon G, Brosens I. Uteroplacental arterial changes related to interstitial trophoblast migration in early human pregnancy. *Placenta* 1983;4:397-414).

<b>E6.0.1.2.0.0.38</b>	Mesenchyma vesiculae umbilicalis; Mesenchyma sacci vitellini	Umbilical vesicle mesenchyme; Yolk sac mesenchyme
<b>E6.0.1.2.0.0.39</b>	Mesothelium vesiculae umbilicalis; Mesothelium sacci vitellini	Mesothelium of umbilical vesicle; Mesothelium of yolk sac
<b>E6.0.1.3.0.0.1</b>	<b>FUNICULUS UMBILICALIS INITIALIS</b>	<b>EARLY UMBILICAL CORD</b>
<b>E6.0.1.3.0.0.2</b>	Amniochorion	Amniochorion
<b>E6.0.1.3.0.0.3</b>	Textus mucoideus connectivus	Mucoid connective tissue
<b>E6.0.1.3.0.0.4</b>	Aa. umbilicales	Umbilical arteries
<b>E5.11.2.2.1.0.4</b>	Vv. umbilicales	Umbilical veins
<b>E5.4.7.0.0.0.1</b>	Ansa umbilicalis intestini	Midgut loop; Umbilical intestinal loop
<b>E5.4.7.0.0.0.5</b>	Ductus omphaloentericus; Ductus vitellointestinalis	Omphalo-enteric duct; Vitello-intestinal duct; Yolk stalk
<b>E5.7.1.0.0.0.4</b>	Vesicula umbilicalis; Saccus vitellinus <sup>242</sup>	Umbilical vesicle; Yolk sac
<b>E5.7.3.0.1.0.1</b>	Diverticulum allantoicum; Ductus allantoicus	Allantoic diverticulum; Allantoic duct
<b>E5.8.0.0.1.0.3</b>	Coeloma umbilicale <sup>205</sup>	Umbilical coelom <sup>▲</sup>
<b>E6.0.1.4.0.0.1</b>	<b>PARTES MATERNÆ MEMBRANARUM</b>	<b>MATERNAL PARTS OF MEMBRANES</b>
<b>E6.0.1.4.0.0.2</b>	Endometrium basale	Basal endometrium
<b>E6.0.1.4.0.0.3</b>	Reactio praedecidualis	Predecidual reaction
<b>E6.0.1.4.0.0.4</b>	Margo syncytiodecidualis <sup>328</sup>	Syncytiodecidual interface
<b>E6.0.1.4.0.0.5</b>	Reactio decidualis	Decidual reaction
<b>E6.0.1.4.0.0.6</b>	Cellulae deciduales	Decidual cells
<b>E6.0.1.4.0.0.7</b>	Decidua	Decidua
<b>E6.0.1.4.0.0.8</b>	Decidua basalis	Basal decidua
<b>E6.0.1.4.0.0.9</b>	Cryptae endometrii	Endometrial crypts
<b>E6.0.1.4.0.0.10</b>	Septa placentae <sup>329</sup>	Placental septa
<b>E6.0.1.4.0.0.11</b>	Insulae cellularum placentae <sup>329</sup>	Placental cell islands
<b>E6.0.1.4.0.0.12</b>	Glandulae uterinae	Uterine glands
<b>E6.0.1.4.0.0.13</b>	Zona limitans decidualis <sup>330</sup>	Decidual boundary zone
<b>E6.0.1.4.0.0.14</b>	Substantia fibrinoidea	Fibrinoid substance
<b>E6.0.1.4.0.0.15</b>	Decidua capsularis	Capsular decidua
<b>E6.0.1.1.4.0.20</b>	Operculum deciduale	Decidual operculum
<b>E6.0.1.4.0.0.16</b>	Decidua parietalis	Parietal decidua
<b>E6.0.2.0.0.0.1</b>	<b>Adnexa fetalia<sup>17</sup></b>	<b>Fetal membranes</b>
<b>E6.0.2.1.0.0.1</b>	<b>MEMBRANÆ FETALES DEFINITIVÆ</b>	<b>DEFINITIVE FETAL MEMBRANES</b>
<b>E6.0.1.2.0.0.9</b>	Amnion	Amnion
<b>E5.11.3.1.1.0.3</b>	Chorion	Chorion
<b>E6.0.1.3.0.0.2</b>	Amniochorion	Amniochorion
<b>E6.0.1.4.0.0.7</b>	Decidua	Decidua
<b>E5.11.3.1.1.0.5</b>	Placenta	Placenta
<b>E6.0.2.2.0.0.1</b>	<b>FUNICULUS UMBILICALIS</b>	<b>UMBILICAL CORD</b>
<b>E6.0.1.2.0.0.9</b>	Amnion	Amnion
<b>E6.0.1.3.0.0.3</b>	Textus mucoideus connectivus	Mucoid connective tissue
<b>E6.0.1.3.0.0.4</b>	Aa. umbilicales	Umbilical arteries
<b>E6.0.2.2.0.0.2</b>	Anastomosis interarterialis transversa	Transverse interarterial anastomosis §Hyrtl§
<b>E6.0.2.2.0.0.3</b>	V. umbilicalis impar	Unpaired umbilical vein
<b>E5.4.7.0.0.0.5</b>	(Ductus omphaloentericus; Ductus vitellointestinalis)	(Omphalo-enteric duct; Vitello-intestinal duct; Yolk stalk)
<b>E5.7.3.0.1.0.1</b>	(Diverticulum allantoicum; Ductus allantoicus)	(Allantoic diverticulum; Allantoic duct)
<b>E6.0.2.3.0.0.1</b>	<b>PARTES PLACENTÆ MATURENTIS</b>	<b>PARTS OF MATURING PLACENTA</b>
<b>E6.0.2.3.0.1.1</b>	<b>Lamina chorionica</b>	<b>Chorionic plate</b>
<b>E6.0.1.2.0.0.12</b>	Mesothelium amnioticum	Amniotic mesothelium

<sup>328</sup> E6.0.1.4.0.0.4 *Margo syncytiodecidualis* The *endometrium* responds to the presence of syncytiotrophoblast by undergoing the predecidual reaction, characterized by oedema and then saw-toothed glands, particularly in the stratum spongiosum. It is thenceforward called *decidua*.

<sup>329</sup> E6.0.1.4.0.0.10/ E6.0.1.4.0.0.11 *Septa placentae/Insulae cellularum placentae* Placental septa and Cell islands are of mixed fetal and maternal origin, trophoblast being applied to decidual cores.

<sup>330</sup> E6.0.1.4.0.0.13 *Zona limitans decidualis* The *decidual boundary zone* is the part of the decidua in contact with the trophoblastic shell.



<b>E5.16.3.1.0.0.11</b>	Epithelium simplex cuboideum	Simple cuboidal epithelium
<b>E5.7.1.0.0.0.4</b>	(Vesicula umbilicalis; Saccus vitellinus) <sup>331</sup>	(Umbilical vesicle; Yolk sac)
<b>E6.0.2.3.0.1.2</b>	Stratum textus connectivus compactus	Dense connective tissue layer
<b>E6.0.2.3.0.1.3</b>	Vasa umbilicalia	Umbilical vessels
<b>E6.0.1.1.4.0.5</b>	Cytotrophoblastus	Cytotrophoblast §Langhans§
<b>E6.0.1.4.0.0.14</b>	Substantia fibrinoidea <sup>332</sup>	Fibrinoid substance §Langhans§
<b>E6.0.2.3.0.1.4</b>	Paries internus syncytialis spatii intervilliosi	Syncytial inner wall of intervillous space
<b>E6.0.2.3.0.2.1</b>	<b>Cotyledo; Lobulus</b>	<b>Cotyledon; Lobule</b>
<b>E6.0.2.3.0.2.2</b>	Cotyledo maternalis <sup>333</sup>	Maternal cotyledon
<b>E6.0.2.3.0.2.3</b>	Cotyledo fetalis <sup>334</sup>	Fetal cotyledon
<b>E6.0.2.3.0.2.4</b>	Villus peduncularis major; Truncus chorii <sup>335</sup>	Main stem villus; Anchoring stem villus
<b>E6.0.2.3.0.2.5</b>	Villus peduncularis <sup>336</sup>	Stem villus
<b>E6.0.2.3.0.2.6</b>	Villus intermedius immaturus <sup>337</sup>	Immature intermediate villus
<b>E6.0.1.2.0.0.22</b>	Villus mesenchymalis <sup>324</sup>	Mesenchymal villus
<b>E6.0.2.3.0.2.7</b>	Gemma villosa	Villous sprout
<b>E6.0.2.3.0.2.8</b>	Villus terminalis <sup>338</sup>	Terminal villus
<b>E6.0.2.3.0.3.1</b>	<b>Elementa villi</b>	<b>Components of villi</b>
<b>E6.0.2.3.0.3.2</b>	Centrum villi	Core of villus
<b>E6.0.2.3.0.3.3</b>	Textus connectivus compactus	Dense connective tissue
<b>E5.13.2.0.0.0.2</b>	Fibroblastus	Fibroblast
<b>E6.0.2.3.0.3.4</b>	Myofibroblastus	Myofibroblast
<b>E5.11.2.3.0.0.10</b>	Macrophagocytus	Macrophage §Hofbauer§
<b>E6.0.2.3.0.3.5</b>	Rete arteriocapillarovenosum	Arterio-capillary venous network
<b>E6.0.2.3.0.3.6</b>	Endothelium continuum	Endothelial continuum
<b>E6.0.2.3.0.3.7</b>	Cortex villi	Outer part of villus
<b>E6.0.2.3.0.3.8</b>	Vestigium cytotrophoblasti	Vestige of cytotrophoblast §Langhans§
<b>E6.0.2.3.0.3.9</b>	Nodi syncytiales <sup>339</sup>	Syncytial knots
<b>E6.0.2.3.0.3.10</b>	Superficies villi	Surface of villus
<b>E6.0.1.1.4.0.2</b>	Syncytiotrophoblastus	Syncytiotrophoblast
<b>E6.0.2.3.0.3.11</b>	Gemmae syncytiales <sup>340</sup>	Syncytial sprouts
<b>E6.0.2.3.0.3.12</b>	(Substantia fibrinoidea perivillosa <sup>341</sup> )	(Perivillous fibrin) §Rohr§
<b>E6.0.2.3.0.3.13</b>	(Substantia fibrinoidea intravillosa <sup>341</sup> )	(Intravillous fibrin) §Rohr§
<b>E6.0.1.2.0.0.29</b>	<b>Spatium intervilliosum</b>	<b>Intervillous space</b>
<b>E6.0.2.3.0.4.1</b>	Membrana placentae <sup>342</sup>	Placental membrane

<sup>331</sup> E5.7.1.0.0.0.4 *Vesicula umbilicalis; Saccus vitellinus* An umbilical vesicle or Yolk sac may be found in a persistent part of the chorionic cavity, between amnion and chorion, near the placental insertion of the umbilical cord.

<sup>332</sup> E6.0.1.4.0.0.14 *Substantia fibrinoidea* Two types of fibrinoid are found at various sites in the placenta: fibrin-type fibrinoid is a result of blood clotting; matrix-type fibrinoid is a basal lamina-like glycoprotein secreted by extravillous trophoblast.

<sup>333</sup> E6.0.2.3.0.2.2 *Cotyledo maternalis* When the detached placenta is examined from its decidual aspect, there are some 30 *maternal cotyledons*, separated by septa. However, because the septa do not reach the chorionic plate, a maternal cotyledon may include as many as 3 fetal cotyledons.

<sup>334</sup> E6.0.2.3.0.2.3 *Cotyledo fetalis* There are some 40-60 *fetal cotyledons*, each based upon a main stem villus and supplied by a decidual spiral artery.

<sup>335</sup> E6.0.2.3.0.2.4 *Villus peduncularis major; Truncus chorii* The *main stem villi* have a dense fibrous stroma and their cytotrophoblastic cell columns anchor them to the trophoblastic shell of the basal plate.

<sup>336</sup> E6.0.2.3.0.2.5 *Villus peduncularis* *Stem villi* contain "fetal arteries and veins or arterioles and venules, surrounded by dense connective tissue, rich in collagen fibres" (Castellucci M, Scheper M, Scheffen I, Celona A and Kaufmann P. The development of the human placental villous tree. *Anat Embryol* 1990;181:117-128).

<sup>337</sup> E6.0.2.3.0.2.6 *Villus intermedius immaturus* *Immature intermediate villi* are bulbous "with ample, loose connective tissue, containing few arterioles and venules and few undilated capillaries; the stroma is typified by numerous stromal channels delineated by sail-like processes of the fixed stromal cells and numerous macrophages in the channels" (Castellucci M, Scheper M, Scheffen I, Celona A and Kaufmann P. The development of the human placental villous tree. *Anat Embryol* 1990;181:117-128).

<sup>338</sup> E6.0.2.3.0.2.8 *Villus terminalis* *Terminal villi* are short and stubby branches from mature intermediate villi that contain "highly dilated fetal capillaries, so-called sinusoids, making up more than 50% of the stromal volume; scarce loose connective tissue and thin syncytiotrophoblastic cover" (Castellucci M, Scheper M, Scheffen I, Celona A and Kaufmann P. The development of the human placental villous tree. *Anat Embryol* 1990;181:117-128).

<sup>339</sup> E6.0.2.3.0.3.9 *Nodi syncytiales* *Syncytial knots* are localized aggregations of syncytiotrophoblastic nuclei in the lining of placental villi.

<sup>340</sup> E6.0.2.3.0.3.11 *Gemmae syncytiales* *Syncytial sprouts* are localized aggregations of syncytiotrophoblastic nuclei on the surface of placental villi, where new terminal villi are forming; at term, however, the nuclei are largely degenerate.

<sup>341</sup> E6.0.2.3.0.3.12/ E6.0.2.3.0.3.13 *Substantia fibrinoidea perivillosa/Substantia fibrinoidea intravillosa* Fibrin-type fibrinoid is frequently found around villi where they lack syncytiotrophoblast and may be part of a repair process. Matrix-type fibrinoid may be found within villi.

<sup>342</sup> E6.0.2.3.0.4.1/ E6.0.2.3.0.4.2 *Membrana placentae/Clastrum placentae* The *placental membrane* consists of the fetal tissues separating the fetal from the maternal blood: initially it constitutes a selectively permeable placental barrier and consists of endothelium of fetal capillaries, connective tissue, the subepithelial basal lamina and its covering of

<b>E6.0.2.3.0.4.2</b>	Claustum placentae	Placental barrier
<b>E6.0.2.3.0.5.1</b>	<b>Pars basalis placentae</b>	<b>Basal plate of placenta</b>
<b>E6.0.2.3.0.5.2</b>	Pars basalis placentae propriae	Basal plate of placenta proper
<b>E6.0.2.3.0.5.3</b>	Paries externus syncytialis spatii intervilliosi	Syncytial outer wall of intervillous space
<b>E6.0.1.1.4.0.2</b>	Syncytiotrophoblastus	Syncytiotrophoblast
<b>E6.0.1.1.4.0.5</b>	Cytotrophoblastus	Cytotrophoblast
<b>E6.0.2.3.0.5.4</b>	Stria fibrinoidea externa	External fibrinoid layer §Rohr§
<b>E6.0.2.3.0.5.5</b>	Vestigium testae trophoblasticae	Vestige of trophoblastic shell
<b>E6.0.1.2.0.0.24</b>	Trophoblastus extravillosus <sup>325</sup>	Extravillous trophoblast [EVT]
<b>E6.0.2.3.0.5.6</b>	Textus connectivus laxus	Loose connective tissue
<b>E6.0.1.4.0.0.13</b>	Zona limitans decidualis <sup>330</sup>	Decidual boundary zone
<b>E6.0.2.3.0.5.7</b>	Stria fibrinoidea interna	Internal fibrinoid layer §Nitabuch§
<b>E6.0.2.3.0.5.8</b>	A. spiralis uteri	Spiral artery of uterus
<b>E6.0.1.4.0.0.8</b>	Decidua basalis	Basal decidua
<b>E6.0.2.3.0.5.9</b>	Septa placentae; Septa cotyledonaria <sup>343</sup>	Placental septa; Cotyledonary septa
<b>E6.0.2.4.0.0.1</b>	<b>PARAPLACENTA</b> <sup>344</sup>	<b>PARAPLACENTA</b>
<b>E6.0.1.2.0.0.37</b>	Chorion laeve	Chorion laeve; Smooth chorion <sup>▲</sup>
<b>E6.0.1.4.0.0.16</b>	Decidua parietalis	Parietal decidua
<b>E5.11.3.1.1.0.5</b>	<b>PLACENTA</b>	<b>PLACENTA</b>
<b>E6.0.2.5.0.1.1</b>	<b>Insignia placentae humanae</b>	<b>Features of human placenta</b>
<b>E6.0.2.5.0.1.2</b>	Placenta deciduata	Deciduate placenta
<b>E6.0.2.5.0.1.3</b>	Placenta discoidea	Discooid placenta
<b>E6.0.2.5.0.1.4</b>	Vascularisatio chorioallantoica	Chorio-allantoic vascularization
<b>E6.0.2.5.0.1.5</b>	Membrana haemochorialis	Haemochorial membrane <sup>▲</sup>
<b>E6.0.2.5.0.1.6</b>	Gradus formationis placentae	Stages of placental formation
<b>E6.0.2.5.0.1.7</b>	Gradus villosus initialis	Initial villous stage
<b>E6.0.2.5.0.1.8</b>	Gradus labyrinthicus	Labyrinthine stage
<b>E6.0.2.5.0.1.9</b>	Gradus villosus definitivus	Definitive villous stage
<b>E6.0.2.5.0.1.10</b>	Insertio centralis funiculi umbilicalis	Central insertion of umbilical cord
<b>E6.0.2.5.0.2.1</b>	<b>Formae placentae</b>	<b>Varieties of placental form</b>
<b>E6.0.2.5.0.2.2</b>	Placenta accessoria; Placenta succenturiata	Accessory placenta; Succenturiate placenta
<b>E6.0.2.5.0.2.3</b>	Placenta anularis	Anular placenta
<b>E6.0.2.5.0.2.4</b>	Placenta bilobata; Placenta bipartita	Bilobed placenta; Bidiscooid placenta; Bipartite placenta; Placenta duplex
<b>E6.0.2.5.0.1.3</b>	Placenta discoidea	Discooid placenta
<b>E6.0.2.5.0.2.5</b>	Placenta lobata	Lobed placenta; Placenta furcata
<b>E6.0.2.5.0.2.6</b>	Placenta membranacea	Diffuse placenta; Membranous placenta
<b>E6.0.2.5.0.2.7</b>	Placenta multilobata; Placenta multipartita	Multilobed placenta; Placenta multiplex
<b>E6.0.2.5.0.2.8</b>	Placenta trilobata	Three-lobed placenta; Placenta tripartita; Placenta triplex
<b>E6.0.2.5.0.2.9</b>	Placenta vallata; Placenta circumvallata	Vallate placenta; Circumvallate placenta
<b>E6.0.2.5.0.3.1</b>	<b>Varietates insertionis funiculi umbilicalis</b>	<b>Varieties of umbilical cord insertion</b>
<b>E6.0.2.5.0.3.2</b>	Insertio centralis	Central insertion
<b>E6.0.2.5.0.3.3</b>	Insertio marginalis	Marginal insertion; Battledore placenta
<b>E6.0.2.5.0.3.4</b>	Insertio velamentosa	Velamentous insertion
<b>E6.0.2.5.0.4.1</b>	<b>Varietates situs placentae</b>	<b>Varieties of placental site</b>
<b>E6.0.2.5.0.4.2</b>	Situs dorsalis placentae	Dorsal placental site
<b>E6.0.2.5.0.4.3</b>	Situs lateralis placentae	Lateral placental site
<b>E6.0.2.5.0.4.4</b>	Situs ventralis placentae	Ventral placental site
<b>E6.0.2.5.0.4.5</b>	Situs fundalis placentae	Fundal placental site
<b>E6.0.2.5.0.4.6</b>	Situs cornualis placentae	Cornual placental site
<b>E1.0.2.6.3.0.6</b>	Placenta praevia	Placenta praevia <sup>▲</sup>

cytotrophoblast and syncytiotrophoblast; it becomes progressively thinner until near term, when the barrier leaks and the membrane consists only of a thin syncytiofibrinoid layer sitting on the subepithelial basal lamina, beneath which are dilated capillaries.

<sup>343</sup> E6.0.2.3.0.5.9 *Septa placentae*; *Septa cotyledonaria* The *placental septa* extend from the basal plate towards the chorionic plate but do not reach it. Like villi, where their surface is not covered by syncytiotrophoblast, fibrinoid is exposed. Their cores contain vestiges of cytotrophoblast and connective tissue, in which are tissues of maternal origin and foci of degeneration.

<sup>344</sup> E6.0.2.4.0.0.1 *Paraplacenta* The interface between amniochorion and parietal decidua where some fetal-maternal interchanges occur.

<b>E6.0.2.5.0.4.7</b>	Placenta praevia centralis	Central placenta praevia <sup>▲</sup>
<b>E6.0.2.5.0.4.8</b>	Placenta praevia lateralis	Lateral placenta praevia <sup>▲</sup>
<b>E6.0.2.5.0.4.9</b>	Placenta praevia marginalis	Marginal placenta praevia <sup>▲</sup>
<b>E6.0.2.5.0.4.10</b>	Situs cervicalis placentae	Cervical placental site
<b>E6.0.2.5.0.5.1</b>	<b>Varietates vascularisationis placentae</b>	<b>Varieties of placental vascularization</b>
<b>E6.0.2.5.0.5.2</b>	Vascularisatio dispersa placentae <sup>345</sup>	Disperse placental vascularization
<b>E6.0.2.5.0.5.3</b>	Vascularisatio magistralis placentae <sup>346</sup>	Magistral placental vascularization
<b>E6.0.2.5.1.0.1</b>	<b>Anomaliae membranarum fetalium</b>	<b>Anomalies of fetal membranes</b>
<b>E6.0.2.5.1.1.1</b>	<b>Anomaliae amnii et liquoris amniotici</b>	<b>Amniotic and amniotic fluid anomalies</b>
<b>E6.0.2.5.1.1.2</b>	Adhaesio amnii	Amniotic adhesion
<b>E6.0.2.5.1.1.3</b>	Hydramnion; Polyhydramnion	Hydramnios; Polyhydramnios
<b>E6.0.2.5.1.1.4</b>	Oligohydramnion	Oligohydramnios; Oligamnios
<b>E6.0.2.5.1.1.5</b>	Taenia amniotica	Amniotic band
<b>E6.0.2.5.1.2.1</b>	<b>Anomaliae chorii</b>	<b>Chorionic anomalies</b>
<b>E6.0.2.5.1.2.2</b>	Deformitas placentae	Placental deformity
<b>E6.0.2.5.1.2.3</b>	Defectus placentae	Placental defect
<b>E6.0.2.5.1.2.4</b>	Defectus paraplacentalis chorii	Chorionic paraplacental defect
<b>E6.0.2.5.1.3.1</b>	<b>Anomaliae funiculi umbilicalis</b>	<b>Umbilical cord anomalies</b>
<b>E6.0.2.5.1.3.2</b>	A. umbilicalis singularis	Single umbilical artery
<b>E6.0.2.5.1.3.3</b>	Funiculus umbilicalis glomeratus	Looped umbilical cord
<b>E6.0.2.5.1.3.4</b>	Strangulatio	Strangulation
<b>E6.0.2.5.1.3.5</b>	Amputatio	Amputation
<b>E6.0.2.5.1.3.6</b>	Nodus spurius funiculi umbilicalis	False knot of umbilical cord
<b>E6.0.2.5.1.3.7</b>	Nodus verus funiculi umbilicalis	True knot of umbilical cord
<b>E6.0.2.5.1.3.8</b>	Vesicula allantoica	Allantoic cyst
<b>E6.0.2.5.1.4.1</b>	<b>Anomaliae placentae</b>	<b>Placental anomalies</b>
<b>E6.0.2.5.1.4.2</b>	Placenta accreta	Placenta accreta
<b>E6.0.2.5.1.4.3</b>	Placenta adhaerens	Adherent placenta
<b>E6.0.2.5.1.4.4</b>	Placenta extrachorialis	Extrachorial placenta
<b>E6.0.2.5.1.4.5</b>	Placenta fenestrata	Fenestrated placenta
<b>E6.0.2.5.1.4.6</b>	Placenta incarcerata	Incarcerated placenta
<b>E6.0.2.5.1.4.7</b>	Placenta increta	Placenta increta
<b>E6.0.2.5.1.4.8</b>	Placenta panduriformis	Panduriform placenta
<b>E6.0.2.5.1.4.9</b>	Placenta percreta	Placenta percreta
	<b>Notatio temporum ontologicorum</b>	<b>Temporal stages of development</b>
<b>E1.0.0.0.0.0.21</b>	<b>Ontogenesis praenatalis</b>	<b>Prenatal ontogeny</b>
<b>E1.0.0.0.0.0.25</b>	<b>Embryogenesis<sup>2</sup></b>	<b>Embryogenesis; Embryogeny</b>
	<i>Insignia a gradibus carnegiensibus</i>	<i>Features by Carnegie stages</i>
<b>E2.0.1.2.0.0.6</b>	<b>GRADUS CELLULAE UNICAE; EMBRYO UNICELLULARIS [St.1]<sup>347</sup></b>	<b>ONE-CELL STAGE; SINGLE CELL EMBRYO [St.1]</b>
<b>E2.0.1.2.0.0.7</b>	<b>Oocytus penetratus; Oocytus definitivus; Embryo primordiale [St.1a]</b>	<b>Penetrated oocyte; Definitive oocyte; Primordial embryo [St.1a]</b>
<b>E1.0.5.2.0.0.3</b>	Zona pellucida; Capsula pellucida <sup>25</sup>	Zona pellucida; Capsula pellucida
<b>E1.0.5.4.0.0.8</b>	Spatium subzonale; Spatium subcapsulare <sup>348</sup>	Subzonal space; Subcapsular space
<b>E7.0.1.1.1.0.1</b>	Caput spermatozoi in zona pellucida, in spatio subzonale plasmalemmati adherente aut in cytoplasmati oocyti	Sperm head in zona pellucida, in subzonal space attaching to plasmalemma or in cytoplasm of oocyte

<sup>345</sup> E6.0.2.5.0.5.2 *Vascularisatio dispersa placentae* In disperse placental vascularization the umbilical arteries undergo a succession of dichotomous divisions and rapidly diminish in calibre.

<sup>346</sup> E6.0.2.5.0.5.3 *Vascularisatio magistralis placentae* In magistral placental vascularization the umbilical arteries almost reach the placental margin before there is a marked reduction in their size.

<sup>347</sup> E2.0.1.2.0.0.6 *Gradus cellulae unicae; Embryo unicellularis [St.1]* The feature of Carnegie Stage 1 is unicellularity. In penetrated oocytes of Stage 1a, pronuclei have not yet formed. In ootids of Stage 1b, the haploid pronuclei remain separate. In zygotes of Stage 1c, syngamy has resulted in a single diploid aggregation of chromosomes, without the formation of a nuclear membrane. Embryos of Stage 1 are generally 0.1-0.15mm in diameter and about 1 postovulatory day old.

<sup>348</sup> E1.0.5.4.0.0.8 *Spatium subzonale; Spatium subcapsulare* The commonly used term *perivitelline space* is inappropriate for the space surrounding the human oocyte, which is deficient in yolk (*Latin - vitellus*).

<b>E7.0.1.1.0.2</b>	Caput spermatozoi in cytoplasmati oocytii sine tegumento nucleare et cum chromatino disperso	Sperm head in cytoplasm of oocyte without nuclear envelope and with decondensed chromatin
<b>E2.0.1.1.0.1.2</b>	Peractio divisionis meioticae secundae	Completion of second meiotic division
<b>E2.0.1.1.0.1.3</b>	Pronucleus femininus; Pronucleus maternus	Female pronucleus; Maternal pronucleus
<b>E2.0.1.1.0.1.4</b>	Corpus polare secundum; Polocytus secundarius <sup>28</sup>	Second polar body; Second polocyte
<b>E2.0.1.1.0.1.7</b>	Reactio corticalis	Cortical reaction
<b>E2.0.1.1.0.1.13</b>	Dilatatio spatii subzonalis; Dilatatio spatii subcapsularis	Expansion of subzonal space; Expansion of subcapsular space
<b>E2.0.1.1.0.1.15</b>	Reactio zonalis; Reactio capsularis <sup>349</sup>	Zonal reaction; Capsular reaction <sup>IVF</sup>
<b>E2.0.1.1.0.1.17</b>	Conus fertilisationis	Fertilization cone <sup>IVF</sup>
<b>E7.0.1.1.0.3</b>	Locatio partis intermediae spermatozoi sub cono fertilisationis	Sperm middle piece under fertilization cone <sup>IVF</sup>
<b>E7.0.1.1.0.4</b>	Locatio partis caudae spermatozoi in cytoplasmati	Intracytoplasmic sperm tail <sup>IVF</sup>
<b>E7.0.1.1.0.5</b>	Fusus anaphasis II	Spindle of anaphase II <sup>IVF</sup>
<b>E7.0.1.1.0.6</b>	Fusus telophasis II	Spindle of telophase II <sup>IVF</sup>
<b>E7.0.1.1.0.7</b>	Intercorpus <sup>350</sup>	Interbody <sup>IVF</sup>
<b>E2.0.1.2.0.0.8</b>	<b>Ootidium; Ovum; Embryo pronuclearis [St.1b]</b> <sup>351</sup>	<b>Ootid; Ovum; Pronuclear embryo [St.1b]</b>
<b>E1.0.5.2.0.0.3</b>	Zona pellucida; Capsula pellucida <sup>25</sup>	Zona pellucida; Capsula pellucida
<b>E1.0.5.4.0.0.8</b>	Spatium subzonale; Spatium subcapsulare <sup>348</sup>	Subzonal space; Subcapsular space
<b>E2.0.1.1.0.1.3</b>	Pronucleus femininus; Pronucleus maternus	Female pronucleus; Maternal pronucleus
<b>E7.0.1.1.2.0.1</b>	Reconstitutio tegumenti nuclei spermatozoi	Reconstitution of sperm nuclear envelope
<b>E7.0.1.1.2.0.2</b>	Reorganisatio chromatini ad formationem pronuclei masculini in ootidio	Reorganization of chromatin to form male pronucleus in ootid
<b>E7.0.1.1.2.0.3</b>	Pronucleus masculinus; Pronucleus paternus	Male pronucleus; Paternal pronucleus
<b>E7.0.1.1.2.0.4</b>	Pronuclei admoti	Approximated pronuclei
<b>E7.0.1.1.2.0.5</b>	Corpuscula praecursoria nucleolorum	Nucleolar precursor bodies
<b>E1.0.5.1.0.0.5</b>	Polus animalis; Polus embryonicus praesumptivus <sup>23</sup>	Animal pole; Presumptive embryonic pole
<b>E7.0.1.1.2.0.6</b>	Pronucleus cum nucleolis dissipatis	Pronucleus with scattered nucleoli <sup>IVF</sup>
<b>E7.0.1.1.2.0.7</b>	Pronucleus cum nucleolis ordinatis	Pronucleus with aligned nucleoli <sup>IVF</sup>
<b>E2.0.1.2.0.0.9</b>	<b>Zygotum; Embryo syngamicum [St.1c]</b>	<b>Zygote; Syngamic embryo [St.1c]</b>
<b>E1.0.5.2.0.0.3</b>	Zona pellucida; Capsula pellucida <sup>25</sup>	Zona pellucida; Capsula pellucida
<b>E1.0.5.4.0.0.8</b>	Spatium subzonale; Spatium subcapsulare <sup>348</sup>	Subzonal space; Subcapsular space
<b>E2.0.1.1.0.1.24</b>	Vesiculatio et disintegratio tegumentorum nuclearium	Vesiculation and disintegration of nuclear envelopes
<b>E7.0.1.1.3.0.1</b>	Congrutio chromosomatum homologorum	Pairing of homologous chromosomes
<b>E2.0.1.1.0.1.28</b>	Dispositio chromosomatum homologorum conjunctorum super fusum fissionis primae extra centrum positum	Arrangement of paired homologous chromosomes on eccentric first cleavage spindle
<b>E2.0.1.2.0.0.10</b>	<b>ZYGOTUM FINDENS [St.2]</b> <sup>352</sup>	<b>CLEAVING ZYGOTE [St. 2]</b>
<b>E1.0.5.2.0.0.3</b>	Zona pellucida; Capsula pellucida <sup>25</sup>	Zona pellucida; Capsula pellucida
<b>E1.0.5.4.0.0.8</b>	Spatium subzonale; Spatium subcapsulare <sup>348</sup>	Subzonal space; Subcapsular space
<b>E7.0.1.2.0.0.1</b>	Cellulae II, Cellulae III, Cellulae IV, et cetera	Two-cells, three-cells, four-cells, etc.

<sup>349</sup> E2.0.1.1.0.1.15 *Reactio zonalis; Reactio capsularis* This and other items with the superscript <sup>IVF</sup> on the English side are observed in *in vitro fertilization* studies.

<sup>350</sup> E7.0.1.1.0.7 *Intercorpus* The *interbody* is a prominent intracytoplasmic electron-dense contractile structure in the equatorial plane of the second meiotic spindle, extending from the penetrated oocyte into the extruding second polar body. Fine electron-dense particles of unknown chemical nature are associated with spindle microtubules and the interbody represents the site of detachment of the second polar body and reconstitution of the cell membranes of the embryo and second polar body.

<sup>351</sup> E2.0.1.2.0.0.8 *Ootidium; Ovum; Embryo pronuclearis [St.1b]* The imprecise term *ovum* has been variously applied, alone or qualified, to stages from the primary oocyte to the implanting blastocyst and beyond. The use of the more precise term is recommended. In mammals, it is the secondary oocyte, arrested in the metaphase of meiosis II, which is penetrated and thus best referred to as a penetrated oocyte until meiosis II has been completed. Penetration activates the oocyte into completing meiosis II, with the formation of the ootid and the second polar body. The mammalian ootid contains two separate haploid elements, the female and male pronuclei. As these two elements fuse into a single diploid aggregation of chromosomes, the ootid becomes a zygote.

<sup>352</sup> E2.0.1.2.0.0.10 *Zygotum findens [St.2]* Embryos of Carnegie Stage 2 consist of between 2 and about 32 cells but have no blastocystic cavity by light microscopy. They are generally 0.1-0.2mm in diameter and about 2-3 days old.

<b>E7.0.1.2.0.0.2</b>	Blastomerus	Blastomere
<b>E2.0.1.2.0.0.11</b>	Morula <sup>353</sup>	Morula
<b>E3.0.0.4.0.0.1</b>	Compactio	Compaction
<b>E7.0.1.2.0.0.3</b>	Nexus; Macula communicans; Synapsis non vesicularis; Synapsis electrica	Gap junction; Nonvesicular synapse; Electrical synapse
<b>E7.0.1.2.0.0.4</b>	Macula adhaerens; Desmosoma	Desmosome; Macula adhaerens; Spot desmosome
<b>E7.0.1.2.0.0.5</b>	Zonula occludens	Tight junction
<b>E6.0.1.1.1.0.1</b>	Cellula externa morulae; Cellula trophoblastica praesumptiva; Cellula polarisata; Polarblastus <sup>316</sup>	Outer cell of morula; Presumptive trophoblastic cell; Polarized cell; Polarblast
<b>E6.0.1.1.1.0.2</b>	Cellula interna morulae; Cellula embryoblastica praesumptiva; Pluriblastus initialis <sup>317</sup>	Inner cell of morula; Presumptive embryoblastic cell; Early pluriblast
<b>E7.0.1.2.0.0.6</b>	Axis radialis morulae	Radial axis of morula
<b>E2.0.1.2.0.0.13</b>	<b>BLASTOCYSTIS LIBERA [St.3]<sup>354</sup></b>	<b>FREE BLASTOCYST [St.3]</b>
<b>E7.0.1.3.0.0.1</b>	Blastocystis capsulata	Encapsulated blastocyst; Unhatched blastocyst
<b>E1.0.5.2.0.0.3</b>	Zona pellucida; Capsula pellucida <sup>25</sup>	Zona pellucida; Capsula pellucida
<b>E3.0.0.6.1.0.6</b>	Cavatio	Cavitation <sup>IVF</sup>
<b>E7.0.1.3.0.0.2</b>	Cavatio incipiens	Start of cavitation <sup>IVF</sup>
<b>E7.0.1.3.0.0.3</b>	Regressio cavitatis	Collapse of cavity <sup>IVF</sup>
<b>E7.0.1.3.0.0.4</b>	Redilatatio cavitatis	Re-expansion of cavity <sup>IVF</sup>
<b>E7.0.1.3.0.0.5</b>	Cavatio terminalis	End of cavitation <sup>IVF</sup>
<b>E7.0.1.3.0.0.6</b>	Denudatio	Hatching <sup>IVF</sup>
<b>E7.0.1.3.0.0.7</b>	Cellula rumpens zonam	Zona-breaker cell <sup>IVF</sup>
<b>E7.0.1.3.0.0.8</b>	Cellula rejecta	Discarded cell <sup>IVF</sup>
<b>E7.0.1.3.0.0.9</b>	Cellula sequestrata	Sequestered cell <sup>IVF</sup>
<b>E7.0.1.3.0.0.10</b>	Cellula segregata	Isolated cell <sup>IVF</sup>
<b>E7.0.1.3.0.0.11</b>	Fragmentum zonae pellucidae	Fragment of zona pellucida <sup>IVF</sup>
<b>E7.0.1.3.0.0.12</b>	Blastocystis nuda	Hatched blastocyst
<b>E7.0.1.3.0.0.13</b>	Segregatio embryoblasti	Segregation of embryoblast
<b>E7.0.1.3.0.0.14</b>	Polus embryonicus	Embryonic pole
<b>E7.0.1.3.0.0.15</b>	Polus abembryonicus	Abembryonic pole
<b>E6.0.1.1.2.0.4</b>	Embryoblastus; Massa cellularis interna; Pluriblastus serior <sup>355</sup>	Embryoblast; Inner cell mass; Late pluriblast
<b>E2.0.1.2.0.0.14</b>	Discus embryonicus	Embryonic disc
<b>E7.0.1.3.0.0.16</b>	Dorsoventralitas	Dorsoventrality
<b>E7.0.1.3.0.0.17</b>	Epithelium primordiale <sup>356</sup>	Primordial epithelium
<b>E5.0.2.2.1.0.1</b>	Epiblastus <sup>357</sup>	Epiblast; Primary ectoderm
<b>E6.0.1.1.3.0.4</b>	Hypoblastus <sup>358</sup>	Hypoblast; Primary endoderm

<sup>353</sup> E2.0.1.2.0.0.11 *Morula* Stage 2 embryos from 12 to about 32 cells and without a blastocystic cavity are called morulae (Latin *morum*, a mulberry or blackberry). The term is not ideal because, unlike the amphibian morula, for which the term was coined, the human morula gives rise to extra-embryonic as well as embryonic tissues. Nevertheless, when the number of blastomeres cannot be counted, there is no other term to describe the solid mass that precedes the formation of the blastocystic cavity.

<sup>354</sup> E2.0.1.2.0.0.13 *Blastocystis libera* [St. 3] Embryos of Carnegie Stage 3 are free blastocysts with a blastocystic cavity by light microscopy. They consist of up to 90 cells, of which about 30 are inner cell mass cells, are about 4-5 days old and are generally 0.1-0.2mm in diameter.

<sup>355</sup> E6.0.1.1.2.0.4 *Embryoblastus; Massa cellularis interna; Pluriblastus serior* The term *embryoblast* is widely used although the derivatives of this tissue are extra-embryonic or adnexal as well as embryonic or cyemic. The term *inner cell mass* is also used but cannot be used as a comparative term as the corresponding cells are not inner in many, if not all, marsupials (Johnson MH and Selwood L. Nomenclature of early development in mammals. *Reprod Fertil Dev* 1996;8:759-64). The term *pluriblast* has neither of these disadvantages.

<sup>356</sup> E7.0.1.3.0.0.17 *Epithelium primordiale* The tissues of the pre-implantation embryo proper are all epithelial in that their cells are sessile, are polarized between a free surface and a basal lamina and they have specialized juxtaluminar junctions and little intercellular substance. Daughter cells may be epithelial or, as a result of epitheliomesenchymal transformation, become mesenchymal [both see below].

<sup>357</sup> E5.0.2.2.1.0.1 *Epiblastus* The term *epiblast* is preferred for this tissue as it provides appropriate information about its site, fate and potential. Primary ectoderm is less preferred both because the term has been used to include amnioblast and because current usage postpones the use of the suffix -derm until after gastrulation (Johnson MH and Selwood L. Nomenclature of early development in mammals. *Reprod Fertil Dev* 1996;8:759-64). Other alternatives that include the term ectoderm, the use of which should be limited to the cells remaining on the dorsal surface of the embryo after the early somite stage, are not recommended.

<sup>358</sup> E6.0.1.1.3.0.4 *Hypoblastus* The term *hypoblast* is preferred for this tissue as it provides appropriate information about its site, fate and potential. It appears to induce the formation of the primordial amniotic cavity (Cocouvanis E, Martin GR. Signals for death and survival: a two-step mechanism for cavitation in the vertebrate embryo. *Cell* 1995;83:279-287) and of axial patterning in the epiblast, including the forebrain (Beddington RSP, Robertson EP. Axis development and early asymmetry in mammals. *Cell* 1999;96:195-209). The term *primary endoderm* is less preferred both because the term has been used to include the extra-embryonic endoblast and because current usage

<b>E3.0.0.6.1.0.109</b>	Transformatio epitheliomesenchymalis <sup>76</sup>	Epitheliomesenchymal transformation
<b>E5.16.4.0.3.0.18</b>	Mesenchyma <sup>359</sup>	Mesenchyme
<b>E3.0.0.6.1.0.110</b>	Transformatio mesenchymoepithelialis <sup>77</sup>	Mesenchymo-epithelial transformation
<b>E6.0.1.1.2.0.3</b>	Cavitas blastocystica <sup>360</sup>	Blastocystic cavity; Blastocyst cavity
<b>E6.0.1.1.2.0.2</b>	Trophoblastus; Massa cellularis externa <sup>319</sup>	Trophoblast; Outer cell mass; Trophoblast
<b>E7.0.1.3.0.0.18</b>	Trophoblastus polaris	Polar trophoblast
<b>E7.0.1.3.0.0.19</b>	Trophoblastus muralis	Mural trophoblast
<b>E7.0.1.3.0.1.1</b>	<b>Insignia miscellanea cellularum trophoblasticarum non differentiarum</b> <sup>361</sup>	<b>Miscellaneous features of undifferentiated trophoblast cells</b>
<b>E7.0.1.3.0.1.2</b>	Corpus heterophagolysosomati simile	Heterophagolysosome-like body <sup>IVF</sup>
<b>E7.0.1.3.0.1.3</b>	Telolysosoma; Corpusculum residuale	Telolysosome; Residual body <sup>IVF</sup>
<b>E7.0.1.3.0.1.4</b>	Desmosoma	Desmosome; Macula adhaerens <sup>IVF</sup>
<b>E7.0.1.3.0.1.5</b>	Junctio occludens apicalis	Apical tight junction <sup>IVF</sup>
<b>E7.0.1.3.0.1.6</b>	Junctio occludens basalis	Basal tight junction <sup>IVF</sup>
<b>E7.0.1.3.0.1.7</b>	Junctio occludens anularis	Anular tight junction <sup>IVF</sup>
<b>E7.0.1.3.0.1.8</b>	Lamella anularis	Anulate lamella <sup>IVF</sup>
<b>E7.0.1.3.0.1.9</b>	Microvilli	Microvilli <sup>IVF</sup>
<b>E7.0.1.3.0.1.10</b>	Mitochondria longa	Long mitochondria <sup>IVF</sup>
<b>E7.0.1.3.0.1.11</b>	Processus cellulares	Cell processes <sup>IVF</sup>
<b>E7.0.1.3.0.1.12</b>	Reticulum endoplasmicum granulosum	Rough endoplasmic reticulum <sup>IVF</sup>
<b>E2.0.1.2.0.0.18</b>	<b>BLASTOCYSTIS ADHAERENS [St.4]</b> <sup>362</sup>	<b>ATTACHING BLASTOCYST [St.4]</b>
<b>E6.0.1.1.3.0.3</b>	Cavitas amniotica primordialis <sup>363</sup>	Primordial amniotic cavity
<b>E2.0.1.2.0.0.14</b>	Discus embryonicus	Embryonic disc
<b>E6.0.1.1.4.0.5</b>	Cytotrophoblastus	Cytotrophoblast
<b>E7.0.1.4.0.0.1</b>	Adhaesio epithelio endometrii	Adherence to endometrial epithelium <sup>IVF</sup>
<b>E7.0.1.4.0.0.2</b>	Complexus junctionalis apicalis	Apical junctional complex <sup>IVF</sup>
<b>E7.0.1.4.0.0.3</b>	Desmosoma; Macula adhaerens	Desmosome; Macula adhaerens; Spot desmosome <sup>IVF</sup>
<b>E7.0.1.4.0.0.4</b>	Invaginatio cellulae epiblasticae a processu cellulare	Cell process invaginating epiblastic cell <sup>IVF</sup>
<b>E7.0.1.3.0.1.9</b>	Microvilli	Microvilli <sup>IVF</sup>
<b>E7.0.1.4.0.0.5</b>	Pori nucleares	Nuclear pores <sup>IVF</sup>
<b>E6.0.1.1.4.0.2</b>	Syncytiotrophoblastus	Syncytiotrophoblast
<b>E7.0.1.4.0.0.6</b>	Processus inter endometrii epitheliocytos	Processes between endometrial cells <sup>IVF</sup>
<b>E7.0.1.4.0.0.7</b>	Margo syncytioepithelialis	Syncytio-epithelial interface

postpones the use of the suffix -derm until after gastrulation (Johnson MH and Selwood L. Nomenclature of early development in mammals. *Reprod Fertil Dev* 1996;8:759-64). Other alternatives that include the term endoderm are not recommended.

<sup>359</sup> E5.16.4.0.3.0.18 *Mesenchyma* A tissue consisting of free cells without polarity or specialized juxtaluminar junctions. The loosely arranged, often stellate, cells are suspended in a gelatinous matrix and are amoeboid and actively phagocytic. As they migrate their processes make temporary contact with each other, with overlying epithelial cells and with their basal laminae. As a result of epitheliomesenchymal transformation, there are now two types of tissue present, epithelial and mesenchymal. These tissue types do not correspond to the primary germ layers, ectoderm, endoderm and mesoderm [q.v.].

<sup>360</sup> E6.0.1.1.2.0.3 *Cavitas blastocystica* The term *blastocystic cavity* is recommended, rather than *blastocoel*, because the cavity is not homologous with the blastocoel of amphibians and birds, the homologue of which is "the very narrow slit confined between the epiblast and hypoblast" (Eyal-Giladi H. Establishment of the axis in chordates: facts and speculations. *Development* 1997;124: 2285-2296).

<sup>361</sup> E7.0.1.3.0.1.1 *Insignia miscellanea cellularum trophoblastorum non differentiarum* These miscellaneous features have only been observed *in vitro*. Similar observations on the differentiated trophoblast are not readily available.

<sup>362</sup> E2.0.1.2.0.0.18 *Blastocystis adhaerens [St. 4]* An embryo of Carnegie Stage 4 is an attaching blastocyst but no such *in vivo* human specimen has been recorded. Previously reliance was placed on those of the macaque (Heuser CH, Streeter GL. Development of the macaque embryo. *Contrib Embryol* 1941;29:15-55) but direct information about Stage 4 is now derived from *in vitro* experiments in which blastocysts are placed on monolayers of cultured endometrial epithelial cells. Embryos of Stage 4 would be about 6 days old and about 0.1-0.2mm in diameter.

<sup>363</sup> E6.0.1.1.3.0.3 *Cavitas amniotica primordialis* It appears that a *primordial amniotic cavity* forms by cavitation within the epiblast, that the roof of the primordial amniotic cavity breaks down creating a transient tropho-epiblastic cavity and that the definitive amniotic cavity becomes roofed by cells that arise from the margins of the epiblast. There is no primordial amniotic cavity in embryos of Stage 3 and while most embryos of Stage 5a have a tropho-epiblastic cavity, the "earliest known human implantation stage" (Carnegie No 8020) has a primordial amniotic cavity (Luckett WP. The development of primordial and definitive amniotic cavities in early Rhesus monkey and human embryos. *Am J Anat* 1975;144:149-168). It is therefore presumed that for most embryos a primordial amniotic cavity occurs in Stage 4.

<b>E2.0.1.2.0.0.20</b>	<b>BLASTOCYSTIS IMPLANTATA; BLASTOCYSTIS INVADENS; CONCEPTUS PRAEVILLOSUS [St.5]<sup>364</sup></b>	<b>IMPLANTED BLASTOCYST; INVADING BLASTOCYST; PREVILLOUS CONCEPTUS [St.5]</b>
<b>E2.0.1.2.0.0.14</b>	Discus embryonicus	Embryonic disc
<b>E6.0.1.1.4.0.5</b>	Cytotrophoblastus	Cytotrophoblast
<b>E6.0.1.1.4.0.2</b>	Syncytiotrophoblastus	Syncytiotrophoblast
<b>E6.0.1.4.0.0.4</b>	Margo syncytiodecidualis <sup>328</sup>	Syncytiodecidual interface
<b>E7.0.1.5.0.0.1</b>	Implantatio superficialis	Superficial implantation
<b>E6.0.1.2.0.0.32</b>	Testa trophoblastica	Trophoblastic shell
<b>E2.0.1.2.0.0.21</b>	<b>Blastocystis invadens sine lacunis trophoblasticis [St.5a]</b>	<b>Invading blastocyst without trophoblastic lacunae [St.5a]</b>
<b>E7.0.1.5.1.0.1</b>	Dimidium abembryonicum blastocystis visibile in cavitate uterina	Abembryonic half of blastocyst exposed to uterine cavity
<b>E7.0.1.5.1.0.2</b>	Cavitas blastocystica pressula	Flattened blastocystic cavity
<b>E7.0.1.5.1.0.3</b>	Initium formationis endoblasti extraembryonici	Extra-embryonic endoblast formation beginning
<b>E7.0.1.5.1.0.4</b>	Discus embryonicus concavus dorsaliter	Dorsally concave embryonic disc
<b>E7.0.1.5.1.0.5</b>	Trophoblastus solidus	Solid trophoblast
<b>E6.0.1.1.4.0.7</b>	Cavitas trophoeplastica <sup>320</sup>	Tropho-epiblastic cavity
<b>E6.0.1.1.3.0.3</b>	Cavitas amniotica primordialialis	Primordial amniotic cavity
<b>E6.0.1.1.4.0.8</b>	Amnioblastus; Cellulae amniogenicae <sup>321</sup>	Amnioblast; Amniogenic cells; Amniotic ectoderm
<b>E7.0.1.5.1.0.6</b>	Primordium marginis caudalis lineae primitivae; Primordium marginis caudalis lineae gastrulationis <sup>365</sup>	Primordium of caudal margin of primitive streak; Primordium of caudal margin of gastrulation streak
<b>E6.0.1.1.4.0.11</b>	Area caudalis mesoblastogenica <sup>366</sup>	Caudal mesoblastogenic area
<b>E2.0.1.2.0.0.22</b>	<b>Blastocystis invadens cum lacunis trophoblasticis separatis [St.5b]</b>	<b>Invading blastocyst with isolated trophoblastic lacunae [St.5b]</b>
<b>E7.0.1.5.2.0.1</b>	Pars minor abembryonica visibilis in cavitate uterina	Less than abembryonic half exposed to uterine cavity
<b>E7.0.1.5.2.0.2</b>	Discus embryonicus parve oblongus	Embryonic disc slightly longer than wide
<b>E6.0.1.1.4.0.3</b>	Lacunae trophoblasticae	Trophoblastic lacunae
<b>E6.0.1.1.4.0.6</b>	Aggregatio praevillosa cytotrophoblasti	Previllous clump of cytotrophoblast
<b>E6.0.1.1.4.0.10</b>	Cavitas amniotica definitiva	Definitive amniotic cavity
<b>E7.0.1.5.2.0.3</b>	Margo caudalis lineae primitivae praecoquis; Margo caudalis lineae gastrulationis praecoquis <sup>365</sup>	Precocious caudal margin of primitive streak; Precocious caudal margin of gastrulation streak
<b>E6.0.1.1.4.0.11</b>	Area caudalis mesoblastogenica <sup>366</sup>	Caudal mesoblastogenic area
<b>E6.0.1.1.4.0.12</b>	Mesoblastus extraembryonicus <sup>367</sup>	Extra-embryonic mesoblast
<b>E7.0.1.5.2.0.4</b>	Mesoblastus extraembryonicus adjunctus trophoblasto	Extra-embryonic mesoblast applied to trophoblast
<b>E7.0.1.5.2.0.5</b>	Chorion primordiale	Primordial chorion

<sup>364</sup> E2.0.1.2.0.0.20 *Blastocystis implantata*; *Blastocystis invadens*; *Conceptus praevillosus* [St.5] Embryos of Carnegie Stage 5 are implanted but previllous blastocysts. Their trophoblast is solid in Stage 5a, contains isolated lacunae in Stage 5b and contains intercommunicating lacunae in Stage 5c. The embryonic disc in embryos of Stage 5, which are about 7-12 days old, is generally 0.1-0.2mm in diameter.

<sup>365</sup> E7.0.1.5.1.0.6/ E7.0.1.5.2.0.3 *Primordium marginis caudalis lineae primitivae*; *Primordium marginis caudalis lineae gastrulationis* / *Margo caudalis lineae primitivae praecoquis*; *Margo caudalis lineae gastrulationis praecoquis* "The epiblast at the future caudal end of the embryonic disc is flexed dorsally and exhibits an alteration and loosening of its epithelium basally. An accumulation of more loosely associated cells appears to be continuous with, and derived from, the ventral surface of the epiblast. This modification of the epiblast is interpreted as the precociously differentiated caudal margin of the primitive streak" (Lockett WP. Origin and differentiation of the Yolk sac and extraembryonic mesoderm in presomite human and rhesus monkey embryos. *Am J Anat* 1979;152:59-98).

<sup>366</sup> E6.0.1.1.4.0.11 *Area caudalis mesoblastogenica* An area at the future caudal margin of the epiblast, which precedes the appearance of a definite primitive streak [St.6b]. Extra-embryonic mesoblast is thought to arise from this area rather than by delamination from the trophoblast (see footnote<sup>367</sup>).

<sup>367</sup> E6.0.1.1.4.0.12 *Mesoblastus extraembryonicus* The term mesoblast is preferred for this tissue because it provides appropriate information on its site, fate and potential. Lankester used the term to describe those cells, which he thought derived from enteric cells (extra-embryonic endoblast), separated, spread out, became amoebiform and "crawled all over the inner wall of the ectodermic vesicle (blastocoel or blastocystic cavity) (Lankester R. Notes on the embryology and classification of the animal kingdom. *Q J Microscop Sci* 1877;17:399-454.). A term is necessary to describe the tissues found outside the extra-embryonic endoblast and inside the trophoblast before gastrulation and the use of the suffix *-blast* is a corollary of current usage (Johnson MH, Selwood L. Nomenclature of early development in mammals. *Reprod Fertil Dev* 1996;8:759-64). The qualifying adjective extra-embryonic is necessary because the term mesoblast has been used to describe the free cells that migrate between the epiblast and intra-embryonic endoderm (Collins P, Billett FS. The terminology of early development: history, concepts, and current usage. *Clin Anat* 1995;8:418-25) and to denote a temporary, embryonic cell lineage, which will later generate either an epithelial or a free-cell arrangement (Collins P. Embryology and development. In: Williams PL, Bannister LH, Berry MM, Collins P, Dyson M, Dussek J, Ferguson MWJ, editors. *Gray's Anatomy* 38<sup>th</sup> ed. Edinburgh: Churchill Livingstone; 1995).

<b>E6.0.1.1.3.0.2</b>	Endoblastus extraembryonicus; Membrana exocoelomica <sup>368</sup>	Extra-embryonic endoblast; Exocoelomic membrane; Primary endoderm <sup>▲</sup>
<b>E6.0.1.1.4.0.17</b>	Cavitas vesiculae umbilicalis primariae; Cavitas sacci vitellini primarii <sup>322</sup>	Cavity of primary umbilical vesicle; Cavity of primaryYolk sac
<b>E6.0.1.1.4.0.18</b>	Endoblastus extraembryonicus trophoblasto applicatus	Extra-embryonic endoblast applied to trophoblast
<b>E6.0.1.1.4.0.19</b>	Vesicula umbilicalis primaria; Saccus vitellinus primarius <sup>322</sup>	Primary umbilical vesicle; Primary yolk sac
<b>E7.0.1.5.3.0.1</b>	<b>Blastocystis invadens cum lacunis trophoblasticis conjunctis [St.5c]</b>	<b>Invading blastocyst with intercommunicating lacunae [St.5c]</b>
<b>E7.0.1.5.3.0.2</b>	Blastocystis haesa sub epithelio superficiale	Blastocyst deep to surface epithelium
<b>E7.0.1.5.3.0.3</b>	Obscuramentum fibrosum in loco implantationis	Fibrous coagulum at implantation site; Closing plug
<b>E6.0.1.1.4.0.4</b>	Circulus lacunosus vascularis <sup>369</sup>	Lacunar vascular circle
<b>E7.0.1.5.3.0.4</b>	Cavitas chorionica primordialis	Primordial chorionic cavity
<b>E7.0.1.5.3.0.5</b>	Discus embryonicus convexus dorsaliter	Embryonic disc dorsally convex
<b>E7.0.1.5.3.0.6</b>	Discus embryonicus oblongus	Embryonic disc longer than wide
<b>E7.0.1.5.3.0.7</b>	Axis longitudinalis embryonis	Longitudinal axis of embryo
<b>E7.0.1.5.3.0.8</b>	Vesiculae cytoplasmicae in cellulis disci	Cytoplasmic vacuoles in cells of disc
<b>E7.0.1.5.2.0.3</b>	Margo caudalis lineae primitivae praecoquis; Margo caudalis lineae gastrulationis praecoquis <sup>365</sup>	Precocious caudal margin of primitive streak; Precocious caudal margin of gastrulation streak
<b>E6.0.1.1.4.0.11</b>	Area caudalis mesoblastogenica <sup>366</sup>	Caudal mesoblastogenic area
<b>E6.0.1.1.4.0.13</b>	Textus angioblasticus mesoblasti <sup>370</sup>	Angioblastic tissue of mesoblast
<b>E6.0.1.1.4.0.14</b>	Crista praevillosa mesoblasti <sup>370</sup>	Previllous crest of mesoblast
<b>E6.0.1.1.4.0.15</b>	Reticulum extraembryonicum; Magma reticulare <sup>371</sup>	Extra-embryonic reticulum; Mesenchymal reticulum
<b>E7.0.1.5.3.0.9</b>	Lamina praechordalis praecoqua <sup>372</sup>	Precocious prechordal plate
<b>E2.0.1.2.0.0.29</b>	<b>CONCEPTUS VILLOSUS [St.6]<sup>373</sup></b>	<b>VILLOUS CONCEPTUS [St.6]</b>
<b>E2.0.1.2.0.0.30</b>	<b>Conceptus villosus sine linea primitiva manifesta [St.6a]; Conceptus villosus sine linea gastrulationis manifesta [St.6a]</b>	<b>Villous conceptus without obvious primitive streak [St.6a]; Villous conceptus without obvious gastrulation streak [St.6a]</b>
<b>E7.0.1.6.1.0.1</b>	Agnitio sexus genetici	Detection of genetic sex
<b>E5.11.3.1.1.0.3</b>	Chorion	Chorion
<b>E6.0.1.1.2.0.2</b>	Trophoblastus; Massa cellularis externa <sup>319</sup>	Trophoblast; Outer cell mass; Trophoctoderm
<b>E6.0.1.2.0.0.13</b>	Mesenchyma chorionicum	Chorionic mesenchyme
<b>E6.0.1.2.0.0.14</b>	Mesothelium chorionicum	Chorionic mesothelium
<b>E6.0.1.1.5.0.2</b>	Chorion frondosum <sup>323</sup>	Chorion frondosum; Villous chorion
<b>E6.0.1.2.0.0.15</b>	Villus primarius	Primary villus
<b>E6.0.1.2.0.0.17</b>	Villus secundarius	Secondary villus
<b>E6.0.1.2.0.0.20</b>	Villus tertiaris	Tertiary villus
<b>E6.0.1.2.0.0.21</b>	Vas primordiale villi tertiaris	Primordial vessel of tertiary villus

<sup>368</sup> E6.0.1.1.3.0.2 *Endoblastus extraembryonicus; Membrana exocoelomica* The term *endoblast* is preferred for this tissue as it provides appropriate information about its site, fate and potential. The term *primary endoderm* is least preferred both because it applies also to the hypoblast and also because current usage postpones the use of the suffix *-derm* until after gastrulation (Johnson MH and Selwood L. Nomenclature of early development in mammals. *Reprod Fertil Dev* 1996;8:759-64). Other alternatives that include the term *endoderm* are not recommended.

<sup>369</sup> E6.0.1.1.4.0.4 *Circulus lacunosus vascularis* The *lacunar vascular circle* is visible from the endometrial surface.

<sup>370</sup> E6.0.1.1.4.0.13/ E6.0.1.1.4.0.14 *Textus angioblasticus mesoblasti/Crista praevillosa mesoblasti* Extra-embryonic mesoblastic tissues produced from the epiblast before gastrulation.

<sup>371</sup> E6.0.1.1.4.0.15 *Reticulum extraembryonicum; Magma reticulare* Extra-embryonic mesoblast produced, initially from the hypoblast, before gastrulation. At least in the rhesus monkey, the cells of both the hypoblast and the initial reticulum are mitotically active (Enders AC, King BF. Formation and differentiation of extraembryonic mesoderm in the rhesus monkey. *Am J Anat* 1988;181:327-340) so that later reticulum may have arisen from either source.

<sup>372</sup> E7.0.1.5.3.0.9 *Lamina praechordalis praecoqua* "The first clear evidence of a (rostral)caudal embryonic axis appears [at Stage 5c] as a pronounced thickening of the [hypoblast] at the future cranial end of the embryonic disc to form a *prechordal plate*." (Luckett WP. Origin and differentiation of theYolk sac and extraembryonic mesoderm in presomite human and rhesus monkey embryos. *Am J Anat* 1979;152:59-98). However, this thickening may not correspond to the *prechordal plate* but to the extra-embryonic *rostral visceral endoderm* or *rostral marginal crescent* found in other mammals (Viebahn C.The anterior margin of the mammalian gastrula: comparative and phylogenetic aspects of its role in axis formation and head induction. *Curr Top Dev Biol* 1999;46:63-103). The *prechordal plate* proper may not appear until Stage 7.

<sup>373</sup> E2.0.1.2.0.0.29 *Conceptus villosus [St.6]* Embryos of Carnegie Stage 6 are villous conceptuses. There may be the suggestion of a primitive streak in embryos of Stage 6a or earlier, but one is definitely present in embryos of Stage 6b. The embryonic discs of embryos of Stage 6 are generally about 0.2mm in diameter and they are about 17 days old.



<b>E6.0.1.2.0.0.29</b>	Spatium intervillosum	Intervillous space
<b>E6.0.1.1.5.0.5</b>	Mesoblastus extraembryonicus caudaliter et dorsaliter amnioblasto et trophoblasto adjunctus	Extra-embryonic mesoblast applied to amnioblast and trophoblast caudodorsally
<b>E6.0.1.1.5.0.13</b>	Cavitas vesiculae umbilicalis secundariae; Cavitas sacci vitellini secundarii <sup>322</sup>	Cavity of secondary umbilical vesicle; Cavity of secondary yolk sac
<b>E6.0.1.1.5.0.14</b>	Endoderma extraembryonicum vesiculae umbilicalis; Endoderma extraembryonicum sacci vitellini	Extra-embryonic endoderm of umbilical vesicle; Extra-embryonic endoderm of yolk sac
<b>E6.0.1.1.5.0.15</b>	Mesoblastus extraembryonicus endodermati extraembryonico adjunctus	Extra-embryonic mesoblast applied to extra-embryonic endoderm
<b>E6.0.1.1.5.0.16</b>	Vesicula umbilicalis secundaria; Saccus vitellinus secundarius <sup>322</sup>	Secondary umbilical vesicle; Secondary yolk sac
<b>E7.0.1.6.1.0.2</b>	Insulae sanguineae vesiculae umbilicalis; Insulae sanguineae sacci vitellini	Blood islands of umbilical vesicle; Blood islands of yolk sac
<b>E7.0.1.6.1.0.3</b>	Haemangiogenesis vesiculae umbilicalis incipiens; Haemangiogenesis sacci vitellini incipiens	Incipient umbilical vesicle haemangiogenesis <sup>▲</sup> ; Incipient Yolk sac haemangiogenesis <sup>▲</sup>
<b>E6.0.1.1.4.0.16</b>	Pedunculus connectans primordialis	Primordial connecting stalk
<b>E2.0.1.2.0.0.31</b>	<b>Conceptus villosus cum linea primitiva manifesta [St.6b]; Conceptus villosus cum linea gastrulationis manifesta [St.6b]</b>	<b>Villous conceptus with obvious primitive streak [St.6b]; Villous conceptus with obvious gastrulation streak [St.6b]</b>
<b>E4.0.3.3.2.0.3</b>	Mesenchyma capitis <sup>374</sup>	Head mesenchyme
<b>E7.0.1.6.2.0.1</b>	Linea primitiva; Linea gastrulationis <sup>375</sup>	Primitive streak; Gastrulation streak
<b>E7.0.1.6.2.0.2</b>	Sulcus primitivus; Sulcus gastrulationis <sup>375</sup>	Primitive groove; Gastrulation groove
<b>E3.0.0.6.1.0.109</b>	Transformatio epitheliomesenchymalis <sup>76</sup>	Epitheliomesenchymal transformation
<b>E5.16.4.0.3.0.18</b>	Mesenchyma <sup>359</sup>	Mesenchyme
<b>E3.0.0.6.1.0.110</b>	Transformatio mesenchymoepithelialis <sup>77</sup>	Mesenchymo-epithelial transformation
<b>E7.0.1.6.2.0.3</b>	Mesoderma embryonicum; Mesoblastus <sup>376</sup>	Embryonic mesoderm
<b>E5.0.1.1.0.0.2</b>	Nodus primitivus; Nodus gastrulationis <sup>377</sup>	Primitive node; Gastrulation node §Hensen§
<b>E7.0.1.6.2.0.4</b>	Endoderma embryonicum <sup>378</sup>	Embryonic endoderm
<b>E5.0.2.1.0.0.4</b>	Lamina praechordalis <sup>379</sup>	Prechordal plate
<b>E5.7.3.0.1.0.1</b>	Diverticulum allantoicum; Ductus allantoicus <sup>380</sup>	Allantoic diverticulum; Allantoic duct
<b>E6.0.1.2.0.0.32</b>	Testa trophoblastica	Trophoblastic shell
<b>E7.0.1.6.2.0.5</b>	Membrana cloacalis primordialis	Primordial cloacal membrane

<sup>374</sup> E4.0.3.3.2.0.3 *Mesenchyma capitis* Head mesenchyme is listed as present in embryos from Stage 6b onwards in the Edinburgh atlas and database of human developmental anatomy. <http://www.ana.ed.ac.uk/anatomy/database/humat/> but the primary source of the listing is not known. Its presence in embryos of Stage 7 may be inferred from Hill JP, Florian J. A young human embryo (embryo Dobbin) with head-process and prechordal plate. Phil Trans Roy Soc London B 1931;219:443-486.

<sup>375</sup> E7.0.1.6.2.0.2/ E5.0.1.1.0.0.2/ E7.0.1.6.2.0.2 *Linea primitiva; Linea gastrulationis/Nodus primitivus; Nodus gastrulationis/Sulcus primitivus; Sulcus gastrulationis* The terms primitive streak/node/groove are widely used but may be misuses of the term primitive, which more usually refers to phylogeny rather than ontogeny. The alternative terms, gastrulation streak/node/groove, have not have this defect and, in functional terms, are more informative.

<sup>376</sup> E7.0.1.6.2.0.3 *Mesoderma embryonicum; Mesoblastus* These terms describe the intermediate germ layer of the trilaminar embryo, which will form bone, muscle and connective and blood-vascular tissues. Experimental studies suggest that cells ingressing through primitive node and the rostral part of the primitive streak give rise to paraxial mesoderm and those through the middle part give rise to lateral plate mesoderm. The qualifying adjective embryonic is necessary as long as terms such as primary mesoderm remain in use. The term mesoblast has been used (Collins P. Embryology and development. In: Williams PL, Bannister LH, Berry MM, Collins P, Dyson M, Dussek J, Ferguson MWJ, editors. Gray's Anatomy 38<sup>th</sup> ed. Edinburgh: Churchill Livingstone; 1995 and subsequent editions). However, the use of the suffix -derm for a germ layer produced by gastrulation is preferred and has that restricted use here : the parts of the germ layer are paraxial and lateral plate mesoderms; their derivatives are either epithelial or mesenchymal and are named accordingly.

<sup>377</sup> E5.0.1.1.0.0.2 *Nodus primitivus; Nodus gastrulationis* Once the primitive node has formed, gene expression centred on it becomes asymmetrical and the molecular basis for left-right asymmetry is established.

<sup>378</sup> E7.0.1.6.2.0.4 *Endoderma embryonicum* The term describes the ventral germ layer of the trilaminar embryo, which will form the epithelium of the gut, including the prechordal plate, and many of their derivatives. These possibly include prechordal mesenchyme but this may be of notochordal origin. Experimental studies suggest that the first cells ingressing through the primitive node give rise to notochord and embryonic endoderm, which will form the roof of the secondary umbilical vesicle, displacing the cells of the hypoblast laterally into its walls. The qualifying adjective embryonic is necessary as long as terms such as primary endoderm remain in use.

<sup>379</sup> E5.0.2.1.0.0.4 *Lamina praechordalis* The *prechordal plate* may not appear until Stage 7: certainly in Stage 8 it is "a highly developed mesendodermal mass [in which cells resemble either endoderm or mesenchyme] in contact with the floor of the neural groove". At stages 9 and 10, the plate is related to neuromere D1. Lateral growth at stages 9-11 gives rise to the bilateral premandibular condensations (Müller F, O'Rahilly R. The prechordal plate, the rostral end of the notochord and nearby median features in staged human embryos. Cells Tissues Organs 2003;173:1-20). Prechordal mesenchyme does not become truly plate-like until Stage 9 and some would thus say that the *prechordal plate* appears in Stage 9.

<sup>380</sup> E5.7.3.0.1.0.1 *Diverticulum allantoicum; Ductus allantoicus* Several examples of "allantoic diverticula" have been reported in embryos of Stage 6. Nevertheless, "it is difficult to find a convincing example of an allanto-enteric diverticulum at Stage 6" (O'Rahilly R, Müller F. Developmental stages in human embryos. Washington DC: Carnegie Institution of Washington; 1987).

<b>E7.0.1.6.2.0.6</b>	Haemangiogenesis vesiculae umbilicalis; Haemangiogenesis sacci vitellini	Umbilical vesicle haemangiogenesis <sup>▲</sup> ; Yolk sac haemangiogenesis <sup>▲</sup>
<b>E5.11.3.1.1.0.4</b>	Pedunculus connectans	Connecting stalk
<b>E6.0.1.1.5.0.11</b>	Vasa primordialia pedunculi connectantis	Primordial vessels of connecting stalk
<b>E7.0.1.6.2.0.7</b>	Villus tertarius ramosus	Branching tertiary villus
<b>E7.0.1.6.2.0.8</b>	Vasa villi tertarii	Vessels of tertiary villus
<b>E7.0.1.6.2.0.9</b>	Villus anchorans	Anchoring villus
<b>E6.0.1.2.0.0.27</b>	Villus liber	Floating villus
<b>E6.0.1.1.5.0.6</b>	Mesoblastus extraembryonicus amnioblasto toto adjunctus	Extra-embryonic mesoblast applying to whole amnioblast
<b>E7.0.1.6.2.0.10</b>	Amnion bilaminare	Bilaminar amnion
<b>E5.7.1.0.0.0.2</b>	Cellulae germinales praecursoriae <sup>381</sup>	Primordial germ cells
<b>E2.0.1.2.0.0.33</b>	<b>EMBRYO CUM PROCESSU NOTOCHORDALI [St.7]; EMBRYO CUM PROCESSU AXIALI [St.7]; EMBRYO CUM CHORDOMESODERMA [St.7]</b> <sup>382</sup>	<b>EMBRYO WITH NOTOCHORDAL PROCESS [St.7]; EMBRYO WITH AXIAL PROCESS [St.7]; EMBRYO WITH CHORDAMESODERM [St.7]</b>
<b>E5.13.1.0.1.0.1</b>	Lamina neuralis; Lamina medullaris	Neural plate; Medullary plate
<b>E4.0.3.3.2.0.3</b>	Mesenchyma capitis	Head mesenchyme
<b>E5.0.2.1.0.0.4</b>	Lamina praechordalis <sup>379</sup>	Prechordal plate
<b>E5.0.1.1.0.0.4</b>	Processus notochordalis; Processus axialis; Chordomesoderma	Notochordal process; Axial process; Chordamesoderm
<b>E5.4.0.0.0.0.15</b>	Membrana cloacalis	Cloacal membrane
<b>E6.0.1.2.0.0.2</b>	Allantois	Allantois
<b>E5.7.3.0.1.0.1</b>	Diverticulum allantoicum; Ductus allantoicus	Allantoic diverticulum; Allantoic duct
<b>E6.0.1.2.0.0.7</b>	Mesenchyma allantoicum	Allantoic mesenchyme
<b>E6.0.1.2.0.0.8</b>	Vasa allantoica	Allantoic vessels
<b>E7.0.1.7.0.0.1</b>	Cellulae sanguineae in vasibus allantoicis	Blood cells in allantoic vessels
<b>E6.0.1.2.0.0.9</b>	Amnion	Amnion
<b>E6.0.1.2.0.0.10</b>	Ectoderma extraembryonicum	Extra-embryonic ectoderm
<b>E6.0.1.2.0.0.11</b>	Mesenchyma amnioticum	Amniotic mesenchyme
<b>E6.0.1.2.0.0.12</b>	Mesothelium amnioticum	Amniotic mesothelium
<b>E6.0.1.1.5.0.14</b>	Endoderma extraembryonicum vesiculae umbilicalis; Endoderma extraembryonicum sacci vitellini	Extra-embryonic endoderm of umbilical vesicle; Extra-embryonic endoderm of yolk sac
<b>E5.7.1.0.0.0.2</b>	Cellula germinalis praecursoria	Primordial germ cell
<b>E7.0.1.6.2.0.6</b>	Haemangiogenesis vesiculae umbilicalis; Haemangiogenesis sacci vitellini	Umbilical vesicle haemangiogenesis <sup>▲</sup> ; Yolk sac haemangiogenesis <sup>▲</sup>
<b>E6.0.1.2.0.0.38</b>	Mesenchyma vesiculae umbilicalis; Mesenchyma sacci vitellini	Umbilical vesicle mesenchyme; Yolk sac mesenchyme
<b>E7.0.1.7.0.0.2</b>	Cellulae sanguineae in vasibus vesiculae umbilicalis; Cellulae sanguineae in vasibus sacci vitellini	Blood cells in vessels of umbilical vesicle; Blood cells in vessels of yolk sac
<b>E6.0.1.2.0.0.39</b>	Mesothelium vesiculae umbilicalis; Mesothelium sacci vitellini	Mesothelium of umbilical vesicle; Mesothelium of yolk sac
<b>E2.0.1.2.0.0.34</b>	<b>EMBRYO PRAESOMITICUM [St.8]</b> <sup>383</sup>	<b>PRESOMITE EMBRYO [St.8]</b>
<b>E2.0.1.2.0.0.35</b>	<b>Embryo praesomiticum sine sulco neurale [St.8a]</b>	<b>Presomite embryo without neural groove [St.8a]</b>
<b>E7.0.1.8.1.0.1</b>	Embryo piriformis	Pear-shaped embryo

<sup>381</sup> E5.7.1.0.0.0.2 *Cellulae germinales praecursoriae* An embryo of Stage 6b showed a marked concentration of glycogen in the extra-embryonic endoderm of the secondary Yolk sac and some of the cells may be primordial germ cells (Hertig AT, Adams EC, McKay DG, Rock J, Mulligan WJ, Menkin MF. A thirteen-day human ovum studied histochemically. *Am J Obstet Gynecol* 1958;76:1025-1043). Experimental studies suggest that cells originating in a caudal part of the epiblast, ingress through a caudal part of the primitive streak and migrate into the extra-embryonic endoderm of the secondary yolk sac.

<sup>382</sup> E2.0.1.2.0.0.33 *Embryo cum processu notochordali [St.7]; Embryo cum processu axiali [St.7]; Embryo cum chordomesoderma [St.7]* Each embryo of Carnegie Stage 7 has a notochordal process immediately rostral to its primitive node and streak. The embryos are generally about 0.4mm in diameter and about 19 days old.

<sup>383</sup> E2.0.1.2.0.0.34 *Embryo praesomiticum [St.8]* Embryos of Carnegie Stage 8 are late presomite embryos. They are generally 1-1.5mm in greatest length and about 23 days old. The term presomite embryo is sometimes applied more generically to include also Stages 6-8 but this usage is not recommended. Originally, phases were not ascribed to Stage 8 (O'Rahilly R, Müller F. *Developmental stages in human embryos*. Washington DC: Carnegie Institution of Washington; 1987). However, only advanced specimens show a neural groove: in the same specimens the floor of the notochordal process is breaking down and a notochordal plate is present (O'Rahilly R, Müller F. The first appearance of the human nervous system at stage 8. *Anat Embryol* 1981;163:1-13). These distinct phases are recognised here by the use of the terms Presomite embryo without neural groove [St.8a] and Presomite embryo with neural groove [St.8b].

<b>E5.0.1.1.0.0.3</b>	Fovea primitiva; Fovea notochordalis <sup>384</sup>	Primitive pit; Notochordal pit
<b>E4.0.3.3.2.0.3</b>	Mesenchyma capitis	Head mesenchyme
<b>E2.0.1.2.0.0.36</b>	<b>Embryo praesomiticum cum sulco neurale [St.8b]</b>	<b>Presomite embryo with neural groove [St.8b]</b>
<b>E7.0.1.8.2.0.1</b>	Plica capitis primordialis; Plica cephalica primordialis	Primordial head fold
<b>E5.13.1.0.1.0.3</b>	Sulcus neuralis	Neural groove
<b>E3.0.0.6.1.0.91</b>	Neurulatio primaria <sup>74</sup>	Primary neurulation
<b>E7.0.1.8.2.0.2</b>	Textus cristae neuralis praesumptivae	Presumptive neural crest tissue
<b>E7.0.1.8.2.0.3</b>	Junctio neurosomatica ectodermalis; Junctio neurectodermalis	Neurosomatic ectodermal junction; Neuro-ectodermal junction
<b>E5.0.2.1.0.0.3</b>	Mesoderma paraxiale	Paraxial mesoderm
<b>E5.0.2.2.0.0.2</b>	Somitomera <sup>385</sup>	Somitomeres
<b>E5.0.3.0.0.0.2</b>	Mesoderma laminae lateralis	Lateral plate mesoderm
<b>E5.8.0.0.2.0.6</b>	Mesenchyma cardiogenicum	Cardiogenic mesenchyme
<b>E7.0.1.8.2.0.4</b>	Campus primarius mesenchymatis cardiogenici	Primary heart field of cardiogenic mesenchyme
<b>E5.8.0.0.2.0.4</b>	Spatia coelomica segrega	Isolated coelomic spaces <sup>▲</sup>
<b>E5.8.0.0.2.0.11</b>	Zona junctionalis mesenchymalis <sup>208</sup>	Junctional zone of mesenchyme
<b>E7.0.1.6.2.0.6</b>	Haemangiogenesis vesiculae umbilicalis; Haemangiogenesis sacci vitellini	Umbilical vesicle haemangiogenesis <sup>▲</sup> ; Yolk sac haemangiogenesis <sup>▲</sup>
<b>E5.0.1.1.0.0.5</b>	Canalis notochordalis	Notochordal canal
<b>E5.0.1.1.0.0.6</b>	(Canalis neurentericus) <sup>115</sup>	(Neurenteric canal)
<b>E5.0.1.1.0.0.7</b>	Lamina notochordalis	Notochordal plate
<b>E2.0.1.2.0.0.39</b>	<b>EMBRYO CUM SOMITIS I ad III [St.9]<sup>386</sup></b>	<b>1-3 SOMITE EMBRYO [St.9]</b> ~25 days 1.5-2.5mm GL
<b>E7.0.1.9.0.0.1</b>	Embryo solearis cum lordose	Slipper-sole-shaped embryo with lordosis
<b>E7.0.1.9.0.0.2</b>	Plica capitis; Plica cephalica	Head fold
<b>E7.0.1.9.0.0.3</b>	Plica caudalis primordialis	Primordial tail fold; Primordial caudal fold
<b>E5.13.1.0.2.0.1</b>	Eminentia caudalis; Gemma caudalis	Caudal eminence; Tail bud
<b>E7.0.1.9.0.0.4</b>	Crista ectodermalis ventralis eminentiae caudalis; Crista ectodermalis ventralis gemmae caudalis	Ventral ectodermal ridge of caudal eminence; Ventral ectodermal ridge of tail bud [VER]
<b>E7.0.1.9.0.0.5</b>	Finis motus involutionis per lineam primitivam; Finis motus involutionis per lineam gastrulationis finientem	End of involutionary movement through primitive streak; End of involutionary movement through gastrulation streak
<b>E5.13.1.0.2.0.2</b>	Mesenchyma densum axiale	Axial dense mesenchyme; Tail cord
<b>E7.0.1.9.0.0.6</b>	Cylindrus notochordalis	Notochordal rod
<b>E5.13.1.0.2.0.3</b>	Corde medullaris; Corde neuralis	Medullary cord; Neural cord
<b>E5.0.2.1.0.0.3</b>	Mesoderma paraxiale	Paraxial mesoderm
<b>E5.0.3.0.0.0.2</b>	Mesoderma laminae lateralis	Lateral plate mesoderm
<b>E7.0.1.9.0.0.7</b>	Somiti occipitales [1 ad 3]	Occipital somites [1-3]
<b>E5.0.2.2.0.0.4</b>	Somitocoelia	Somitocoelae <sup>▲</sup>
<b>E5.4.0.0.0.0.7</b>	Stomatodeum primordiale	Primordial stomodeum
<b>E5.3.0.0.0.0.5</b>	Membrana oropharyngea	Oropharyngeal membrane
<b>E5.4.0.0.0.0.8</b>	Primordium praeenteri; Primordium proenteri	Primordium of foregut
<b>E5.4.2.0.0.1.2</b>	Saccus pharyngeus primus [1]	First pharyngeal pouch [1]
<b>E5.4.0.0.0.0.12</b>	Primordium metenteri	Primordium of hindgut
<b>E5.6.0.0.0.0.2</b>	Mesenchyma intermedium <sup>177</sup>	Intermediate mesenchyme
<b>E4.0.4.1.0.0.3</b>	Mesenchyma somatopleurale <sup>206</sup>	Somatopleuric mesenchyme
<b>E5.8.0.0.2.0.1</b>	Coeloma intraembryonicum	Intra-embryonic coelom <sup>▲</sup>

<sup>384</sup> E5.0.1.1.0.0.3 *Fovea primitiva; Fovea notochordalis* The term *primitive pit* is widely used but may be a misuse of the term primitive, which more usually refers to phylogeny rather than ontogeny. The term notochordal pit does not have this defect and is more informative.

<sup>385</sup> E5.0.2.2.0.0.2 *Somitomera* Somitomeres are paired whorls of mesenchymal cells that appear metamerically in paraxial mesoderm before the appearance of epithelial somites: somitomeres form in strict craniocaudal sequence beginning in the head where they subsequently contribute to head mesenchyme; elsewhere, they condense, epithelialise and form somites; they have been found in all amniote embryos that have been examined by stereo scanning electron microscopy (Jacobson AG. Somites and head mesoderm arise from somitomeres. In: Sanders EJ, Lash JW, Ordahl CP. Eds. The origin and fate of somites. Amsterdam: IOS Press; 2001.) and are expected to be found in human embryos when examined by an appropriate method.

<sup>386</sup> E2.0.1.2.0.0.39 *Embryo cum somitis I ad III [St.9]* Embryos of Carnegie Stage 9 have 1-3 pairs of somites. They are generally 1.5-2.5mm in length and about 25 days old.

<b>E5.8.0.0.2.0.8</b>	Cavitas pericardiaca primordialis	Primordial pericardial cavity
<b>E5.8.0.0.3.0.3</b>	Mesocardium <sup>210</sup>	Mesocardium; Dorsal mesocardium
<b>E5.8.0.0.3.0.2</b>	Primordium epicardii; Proepicardium <sup>209</sup>	Primordium of epicardium; Pro-epicardium
<b>E4.0.4.1.0.0.4</b>	Mesenchyma splanchnopleurale <sup>207</sup>	Splanchnopleuric mesenchyme
<b>E7.0.1.8.2.0.4</b>	Campus primarius mesenchymatis cardiogenici	Primary heart field of cardiogenic mesenchyme
<b>E5.11.1.1.1.0.3</b>	Laminae cardiogenicae non symmetricae; Primordia endocardiaca	Bilateral asymmetric cardiogenic plates; Endocardiac primordia
<b>E7.0.1.9.0.0.8</b>	Primordia endocardiaca	Endocardiac primordia
<b>E7.0.1.9.0.0.9</b>	Myocardium primordiale	Primordial myocardium
<b>E5.11.1.1.1.0.8</b>	Gelatinoreticulum; Cardioglia	Cardiac jelly
<b>E5.11.1.1.1.0.4</b>	Primordium cordis; Cor plexiforme	Heart primordium; Plexiform heart
<b>E5.2.0.4.0.0.2</b>	Septum transversum	Septum transversum
<b>E7.0.1.6.2.0.6</b>	Haemangiogenesis vesiculae umbilicalis; Haemangiogenesis sacci vitellini	Umbilical vesicle haemangiogenesis <sup>▲</sup> ; Yolk sac haemangiogenesis <sup>▲</sup>
<b>E7.0.1.9.0.0.10</b>	Vasa extraembryonica	Extra-embryonic blood vessels
<b>E7.0.1.9.0.0.11</b>	Vasa chorionica	Chorionic blood vessels
<b>E6.0.1.2.0.0.8</b>	Vasa allantoica	Allantoic vessels
<b>E6.0.1.1.5.0.17</b>	Vasa omphalomesenterica; Vasa vitellina	Omphalomesenteric vessels; Vitelline vessels
<b>E7.0.1.9.0.0.12</b>	Vasa intraembryonica	Intra-embryonic blood vessels
<b>E7.0.1.9.0.0.13</b>	V. omphalomesenterica; V. vitellina	Omphalomesenteric vein; Vitelline vein
<b>E5.11.1.2.0.0.1</b>	A. arcus primi pharyngei [1] <sup>223</sup>	First pharyngeal arch artery [1]; First aortic arch [1]
<b>E7.0.1.9.0.0.14</b>	Primordium arteriae carotidis internae	Internal carotid artery primordium
<b>E7.0.1.9.0.0.15</b>	Aorta dorsalis primordialis	Primordial dorsal aorta
<b>E5.0.3.0.0.0.3</b>	Ectoderma embryonicum <sup>121</sup>	Embryonic ectoderm
<b>E5.13.1.0.1.0.2</b>	Plica neuralis	Neural fold
<b>E7.0.1.9.0.0.16</b>	Primordium prosencephali	Forebrain primordium
<b>E7.0.1.9.0.0.17</b>	Incisura terminalis	Terminal notch
<b>E7.0.1.9.0.0.18</b>	Neuromerus primarius prosencephali [P]	Primary neuromere of forebrain [P]
<b>E5.14.3.3.0.0.3</b>	Flexura mesencephalica	Mesencephalic flexure; Cephalic flexure
<b>E7.0.1.9.0.0.19</b>	Primordium mesencephali	Midbrain primordium
<b>E7.0.1.9.0.0.20</b>	Neuromerus primarius mesencephali [M]	Primary neuromere of midbrain [M]
<b>E5.0.2.1.0.0.2</b>	Crista neuralis	Neural crest
<b>E4.0.3.3.1.0.1</b>	Complexus cristae neuralis mesencephalicae <sup>95</sup>	Mesencephalic neural crest complex
<b>E7.0.1.9.0.0.21</b>	Primordium rhombencephali	Hindbrain primordium
<b>E7.0.1.9.0.0.22</b>	Rhombomeri primarii [A ad D]	Primary rhombomeres [A-D]
<b>E7.0.1.9.0.0.23</b>	Primordium medullae spinalis	Spinal cord primordium
<b>E5.0.1.1.0.0.6</b>	(Canalis neurentericus) <sup>115</sup>	(Neurenteric canal)
<b>E5.15.2.0.0.0.4</b>	Placoda otica	Otic placode; Otic disc
<b>E7.0.1.9.0.0.24</b>	Epithelium superficiale corporis simplex	One-layered body surface epithelium
<b>E2.0.1.2.0.0.40</b>	<b>EMBRYO CUM SOMITIS IV ad XII [St.10]<sup>387</sup></b>	<b>4-12 SOMITE EMBRYO [St.10]</b> ~28 days 2.0-3.5mm GL
	<i>Generalia</i>	<i>General</i>
<b>E7.0.1.10.0.0.1</b>	Ruptura zonae junctionalis mesenchymatis inter coeloma embryonicum et coeloma extraembryonicum	Breakdown of junction zone of mesenchyme between embryonic and extra-embryonic coelomata <sup>▲</sup>
<b>E7.0.1.10.0.0.2</b>	Plica lateralis primordialis corporis	Primordial lateral body fold
<b>E5.2.0.3.2.0.9</b>	Anulus umbilicalis	Umbilical ring
<b>E5.0.2.1.5.0.1</b>	Arcus pharyngeus primus [1]	First pharyngeal arch [1]
<b>E7.0.1.10.0.0.3</b>	Densatio ectodermalis	Ectodermal thickening
<b>E5.3.0.0.0.0.13</b>	Prominentia maxillaris	Maxillary prominence
<b>E7.0.1.10.0.0.4</b>	Somitus occipitalis quartus[4]	Fourth occipital somite [4]
<b>E7.0.1.10.0.0.5</b>	Somiti cervicales [5 ad 12]	Cervical somites [5-12]
<b>E5.8.0.0.2.0.9</b>	Canalis pericardioperitonealis primordialis	Primordial pericardioperitoneal canal
<b>E7.0.1.10.0.0.6</b>	Emanatio cellularum notochordae de eminentia caudale	Emergence of notochordal cells from caudal eminence

<sup>387</sup> E2.0.1.2.0.0.40 Embryo cum somitis IV ad XII [St.10] Embryos of Carnegie Stage 10 have 4-12 pairs of somites. They are generally 2-3.5mm in length and about 28 days old.

<b>E5.0.3.0.0.0.4</b>	Anulus ectodermalis primordialis	Primordial ectodermal ring
	<i>Alimentaria</i>	<i>Alimentary</i>
<b>E5.3.0.0.0.0.4</b>	Stomodeum; Stomatodeum	Stomodeum
<b>E5.3.0.0.0.0.14</b>	Prominentia mandibularis	Mandibular prominence
<b>E5.16.4.0.1.0.2</b>	Sulcus pharyngeus primus [1]	First pharyngeal groove [1]
<b>E5.16.4.0.2.0.12</b>	Arcus pharyngeus secundus [2]	Second pharyngeal arch [2]
<b>E7.0.1.10.0.0.3</b>	Densatio ectodermalis	Ectodermal thickening
<b>E5.2.0.0.0.0.4</b>	Placodae epipharyngeae	Epipharyngeal placodes
<b>E5.4.4.0.0.0.2</b>	Praeenteron; Proenteron	Foregut
<b>E5.4.2.0.0.1.7</b>	Saccus pharyngeus secundus	Second pharyngeal pouch
<b>E5.4.2.0.0.1.10</b>	Saccus pharyngeus tertius [3]	Third pharyngeal pouch [3]
<b>E5.4.9.0.2.0.1</b>	Metenteron	Hindgut
<b>E5.4.11.0.0.0.1</b>	Ureteron; Pars postcloacalis intestini <sup>197</sup>	Postcloacal gut; Tailgut; Endgut
<b>E7.0.1.10.0.0.7</b>	Lamina hepatica	Hepatic lamina
	<i>Respiratoria</i>	<i>Respiratory</i>
<b>E7.0.1.10.0.0.8</b>	Primordium respiratorium	Respiratory primordium
	<i>Urogenitalia</i>	<i>Urogenital</i>
<b>E7.0.1.10.0.0.9</b>	Primordium pronephri	Primordium of pronephros
	<i>Endocrina</i>	<i>Endocrine</i>
<b>E5.4.1.1.2.2.2</b>	Primordium adenohipophysys	Adenohipophysial primordium
<b>E7.0.1.10.0.0.10</b>	Primordium glandulae thyroideae	Primordium of thyroid gland
	<i>Cardiovascularia</i>	<i>Cardiovascular</i>
<b>E5.8.0.0.3.0.5</b>	Sinus transversus pericardii	Transverse pericardial sinus
<b>E5.11.2.2.1.0.4</b>	Vv. umbilicales	Umbilical veins
<b>E5.11.1.1.1.0.5</b>	Cor tubulare	Tubular heart
<b>E5.11.1.2.0.0.3</b>	Ansa cordis crescentiformis	C-loop
<b>E5.11.1.2.0.0.4</b>	Ansa cordis sigmoidea prima	Early S-loop
<b>E3.0.0.6.1.0.50</b>	Inflatio	Ballooning
<b>E5.11.1.3.2.0.3</b>	Tractus influxus	Inflow tract
<b>E5.11.1.2.0.0.6</b>	Cornua sinistrum et dextrum sinus venosi cordis	Left and right horns of sinus venosus
<b>E5.11.1.3.1.0.2</b>	Ventriculus embryonicus; Ventriculus communis	Embryonic ventricle
<b>E5.11.1.3.2.0.15</b>	Tractus effluxionis	Outflow tract
<b>E5.11.1.2.0.0.1</b>	A. arcus primi pharyngei [1] <sup>223</sup>	First pharyngeal arch artery [1]; First aortic arch [1]
<b>E5.11.2.1.2.0.2</b>	A. arcus secundi pharyngei [2] <sup>223</sup>	Second pharyngeal arch artery [2]; Second aortic arch [2]
<b>E7.0.1.10.0.0.11</b>	Aa. intersegmentales	Intersegmental arteries
<b>E6.0.1.3.0.0.4</b>	Aa. umbilicales	Umbilical arteries
	<i>Haematolymphoidea</i>	<i>Haematolymphoid</i> <sup>▲</sup>
<b>E7.0.1.6.2.0.6</b>	Haemangiogenesis vesiculae umbilicalis; Haemangiogenesis sacci vitellini	Umbilical vesicle haemangiogenesis <sup>▲</sup> ; Yolk sac haemangiogenesis <sup>▲</sup>
	<i>Neuralia et sensoria</i>	<i>Neural and senses</i>
<b>E7.0.1.10.0.0.12</b>	Pars mediana telencephali primordialis; Telencephalon impar	Primordial median telencephalon; Unpaired telencephalon
<b>E7.0.1.10.0.0.13</b>	Neuromerus secundarius telencephalicus [T]	Telencephalic secondary neuromere [T]
<b>E7.0.1.10.0.0.14</b>	Diencephalon primordiale	Primordial diencephalon
<b>E7.0.1.10.0.0.15</b>	Neuromerus secundarius diencephalicus [D1]	Diencephalic secondary neuromere [D1]
<b>E5.16.3.1.0.0.2</b>	Primordium opticum	Optic primordium
<b>E5.14.3.4.2.2.3</b>	Sulcus opticus	Optic groove; Optic sulcus
<b>E5.16.3.1.4.0.2</b>	Crista neuralis optica	Optic neural crest
<b>E7.0.1.10.0.0.16</b>	Neuromerus secundarius diencephalicus [D2]	Diencephalic secondary neuromere [D2]
<b>E7.0.1.10.0.0.17</b>	Conjunctio plicarum neuralium rhombencephalicarum	Fusion of rhombencephalic neural folds
<b>E5.14.1.0.0.0.1</b>	Tubus neuralis	Neural tube
<b>E5.0.1.1.0.0.6</b>	(Canalis neurentericus) <sup>115</sup>	(Neurenteric canal)
<b>E5.0.2.1.0.0.2</b>	Crista neuralis	Neural crest
<b>E4.0.3.3.3.0.1</b>	Crista neuralis rhombencephalica	Rhombencephalic neural crest
<b>E4.0.3.3.3.1.1</b>	Complexus cristae neuralis trigeminalis <sup>97</sup>	Trigeminal neural crest complex
<b>E5.15.4.0.0.0.5</b>	Primordium ganglii trigeminalis	Primordium of trigeminal ganglion
<b>E4.0.3.3.3.2.1</b>	Complexus cristae neuralis facialis <sup>98</sup>	Facial neural crest complex
<b>E5.15.1.0.2.0.5</b>	Complexus cristae neuralis faciovestibulocochlearis <sup>288</sup>	Faciovestibulocochlear neural crest complex

<b>E4.0.3.5.0.1.1</b>	Complexus cristae neuralis glossopharyngealis <sup>100</sup>	Glossopharyngeal neural crest complex
<b>E7.0.1.10.0.0.18</b>	Primordium ganglionum glossopharyngeorum	Primordium of glossopharyngeal ganglia
<b>E4.0.3.5.0.2.1</b>	Complexus cristae neuralis vagalis <sup>100</sup>	Vagal neural crest complex
<b>E7.0.1.10.0.0.19</b>	Primordium ganglionum vagalium	Primordium of vagal ganglia
<b>E4.0.3.5.0.5.1</b>	Crista neuralis hypoglossalis; Crista neuralis occipitalis <sup>103</sup>	Hypoglossal neural crest; Occipital neural crest
<b>E4.0.3.5.1.0.1</b>	Crista neuralis spinalis <sup>104</sup>	Spinal neural crest
<b>E2.0.1.2.0.0.41</b>	<b>EMBRYO CUM SOMITIS XIII ad XX [St.11]</b> <sup>388</sup>	<b>13-20 SOMITE EMBRYO [St.11]</b> ~29 days 2.5-4.5mm GL
	<i>Generalia</i>	<i>General</i>
<b>E5.3.0.0.0.0.8</b>	Placoda nasalis; Placoda olfactoria <sup>165</sup>	Nasal placode; Nasal disc; Olfactory placode
<b>E7.0.1.11.0.0.1</b>	Anulus ectodermalis imperfectus	Ectodermal ring incomplete
<b>E7.0.1.11.0.0.2</b>	Pars rostralis anuli ectodermalis	Rostral part of ectodermal ring
<b>E5.0.3.0.0.0.6</b>	Gemma membri superioris	Upper limb bud; Rostral limb bud
<b>E7.0.1.11.0.0.3</b>	Pars caudalis anuli ectodermalis	Caudal part of ectodermal ring
<b>E7.0.1.9.0.0.4</b>	Crista ectodermalis ventralis eminentiae caudalis; Crista ectodermalis ventralis gemmae caudalis	Ventral ectodermal ridge of caudal eminence; Ventral ectodermal ridge of tail bud [VER]
<b>E7.0.1.11.0.0.4</b>	Somiti thoracici [13 ad 20]	Thoracic somites [13-20]
<b>E7.0.1.11.0.0.5</b>	Sclerotomi occipitales [4]	Occipital sclerotomes [4]
<b>E5.2.0.0.0.0.5</b>	Dermatomyotomi; Dermomyotomi	Dermatomyotomes; Dermomyotomes
<b>E5.0.1.1.0.0.8</b>	Notochorda; Notochorda propria; Chorda dorsalis	Notochord; Notochord proper
<b>E5.8.0.0.6.0.1</b>	Communicatio inter latera dextrum et sinistrum cavitatis peritonealis caudaliter ductui omphaloenterico	Communication between right and left sides of peritoneal cavity caudal to omphalo-enteric duct
	<i>Alimentaria</i>	<i>Alimentary</i>
<b>E7.0.1.11.0.0.6</b>	Abruptio membranae oropharyngeae	Rupture of oropharyngeal membrane
<b>E5.4.2.0.0.1.17</b>	Saccus pharyngeus quartus [4]	Fourth pharyngeal pouch [4]
<b>E5.4.4.0.0.0.3</b>	Primordium oesophagei	Primordium of oesophagus <sup>▲</sup>
<b>E5.4.5.0.0.0.2</b>	Primordium gastris	Primordium of stomach
<b>E7.0.1.11.0.0.7</b>	Primordium duodeni	Primordium of duodenum
<b>E5.4.13.0.0.0.3</b>	Diverticulum hepatocysticum	Hepatocystic diverticulum
<b>E7.0.1.11.0.0.8</b>	Pars distalis diverticuli hepatocystici	Distal part of hepatocystic diverticulum
<b>E5.4.6.0.0.0.14</b>	Diverticulum hepaticum	Hepatic diverticulum
<b>E5.4.13.0.0.0.4</b>	Pars proximalis diverticuli hepatocystici	Proximal part of hepatocystic diverticulum
<b>E7.0.1.11.0.0.9</b>	Diverticulum ductus cystici	Cystic duct diverticulum; Cystic diverticulum
	<i>Urogenitalia</i>	<i>Urogenital</i>
<b>E5.6.1.0.0.0.5</b>	(Ductus pronephricus)	(Pronephric duct)
<b>E5.6.2.0.0.0.3</b>	Chorda nephrogenica; Chorda mesonephrica <sup>180</sup>	Nephrogenic cord; Mesonephric cord
<b>E5.6.2.0.0.0.4</b>	Ductus mesonephricus	Mesonephric duct
<b>E7.0.1.11.0.0.10</b>	Vesiculae mesonephricae	Mesonephric vesicles
<b>E5.7.1.0.0.0.3</b>	Translatio cellularum germinalium praecursorium; Migratio cellularum germinalium praecursorium <sup>189</sup>	Positional change of primordial germ cells; Migration of primordial germ cells
	<i>Cardiovascularia</i>	<i>Cardiovascular</i>
<b>E7.0.1.11.0.0.11</b>	Cor circumitum; Cor sigmoideum	Looped heart; Sigmoid heart
<b>E5.11.1.2.0.0.5</b>	Ansa cordis sigmoidea sera	Late S-loop
<b>E7.0.1.11.0.0.12</b>	Sinus venosus primordialialis	Primordial sinus venosus
<b>E5.11.1.3.1.0.6</b>	Auriculae dextra et sinistra	Right and left auricles; Right and left atrial appendages
<b>E7.0.1.11.0.0.13</b>	Primordium atrii dextri	Right atrial primordium
<b>E7.0.1.11.0.0.14</b>	Primordium atrii sinistri	Left atrial primordium
<b>E5.11.1.3.2.0.11</b>	Canalis atrioventricularis	Atrioventricular canal
<b>E7.0.1.11.0.0.15</b>	Junctio atrioventricularis	Atrioventricular junction
<b>E5.11.1.3.1.0.3</b>	Ventriculi embryonici dexter sinisterque paralleli	Right and left embryonic ventricles in parallel
<b>E7.0.1.11.0.0.16</b>	Primordium trabeculare ventriculi dextri	Trabeculated right ventricle primordium

<sup>388</sup> E2.0.1.2.0.0.41 *Embryo cum somitis XIII ad XX [St.11]* Embryos of Carnegie Stage 11 have 13-20 pairs of somites. They are generally 2.5-4.5mm in length and about 29 days old.

<b>E5.11.1.7.3.0.1</b>	Septum interventriculare	Interventricular septum
<b>E7.0.1.11.0.0.17</b>	Primordium trabeculare ventriculi sinistri	Trabeculated left ventricle primordium
<b>E7.0.1.11.0.0.18</b>	Conotruncus	Conotruncus
<b>E5.11.1.3.2.0.16</b>	Saccus aorticus	Aortic sac
	<i>Haematolymphoidea</i>	<i>Haematolymphoid</i> <sup>▲</sup>
<b>E7.0.1.6.2.0.6</b>	Haemangiogenesis vesiculae umbilicalis; Haemangiogenesis sacci vitellini	Umbilical vesicle haemangiogenesis <sup>▲</sup> ; Yolk sac haemangiogenesis <sup>▲</sup>
	<i>Neuralia et sensoria</i>	<i>Neural and senses</i>
<b>E5.0.1.1.0.0.6</b>	(Canalis neurentericus) <sup>115</sup>	(Neurenteric canal)
<b>E7.0.1.11.0.0.19</b>	Situs occlusionis canalis neurenterici <sup>115</sup>	Site of former neurenteric canal
<b>E7.0.1.11.0.0.20</b>	Occlusio neuropori rostralis	Rostral neuropore closure
<b>E5.14.3.4.2.2.4</b>	Vesicula optica	Optic vesicle
<b>E4.0.3.2.0.0.1</b>	Complexus cristae neuralis opticae <sup>93</sup>	Optic neural crest complex
<b>E7.0.1.11.0.0.21</b>	Rhombomerus primus [Rh 1]	First rhombomere [Rh 1]
<b>E7.0.1.11.0.0.22</b>	Rhombomerus secundus [Rh 2]	Second rhombomere [Rh 2]
<b>E7.0.1.11.0.0.23</b>	Ganglion trigeminale	Trigeminal ganglion
<b>E7.0.1.11.0.0.24</b>	Rhombomerus tertius [Rh 3]	Third rhombomere [Rh 3]
<b>E7.0.1.11.0.0.25</b>	Rhombomerus quartus [Rh 4]	Fourth rhombomere [Rh 4]
<b>E7.0.1.11.0.0.26</b>	Ganglion faciovestibulocochleare	Faciovestibulocochlear ganglion
<b>E5.15.2.0.0.0.5</b>	Fovea otica	Otic pit
<b>E7.0.1.11.0.0.27</b>	Discus oticus	Otic plate
<b>E7.0.1.11.0.0.28</b>	Crista neuralis otica	Otic neural crest
<b>E7.0.1.11.0.0.29</b>	Rhombomerus quintus [Rh 5]	Fifth rhombomere [Rh 5]
<b>E7.0.1.11.0.0.30</b>	Rhombomerus sextus [Rh 6]	Sixth rhombomere [Rh 6]
<b>E7.0.1.11.0.0.31</b>	Ganglia glossopharyngea	Glossopharyngeal ganglia
<b>E7.0.1.11.0.0.32</b>	Rhombomerus septimus [Rh 7]	Seventh rhombomere [Rh 7]
<b>E7.0.1.11.0.0.33</b>	Ganglia vagalia	Vagal ganglia
<b>E7.0.1.11.0.0.34</b>	Rhombomerus octavus [Rh 8]	Eighth rhombomere [Rh 8]
<b>E2.0.1.2.0.0.42</b>	<b>EMBRYO CUM SOMITIS XXI ad XXIX [St.12]<sup>389</sup></b>	<b>21-29 SOMITE EMBRYO [St.12]</b> ~30 days 3.0-5.0mm GL
	<i>Generalia</i>	<i>General</i>
<b>E7.0.1.12.0.0.1</b>	Somiti thoracici [21 ad 24]	Thoracic somites [21-24]
<b>E7.0.1.12.0.0.2</b>	Somiti lumbales [25 ad 29]	Lumbar somites [25-29]
<b>E5.0.1.1.0.0.10</b>	Lamina basalis notochordalis; Vagina acellularis notochordalis <sup>116</sup>	Notochordal basal lamina; Acellular notochordal sheath
<b>E7.0.1.12.0.0.3</b>	Sinus cervicalis	Cervical sinus
<b>E7.0.1.12.0.0.4</b>	Anulus ectodermalis completus	Ectodermal ring complete
<b>E7.0.1.11.0.0.2</b>	Pars rostralis anuli ectodermalis	Rostral part of ectodermal ring
<b>E5.0.3.0.0.0.6</b>	Gemma membri superioris	Upper limb bud; Rostral limb bud
<b>E7.0.1.12.0.0.5</b>	Pars intermembralis praesumptiva anuli ectodermalis	Presumptive intermembral part of ectodermal ring
<b>E7.0.1.11.0.0.3</b>	Pars caudalis anuli ectodermalis	Caudal part of ectodermal ring
<b>E7.0.1.9.0.0.4</b>	Crista ectodermalis ventralis eminentiae caudalis; Crista ectodermalis ventralis gemmae caudalis	Ventral ectodermal ridge of caudal eminence; Ventral ectodermal ridge of tail bud [VER]
<b>E5.8.0.0.6.0.2</b>	Communicatio inter latera dextrum et sinistrum cavitatis peritonealis cranialiter ductui omphaloenterico	Communication between right and left sides of peritoneal cavity cranial to omphalo-enteric duct
	<i>Alimentaria</i>	<i>Alimentary</i>
<b>E5.4.1.2.0.0.11</b>	Copula	Copula
<b>E5.8.0.0.5.0.15</b>	Bursa omentalis	Omental bursa; Lesser sac
<b>E7.0.1.12.0.0.6</b>	Primordium recessus pleuroperitonealis dexteri	Primordium of right pleuroperitoneal recess
<b>E5.9.0.0.0.0.2</b>	Mesenterium dorsale primordiale	Primordial dorsal mesentery
<b>E5.4.6.0.0.0.15</b>	Gemma pancreatica dorsalis	Dorsal pancreatic bud
	<i>Respiratoria</i>	<i>Respiratory</i>
<b>E7.0.1.12.0.0.7</b>	Gemma trachealis; Gemma pulmonalis	Tracheal bud; Lung bud
	<i>Urogenitalia</i>	<i>Urogenital</i>
<b>E7.0.1.12.0.0.8</b>	Ductus mesonephricus junctus cum cloaca	Mesonephric duct joins cloaca

<sup>389</sup> E2.0.1.2.0.0.42 Embryo cum somitis XXI ad XXIX [St.12] Embryos of Carnegie Stage 12 have 21-29 pairs of somites. They are generally 3-5mm in length and about 30 days old.

<b>E7.0.1.12.0.0.9</b>	Cellulae germinales praecursoriae in muro metenteri	Primordial germ cells in wall of hindgut
	<i>Endocrina</i>	<i>Endocrine</i>
<b>E5.4.2.0.0.1.21</b>	Corpus ultimopharyngeum <sup>390</sup>	Ultimopharyngeal body
<b>E5.4.1.2.0.0.9</b>	Saccus thyroideus; Diverticulum thyroideum	Thyroid pouch; Thyroid diverticulum
	<i>Cardiovascularia</i>	<i>Cardiovascular</i>
<b>E5.11.1.3.2.0.7</b>	Ostium sinuatriale	Sinuatrial orifice
<b>E5.11.1.5.0.0.12</b>	Valva sinuatrialis	Sinu-atrial valve
<b>E5.11.1.3.2.0.9</b>	Septum primum	Primary interatrial septum
<b>E5.11.1.3.2.0.11</b>	Canalis atrioventricularis	Atrioventricular canal
<b>E5.11.1.3.2.0.12</b>	Tuber endocardiacum atrioventriculare	Atrioventricular endocardial cushion
<b>E4.0.3.5.0.3.10</b>	Ductus communis effluxionis cordis	Common outflow tract of heart
<b>E4.0.3.5.0.3.11</b>	Crista endocardica septalis; Tuber endocardiacum septale	Septal ridge; Septal cushion; Parietal cushion
<b>E5.11.1.3.2.0.16</b>	Saccus aorticus	Aortic sac
<b>E5.11.2.1.2.0.4</b>	A. arcus tertii pharyngei [3] <sup>223</sup>	Third pharyngeal arch artery [3]; Third aortic arch [3]
<b>E7.0.1.12.0.0.10</b>	Primordium trunci coeliaci	Primordium of coeliac trunk <sup>▲</sup>
	<i>Haematolymphoidea</i>	<i>Haematolymphoid</i> <sup>▲</sup>
<b>E7.0.1.6.2.0.6</b>	Haemangiogenesis vesiculae umbilicalis; Haemangiogenesis sacci vitellini	Umbilical vesicle haemangiogenesis <sup>▲</sup> ; Yolk sac haemangiogenesis <sup>▲</sup>
<b>E7.0.1.12.0.0.11</b>	Initium haematopoiesis in hepate	Start of haematopoiesis in liver <sup>▲</sup>
	<i>Neuralia et sensoria</i>	<i>Neural and senses</i>
<b>E7.0.1.12.0.0.12</b>	Occlusio neuropori caudalis	Caudal neuropore closing
<b>E7.0.1.12.0.0.13</b>	Phasis zonae unae differentiationis epithelii tubi neuralis	One-zone phase of differentiation of neural tube epithelium
<b>E5.3.0.0.0.0.8</b>	Placoda nasalis; Placoda olfactoria <sup>165</sup>	Nasal placode; Nasal disc; Olfactory placode
<b>E4.0.3.5.0.3.1</b>	Complexus cristae neuralis cardiacus <sup>101</sup>	Cardiac neural crest complex
<b>E4.0.3.5.0.4.1</b>	Crista neuralis nervi accessorii <sup>102</sup>	Neural crest of accessory nerve
<b>E7.0.1.12.0.0.14</b>	Radices nervi hypoglossi	Hypoglossal nerve roots
<b>E3.0.0.6.1.0.92</b>	Neurulatio secundaria <sup>75</sup>	Secondary neurulation
	<i>Cutanea</i>	<i>Cutaneous</i>
<b>E7.0.1.12.0.0.15</b>	Epithelium superficiale corporis bilaminare	Two-layered body surface epithelium
<b>E5.3.0.0.0.0.3</b>	Periderma	Periderm
<b>E2.0.1.2.0.0.43</b>	<b>EMBRYO CUM SOMITIS XXX+ [St.13]<sup>391</sup></b>	<b>30+ SOMITE EMBRYO [St.13]</b> ~32 days 4.0-6.0mm GL
	<i>Generalia</i>	<i>General</i>
<b>E7.0.1.13.0.0.1</b>	Somiti sacrales [30 ad 34] <sup>392</sup>	Sacral somites [30-34]
<b>E7.0.1.13.0.0.2</b>	Somiti coccygei [35 ad 38/39] <sup>392</sup>	Coccygeal somites [35-38/39]
<b>E5.0.1.1.0.0.11</b>	Vagina notochordalis; Vagina cellularis notochordalis	Notochordal sheath; Perichordal sheath; Cellular notochordal sheath
<b>E7.0.1.13.0.0.3</b>	Arcus pharyngeus quartus [IV]	Fourth pharyngeal arch [4]
<b>E5.0.3.0.0.0.7</b>	Gemma membri inferioris	Lower limb bud; Caudal limb bud
	<i>Alimentaria</i>	<i>Alimentary</i>
<b>E5.4.1.2.0.0.6</b>	Tuberculum impar; Gemma lingualis mediana	Median lingual swelling
<b>E5.4.1.2.0.0.12</b>	Eminentia hypopharyngea <sup>169</sup>	Hypopharyngeal eminence
<b>E5.4.5.0.0.0.2</b>	Primordium gastris	Primordium of stomach
<b>E7.0.1.13.0.0.4</b>	Descensus gastris primordialis	Descent of primordial stomach
<b>E7.0.1.13.0.0.5</b>	Elongatio gastris primordialis	Elongation of primordial stomach
<b>E5.4.15.0.2.0.2</b>	Gemma pancreatica ventralis	Ventral pancreatic bud
<b>E7.0.1.13.0.0.6</b>	Laminae hepaticae frontales et sagittales	Frontal and sagittal hepatic plates
<b>E7.0.1.13.0.0.7</b>	Primordium caeci	Primordium of caecum <sup>▲</sup>
<b>E5.4.4.0.0.0.4</b>	Epithelium endodermale	Endodermal epithelium
<b>E5.9.0.0.0.0.2</b>	Mesenterium dorsale primordiale	Primordial dorsal mesentery

<sup>390</sup> E5.4.2.0.0.1.21 *Corpus ultimopharyngeum* The *ultimopharyngeal bodies*, which are said to provide the lateral components of the thyroid and parathyroid glands (Weller JL. Development of the thyroid, parathyroid and thymus glands in man. Carnegie Instn Wash Publ 443, Contrib Embryol 1933;24:93-139), separate from pharyngeal pouches III and IV in Carnegie Stage 12.

<sup>391</sup> E2.0.1.2.0.0.43 *Embryo cum somitis XXX+ [St.13]* Embryos of Carnegie Stage 13 have 30+ pairs of somites. They are generally 4-6mm in length and about 32 days old.

<sup>392</sup> E7.0.1.13.0.0.1/ E7.0.1.13.0.0.2 *Somiti sacrales [30 ad 34] /Somiti coccygeae [35 ad 38/39]* The *sacral and coccygeal somites* are derived from secondary paraxial mesoderm, which comes from the axial dense mesenchyme of the caudal eminence or tail bud.



<b>E5.4.7.0.0.0.5</b>	Ductus omphaloentericus; Ductus vitellointestinalis	Omphalo-enteric duct; Vitello-intestinal duct; Yolk stalk
	<i>Respiratoria</i>	<i>Respiratory</i>
<b>E7.0.1.13.0.0.8</b>	Primordium diaphragmatis in collo	Primordium of diaphragm in neck
<b>E7.0.1.13.0.0.9</b>	Canalis pleuroperitonealis	Pleuroperitoneal canal
<b>E5.8.0.0.4.0.2</b>	Invaginatio faciei medialis canalis pericardioperitonealis a pulmone primordiale	Invagination of medial aspect of pericardioperitoneal canal by primordial lung
<b>E5.5.3.0.1.0.26</b>	Trachea	Trachea
<b>E7.0.1.13.0.0.10</b>	Gemmae bronchiales primariae dextra et sinistra; Gemmae pulmonales dextra et sinistra	Right and left primary bronchial buds; Right and left lung buds
<b>E7.0.1.13.0.0.11</b>	Aa. pulmonales	Pulmonary arteries
<b>E7.0.1.13.0.0.12</b>	Vasa capillaria pulmonalia	Pulmonary capillaries
<b>E7.0.1.13.0.0.13</b>	V. pulmonalis unica	Single pulmonary vein
	<i>Urogenitalia</i>	<i>Urogenital</i>
<b>E7.0.1.13.0.0.14</b>	Glomeruli mesonephrici	Mesonephric glomeruli
<b>E7.0.1.13.0.0.15</b>	Tubuli mesonephrici sigmoidei	S-shaped mesonephric tubules
<b>E5.6.3.2.0.0.1</b>	Blastema metanephrogenicum	Metanephrogenic blastema; Metanephric mass of mesenchyme
<b>E7.0.1.13.0.0.16</b>	Linea fissionis urorectalis	Urorectal cleavage line
	<i>Endocrina</i>	<i>Endocrine</i>
<b>E5.10.1.1.0.0.4</b>	Saccus adenohipophysialis <sup>112</sup>	Adenohipophysial pouch §Rathke§
	<i>Cardiovascularia</i>	<i>Cardiovascular</i>
<b>E5.11.1.7.3.0.16</b>	Fasciculus atrioventricularis	Atrioventricular bundle §His§
<b>E7.0.1.13.0.0.17</b>	A. arcus quarti pharyngei [4] <sup>223</sup>	Fourth pharyngeal arch artery [4]; Fourth aortic arch [4]
<b>E7.0.1.13.0.0.11</b>	Aa. pulmonales	Pulmonary arteries
<b>E7.0.1.13.0.0.12</b>	Vasa capillaria pulmonalia	Pulmonary capillaries
<b>E7.0.1.13.0.0.13</b>	V. pulmonalis unica	Single pulmonary vein
<b>E5.11.1.5.1.1.5</b>	Plica pulmonalis	Pulmonary fold
<b>E5.11.2.1.3.2.4</b>	Truncus coeliacus	Coeliac trunk <sup>▲</sup>
<b>E7.0.1.13.0.0.18</b>	Aa. mesentericae	Mesenteric arteries
	<i>Haematolymphoidea</i>	<i>Haematolymphoid<sup>▲</sup></i>
<b>E7.0.1.6.2.0.6</b>	Haemangiogenesis vesiculae umbilicalis; Haemangiogenesis sacci vitellini	Umbilical vesicle haemangiogenesis <sup>▲</sup> ; Yolk sac haemangiogenesis <sup>▲</sup>
<b>E5.11.3.1.8.0.2</b>	Primordium thymi	Primordium of thymus
	<i>Neuralia et sensoria</i>	<i>Neural and senses</i>
<b>E7.0.1.13.0.0.19</b>	Phasis zonarum duarum differentiationis epithelii tubi neuralis	Two-zone phase of differentiation of neural tube epithelium
<b>E4.0.3.1.0.0.1</b>	Complexus cristae neuralis nasalis <sup>92</sup>	Nasal neural crest complex
<b>E5.15.1.0.2.0.2</b>	Complexus cristae neuralis olfactoriae	Olfactory neural crest complex
<b>E5.15.1.0.2.0.3</b>	Complexus cristae neuralis terminalis	Terminal neural crest complex
<b>E5.15.1.0.2.0.4</b>	Complexus cristae neuralis vomeronasalis	Vomeronasal neural crest complex
<b>E4.0.3.3.2.0.1</b>	Crista neuralis isthmica <sup>96</sup>	Isthmic neural crest
<b>E5.14.3.3.1.1.2</b>	Nucleus nervi oculomotorii	Nucleus of oculomotor nerve
<b>E5.14.3.1.7.1.3</b>	Nucleus nervi trochlearis	Nucleus of trochlear nerve
<b>E7.0.1.13.0.0.20</b>	Primordia gangliorum spinalium	Primordia of spinal ganglia
<b>E7.0.1.13.0.0.21</b>	Ganglion trigeminale conspicuum	Conspicuous trigeminal ganglion
<b>E7.0.1.13.0.0.22</b>	Radices motoriae nervorum trigemini abducentis glossopharyngei vagi accessorique	Motor roots of trigeminal, abducent, glossopharyngeal, vagus and accessory nerves
<b>E7.0.1.13.0.0.23</b>	Radices ventrales cervicales; Radices anteriores cervicales; Radices motoriae cervicales <sup>393</sup>	Cervical ventral roots; Cervical anterior roots; Cervical motor roots
<b>E7.0.1.13.0.0.24</b>	Radices dorsales cervicales; Radices posteriores cervicales <sup>393</sup>	Cervical dorsal roots; Cervical posterior roots
<b>E5.16.3.1.0.0.13</b>	Placoda lentis; Discus lentis <sup>394</sup>	Lens placode; Lens disc
<b>E5.16.3.1.0.0.4</b>	Discus retinalis	Retinal disc

<sup>393</sup> E7.0.1.13.0.0.23/ E7.0.1.13.0.0.24 *Radices ventrales cervicales; Radices anteriores cervicales; Radices motoriae cervicales/ Radices dorsales rostrales; Radices posteriores rostrales* The usage here is not in accord with Terminologia Anatomica 1998: *dorsal* and *ventral* for nerve roots are now very commonly used and *sensory* is not recommended, as there is evidence for motor autonomic outflow through dorsal roots.

<sup>394</sup> E5.16.3.1.0.0.13 *Placoda lentis; Discus lentis* The *lens placode* is like other placodes in that it is a localized ectodermal thickening on the surface of the head or neck in embryonic life. It is unlike other placodes in that it is not a neural placode and thus some prefer the term lens disc.

<b>E7.0.1.13.0.0.25</b>	Pedunculus opticus primordialis	Primordial optic stalk
<b>E5.15.1.0.0.0.4</b>	Vesicula otica	Otic vesicle; Otocyst
<b>E2.0.1.2.0.0.45</b>	<b>EMBRYO GRADUS XIV[St.14]<sup>395</sup></b>	<b>STAGE 14 EMBRYO [St.14]</b> ~33 days 5-7mm GL
	<i>Generalia</i>	<i>General</i>
<b>E5.0.2.2.2.0.17</b>	Pars rostralis sclerotomi; Pars laxa sclerotomi	Rostral part of sclerotome; Loose part of sclerotome
<b>E5.0.2.2.2.0.22</b>	Pars caudalis sclerotomi; Pars densa sclerotomi	Caudal part of sclerotome; Dense part of sclerotome
<b>E5.0.2.2.2.0.24</b>	Pars rostralis vaginae notochordalis; Pars laxa vaginae notochordalis	Rostral part of notochordal sheath; Loose part of notochordal sheath
<b>E5.0.2.2.2.0.26</b>	Pars caudalis vaginae notochordalis; Pars densa vaginae notochordalis	Caudal part of notochordal sheath; Dense part of notochordal sheath
<b>E7.0.1.14.0.0.1</b>	Crista ectodermalis apicalis membri superioris	Apical ectodermal ridge of upper limb
<b>E7.0.1.14.0.0.2</b>	Blastema skeletale humeri proximalis	Skeletal blastema of proximal humerus
<b>E7.0.1.14.0.0.3</b>	Blastema skeletale cranii; Desmocranium	Skeletal blastema of cranium
	<i>Alimentaria</i>	<i>Alimentary</i>
<b>E5.4.4.0.0.0.1</b>	Oesophagus	Oesophagus <sup>▲</sup>
<b>E7.0.1.14.0.0.4</b>	Sinistropositio gastris primordialis	Sinistroposition of primordial stomach
<b>E7.0.1.14.0.0.5</b>	Rotatio gastris primordialis	Rotation of primordial stomach
<b>E5.4.7.0.0.0.1</b>	Ansa umbilicalis intestini	Midgut loop; Umbilical intestinal loop
<b>E5.4.10.0.0.0.5</b>	Tuberculum anale	Anal tubercle
	<i>Respiratoria</i>	<i>Respiratory</i>
<b>E5.5.3.0.1.0.8</b>	Tuber arytenoideum	Arytenoid swelling
<b>E5.5.3.0.1.0.10</b>	Lamina epithelialis laryngis	Epithelial lamina of larynx
<b>E7.0.1.14.0.0.6</b>	Sacci pulmonales dexter et sinister	Right and left lung sacs
	<i>Urogenitalia</i>	<i>Urogenital</i>
<b>E7.0.1.14.0.0.7</b>	(Glomeruli externi) <sup>179</sup>	(External glomeruli)
<b>E7.0.1.14.0.0.8</b>	Cellulae reninopositivae in mesonephro	Renin cells in mesonephros
<b>E5.6.3.1.0.0.2</b>	Gemma ureterica; Diverticulum metanephricum	Ureteric bud; Metanephric diverticulum
<b>E5.6.3.2.0.0.4</b>	Galea metanephrogenica	Metanephrogenic cap
<b>E7.0.1.14.0.0.9</b>	Ampulla singularis gemmae metanephricae in galea metanephrogenica	Single ampulla of ureteric bud in metanephrogenic cap
<b>E5.7.1.0.0.0.5</b>	Crista gonadalis	Gonadal ridge
<b>E5.7.1.0.0.0.3</b>	Translatio cellularum germinalium praecursorium; Migratio cellularum germinalium praecursorium <sup>189</sup>	Positional change of primordial germ cells; Migration of primordial germ cells
	<i>Endocrina</i>	<i>Endocrine</i>
<b>E5.10.1.1.0.0.5</b>	Truncus sacci adenohipophysialis patens <sup>112</sup>	Open stem of adenohipophysial pouch
<b>E5.4.2.0.0.1.22</b>	Ductus thyroglossus	Thyroglossal duct §His§
<b>E7.0.1.14.0.0.10</b>	Glandula thyroidea bilobata	Bilobed thyroid gland
<b>E5.4.2.0.0.1.19</b>	Gemma parathyroidea superior; Gemma parathyroidea a quarto sacco	Superior parathyroid bud; Parathyroid bud from pouch 4
	<i>Cardiovascularia</i>	<i>Cardiovascular</i>
<b>E7.0.1.14.0.0.11</b>	Mesenchyma cardiacum	Cardiac mesenchyme
<b>E5.11.1.3.2.0.12</b>	Tuber endocardiacum atrioventriculare	Atrioventricular endocardial cushion
<b>E4.0.3.5.0.3.11</b>	Crista endocardiaca septalis; Tuber endocardiacum septale	Septal ridge; Septal cushion; Parietal cushion
<b>E7.0.1.14.0.0.12</b>	Defectio arteriarum arcuum pharyngeorum primi et secundi [1 ad 2] <sup>223</sup>	Disappearance of first and second pharyngeal arch arteries [1-2]
<b>E7.0.1.14.0.0.13</b>	Septum transversum in plano cervicale medio	Septum transversum at mid-cervical level
<b>E5.11.2.1.2.0.13</b>	A. sexti arcus pharyngei [6]; Arcus pulmonalis <sup>223</sup>	Sixth pharyngeal arch artery [6]; Sixth aortic arch [6]; Pulmonary arch
<b>E5.11.2.1.2.0.15</b>	A. pulmonalis	Pulmonary artery
	<i>Haematolymphoidea</i>	<i>Haematolymphoid</i> <sup>▲</sup>
<b>E7.0.1.6.2.0.6</b>	Haemangiogenesis vesiculae umbilicalis; Haemangiogenesis sacci vitellini	Umbilical vesicle haemangiogenesis <sup>▲</sup> ; Yolk sac haemangiogenesis <sup>▲</sup>
<b>E7.0.1.14.0.0.14</b>	Primordium splenis	Primordium of spleen
	<i>Neuralia et sensoria</i>	<i>Neural and senses</i>
<b>E7.0.1.14.0.0.15</b>	Ganglion terminale	Terminal ganglion
<b>E5.16.1.1.0.0.1</b>	Organum vomeronasale	Vomer nasal organ

<sup>395</sup> E2.0.1.2.0.0.45 Embryo gradus XIV [St.14] Embryos of Carnegie Stage 14, which exhibit these features, are generally 5-7mm in length and about 33 days old.

<b>E7.0.1.14.0.0.16</b>	Primordium hemispheri cerebri	Primordium of cerebral hemisphere
<b>E7.0.1.14.0.0.17</b>	Eminentia medialis corpori striato	Medial eminence for corpus striatum
<b>E7.0.1.14.0.0.18</b>	Neuromerus rostralis parencephalicus [Par r]	Rostral parencephalic neuromere [Par r]
<b>E7.0.1.14.0.0.19</b>	Neuromerus caudalis parencephalicus [Par c]	Caudal parencephalic neuromere [Par c]
<b>E7.0.1.14.0.0.20</b>	Neuromerus synencephalicus [Syn]	Synencephalic neuromere [Syn]
<b>E7.0.1.14.0.0.21</b>	Primordium cerebelli	Primordium of cerebellum
<b>E5.14.3.1.5.0.9</b>	Flexura pontina; Sulcus transversus rhombencephali	Pontine flexure; Transverse rhombencephalic sulcus
<b>E7.0.1.14.0.0.22</b>	Crista neuralis terminovomeronasalis apposita ad encephalon	Terminovomeronasal nasal crest apposed to brain
<b>E7.0.1.14.0.0.23</b>	N. oculomotorius [III]	Oculomotor nerve [III]
<b>E7.0.1.14.0.0.24</b>	Radices nervi hypoglossi conjunctae	Hypoglossal nerve roots united
<b>E7.0.1.14.0.0.25</b>	Innervatio incipiens gemmae membri superioris	Incipient innervation of upper limb bud
<b>E7.0.1.14.0.0.26</b>	Terminatio nervorum motoriorum in primordiis musculorum	Termination of motor nerves in muscle primordia
<b>E7.0.1.14.0.0.27</b>	Rr. communicantes	Rami communicantes
<b>E5.16.3.1.0.0.14</b>	Fovea lentis	Lens pit
<b>E5.14.3.4.2.2.7</b>	Cupula optica	Optic cup
<b>E7.0.1.13.0.0.25</b>	Pedunculus opticus primordialis	Primordial optic stalk
<b>E5.14.3.4.2.2.15</b>	Fissura optica; Fissura retinae <sup>281</sup>	Retinal fissure; Optic fissure
<b>E5.0.2.1.4.1.4</b>	Capsula otica	Otic capsule
<b>E7.0.1.14.0.0.28</b>	Diverticulum endolymphaticum; Appendiculum endolymphaticum	Endolymphatic diverticulum; Endolymphatic appendage
<b>E7.0.1.14.0.0.29</b>	Primordium ductus cochlearis	Primordium of cochlear duct
<b>E2.0.1.2.0.0.46</b>	<b>EMBRYO GRADUS XV [ST.15]<sup>396</sup></b>	<b>STAGE 15 EMBRYO [ST.15]</b> ~36 days 7-9mm
	<i>Generalia</i>	<i>General</i>
<b>E7.0.1.15.0.0.1</b>	Differentiatio vaginae notochordalis cellularis	Differentiation of cellular notochordal sheath
<b>E5.0.2.2.3.0.3</b>	Blastema arcus neuralis	Blastema of neural arch
<b>E7.0.1.15.0.0.2</b>	Blastema costale	Blastema of rib
<b>E5.0.2.2.2.0.29</b>	Blastema centri vertebrae	Blastema of centrum of vertebra
<b>E7.0.1.15.0.0.3</b>	Junctio sclerotomorum occipitalium quatuor	Four occipital sclerotomes fusing
<b>E7.0.1.15.0.0.4</b>	Blastemata skeletalia scapulae, humeri, radii, ulnae, carpi, manus, acetabuli et femoris proximalis	Skeletal blastemas of scapula, humerus, radius, ulna, carpus, hand, acetabulum and proximal femur
<b>E7.0.1.15.0.0.5</b>	Lamina manus	Hand plate
<b>E7.0.1.15.0.0.6</b>	Crista ectodermalis apicalis membri inferioris; Crista marginalis membri inferioris	Apical ectodermal ridge of lower limb; Marginal ridge of lower limb
	<i>Alimentaria</i>	<i>Alimentary</i>
<b>E7.0.1.15.0.0.7</b>	Stratum circulare tunicae muscularis oesophagi	Circular muscle layer of oesophagus <sup>▲</sup>
<b>E7.0.1.15.0.0.8</b>	Descensus cardiae gastris primordialis	Descent of primordial cardia of stomach
<b>E7.0.1.15.0.0.9</b>	Elongatio muri sinistri gastris primordialis	Elongation of left wall of primordial stomach
<b>E7.0.1.15.0.0.10</b>	(Interruptio luminis duodenalis)	(Duodenal lumen interrupted)
<b>E5.4.9.0.1.0.6</b>	Bulla caecalis	Caecal swelling <sup>▲</sup>
<b>E5.4.14.0.0.0.3</b>	Vesica biliaris; Vesica fellea	Gallbladder
<b>E5.4.13.0.0.0.1</b>	Ductus choledochus; Ductus biliaris	Bile duct
<b>E5.8.0.0.5.0.27</b>	Foramen omentale; Foramen epiploicum	Omental foramen; Epiploic foramen
	<i>Respiratoria</i>	<i>Respiratory</i>
<b>E5.3.0.0.0.0.9</b>	Fovea nasalis	Nasal pit
<b>E5.3.0.0.0.0.12</b>	Prominentia nasalis lateralis	Lateral nasal prominence
<b>E5.3.0.0.0.0.11</b>	Prominentia nasalis medialis	Medial nasal prominence
<b>E5.5.3.0.1.0.35</b>	Gemmae bronchiales secundariae; Gemmae loborum pulmonalium	Secondary bronchial buds; Pulmonary lobar buds
	<i>Urogenitalia</i>	<i>Urogenital</i>
<b>E7.0.1.15.0.0.11</b>	Metanephros in pelve praesumptiva	Metanephros in presumptive pelvis
<b>E7.0.1.15.0.0.12</b>	Ramificatio ampullae uretericae in blastemate metanephrogenico incipiens	Incipient branching of ureteric ampulla in metanephrogenic blastema
<b>E7.0.1.15.0.0.13</b>	Formatio ampullarum uretericarum superioris et inferioris	Formation of superior and inferior ureteric ampullae
<b>E5.7.3.0.3.0.1</b>	Sinus urogenitalis primordialis	Primordial urogenital sinus

<sup>396</sup> E2.0.1.2.0.0.46 Embryo gradus XV [St.15] Embryos of Carnegie Stage 15, which exhibit these features, are generally 7-9mm in length and about 36 days old.

	<i>Cardiovascularia</i>	<i>Cardiovascular</i>
<b>E5.11.1.5.1.1.2</b>	Foramen secundum	Foramen secundum
<b>E5.11.2.1.3.2.22</b>	A. vertebralis	Vertebral artery
<b>E5.11.2.1.3.2.24</b>	A. basilaris	Basilar artery
	<i>Haematolymphoidea</i>	<i>Haematolymphoid</i> <sup>▲</sup>
<b>E7.0.1.6.2.0.6</b>	Haemangiogenesis vesiculae umbilicalis; Haemangiogenesis sacci vitellini	Umbilical vesicle haemangiogenesis <sup>▲</sup> ; Yolk sac haemangiogenesis <sup>▲</sup>
	<i>Endocrina</i>	<i>Endocrine</i>
<b>E5.10.2.0.0.0.2</b>	Primordium glandulae pinealis	Primordium of pineal gland
<b>E5.10.5.1.0.0.2</b>	Primordium corticis glandulae suprarenalis	Primordium of cortex of suprarenal gland
<b>E5.10.5.2.0.0.2</b>	Primordium medullae glandulae suprarenalis	Primordium of medulla of suprarenal gland
	<i>Neuralia et sensoria</i>	<i>Neural and senses</i>
<b>E7.0.1.15.0.0.14</b>	Complexus cristae neuralis olfactoriae apud telencephalon	Olfactory neural crest complex at telencephalon
<b>E7.0.1.15.0.0.15</b>	Fibrae nervi olfactorii apud bulbum olfactorium	Olfactory nerve fibres at primordial olfactory bulb
<b>E7.0.1.15.0.0.16</b>	Densatio hippocampalis	Hippocampal thickening
<b>E7.0.1.15.0.0.17</b>	Eminentia lateralis corpori striato	Lateral eminence for corpus striatum
<b>E7.0.1.15.0.0.18</b>	N. abducens [VI]	Abducent nerve; Abducent nerve [VI]
<b>E7.0.1.15.0.0.19</b>	Primordia gangliorum geniculi et vestibulocochlearis disjuncta	Primordia of geniculate and vestibulocochlear ganglia separating
<b>E7.0.1.15.0.0.20</b>	Ganglion geniculi; Ganglion geniculatum	Geniculate ganglion
<b>E5.16.4.0.3.0.40</b>	Ganglion vestibulocochleare	Vestibulocochlear ganglion
<b>E7.0.1.15.0.0.21</b>	Innervatio incipiens gemmae membri inferioris	Incipient innervation of lower limb bud
<b>E7.0.1.15.0.0.22</b>	Primordium trunci sympathici cervicalis	Primordium of cervical sympathetic trunk
<b>E5.16.3.1.4.0.6</b>	Corpus vitreum primarium	Primary vitreous body
<b>E7.0.1.15.0.0.23</b>	Pigmentatio laminae externae cupulae opticae	Pigmentation of external optic cup layer
<b>E5.16.3.1.0.0.15</b>	Vesicula lentis	Lens vesicle
<b>E7.0.1.15.0.0.24</b>	Colliculi aurales	Auricular hillocks
<b>E2.0.1.2.0.0.47</b>	<b>EMBRYO GRADUS XVI [ST.16]</b> <sup>397</sup>	<b>STAGE 16 EMBRYO [ST.16]</b> ~38 days 8- 11mm GL
	<i>Generalia</i> <sup>398</sup>	<i>General</i>
<b>E7.0.1.16.0.0.1</b>	Motus levissime perceptibiles <sup>399</sup>	Movements just discernible
<b>E5.3.0.0.0.0.6</b>	Prominentia frontonasalis	Frontonasal prominence
<b>E5.3.0.0.0.0.19</b>	Sulcus nasomaxillaris	Nasomaxillary groove
<b>E5.3.0.0.0.0.20</b>	Sulcus nasolacrimalis; Sulcus lacrimalis <sup>307</sup>	Nasolacrimal groove; Lacrimal groove
<b>E5.16.3.2.0.0.10</b>	Lamina lacrimalis <sup>308</sup>	Lacrimal lamina
<b>E5.15.8.0.0.0.24</b>	Plexus lumbosacralis	Lumbosacral plexus
<b>E7.0.1.16.0.0.2</b>	Lamina pedis	Foot plate
<b>E7.0.1.16.0.0.3</b>	Chondrificatio humeri	Chondrifying humerus
<b>E7.0.1.16.0.0.4</b>	Ingressio nervorum in laminam manus	Entry of nerves into hand plate
<b>E7.0.1.16.0.0.5</b>	Directura partis caudalis embryonis	Straightening of caudal part of embryo
<b>E5.5.3.0.1.0.13</b>	Condensatio mesenchymalis ossis hyoidei	Mesenchymal condensation of hyoid bone
	<i>Alimentaria</i>	<i>Alimentary</i>
<b>E7.0.1.16.0.0.6</b>	Junctio prominentiarum palatarum primarium	Joining of primary palatal prominences
<b>E5.4.1.1.1.2.2</b>	Primordium organi juxtaoralis	Primordium of juxta-oral organ §Chievitz§
<b>E7.0.1.16.0.0.7</b>	Formatio curvaturae majoris	Formation of greater curvature
<b>E7.0.1.16.0.0.8</b>	Formatio fundi gastris	Formation of fundus of stomach
<b>E7.0.1.16.0.0.9</b>	Formatio curvaturae minoris	Formation of lesser curvature
<b>E7.0.1.16.0.0.10</b>	Incisura angularis	Angular incisure

<sup>397</sup> E2.0.1.2.0.0.47 *Embryo gradus XVI [St.16]* Embryos of Carnegie Stage 16, which exhibit these features, are generally 8-11mm in length and about 38 days old.

<sup>398</sup> *Generalia* From Stage 16 onwards the list of *General features* begins with movements: either spontaneous movements (motus) observed using real-time ultrasound or responses (reflexus) elicited from aborted embryos/foetuses. The Stages at which these items first appear are derived from the menstrual ages of the original data. Movements appear in an orderly sequence and the last appearing movements are repeated in the Stages until the next movement in the sequence appears.

<sup>399</sup> E7.0.1.16.0.0.1 *Motus levissime perceptibiles* "A slow and small shifting of the [embryonic] contours is seen lasting from half a second to two seconds, which usually occurs as a single event" (de Vries JIP, Visser GHA, Prechtel HFR, The emergence of fetal behaviour. I. Quantitative aspects. Early Human Development 1982;7:301-322). The state of the Stage 16 embryo and animal evidence (Harris JE. Early embryonic movements. J Obstet Gynaecol Br Emp 1962;69:818-821) suggest that these early movements may be myogenic and that conduction of contractions is along the myotomes themselves. This type of movement disappears after a period of less than 2 weeks whereas subsequent types persist, some until full term.

<b>E7.0.1.16.0.0.11</b>	Translatio cranialiter duodeni aboralis et flexurae duodenojejunalis	Cranial relocation of distal duodenum and duodenojejunal flexure
<b>E7.0.1.16.0.0.12</b>	Stratum circulare tunicae muscularis duodeni	Circular muscle layer of duodenum
<b>E7.0.1.15.0.0.10</b>	(Interruptio luminis duodenalis)	(Duodenal lumen interrupted)
<b>E7.0.1.16.0.0.13</b>	Canaliculi biliferi laminae hepatis	Bile canaliculi of hepatic plate
<b>E5.4.7.0.0.0.11</b>	Hernia umbilicalis physiologica	Physiological umbilical hernia
	<i>Respiratoria</i>	<i>Respiratory</i>
<b>E5.5.1.0.0.0.2</b>	Saccus nasalis	Nasal sac
<b>E5.3.0.0.0.0.10</b>	Pinna nasalis	Nasal fin
<b>E5.5.3.0.1.0.12</b>	Condensatio mesenchymalis epiglottidis	Mesenchymal condensation of epiglottis
<b>E5.5.3.0.1.0.14</b>	Condensatio mesenchymalis cartilaginis cricoideae	Mesenchymal condensation of cricoid cartilage
	<i>Urogenitalia</i>	<i>Urogenital</i>
<b>E7.0.1.16.0.0.14</b>	Metanephros in regione lumbale inferiore	Metanephros in lower lumbar region
<b>E7.0.1.16.0.0.15</b>	Incrementum metanephri	Metanephros enlarging
<b>E7.0.1.16.0.0.16</b>	Bifurcatio aliarum ampullarum uretericarum in blastemati metanephrogenico	Further bifurcation of ureteric ampullae in metanephrogenic blastema
<b>E7.0.1.16.0.0.17</b>	Formatio ductuum uretericorum polarium et lobulorum renalium	Formation of ureteric polar ducts and renal lobules
<b>E7.0.1.16.0.0.18</b>	Coalescentia ductuum polarium formantium propelves	Coalescence of polar ducts to form propelves
<b>E7.0.1.16.0.0.19</b>	Primordium pelvis renalis	Primordium of renal pelvis
<b>E7.0.1.16.0.0.20</b>	Invaginatio epithelii coelomici	Invagination of coelomic epithelium <sup>▲</sup>
<b>E7.0.1.16.0.0.21</b>	Ductus paramesonephricus primordialis	Primordial paramesonephric duct
	<i>Endocrina</i>	<i>Endocrine</i>
<b>E7.0.1.16.0.0.22</b>	Resorptio ductus thyroglossi	Resorption of thyroglossal duct
<b>E5.4.2.0.0.1.12</b>	Gemma parathyroidea inferior; Gemma parathyroidea sacci tertii	Inferior parathyroid bud; Parathyroid bud from pouch 3
<b>E7.0.1.16.0.0.23</b>	Chordae parathyroideae	Parathyroid cords
<b>E7.0.1.16.0.0.24</b>	Parathyrocyti endocrini lucidi	Pale principal parathyroid cells
<b>E7.0.1.16.0.0.25</b>	Incrementum prominens glandulae suprarenalis	Prominent increase in size of suprarenal gland
<b>E5.10.5.1.0.0.5</b>	Cortex suprarenalis temporarius <sup>216</sup>	Provisional suprarenal cortex; X zone
<b>E7.0.1.16.0.0.26</b>	Evaginatio neurohypophysis	Neurohypophysial evagination
<b>E5.10.1.2.0.0.3</b>	Recessus infundibularis	Infundibular recess
	<i>Cardiovascularia</i>	<i>Cardiovascular</i>
<b>E7.0.1.16.0.0.27</b>	Valvula semilunaris	Semilunar valve
<b>E7.0.1.16.0.0.28</b>	Occlusio foraminis primi cordis	Closure of foramen primum of heart
<b>E7.0.1.16.0.0.29</b>	A. cerebri posterior	Posterior cerebral artery
<b>E7.0.1.16.0.0.30</b>	A. subclavia	Subclavian artery
	<i>Haematolymphoidea</i>	<i>Haematolymphoid</i> <sup>▲</sup>
<b>E7.0.1.6.2.0.6</b>	Haemangiogenesis vesiculae umbilicalis; Haemangiogenesis sacci vitellini	Umbilical vesicle haemangiogenesis <sup>▲</sup> ; Yolk sac haemangiogenesis <sup>▲</sup>
	<i>Neuralia et sensoria</i>	<i>Neural and senses</i>
<b>E7.0.1.16.0.0.31</b>	Neurofibrae nervorum olfactoriorum appositae ad bulbum olfactorium	Olfactory nerve fibres at olfactory bulb <sup>▲</sup>
<b>E7.0.1.16.0.0.32</b>	N. trochlearis [IV]	Trochlear nerve [IV]
<b>E7.0.1.16.0.0.33</b>	Truncus sympathicus compactus	Compact sympathetic trunk
<b>E5.14.3.4.2.2.6</b>	Pedunculus opticus	Optic stalk
<b>E7.0.1.16.0.0.34</b>	Densatio utriculosaccularis	Utriculosaccular thickening
<b>E2.0.1.2.0.0.48</b>	<b>EMBRYO GRADUS XVII [ST.17]<sup>400</sup></b>	<b>STAGE 17 EMBRYO [ST.17]</b> ~41 days 11-14mm GL
	<i>Generalia</i>	<i>General</i>
<b>E7.0.1.17.0.0.1</b>	Motus tremefactionis <sup>401</sup>	Startle
<b>E7.0.1.17.0.0.2</b>	Colliculi auriculares sex	Six auricular hillocks
<b>E7.0.1.17.0.0.3</b>	Radii manus <sup>402</sup>	Hand rays

<sup>400</sup> E2.0.1.2.0.0.48 *Embryo gradus XVII [St.17]* Embryos of Carnegie Stage 17, which exhibit these features, are generally 11-14mm in length and about 41 days old.

<sup>401</sup> E7.0.1.17.0.0.1 *Motus tremefactionis* "A *startle* is a quick generalized movement, always initiated in the limbs and sometimes spreading to neck and trunk.... lasts about one second." (de Vries JIP, Visser GHA, Prechtl HFR, The emergence of fetal behaviour. I. Quantitative aspects. Early Human Development 1982;7:301-322).

<sup>402</sup> E7.0.1.17.0.0.3 *Radii manus* The five rays that form in the hand plate are appropriately named *hand rays* rather than digital rays because they give rise to the metacarpals as well as to the phalanges.

<b>E7.0.1.17.0.0.4</b>	Regressio partis non vertebratae eminentiae caudalis; Regressio partis non vertebratae gemmae caudalis <sup>403</sup>	Non-vertebrated part of caudal eminence regressing; Non-vertebrated part of tailbud regressing
<b>E7.0.1.17.0.0.5</b>	Chondrificatio partis basilaris ossis occipitalis	Basi-occiput chondrifying
<b>E7.0.1.17.0.0.6</b>	Chondrificatio centrorum vertebrarum	Vertebral centra chondrifying
<b>E7.0.1.17.0.0.7</b>	Costae membranaceae	Membranous ribs
<b>E7.0.1.17.0.0.8</b>	Blastemata skeletalia claviculae, manus, coxae, femoris, tibiae, fibulae et pedis	Skeletal blastema of clavicle, hand, hip bone, femur, tibia, fibula and foot
<b>E7.0.1.17.0.0.9</b>	Centra cartilaginea scapulae, radii, ulnae, coxae, femoris, tibiae et fibulae	Chondrification centres for scapula, radius, ulna, hip bone, femur, tibia and fibula <sup>▲</sup>
	<i>Alimentaria</i>	<i>Alimentary</i>
<b>E7.0.1.17.0.0.10</b>	Invaginatio primordii organi juxtaoralis	Invagination of primordium of juxta-oral organ §Chievitz§
<b>E5.4.1.1.4.0.3</b>	Palatum primarium; Processus palatinus medianus <sup>404</sup>	Primary palate; Median palatal process
<b>E5.4.1.1.4.0.6</b>	Processus palatinus secundarius; Processus palatinus lateralis	Lateral palatine process; Palatal shelf
<b>E7.0.1.17.0.0.11</b>	Primordia vestibuli oris	Primordia of oral vestibule; Primary epithelial band
<b>E7.0.1.17.0.0.12</b>	Epithelium stratificatum columnare oesophagi	Stratified columnar epithelium of oesophagus <sup>▲</sup>
<b>E7.0.1.17.0.0.13</b>	Vacuola epitheliorum	Epithelial vacuoles
<b>E7.0.1.15.0.0.7</b>	Stratum circulare tunicae muscularis oesophagi	Circular muscle layer of oesophagus <sup>▲</sup>
<b>E7.0.1.17.0.0.14</b>	Stratum circulare tunicae muscularis gastris	Circular muscle layer of stomach
<b>E7.0.1.17.0.0.15</b>	Positio horizontalis gastris primordialis	Transverse position of primordial stomach
<b>E7.0.1.17.0.0.16</b>	Areae gastricae	Gastric regions
<b>E7.0.1.17.0.0.17</b>	Foveolae gastricae	Gastric pits
<b>E7.0.1.17.0.0.18</b>	Plexus nervosus myentericus gastris	Myenteric plexus of stomach §Auerbach§
<b>E7.0.1.17.0.0.19</b>	Gemma cryptae intestini tenuis	Crypt bud of small intestine
<b>E7.0.1.17.0.0.20</b>	Plexus nervosus myentericus intestini tenuis	Myenteric plexus of small intestine §Auerbach§
<b>E7.0.1.17.0.0.21</b>	Occlusio luminis duodenalis	Duodenal lumen occluded
<b>E7.0.1.17.0.0.22</b>	Junctio pancreatum dorsalis et ventralis	Dorsal and ventral pancreas fused
<b>E7.0.1.17.0.0.23</b>	Primordium appendicis; Primordium appendicis vermiformis	Primordium of appendix; Primordium of vermiform appendix
	<i>Respiratoria</i>	<i>Respiratory</i>
<b>E5.5.3.0.1.0.36</b>	Gemmae bronchiales tertiariae; Gemmae segmentorum bronchopulmonalium	Tertiary bronchopulmonary buds; Bronchopulmonary segmental buds
	<i>Urogenitalia</i> <sup>405</sup>	<i>Urogenital</i>
<b>E7.0.1.17.0.0.24</b>	Bifurcatio ductuum uretericorum in blastemate metanephrogenico	Bifurcation of ureteric polar ducts in metanephrogenic blastema
<b>E7.0.1.17.0.0.25</b>	Formatio uretericarum propelvium et renalium ductuum lobulorumque	Formation of ureteric propelves, ducts and renal lobules
<b>E7.0.1.17.0.0.26</b>	Coalescentia propelvium formans calyces majores	Coalescence of propelves to form major calyces
<b>E7.0.1.17.0.0.27</b>	Primordia calycum renalium	Primordia of renal calyces
<b>E7.0.1.17.0.0.28</b>	Chordae gonadales	Gonadal cords
<b>E7.0.1.17.0.0.29</b>	Extensio caudaliter ductuum paramesonephricorum contra ductum mesonephricum	Extension of paramesonephric ducts caudally to juxtapose with mesonephric duct
<b>E5.7.3.0.3.0.2</b>	Canalis vesicourethralis	Vesico-urethral canal
<b>E5.7.3.1.0.0.1</b>	Sinus urogenitalis definitivus	Definitive urogenital sinus
	<i>Endocrina</i>	<i>Endocrine</i>

<sup>403</sup> E7.0.1.17.0.0.4 *Regressio partis non vertebratae eminentiae caudalis; Regressio partis non vertebratae gemmae caudalis* Only the proximal part of the caudal eminence or tail bud contains paraxial mesoderm or somitic material. The distal part thus has no vertebral elements and some say that to call it a tail is inappropriate.

<sup>404</sup> E5.4.1.1.4.0.3 *Palatum primarium; Processus palatinus medianus* The *median palatal process* is located in and adjacent to the midline and is the conjoined, lower (caudal) part of the medial nasal prominences. It is sometimes referred to as the intermaxillary segment because of its location between the maxillary prominences and rostral to the presumptive incisive canal. The incisor tooth buds form in the region. Historically, the region has been called the premaxilla but this usage is not recommended because of possible confusion with the premaxilla of the maxillary bone.

<sup>405</sup> *Urogenitalia* The mesonephros produces urine in Stage 17.

<b>E7.0.1.17.0.0.30</b>	Associatio corporis ultimopharyngei cum glandula thyroidea	Ultimopharyngeal body associates with thyroid gland
<b>E5.10.3.0.0.0.5</b>	Pars lateralis primordii thyroidei	Lateral thyroid component
<b>E7.0.1.17.0.0.31</b>	Associatio glandulae parathyroideae superioris cum glandula thyroidea	Superior parathyroid associated with thyroid gland; Parathyroid 4 associates with thyroid gland
<b>E7.0.1.17.0.0.32</b>	Gradus praecoloidalis glandulae thyroideae	Precolloid stage of thyroid gland
<b>E5.10.5.1.0.0.6</b>	Mesenchyma in cortice suprarenale temporaria <i>Cardiovascularia</i>	Mesenchyme in provisional suprarenal cortex <i>Cardiovascular</i>
<b>E7.0.1.17.0.0.33</b>	Conjunctio tuberum endocardiacorum atrioventricularium	Fusion of atrioventricular endocardiac cushions
<b>E7.0.1.17.0.0.34</b>	Septum transversum in plano thoracico medio	Septum transversum at mid- thoracic level
<b>E7.0.1.17.0.0.35</b>	Aa. cerebri anterior et media	Anterior and middle cerebral arteries
<b>E5.11.2.1.1.0.8</b>	Truncus brachiocephalicus	Brachiocephalic trunk
<b>E5.11.2.1.1.0.12</b>	A. carotis communis sinistra	Left common carotid artery
<b>E7.0.1.17.0.0.36</b>	Defectio aortae dorsalis inter arterias arcuum pharyngeorum 3 et 4; Defectio ductus carotici	Disappearance of dorsal aorta between pharyngeal arch arteries 3 and 4; Disappearance of ductus caroticus
<b>E7.0.1.17.0.0.37</b>	Defectio partis distalis arteriae arcus pharyngei sexti dextri	Disappearance of distal part of right 6 <sup>th</sup> pharyngeal arch artery
	<i>Haematolymphoidea</i>	<i>Haematolymphoid</i> <sup>▲</sup>
<b>E7.0.1.6.2.0.6</b>	Haemangiogenesis vesiculae umbilicalis; Haemangiogenesis sacci vitellini	Umbilical vesicle haemangiogenesis <sup>▲</sup> ; Yolk sac haemangiogenesis <sup>▲</sup>
<b>E7.0.1.17.0.0.38</b>	Disjunctio primordii thymi	Detachment of thymic primordium
<b>E7.0.1.17.0.0.39</b>	Hilum primordiale splenis	Primordial hilum of spleen
	<i>Neuralia et sensoria</i>	<i>Neural and senses</i>
<b>E7.0.1.17.0.0.40</b>	Bulbus olfactorius praesumptivus	Presumptive olfactory bulb
<b>E7.0.1.17.0.0.41</b>	Ganglia ciliare pterygopalatinum et submandibulare	Ciliary, pterygopalatine and submandibular ganglia
<b>E7.0.1.17.0.0.42</b>	Ganglia geniculi et vestibulocochleare disjuncta	Geniculate and vestibulocochlear ganglia separated
<b>E7.0.1.17.0.0.43</b>	Nn. craniales 0 ad XII <sup>406</sup>	Cranial nerves 0-XII
<b>E7.0.1.17.0.0.44</b>	Occlusio cavitatis lentis	Lens cavity obliterated
<b>E7.0.1.17.0.0.45</b>	Differentiatio retinae neuralis incipiens	Differentiation of neural retina begins
<b>E7.0.1.17.0.0.46</b>	Stratum nucleare strati ventricularis cupulae opticae	Nuclear layer of ventricular layer of optic cup
<b>E7.0.1.17.0.0.47</b>	Stratum marginale initiale retinae	Initial marginal layer of retina
<b>E7.0.1.17.0.0.48</b>	Capsula otica membranacea	Membranous otic capsule
<b>E7.0.1.17.0.0.49</b>	Diverticulum utriculosacculare	Utriculosaccular diverticulum
<b>E5.4.2.0.0.1.3</b>	Recessus tubotympanicus	Tubotympanic recess
<b>E7.0.1.17.0.0.50</b>	Ossicula auditus membranacea	Membranous auditory ossicles
<b>E2.0.1.2.0.0.49</b>	<b>EMBRYO GRADUS XVIII [ST.18]</b> <sup>407</sup>	<b>STAGE 18 EMBRYO [ST.18]</b> ~44 days 13-17mm GL
	<i>Generalia</i>	<i>General</i>
<b>E7.0.1.18.0.0.1</b>	Motus contractionis corporalis generalis <sup>408</sup>	General movements
<b>E7.0.1.18.0.0.2</b>	Motus singultus <sup>409</sup>	Hiccup
<b>E7.0.1.18.0.0.3</b>	Sexus gonadalis masculinus	Evidence of male gonadal features
<b>E7.0.1.18.0.0.4</b>	Initium lordosis cervicalis	Beginning of cervical lordosis
<b>E7.0.1.18.0.0.5</b>	Initium lordosis lumbalis	Beginning of lumbar lordosis
<b>E7.0.1.18.0.0.6</b>	Regio cubitalis	Elbow region
<b>E7.0.1.18.0.0.7</b>	Lamina manus incisa	Notched hand plate
<b>E7.0.1.18.0.0.8</b>	Radii pedis <sup>410</sup>	Foot rays

<sup>406</sup> E7.0.1.17.0.0.43 *Nn. craniales [0 ad XII]* All cranial nerves, including the nervus terminalis [0], are represented in Stage 17 as fibres from the olfactory epithelium reach the presumptive olfactory bulb. The most proximal parts of the other cranial nerves developed earlier and their more peripheral parts will develop subsequently.

<sup>407</sup> E2.0.1.2.0.0.49 *Embryo gradum XVIII [St.18]* Embryos of Carnegie Stage 18, which exhibit these features, are generally 13-17mm in length and about 44 days old.

<sup>408</sup> E7.0.1.18.0.0.1 *Motus contractionis corporalis generalis* In *General movements* "the whole body is moved but no distinctive patterning or sequencing of the body parts can be recognized: initially slow and of limited amplitude, after 2 or 3 weeks they become forceful (de Vries JIP, Visser GHA, Precht HFR, The emergence of fetal behaviour. I. Quantitative aspects. Early Human Development 1982;7:301-322).

<sup>409</sup> E7.0.1.18.0.0.2 *Motus singultus* A hiccup consists of a jerky contraction of the diaphragm (de Vries JIP, Visser GHA, Precht HFR, The emergence of fetal behaviour. I. Quantitative aspects. Early Human Development 1982;7:301-322).

<b>E5.16.3.2.0.0.2</b>	Plicae palpebrales	Palpebral folds
<b>E7.0.1.18.0.0.9</b>	Apex nasi	Apex of nose; Tip of nose
<b>E7.0.1.18.0.0.10</b>	Bifurcatio apicis laminae lacrimalis	Bifurcation of tip of lacrimal lamina
<b>E7.0.1.18.0.0.11</b>	Omnia centra vertebralia praesentia	All vertebral centra present
<b>E7.0.1.18.0.0.12</b>	Omnia ganglia spinalia praesentia	All spinal ganglia present
<b>E7.0.1.18.0.0.13</b>	Initium ossificationis membranaceae corporis claviculae	Beginning of intramembranous ossification of shaft of clavicle
<b>E7.0.1.18.0.0.14</b>	Initium ossificationis membranaceae corporis mandibulae	Beginning of intramembranous ossification of body of mandible
<b>E7.0.1.18.0.0.15</b>	Initium ossificationis membranacea maxillae	Beginning of intramembranous ossification of maxilla
<b>E7.0.1.18.0.0.16</b>	Initium chondrificationis arcuum vertebraliu[m] et costarum	Beginning of chondrification of vertebral arches and ribs
<b>E7.0.1.18.0.0.17</b>	Blastemata skeletalia ossis lunati, ossis pisiformis et plurium phalangium	Skeletal blastemata of lunate, pisiform and some phalanges
<b>E7.0.1.18.0.0.18</b>	Centra chondrificationis ossium tarsalium et metatarsalium	Chondrification centres for tarsus and metatarsus <sup>▲</sup>
<b>E7.0.1.18.0.0.19</b>	Cartilagine skeletales scapulae, humeri, radii, ulnae, ossis capitati, ossis hamati, ossis scaphoidei, ossium trapezii trapezoideique, ossium metacarpalium atque aliarum phalangium, ilii, ischii, pubis, femoris, tibiae et fibulae	Skeletal cartilages of scapula, humerus, radius, ulna, capitate, hamate, scaphoid, trapezium and trapezoid, metacarpals and other phalanges, of ilium, ischium and pubis, femur, tibia and fibula
<b>E7.0.1.18.0.0.20</b>	Chondrificatio ossis hyoidei	Chondrification of hyoid bone
<b>E7.0.1.18.0.0.21</b>	Primordia muscularia	Muscle primordia
	<i>Alimentaria</i>	<i>Alimentary</i>
<b>E5.4.1.1.1.2.4</b>	Primordium organi juxtaoralis disiunctum	Detached primordium of juxta-oral organ §Chievitz§
<b>E7.0.1.18.0.0.22</b>	Taenia labiogingivalis	Labiogingival lamina; Vestibular band
<b>E5.4.1.1.1.0.3</b>	Lamina dentalis	Dental lamina
<b>E5.4.1.3.0.0.7</b>	Gemma glandulae submandibularis	Submandibular gland bud
<b>E7.0.1.18.0.0.23</b>	Formatio glandularum gastricae propriae	Formation of gastric glands proper
<b>E7.0.1.18.0.0.24</b>	Exocrinocyti parietales glandularum gastris	Parietal cells of gastric glands; Oxyntic cells
<b>E5.7.4.0.1.0.5</b>	Plica cloacalis <sup>201</sup>	Cloacal fold
<b>E5.4.10.0.0.0.7</b>	Abruptio membranae cloacalis	Rupture of cloacal membrane
	<i>Respiratoria</i>	<i>Respiratory</i>
<b>E7.0.1.18.0.0.25</b>	Primordium ductus nasolacrimalis	Primordium of nasolacrimal duct
<b>E5.5.1.0.0.0.14</b>	Sulcus vomeronasalis	Vomeronasal groove
<b>E7.0.1.18.0.0.26</b>	Primordium septi nasi	Primordium of nasal septum
<b>E5.5.1.0.0.0.9</b>	Membrana oronasalis	Oronasal membrane
<b>E5.5.1.0.0.0.10</b>	Choana primaria	Primary choana
<b>E7.0.1.18.0.0.27</b>	Gemmae bronchiales quaternariae; Gemmae bronchopulmonales subsegmentales	Quaternary bronchopulmonary buds; Bronchopulmonary subsegmental buds
	<i>Urogenitalia</i>	<i>Urogenital</i>
<b>E7.0.1.18.0.0.28</b>	Metanephros in regione lumbale superiore	Metanephros in upper lumbar region
<b>E5.6.3.1.1.0.2</b>	Occlusio luminis ureteri	Occluded ureteric lumen
<b>E7.0.1.16.0.0.16</b>	Bifurcatio aliarum ampullarum uretericarum in blastemati metanephrogenicum	Further bifurcation of ureteric ampullae in metanephrogenic blastema
<b>E7.0.1.18.0.0.29</b>	Formatio propelvium uretericarum, ductuum renalium et lobulorum renalium	Formation of ureteric propelves, renal ducts and renal lobules
<b>E7.0.1.18.0.0.30</b>	Propelvium coalescentia formans calyces minores	Coalescence of propelves to form minor calyces
<b>E7.0.1.18.0.0.31</b>	Circa triginta duas ampullas uretericas	About 32 ureteric ampullae
<b>E5.6.3.1.2.0.21</b>	Tubuli metanephrici colligentes; Ductus metanephrici colligentes	Collecting tubules of metanephros; Collecting ducts of metanephros [CD] §Bellini§
<b>E7.0.1.18.0.0.32</b>	Chordae testiculares	Testicular cords
<b>E7.0.1.18.0.0.33</b>	Elongatio ductus paramesonephrici	Elongation of paramesonephric duct
<b>E5.7.4.0.1.0.1</b>	Tuberculum phallicum; Tuberculum genitale	Phallic tubercle; Genital tubercle
	<i>Cardiovascularia</i>	<i>Cardiovascular</i>
<b>E5.11.1.5.1.1.8</b>	Plica secunda interatrialis; Septum secundum <sup>226</sup>	Secondary interatrial fold

<sup>410</sup> E7.0.1.18.0.0.8 *Radii pedis* to the phalanges.

The five rays that form in the foot plate are appropriately named *foot rays* rather than digital rays because they give rise to the metatarsals as well as



<b>E5.11.1.5.1.1.11</b>	Foramen ovale	Oval foramen §Botallo§
<b>E5.11.1.7.1.0.3</b>	M. papillaris superolateralis ventriculi sinistri; M. papillaris anterior ventriculi sinistri <sup>227</sup>	Superolateral papillary muscle of left ventricle; Anterior papillary muscle of left ventricle
<b>E5.11.1.7.1.0.4</b>	M. papillaris inferoseptalis ventriculi sinistri; M. papillaris posterior ventriculi sinistri <sup>227</sup>	Inferoseptal papillary muscle of left ventricle; Posterior papillary muscle of left ventricle
<b>E5.11.1.7.2.0.3</b>	M. papillaris anterolateralis ventriculi dextri; M. papillaris anterior <sup>227</sup>	Anterolateral papillary muscle; Anterior papillary muscle of right ventricle
	<i>Haematolymphoidea</i>	<i>Haematolymphoid</i> <sup>▲</sup>
<b>E7.0.1.6.2.0.6</b>	Haemangiogenesis vesiculae umbilicalis; Haemangiogenesis sacci vitellini	Umbilical vesicle haemangiogenesis <sup>▲</sup> ; Yolk sac haemangiogenesis <sup>▲</sup>
<b>E7.0.1.18.0.0.34</b>	Invasio vasorum sanguineorum in primordium splenis	Invasion of splenic primordium by blood vessels
	<i>Neuralia et sensoria</i>	<i>Neural and senses</i>
<b>E7.0.1.18.0.0.35</b>	Phasis zonarum trium differentiationis epithelii tubi neuralis	Three-zone phase of differentiation of neural tube epithelium
<b>E5.14.3.1.0.0.3</b>	Fissura choroidea	Choroid fissure
<b>E7.0.1.18.0.0.36</b>	Plexus choroideus villosus ventriculi lateralis	Villous choroid plexus of lateral ventricle
<b>E7.0.1.18.0.0.37</b>	Occlusio fissurae retinalis; Occlusio fissurae opticae	Closure of retinal fissure; Closure of optic fissure
<b>E5.16.3.1.4.0.9</b>	Canalis hyaloideus	Hyaloid canal
<b>E7.0.1.18.0.0.38</b>	Conjunctio colliculorum auricularium	Fusion of auricular hillocks
<b>E5.16.4.0.2.0.16</b>	Stapes	Stapes
<b>E5.16.4.0.2.0.17</b>	M. stapedius	Stapedius
<b>E5.16.4.0.3.0.10</b>	Ductus semicirculares auris internae	Semicircular ducts of internal ear
<b>E2.0.1.2.0.0.50</b>	<b>EMBRYO GRADUS XIX [ST.19]<sup>411</sup></b>	<b>STAGE 19 EMBRYO [ST.19]</b> ~46 days 16-18mm GL 10-16.5 developmental points
	<i>Generalia</i>	<i>General</i>
<b>E7.0.1.18.0.0.1</b>	Motus contractionis corporalis generalis <sup>408</sup>	General movements
<b>E7.0.1.18.0.0.2</b>	Motus singultus <sup>409</sup>	Hiccup
<b>E7.0.1.19.0.0.1</b>	Cartilagine arcuum pharyngeorum primi, secundi et tertii; Cartilagine arcuum mandibularis, hyoidei et tertii	Cartilages of first, second and third pharyngeal arches; Cartilages of mandibular, hyoid and third arches
<b>E7.0.1.19.0.0.2</b>	Chorda lacrimalis et primordium canaliculorum	Lacrimal cord and primordium of canaliculi
<b>E7.0.1.19.0.0.3</b>	Lamina meatus nasalis inferioris	Lamina of inferior nasal meatus
<b>E7.0.1.19.0.0.4</b>	Centrum ossificationis primarium femoris	Primary ossification centre of femur <sup>▲</sup>
<b>E7.0.1.19.0.0.5</b>	Ossificatio mandibulae	Ossification of mandible
<b>E7.0.1.19.0.0.6</b>	Chondrificatio pediculi arcus vertebrae	Chondrification of pedicle of vertebral arch
<b>E7.0.1.19.0.0.7</b>	Primordia articulationum coxae et genus	Primordia of hip and knee joints
<b>E7.0.1.19.0.0.8</b>	Septum transversum prope vel ad situationem definitivam	Septum transversum at or near definitive level
<b>E5.16.3.2.0.0.8</b>	Blastema glandulae lacrimalis <sup>412</sup>	Blastema of lacrimal gland
	<i>Alimentaria</i>	<i>Alimentary</i>
<b>E5.4.1.1.1.2.5</b>	Chorda juxtaoralis cum lumine	Juxta-oral cord with lumen
<b>E7.0.1.19.0.0.9</b>	Mesenchyma appositum ad gemmam glandulae submandibularis	Mesenchyme applied to submandibular gland bud
<b>E7.0.1.19.0.0.10</b>	Exocrinocytii caliciformes intestini tenuis	Goblet cells of small intestine
<b>E7.0.1.19.0.0.11</b>	Villi primordiales intestini tenuis	Primordial villi of small intestine
<b>E5.4.4.0.0.0.10</b>	Epithelium pseudostratificatum columnare	Pseudostratified columnar epithelium
<b>E5.4.9.0.1.0.3</b>	Colon primordiale	Primordial colon
<b>E7.0.1.19.0.0.12</b>	Lamina muscularis mucosae coli	Muscularis mucosae of colon
<b>E5.4.9.0.2.0.11</b>	Rectum primordiale	Primordial rectum
	<i>Urogenitalia</i>	<i>Urogenital</i>

<sup>411</sup> E2.0.1.2.0.0.50 *Embryo gradum XIX [St.19]* Embryos of Carnegie Stage 19, which exhibit these features, are generally 16-18mm in length and about 46 days old. Correct assignment to particular Stages in the range 19-22 gets progressively more difficult. Comparisons with Streeter's photographs and Greatest Length are important, as are "point scores" based upon the state of development of the cornea, optic nerve, cochlear duct, adenohypophysis, vomeronasal organ, submandibular gland, metanephros and humerus. Embryos of Carnegie Stage 19 score totals of 10-16.5 developmental points. These embryos have completed the "premier sous-stade de 45j allant jusqu'à la 1ère ébauche typiquement humaine" (Guyot R. Théorie nouvelle sur les âges de la vie. 2<sup>nd</sup> ed. Paris: Barré & Dayez; 1985).

<sup>412</sup> E5.16.3.2.0.0.8 *Blastema glandulae lacrimalis* Mesenchyme condenses in relation to the superior conjunctival fornix, the epithelium of which thickens before the appearance of epithelial buds (Cuadra-Blanco C, Peces-Peña MD, Mérida-Velasco JR. Morphogenesis of the human lacrimal gland. J Anat 2003;203:531-536).

<b>E7.0.1.16.0.0.16</b>	Bifurcatio aliarum ampullarum uretericarum in blastemati metanephrogenico	Further bifurcation of ureteric ampullae in metanephrogenic blastema
<b>E7.0.1.19.0.0.13</b>	Vesiculae metanephricae; Vesiculae renales	Metanephric vesicles; Renal vesicles
	<i>Endocrina</i>	<i>Endocrine</i>
<b>E5.10.1.1.0.0.6</b>	Truncus oclusus sacci adenohipophysialis <sup>112</sup>	Closed stem of adenohipophysial pouch
<b>E5.10.1.1.0.0.10</b>	Paries abinfundibularis sacci adenohipophysialis <sup>112</sup>	Abinfundibular wall of adenohipophysial pouch
<b>E5.10.1.1.0.0.11</b>	Pars distalis adenohipophysialis	Pars distalis of adenohipophysialis; Pars anterior of hypophysis
<b>E5.10.1.1.0.0.19</b>	Paries infundibularis sacci adenohipophysialis <sup>112</sup>	Infundibular wall of adenohipophysial pouch
<b>E5.10.1.1.0.0.20</b>	Pars intermedia adenohipophysialis	Pars intermedia of adenohipophysialis
<b>E5.10.1.1.0.0.21</b>	Paries dorsolateralis sacci adenohipophysialis <sup>112</sup>	Dorsolateral wall of adenohipophysial pouch
<b>E7.0.1.19.0.0.14</b>	Pars tuberalis adenohipophysialis	Pars tuberalis of adenohipophysialis
<b>E7.0.1.19.0.0.15</b>	Disjunctio gemmae parathyroideae inferioris; Disjunctio gemmae parathyroideae sacci tertii	Bud of inferior parathyroid detached; Parathyroid bud of pouch 3 detached
<b>E7.0.1.19.0.0.16</b>	Associatio glandulae parathyroideae inferioris cum glandula thyroidea	Inferior parathyroid associates with thyroid gland; Parathyroid 3 associates with thyroid gland
	<i>Cardiovascularia</i>	<i>Cardiovascular</i>
<b>E7.0.1.19.0.0.17</b>	Circulus arteriosus cerebri	Cerebral arterial circle
	<i>Haematolymphoidea</i>	<i>Haematolymphoid</i> <sup>▲</sup>
<b>E7.0.1.6.2.0.6</b>	Haemangiogenesis vesiculae umbilicalis; Haemangiogenesis sacci vitellini	Umbilical vesicle haemangiogenesis <sup>▲</sup> ; Yolk sac haemangiogenesis <sup>▲</sup>
	<i>Neuralia et sensoria</i>	<i>Neural and senses</i>
<b>E5.14.3.4.3.1.13</b>	Bulbus olfactorius	Olfactory bulb
<b>E5.14.3.1.6.0.8</b>	Lamina cerebellaris	Cerebellar plate
<b>E4.0.3.3.1.0.8</b>	Epithelium posterius corneae	Endothelium of anterior chamber
<b>E7.0.1.19.0.0.18</b>	Ingressio axonum nervi optici in pedunculum opticum	Entry of optic nerve axons into optic stalk
<b>E7.0.1.19.0.0.19</b>	Stratum pigmentosum retinae	Pigmented layer of retina
<b>E7.0.1.19.0.0.20</b>	Directio dorsalis ductus cochlearis	Cochlear duct pointing dorsad
<b>E7.0.1.19.0.0.21</b>	Malleus	Malleus
<b>E7.0.1.19.0.0.22</b>	Incus	Incus
<b>E7.0.1.19.0.0.23</b>	Capsula otica cartilaginea	Cartilaginous otic capsule
<b>E2.0.1.2.0.0.51</b>	<b>EMBRYO GRADUS XX [ST.20]</b> <sup>413</sup>	<b>STAGE 20 EMBRYO [ST.20]</b> ~49 days 18-22mm GL 19-29.5 developmental points
	<i>Generalia</i>	<i>General</i>
<b>E7.0.1.18.0.0.1</b>	Motus contractionis corporalis generalis <sup>408</sup>	General movements
<b>E7.0.1.18.0.0.2</b>	Motus singultus <sup>409</sup>	Hiccup
<b>E7.0.1.20.0.0.1</b>	Plexus vasculosus subcutaneus capitis incipiens	Incipient subcutaneous vascular plexus of head
<b>E7.0.1.20.0.0.2</b>	Chondrocranium praesellare	Presellar chondrocranium
<b>E7.0.1.20.0.0.3</b>	Centra ossificationis primaria tibiae, fibulae, humeri, radii et ulnae	Primary ossification centres of tibia, fibula, humerus, radius and ulna <sup>▲</sup>
<b>E7.0.1.20.0.0.4</b>	Cartilago skeletalis ossium tarsalium, ossium metatarsalium et phalangium	Skeletal cartilage of tarsus, metatarsus and phalanges
<b>E7.0.1.20.0.0.5</b>	Primordia ligamentorum primorum	Primordia of first ligaments
<b>E7.0.1.20.0.0.6</b>	Eminentia caudalis vestigialis; Cauda vestigialis	Vestigial caudal eminence; Vestigial tail
<b>E7.0.1.20.0.0.7</b>	Tuberculum coccygeum <sup>414</sup>	Coccygeal tubercle
<b>E7.0.1.20.0.0.8</b>	Tuberculum caudale <sup>414</sup>	Caudal tubercle
	<i>Alimentaria</i>	<i>Alimentary</i>
<b>E7.0.1.20.0.0.9</b>	Innervatio primordii organi juxtaoralis a nervo buccale	Innervation of primordial juxta-oral organ by buccal nerve §Chievitz§
<b>E7.0.1.20.0.0.10</b>	Extensio pediculi glandulae submandibularis	Elongated submandibular stalk

<sup>413</sup> E2.0.1.2.0.0.51 *Embryo gradus XX [St.20]* Embryos of Carnegie Stage 20, which exhibit these features, are generally 18-22mm in length and about 49 days old. Embryos of Carnegie Stage 20 have scored totals of 19-29.5 developmental points (see footnote<sup>407</sup>).

<sup>414</sup> E7.0.1.20.0.0.7/ E7.0.1.20.0.0.8 *Tuberculum coccygeum / Tuberculum caudale* In Stage 20 the vestigial caudal eminence or tail bud is reduced to two transient midline tubercles, caudal to the anal pit: the *coccygeal tubercle*, which is nearer to the pit, is produced by the underlying tip or dorsum of the coccyx and will become submerged; the *caudal tubercle*, which is further from the pit, is produced by vestiges of the nonvertebrated part of the caudal eminence or tail bud and may become cystic.

<b>E7.0.1.20.0.0.11</b>	Ampulla recti	Rectal ampulla
<b>E7.0.1.20.0.0.12</b>	Columnae anales	Anal columns
<b>E7.0.1.20.0.0.13</b>	Occlusio ani <sup>415</sup>	Occlusion of anus
	<i>Respiratoria</i>	<i>Respiratory</i>
<b>E5.16.1.1.0.0.3</b>	Cupula vomeronasalis	Vomer nasal cup
<b>E7.0.1.20.0.0.14</b>	Occlusio hiatus pleuroperitonealis	Closure of pleuroperitoneal opening
	<i>Urogenitalia</i>	<i>Urogenital</i>
<b>E7.0.1.16.0.0.16</b>	Bifurcatio aliarum ampullarum uretericarum in blastemati metanephrogenico	Further bifurcation of ureteric ampullae in metanephrogenic blastema
<b>E7.0.1.20.0.0.15</b>	Tubuli metanephrici sigmoidei	S-shaped metanephric tubules
	<i>Endocrina</i>	<i>Endocrine</i>
<b>E7.0.1.20.0.0.16</b>	Colloidum in folliculis glandulae thyroideae	Colloid in thyroid gland follicles
<b>E5.10.1.1.0.0.7</b>	Truncus extensus sacci adenohipophysialis <sup>112</sup>	Elongated stem of adenohipophysial pouch
	<i>Haematolymphoidea</i>	<i>Haematolymphoid</i> <sup>▲</sup>
<b>E7.0.1.6.2.0.6</b>	Haemangiogenesis vesiculae umbilicalis; Haemangiogenesis sacci vitellini	Umbilical vesicle haemangiogenesis <sup>▲</sup> ; Yolk sac haemangiogenesis <sup>▲</sup>
<b>E5.12.1.2.1.0.1</b>	Cortex thymi	Cortex of thymus
	<i>Neuralia et sensoria</i>	<i>Neural and senses</i>
<b>E7.0.1.18.0.0.36</b>	Plexus choroideus villosus ventriculi lateralis	Villous choroid plexus of lateral ventricle
<b>E7.0.1.20.0.0.17</b>	Adventus axonorum in chiasma opticum	Arrival of axons in optic chiasm
<b>E7.0.1.20.0.0.18</b>	Stratum neuronorum immaturorum externum retinae	Outer immature neuron layer of retina
<b>E5.16.3.1.1.1.33</b>	Stratum anucleare fugax retinae	Transient anuclear layer of retina §Chievitz§
<b>E5.16.3.1.1.1.34</b>	Stratum neuronorum immaturorum internum retinae; Stratum intermedium retinae; Stratum pallii retinae	Inner immature neuron layer of retina; Mantle layer of retina
<b>E5.16.4.0.2.0.11</b>	M. tensor tympani	Tensor tympani
<b>E7.0.1.20.0.0.19</b>	Ductus cochlearis caudaliter	Cochlear duct pointing caudad
<b>E2.0.1.2.0.0.52</b>	<b>EMBRYO GRADUS XXI [ST.21]</b> <sup>416</sup>	<b>STAGE 21 EMBRYO [ST.21]</b> ~51 days 22-24mm GL 30-39 developmental points
	<i>Generalia</i>	<i>General</i>
<b>E7.0.1.21.0.0.1</b>	Motus singularis membri <sup>417</sup>	Isolated limb movements
<b>E7.0.1.21.0.0.2</b>	Motus singularis extensionis capitis <sup>418</sup>	Isolated retroflexion of the head
<b>E7.0.1.21.0.0.3</b>	Motus singularis rotationis capitis <sup>419</sup>	Isolated rotation of the head
<b>E7.0.1.21.0.0.4</b>	Expansio plexus vasculosi subcutanei capitis	Expansion of subcutaneous vascular plexus of head
	<i>Alimentaria</i>	<i>Alimentary</i>
<b>E7.0.1.21.0.0.5</b>	Rr. primarii pediculi glandulae submandibularis	Primary branches of submandibular stalk
<b>E7.0.1.21.0.0.6</b>	Extensio pediculi glandulae parotidae	Elongation of parotid bud
<b>E7.0.1.21.0.0.7</b>	Papillae linguales vallatae et foliatae	Vallate and foliate papillae of tongue
<b>E7.0.1.21.0.0.8</b>	Stratum longitudinale tunicae muscularis oesophagi	Longitudinal muscle layer of oesophagus <sup>▲</sup>
<b>E7.0.1.21.0.0.9</b>	Stratum longitudinale tunicae muscularis gastris	Longitudinal muscle layer of stomach
<b>E7.0.1.21.0.0.10</b>	Recanalitatio luminis duodenalis	Duodenal lumen recanalised
<b>E7.0.1.21.0.0.11</b>	Stratum circulare tunicae muscularis recti	Circular muscle layer of rectum
	<i>Respiratoria</i>	<i>Respiratory</i>
<b>E5.16.1.1.0.0.1</b>	Organum vomeronasale	Vomer nasal organ

<sup>415</sup> E7.0.1.20.0.0.13 *Occlusio ani* The anus is temporarily occluded by adhesion and an epithelial plug, which may have been mistaken for an anal membrane. A separate anal membrane does not exist because the urorectal septum does not reach the cloacal membrane.

<sup>416</sup> E2.0.1.2.0.0.52 *Embryo gradus XXI [St.21]* Embryos of Carnegie Stage 21, which exhibit these features, are generally 22-24mm in length and about 51 days old. Embryos of Carnegie Stage 21 have scored totals of 30-39 developmental points (see footnote<sup>407</sup>).

<sup>417</sup> E7.0.1.21.0.0.1 *Motus singularis membri* *Isolated arm or leg movements* "may be rapid or slow and may involve extension, flexion, [lateral] and [medial] rotation or abduction or adduction of an extremity, without movements in other body parts. The amplitude can vary from small to very large." (de Vries JIP, Visser GHA, Prechtl HFR, The emergence of fetal behaviour. I. Quantitative aspects. Early Human Development 1982;7:301-322).

<sup>418</sup> E7.0.1.21.0.0.2 *Motus singularis extensionis capitis* *Isolated retroflexion of the head* is "usually carried out slowly but can also be fast and jerky. The displacement of the head can be small or large" (de Vries JIP, Visser GHA, Prechtl HFR, The emergence of fetal behaviour. I. Quantitative aspects. Early Human Development 1982;7:301-322).

<sup>419</sup> E7.0.1.21.0.0.3 *Motus singularis rotationis capitis* *Isolated rotation of the head* is carried out at a slow velocity and only exceptionally at a higher speed. The head may turn from a midline position to one side and back" (de Vries JIP, Visser GHA, Prechtl HFR, The emergence of fetal behaviour. I. Quantitative aspects. Early Human Development 1982;7:301-322).

	<i>Urogenitalia</i>	<i>Urogenital</i>
<b>E7.0.1.21.0.0.12</b>	Bifurcatio aliarum ampullarum uretericarum in blastemati metanephrogenico	Further bifurcation of ureteric ampullae in metanephrogenic blastema
<b>E7.0.1.21.0.0.13</b>	Capsulae glomerulares metanephricae	Metanephric glomerular capsules
<b>E5.6.3.1.1.0.3</b>	Recanalisatio luminis ureteri	Recanalised ureteric lumen
	<i>Endocrina</i>	<i>Endocrine</i>
<b>E7.0.1.21.0.0.14</b>	Initium dissolutionis trunci sacci adenohipophysialis <sup>112</sup>	Beginning of fragmentation of stem of adenohipophysial pouch
	<i>Haematolymphoidea</i>	<i>Haematolymphoid</i> <sup>▲</sup>
<b>E7.0.1.6.2.0.6</b>	Haemangiogenesis vesiculae umbilicalis; Haemangiogenesis sacci vitellini	Umbilical vesicle haemangiogenesis <sup>▲</sup> ; Yolk sac haemangiogenesis <sup>▲</sup>
<b>E7.0.1.21.0.0.15</b>	Invasio thymi a vasis capillariis	Invasion of thymus by capillaries
	<i>Neuralia et sensoria</i>	<i>Neural and senses</i>
<b>E7.0.1.21.0.0.16</b>	Phasis zonarum quatuor differentiationis corticis cerebri	Four-zone phase of differentiation of cerebral cortex
<b>E7.0.1.21.0.0.17</b>	Lamina corticalis hemispherii cerebri	Cortical plate of cerebral hemisphere
<b>E7.0.1.21.0.0.18</b>	Adventus axonorum nervi optici ad diencephalon	Arrival of optic nerve axons at diencephalon
<b>E5.16.3.1.4.0.30</b>	Substantia propria corneae	Substantia propria of cornea
<b>E7.0.1.21.0.0.19</b>	Ductus cochlearis ventraliter	Cochlear duct pointing ventrad
<b>E2.0.1.2.0.0.53</b>	<b>EMBRYO GRADUS XXII [ST.22]</b> <sup>420</sup>	<b>STAGE 22 EMBRYO [ST.22]</b> ~53 days 23-28mm
		GL 40.5-46 developmental points
	<i>Generalia</i>	<i>General</i>
<b>E7.0.1.22.0.0.1</b>	Motus manus adtingentis faciem <sup>421</sup>	Hand-face-contact
<b>E7.0.1.21.0.0.4</b>	Expansio plexus vasculosi subcutanei capitis	Expansion of subcutaneous vascular plexus of head
<b>E7.0.1.22.0.0.2</b>	Reflexus contractionis perioralis totalis	Peri-oral mass reflex
<b>E7.0.1.22.0.0.3</b>	Reflexus contractionis facialis totalis	Facial mass reflex
<b>E7.0.1.22.0.0.4</b>	Responsum flexionis cervicalis contralateralis	Contralateral flexion response of neck
<b>E7.0.1.22.0.0.5</b>	Differentiatio partium canalicularum saccularum ductularumque chordae lacrimalis	Differentiation of canalicular, saccular and ductular parts of lacrimal cord
<b>E7.0.1.22.0.0.6</b>	Tragus	Tragus
<b>E7.0.1.22.0.0.7</b>	Antitragus	Antitragus
<b>E7.0.1.22.0.0.8</b>	Anulus periostealis humeri	Periosteal collar of humerus
	<i>Alimentaria</i>	<i>Alimentary</i>
<b>E7.0.1.22.0.0.9</b>	Rr. secundarii pediculi glandulae submandibularis	Secondary branches of submandibular stalk
<b>E7.0.1.22.0.0.10</b>	Rr. primarii pediculi glandulae parotideae	Primary branches of parotid stalk
<b>E7.0.1.22.0.0.11</b>	Stratum circulare tunicae muscularis intestini tenuis	Circular muscle layer of small intestine
<b>E7.0.1.22.0.0.12</b>	Villi definitivi duodeni	Definitive villi of duodenum
<b>E7.0.1.22.0.0.13</b>	Epitheliocytis penicillati solitarii; Enterocytis cum limbo microvilloso solitarii	Solitary brush cells; Solitary tuft cells; Solitary enterocyte with microvillous border; Solitary enterocyte with brush border
<b>E7.0.1.22.0.0.14</b>	Endocrinocytis gastrointestinales gastris et intestini tenuis	Entero-endocrine cells; Gastro-enteropancreatic cells; GEP endocrine cells of stomach and small intestine
<b>E7.0.1.22.0.0.15</b>	Corpuscula meconii in enterocytis	Meconium corpuscles in enterocytes
<b>E7.0.1.22.0.0.16</b>	Stratum longitudinale tunicae muscularis intestini tenuis	Longitudinal muscle layer of small intestine
<b>E7.0.1.22.0.0.17</b>	Stratum circulare tunicae muscularis coli	Circular muscle layer of colon
<b>E7.0.1.22.0.0.18</b>	Stratum longitudinale tunicae muscularis coli	Longitudinal muscle layer of colon
<b>E7.0.1.22.0.0.19</b>	Stratum circulare tunicae muscularis appendicis vermiformis	Circular muscle layer of appendix
<b>E5.4.12.0.0.2.6</b>	Canalis bilifer	Bile canal §Hering§
	<i>Respiratoria</i>	<i>Respiratory</i>
<b>E7.0.1.22.0.0.20</b>	Ductus brevis organi vomeronasalis	Short vomeronasal duct

<sup>420</sup> E2.0.1.2.0.0.53 *Embryo gradus XXII [St.22]* Embryos of Carnegie Stage 22, which exhibit these features, are generally 23-28mm in length and about 53 days old. Embryos of Carnegie Stage 22 have scored totals of 40.5-46 developmental points (see footnote<sup>407</sup>).

<sup>421</sup> E7.0.1.22.0.0.1 *Motus manus adtingentis faciem* *Hand-face-contact* is achieved when "the hand slowly touches the face, the fingers frequently extend and flex" but rarely enter the mouth (de Vries JIP, Visser GHA, Precht HFR, The emergence of fetal behaviour. I. Quantitative aspects. Early Human Development 1982;7:301-322).

<b>E7.0.1.22.0.0.21</b>	Initium temporis pseudoglandularis pulmonis <i>Urogenitalia</i>	Beginning of pseudoglandular period of lung <i>Urogenital</i>
<b>E7.0.1.16.0.0.16</b>	Bifurcatio aliarum ampullarum uretericarum in blastemati metanephrogenico	Further bifurcation of ureteric ampullae in metanephrogenic blastema
<b>E7.0.1.22.0.0.22</b>	Glomeruli magni metanephrici	Large metanephric glomeruli
<b>E5.6.4.2.1.2.2</b>	Tuberculum sinuale <i>Haematolymphoidea</i>	Sinus tubercle <i>Haematolymphoid</i> <sup>▲</sup>
<b>E7.0.1.6.2.0.6</b>	Haemangiogenesis vesiculae umbilicalis; Haemangiogenesis sacci vitellini <i>Endocrina</i>	Umbilical vesicle haemangiogenesis <sup>▲</sup> ; Yolk sac haemangiogenesis <sup>▲</sup> <i>Endocrine</i>
<b>E5.4.2.0.0.1.19</b>	Disjunctio gemmae parathyroideae superioris; Disjunctio gemmae parathyroideae sacco quarto <i>Neuralia et sensoria</i>	Superior parathyroid bud detached; Parathyroid bud detached from pouch 4 <i>Neural and senses</i>
<b>E7.0.1.22.0.0.23</b>	Capsula interna cerebri	Internal capsule of cerebrum
<b>E7.0.1.22.0.0.24</b>	Capsula externa cerebri	External capsule of cerebrum
<b>E7.0.1.22.0.0.25</b>	Claustrum	Claustrum
<b>E7.0.1.22.0.0.26</b>	Vagina nervi optici	Optic nerve sheath
<b>E7.0.1.22.0.0.27</b>	Stratum neurofibrarum retinae	Layer of nerve fibres of retina <sup>▲</sup>
<b>E7.0.1.22.0.0.28</b>	Stratum limitans internum retinae	Inner limiting layer of retina
<b>E7.0.1.22.0.0.29</b>	Condensatio sclerae	Scleral condensation
<b>E7.0.1.22.0.0.30</b>	Ductus cochlearis dorsaliter iterum	Cochlear duct again pointing dorsad
<b>E2.0.1.2.0.0.54</b>	<b>EMBRYO GRADUS XXIII [ST.23]</b> <sup>422</sup> <i>Generalia</i>	<b>STAGE 23 EMBRYO [ST.23]</b> ~56 days 27-31mm GL 48-60.5 developmental points <i>General</i>
<b>E7.0.1.23.0.0.1</b>	Motus respirationis <sup>423</sup>	Breathing movements
<b>E7.0.1.23.0.0.2</b>	Motus adpersionis oris <sup>424</sup>	Jaw movements
<b>E7.0.1.23.0.0.3</b>	Motus porrectionis lentae corporis <sup>425</sup>	Stretching
<b>E7.0.1.23.0.0.4</b>	Motus singularis flexionis capitis <sup>426</sup>	Isolated anteflexion of the head
<b>E7.0.1.23.0.0.5</b>	Plexus vasculosus subcutaneus capitis paene completus	Nearly complete subcutaneous vascular plexus of head
<b>E7.0.1.23.0.0.6</b>	Conjunctio medialis et lateralis palpebrarum incipiens	Incipient medial and lateral fusion of eyelids
<b>E7.0.1.23.0.0.7</b>	Ossificatio tecti occipitalis	Ossifying occipital tectum
<b>E5.0.2.2.3.0.4</b>	Vertebrae cartilagineae	Cartilaginous vertebrae
<b>E7.0.1.23.0.0.8</b>	Centrum ossificationis primarium scapulae	Primary ossification centre of scapula <sup>▲</sup>
<b>E7.0.1.23.0.0.9</b>	Cavitatio articulationum coxae et genus	Cavitation of hip and knee joints
<b>E7.0.1.23.0.0.10</b>	Conjunctio processuum palatinorum pergens <i>Alimentaria</i>	Ongoing fusion of palatal shelves <i>Alimentary</i>
<b>E7.0.1.23.0.0.11</b>	Glandula sublingualis	Sublingual gland
<b>E7.0.1.23.0.0.12</b>	Formatio palati secundarii pergens	Ongoing formation of secondary palate
<b>E7.0.1.23.0.0.13</b>	Ductus longus organi vomeronasalis	Long vomeronasal duct
<b>E7.0.1.23.0.0.14</b>	Rr. secundarii pediculi glandulae parotidae	Secondary branches of parotid stalk
<b>E7.0.1.23.0.0.15</b>	Papillae linguales fungiformes	Fungiform papillae of tongue
<b>E7.0.1.23.0.0.16</b>	Myoblasti leves vesicae biliaris	Smooth muscle myoblasts of gallbladder
<b>E7.0.1.23.0.0.17</b>	Cryptae primordialis intestini tenuis <i>Respiratoria</i>	Primordial crypts of small intestine <i>Respiratory</i>
<b>E5.5.3.0.2.0.1</b>	Tempus pseudoglandulare pulmonis	Pseudoglandular period of lung
<b>E5.5.3.0.2.0.11</b>	Pneumocytus typi II	Type II pneumocyte

<sup>422</sup> E2.0.1.2.0.0.54 *Embryo gradus XXIII [St.23]* Embryos of Carnegie Stage 23, which exhibit these features, are generally 27-31mm in length and about 56 days old. Embryos of Carnegie Stage 23 have scored totals of 48-60.5 developmental points (see footnote<sup>407</sup>).

<sup>423</sup> E7.0.1.23.0.0.1 *Motus respirationis* *Breathing movements* "consist of movement of the diaphragm (caudal direction), leading to movements of the thorax (inwards) and abdomen (outwards)" (de Vries JIP, Visser GHA, Precht HFR, The emergence of fetal behaviour. I. Quantitative aspects. Early Human Development 1982;7:301-322).

<sup>424</sup> E7.0.1.23.0.0.2 *Motus adpersionis oris* *Jaw movements* "may be either slow or quick. The extent of jaw opening is variable" (de Vries JIP, Visser GHA, Precht HFR, The emergence of fetal behaviour. I. Quantitative aspects. Early Human Development 1982;7:301-322).

<sup>425</sup> E7.0.1.23.0.0.3 *Motus porrectionis lentae corporis* *Stretching* "is a complex motor pattern, which is always carried out at a slow speed and consists of the following components: forceful extension of the back, retroflexion of the head, and [lateral] rotation and elevation of the arms" (de Vries JIP, Visser GHA, Precht HFR, The emergence of fetal behaviour. I. Quantitative aspects. Early Human Development 1982;7:301-322).

<sup>426</sup> E7.0.1.23.0.0.4 *Motus singularis flexionis capitis* *Isolated anteflexion of the head* "is only carried out at a slow velocity. The displacement of the head is small" (de Vries JIP, Visser GHA, Precht HFR, The emergence of fetal behaviour. I. Quantitative aspects. Early Human Development 1982;7:301-322).

	<i>Urogenitalia</i>	<i>Urogenital</i>
<b>E7.0.1.16.0.0.16</b>	Bifurcatio aliarum ampullarum uretericarum in blastemati metanephrogenico	Further bifurcation of ureteric ampullae in metanephrogenic blastema
<b>E5.6.4.2.1.7.6</b>	Plica urethralis secundarius	Secondary urethral fold
<b>E7.0.1.23.0.0.18</b>	Meiosis oogoniorum	Oogonial meiosis
<b>E7.0.1.23.0.0.19</b>	Adventus ductuum paramesonephricorum junctorum ad sinum urogenitalem♀	Fused paramesonephric ducts meet urogenital sinus♀
	<i>Endocrina</i>	<i>Endocrine</i>
<b>E7.0.1.23.0.0.20</b>	Dissolutio trunci sacci adenohipophysialis completa	Dissolution of stem of adenohipophysial pouch complete
<b>E7.0.1.23.0.0.21</b>	Glandula suprarenalis ad polum superiorem renis	Suprarenal gland at upper pole of kidney
	<i>Haematolymphoidea</i>	<i>Haematolymphoid</i> <sup>▲</sup>
<b>E7.0.1.6.2.0.6</b>	Haemangiogenesis vesiculae umbilicalis; Haemangiogenesis sacci vitellini	Umbilical vesicle haemangiogenesis <sup>▲</sup> ; Yolk sac haemangiogenesis <sup>▲</sup>
<b>E7.0.1.23.0.0.22</b>	Nodi lymphatici profundi colli	Deep cervical lymph nodes
<b>E7.0.1.23.0.0.23</b>	Thymus lobulatus	Lobulated thymus
	<i>Neuralia et sensoria</i>	<i>Neural and senses</i>
<b>E7.0.1.23.0.0.24</b>	Phasis zonarum quinque differentiationis corticis cerebri	Five-zone phase of differentiation of cerebral cortex
<b>E5.14.3.1.6.0.16</b>	Fissura posterolateralis cerebelli; Fissura postnodularis	Posterolateral fissure of cerebellum; Postnodular fissure
<b>E7.0.1.23.0.0.25</b>	Strata tres cerebelli	Three-layered cerebellum
<b>E7.0.1.23.0.0.26</b>	Nn. peripherici in terminis digitorum membri superioris	Peripheral nerve bundles in tips of upper limb digits
<b>E7.0.1.23.0.0.27</b>	Completio corneae	Fully formed cornea
<b>E4.0.3.3.1.0.10</b>	Membrana pupillaris <sup>306</sup>	Pupillary membrane; Iridopupillary membrane
<b>E7.0.1.22.0.0.26</b>	Vagina nervi optici	Optic nerve sheath
<b>E7.0.1.23.0.0.28</b>	Ductus cochlearis ventraliter iterum	Cochlear duct again pointing ventrad
<b>E5.16.3.1.4.0.7</b>	Corpus vitreum secundarium	Secondary vitreous body
<b>E7.1.0.0.0.0.1</b>	<b>Tempora fetalia</b>	<b>Fetal periods</b>
<b>E1.0.0.0.0.0.26</b>	<b>Fetogenesis<sup>3</sup></b>	<b>Fetogenesis</b>
	<i>Insignia in temporibus fetalibus</i>	<i>Features in fetal periods</i>
<b>E2.0.1.3.0.0.3</b>	<b>TEMPUS FETALE PRIMUM; FETUS HEBDOMADIS NONAE AD HEBDOMADEM TERTIAM DECIMAM</b>	<b>EARLY FETAL PERIOD; NINTH-THIRTEENTH WEEK FETUS</b>
<b>E7.1.1.1.1.0.1</b>	<b>Fetus hebdomadis nonae<sup>427</sup></b>	<b>Ninth week fetus</b> 8-9 weeks ~35mm GL ~10g
	<i>Generalia</i>	<i>General</i>
<b>E7.0.1.23.0.0.1</b>	Motus respirationis <sup>423</sup>	Breathing movements
<b>E7.0.1.23.0.0.2</b>	Motus adpersionis oris <sup>424</sup>	Jaw movements
<b>E7.0.1.23.0.0.3</b>	Motus porrectionis lentae corporis <sup>425</sup>	Stretching
<b>E7.0.1.23.0.0.4</b>	Motus singularis flexionis capitis <sup>426</sup>	Isolated anteflexion of the head
<b>E7.1.1.1.1.0.2</b>	Flexura capitis circa gradus viginti duo	Head flexion on trunk about 22°
<b>E7.1.1.1.1.0.3</b>	Constrictio cervicalis amplior	Further constriction of neck
<b>E7.1.1.1.1.0.4</b>	Membrum superius sensibile tactui	Upper limb sensitive to touch
<b>E7.1.1.1.1.0.5</b>	Reflexus circumspectus	Squint reflex
<b>E7.1.1.1.1.0.6</b>	Conjunctio palpebrarum	Fusion of eyelids
<b>E7.1.1.1.1.0.7</b>	Primordium musculi orbicularis oculi	Primordium of orbicularis oculi
<b>E7.1.1.1.1.0.8</b>	Conjunctio epithelii conjunctivalis cum epithelio canaliculare	Fusion of conjunctival and canalicular epithelia
<b>E7.1.1.1.1.0.9</b>	Centra ossificationis primaria ilii et ossium metatarsalium	Primary ossification centres of ilium and metatarsals <sup>▲</sup>
<b>E4.0.4.4.10.0.2</b>	Cellula tendinocytogenetrix	Tendinocyte progenitor cell
	<i>Alimentaria</i>	<i>Alimentary</i>
<b>E7.1.1.1.1.0.10</b>	Conjunctio processuum palatinorum	Fusion of palatal shelves
<b>E7.1.1.1.1.0.11</b>	Formatio palati secundarii	Formation of secondary palate
<b>E5.4.1.1.1.1.11</b>	Ductus parotideus	Parotid duct
<b>E7.1.1.1.1.0.12</b>	Lumen in ramis terminalibus ductus parotidei	Lumen in terminal branches of parotid duct

<sup>427</sup> E7.1.1.1.1.0.1 *Fetus hebdomadis nonae* The ninth week fetus is between 8 and 9 weeks old, is about 35mm long [GL], weighs about 10 g and exhibits the features listed.

<b>E7.1.1.1.1.0.13</b>	Epithelium pseudostratificatum columnare ciliatum oesophagi	Pseudostratified ciliated columnar epithelium of oesophagus <sup>▲</sup>
<b>E7.1.1.1.1.0.14</b>	Vacuolae epitheliales oesophagi	Epithelial vacuoles of oesophagus <sup>▲</sup>
<b>E7.1.1.1.1.0.15</b>	Lamina muscularis mucosae oesophagi	Muscularis mucosae of oesophagus <sup>▲</sup>
<b>E7.1.1.1.1.0.16</b>	Exocrinocyti caliciformes intestini crassi	Goblet cells of large intestine
<b>E7.1.1.1.1.0.17</b>	Cryptae intestini crassi	Crypts of large intestine
<b>E7.1.1.1.1.0.18</b>	Formatio papillarum mesenchymalium coli	Formation of mesenchymal papillae of colon
<b>E7.1.1.1.1.0.19</b>	Gemmae glandulae mucosae vesicae biliaris	Buds of mucous glands of gallbladder
<b>E7.1.1.1.1.0.20</b>	Reductio herniae umbilicalis physiologicae	Reduction of physiological umbilical hernia
<b>E7.1.1.1.1.0.21</b>	Recanalisatio canalis analis	Recanalization of anal canal
	<i>Respiratoria</i>	<i>Respiratory</i>
<b>E5.5.1.0.0.0.13</b>	Septum nasi	Nasal septum
<b>E5.5.3.0.2.0.1</b>	Tempus pseudoglandulare pulmonis	Pseudoglandular period of lung
<b>E5.5.3.0.2.0.11</b>	Pneumocytus typi II	Type II pneumocyte
	<i>Urogenitalia</i>	<i>Urogenital</i>
<b>E7.0.1.16.0.0.16</b>	Bifurcatio aliarum ampullarum uretericarum in blastemati metanephrogenico	Further bifurcation of ureteric ampullae in metanephrogenic blastema
<b>E7.1.1.1.1.0.22</b>	Descensus gonadae in abdomine	Descent of gonad in abdomen
<b>E7.1.1.1.1.0.23</b>	Conjunctio tuberculorum labioscrotalium	Fusion of labioscrotal swellings
<b>E7.1.1.1.1.0.24</b>	Conjunctio plicarum analum	Fusion of anal folds
<b>E7.1.1.1.1.0.25</b>	Raphe anogenitalis	Anogenital raphe
<b>E5.7.3.1.0.0.5</b>	Corpus perineale; Centrum perinei	Perineal body
	<i>Endocrina</i>	<i>Endocrine</i>
<b>E7.1.1.1.1.0.26</b>	Endocrinocyti gonadotropici partis distalis adenohipophysys	Gonadotropic cells of pars distalis of adenohipophysys
<b>E7.1.1.1.1.0.27</b>	Endocrinocyti thyrotropici partis distalis adenohipophysys	Thyrotropic cells of pars distalis of adenohipophysys
	<i>Haematolymphoidea</i>	<i>Haematolymphoid</i> <sup>▲</sup>
<b>E7.1.1.1.1.0.28</b>	Defectio haemangiogenesis de vesicula umbilicale; Defectio haemangiogenesis de sacco vitellino	Umbilical vesicle haemangiogenesis eclipsed <sup>▲</sup> ; Yolk sac haemangiogenesis eclipsed <sup>▲</sup>
<b>E7.1.1.1.1.0.29</b>	Expansio haematopoiesis hepaticae	Hepatic haematopoiesis extensive <sup>▲</sup>
<b>E7.1.1.1.1.0.30</b>	Abundantia erythroblastorum in hepate	Abundance of erythroblasts in liver
<b>E7.1.1.1.1.0.31</b>	Megakaryocyti in hepate	Megakaryocytes in liver
<b>E7.1.1.1.1.0.32</b>	Admodum pauci lymphocyti T et B in hepate	Very few T and B lymphocytes in liver
<b>E7.1.1.1.1.0.33</b>	Macroblasti numerosi in sanguine	Numerous circulating macroblasts
<b>E7.1.1.1.1.0.34</b>	Lymphocyti T in sanguine	Circulating T lymphocytes
<b>E7.1.1.1.1.0.35</b>	Lymphocyti T in thymo	T lymphocytes in thymus
<b>E7.1.1.1.1.0.36</b>	Subdivisio thymi ab septis mesenchymalibus	Subdivision of thymus by mesenchymal septa
<b>E7.1.1.1.1.0.37</b>	Pseudolobuli thymi	Pseudolobules of thymus
<b>E7.1.1.1.1.0.38</b>	Invasio thymi a cellulis haematopoieticis immaturis	Invasion of thymus by immature haematopoietic cells <sup>▲</sup>
	<i>Neuralia et sensoria</i>	<i>Neural and senses</i>
<b>E5.14.3.1.6.0.11</b>	Coalescentia primordiorum cerebellarium	Coalescence of cerebellar primordia
	<i>Cutanea</i>	<i>Cutaneous</i>
<b>E7.1.1.1.1.0.39</b>	Epithelium superficiale corporis trilaminare	Three-layered body surface epithelium
<b>E7.1.1.1.2.0.1</b>	<b>Fetus hebdomadis decimae</b> <sup>428</sup>	<b>Tenth week fetus</b> 9-10 weeks ~45mm GL ~20g
	<i>Generalia</i>	<i>General</i>
<b>E7.1.1.1.2.0.2</b>	Motus oscitationis <sup>429</sup>	Yawn
<b>E7.1.1.1.2.0.3</b>	Flexura capitis circa gradus quindecim	Head flexion on trunk about 15°
<b>E7.1.1.1.2.0.4</b>	Reflexus contractionis trunci totalis	Trunk mass reflex
<b>E7.1.1.1.2.0.5</b>	Membrum inferius sensibile tactui	Lower limb sensitive to touch
<b>E7.1.1.1.2.0.6</b>	Initium canalisationis chordae lacrimalis et canaliculorum	Beginning of canalization of lacrimal cord and canaliculi
<b>E7.1.1.1.2.0.7</b>	Conjunctio epithelii lacrimalis cum lamina meatale inferiore	Fusion of lacrimal epithelium and inferior meatal lamina

<sup>428</sup> E7.1.1.1.2.0.1 *Fetus hebdomadis decimae* The tenth week fetus is between 9 and 10 weeks old, is about 45mm long [GL], weighs about 20 g and exhibits the features listed.

<sup>429</sup> E7.1.1.1.2.0.2 *Motus oscitationis* The yawn is similar to the yawn observed after birth: prolonged opening of the jaws followed by quick closure often with retroflexion of the head and sometimes elevation of the arms\* (de Vries JIP, Visser GHA, Prechtl HFR, The emergence of fetal behaviour. I. Quantitative aspects. Early Human Development 1982;7:301-322).

<b>E7.1.1.1.2.0.8</b>	Initium cavitationis laminae meatalis inferioris	Beginning of cavitation of inferior meatal lamina
<b>E7.1.1.1.2.0.9</b>	Centra ossificationis primaria phalangium distalium	Primary ossification centres of distal phalanges <sup>▲</sup>
	<i>Alimentaria</i>	<i>Alimentary</i>
<b>E7.1.1.1.2.0.10</b>	Papillae linguales filiformes	Filiform papillae of tongue
<b>E7.1.1.1.1.0.10</b>	Conjunctio processuum palatinorum	Fusion of palatal shelves
<b>E7.1.1.1.1.0.11</b>	Formatio palati secundarii	Formation of secondary palate
<b>E5.4.1.1.1.0.4</b>	Sulcus labioringivalis	Vestibular sulcus; Labioringival sulcus
<b>E7.1.1.1.2.0.11</b>	Adventus gemmarum dentium permanentium	Appearance of permanent tooth buds
<b>E7.1.1.1.2.0.12</b>	Initium status campanalis dentium deciduorum	Early bell stage of deciduous teeth
<b>E7.1.1.1.1.0.15</b>	Lamina muscularis mucosae oesophagi	Muscularis mucosae of oesophagus <sup>▲</sup>
<b>E5.4.5.0.1.2.1</b>	Glandula pylorica	Pyloric gland
<b>E7.1.1.1.2.0.13</b>	Limbus microvillosus enterocytorum intestini tenuis	Microvillus border of enterocytes of small intestine
<b>E7.1.1.1.2.0.14</b>	Villi transientes intestini crassi	Transient villi of large intestine
<b>E7.1.1.1.2.0.15</b>	Meconium coloratum a bile	Bile-stained meconium
	<i>Respiratoria</i>	<i>Respiratory</i>
<b>E5.5.1.0.0.0.13</b>	Septum nasi	Nasal septum
<b>E5.5.1.0.1.0.2</b>	Gemma mucosae sinus maxillaris	Mucosal bud of maxillary sinus
<b>E5.5.3.0.2.0.1</b>	Tempus pseudoglandulare pulmonis	Pseudoglandular period of lung
<b>E5.5.3.0.2.0.11</b>	Pneumocytus typi II	Type II pneumocyte
	<i>Urogenitalia</i>	<i>Urogenital</i>
<b>E7.0.1.16.0.0.16</b>	Bifurcatio aliarum ampullarum uretericarum in blastemati metanephrogenico	Further bifurcation of ureteric ampullae in metanephrogenic blastema
<b>E5.6.3.1.2.0.21</b>	Tubuli metanephrici colligentes; Ductus metanephrici colligentes	Collecting tubules of metanephros; Collecting ducts of metanephros; [CDs] §Bellini§
<b>E7.1.1.1.2.0.16</b>	Initium periphericum conjunctionis tubulorum metanephricorum cum tubulis colligentibus	Peripheral commencement of fusion of metanephric tubules with collecting tubules
<b>E7.1.1.1.1.0.22</b>	Descensus gonadae in abdomine	Descent of gonad in abdomen
<b>E7.1.1.1.2.0.17</b>	Agnitio sexus phenotypici externi	External phenotypic sex identifiable
<b>E5.6.4.2.1.2.2</b>	Tuberculum sinuale <sup>185</sup>	Sinus tubercle
<b>E5.7.4.0.1.1.1</b>	Labium minus♀	Labium minus♀
<b>E7.1.1.1.2.0.18</b>	Conjunctio plicarum urethralium secundarium♂	Fusion of secondary urethral folds ♂
<b>E5.7.4.0.1.2.1</b>	Labium majus♀	Labium majus♀
<b>E5.7.4.0.1.2.4</b>	Scrotum ♂	Scrotum♂
<b>E7.1.1.1.2.0.19</b>	Commissura labiorum majorum posterior♀	Posterior commissure of labia majora ♀
<b>E5.7.4.0.1.2.5</b>	Raphe scroti♂	Raphe of scrotum♂
	<i>Endocrina</i>	<i>Endocrine</i>
<b>E7.1.1.1.2.0.20</b>	Endocrinocytus β, α, δ et PP solitarii partis endocrini pancreatis <sup>430</sup>	Solitary β, α, δ and PP cells of endocrine part of pancreas
<b>E7.1.1.1.2.0.21</b>	Endocrinocytus corticotropici partis distalis adenohipophysys	Corticotropic cells of pars distalis of adenohipophysys
<b>E7.1.1.1.2.0.22</b>	Endocrinocytus somatotropici partis distalis adenohipophysys	Somatotropic cells of pars distalis of adenohipophysys
<b>E7.1.1.1.2.0.23</b>	Accumulatio iodii in folliculis thyroideis	Iodide accumulation in thyroid follicles
<b>E7.1.1.1.2.0.24</b>	Formatio noradrenalini in medulla glandulae suprarenalis	Synthesis of noradrenalin in suprarenal medulla
	<i>Haematolymphoidea</i>	<i>Haematolymphoid</i> <sup>▲</sup>
<b>E7.1.1.1.2.0.25</b>	Haemangiogenesis in vesicula umbilicale decrescens; Haemangiogenesis in sacco vitellino decrescens	Umbilical vesicle haemangiogenesis diminishing <sup>▲</sup> ; Yolk sac haemangiogenesis diminishing <sup>▲</sup>
<b>E7.1.1.1.2.0.26</b>	Expansio haematopoiesis hepaticae	Hepatic haematopoiesis extensive <sup>▲</sup>
<b>E7.1.1.1.2.0.27</b>	Erythroblasti in hepate toto	Erythroblasts throughout liver
<b>E7.1.1.1.1.0.31</b>	Megakaryocytus in hepate	Megakaryocytes in liver
<b>E7.1.1.1.1.0.33</b>	Macroblasti numerosi in sanguine	Numerous circulating macroblasts
<b>E7.1.1.1.1.0.34</b>	Lymphocytus T in sanguine	Circulating T lymphocytes
<b>E7.1.1.1.2.0.28</b>	Plurimi lymphocytus T in thymo	T lymphocytes in thymus more numerous

<sup>430</sup> E7.1.1.1.2.0.20 *Endocrinocytus β, α, δ et PP solitarii partis endocrini pancreatis* The first endocrine cells of the pancreas develop before the pancreatic islets form Pro-insulin and the C-peptide required for its cleavage and thus the release of insulin can be demonstrated at this stage.



<b>E7.1.1.1.2.0.29</b>	Nodi lymphoidei bronchopulmonales, ileocolici, pelvici et inguinales	Bronchopulmonary, ileocolic, pelvic and inguinal lymph nodes
	<i>Neuralia et sensoria</i>	<i>Neural and senses</i>
<b>E5.14.3.1.6.0.12</b>	Eversio cerebelli	Eversion of cerebellum
<b>E5.16.3.1.1.1.43</b>	Stratum plexiforme internum retinae	Inner plexiform layer of retina
<b>E7.1.1.1.2.0.30</b>	Stratum ganglionare multipolare retinae	Ganglionic layer of retina
<b>E5.16.3.1.1.1.45</b>	Neuron ganglionare multipolare retinae	Retinal ganglion cell
<b>E7.1.1.1.2.0.31</b>	Scala tympani	Scala tympani
	<i>Cutanea</i>	<i>Cutaneous</i>
<b>E7.1.1.1.1.0.39</b>	Epithelium superficiale corporis trilaminare	Three-layered body surface epithelium
<b>E7.1.1.1.2.0.32</b>	Projectiones globulares peridermales	Globular peridermal projections
<b>E7.1.1.1.3.0.1</b>	<b>Fetus hebdomadis undecimae</b> <sup>431</sup>	<b>Eleventh week fetus</b> 10-11 weeks ~60mm GL ~30g
	<i>Generalia</i>	<i>General</i>
<b>E7.1.1.1.3.0.2</b>	Motus suctionis et glutitionis <sup>432</sup>	Sucking and swallowing movements
<b>E7.1.1.1.3.0.3</b>	Flexura capitis circa gradum octo	Head flexion on trunk about 8°
<b>E7.1.1.1.3.0.4</b>	Responsum palmare flexorium	Palmar flexor response
<b>E7.1.1.1.3.0.5</b>	Responsum plantare flexorium	Plantar flexor response
<b>E7.1.1.1.3.0.6</b>	Formatio pontis nasi	Formation of nasal bridge
	<i>Alimentaria</i>	<i>Alimentary</i>
<b>E7.1.1.1.1.0.11</b>	Formatio palati secundarii	Formation of secondary palate
<b>E7.1.1.1.3.0.7</b>	Plexus nervosus myentericus oesophagi	Myenteric plexus of oesophagus §Auerbach§
<b>E7.1.1.1.3.0.8</b>	Mucocyti superficiales, exocrinocyti cervicales et exocrinocyti principales gastris	Superficial mucous cells, gland neck cells and principal cells of stomach
<b>E5.4.5.0.1.4.1</b>	Sphincter pylori	Pyloric sphincter
<b>E7.1.1.1.3.0.9</b>	Gemmae cryptae cum luminibus intestini tenuis	Crypt buds of small intestine with lumina
<b>E5.4.6.0.1.3.4</b>	Cellula panethensis; Exocrinocytus cum granulis acidophilis	Paneth cell §Paneth§
<b>E7.1.1.1.3.0.10</b>	Cryptae et villi appendicis vermiformis	Crypts and villi of appendix
<b>E7.1.1.1.3.0.11</b>	Plicae epitheliales longitudinales coli	Longitudinal epithelial folds of colon
<b>E7.1.1.1.3.0.12</b>	Tubuli glandulae mucosae vesicae biliaris	Tubules of mucous glands of gallbladder
<b>E7.1.1.1.3.0.13</b>	Contractiones gastris	Contractions of stomach
	<i>Respiratoria</i>	<i>Respiratory</i>
<b>E5.5.1.0.0.0.13</b>	Septum nasi	Nasal septum
<b>E5.5.1.0.1.0.3</b>	Sulcus sinus maxillaris	Sulcus of maxillary sinus
<b>E5.5.3.0.2.0.1</b>	Tempus pseudoglandulare pulmonis	Pseudoglandular period of lung
<b>E5.5.3.0.2.0.11</b>	Pneumocytus typi II	Type II pneumocyte
	<i>Urogenitalia</i> <sup>433</sup>	<i>Urogenital</i>
<b>E7.0.1.16.0.0.16</b>	Bifurcatio aliarum ampullarum uretericarum in blastemati metanephrogenico	Further bifurcation of ureteric ampullae in metanephrogenic blastema
<b>E7.1.1.1.3.0.14</b>	Conjunctio tubulorum metanephricorum cum tubulis colligentibus	Fusion of metanephric tubules with collecting tubules
<b>E5.7.3.0.4.0.1</b>	Bulbus sinuvaginalis	Sinuvaginal bulb
	<i>Endocrina</i>	<i>Endocrine</i>
<b>E7.1.1.1.3.0.15</b>	Cytodifferentiatio neurohypophysis	Cytodifferentiation of neurohypophysis
	<i>Haematolymphoidea</i>	<i>Haematolymphoid</i> <sup>▲</sup>
<b>E7.1.1.1.2.0.25</b>	Haemangiogenesis in vesicula umbilicale decrescens; Haemangiogenesis in sacco vitellino decrescens	Umbilical vesicle haemangiogenesis diminishing <sup>▲</sup> ; Yolk sac haemangiogenesis diminishing <sup>▲</sup>
<b>E7.1.1.1.2.0.26</b>	Expansio haematopoiesis hepaticae	Hepatic haematopoiesis extensive <sup>▲</sup>
<b>E7.1.1.1.3.0.16</b>	Deminutio macroblastorum in sanguine	Circulating macroblasts decreasing
<b>E7.1.1.1.3.0.17</b>	Granulocyti immaturi in sanguine	Circulating immature granulocytes
<b>E7.1.1.1.1.0.34</b>	Lymphocyti T in sanguine	Circulating T lymphocytes
<b>E7.1.1.1.2.0.28</b>	Plurimi lymphocyti T in thymo	T lymphocytes in thymus more numerous

<sup>431</sup> E7.1.1.1.3.0.1 *Fetus hebdomadis undecimae* The *eleventh week fetus* is between 10 and 11 weeks old, is about 60mm long [GL], weighs about 30 g and exhibits the features listed.

<sup>432</sup> E7.1.1.1.3.0.2 *Motus suctionis et glutitionis* In *Sucking and swallowing movements*, "rhythmical bursts of jaw opening and closing at a rate of about one per second may be followed by swallowing, indicating that the fetus is drinking amniotic fluid. Swallowing consists of displacements of the tongue and/or larynx" (de Vries JIP, Visser GHA, Precht HFR, The emergence of fetal behaviour. I. Quantitative aspects. *Early Human Development* 1982;7:301-322).

<sup>433</sup> *Urogenitalia* In the eleventh week fetus substantial amounts of urine are passed into the amniotic cavity.

<b>E7.1.1.1.3.0.18</b>	Lymphocyti T in medulla ossium	T lymphocytes in bone marrow
	<i>Cutanea</i>	<i>Cutaneous</i>
<b>E7.1.1.1.1.0.39</b>	Epithelium superficiale corporis trilaminare	Three-layered body surface epithelium
<b>E7.1.1.1.2.0.32</b>	Projectiones globulares peridermales	Globular peridermal projections
<b>E7.1.1.1.4.0.1</b>	<b>Fetus hebdomadis duodecimae</b> <sup>434</sup>	<b>Twelfth week fetus</b> 11-12 weeks ~75mm GL ~50g
	<i>Generalia</i>	<i>General</i>
<b>E7.1.1.1.4.0.2</b>	Motus rotationis fetus <sup>435</sup>	Rotational movements of the fetus
<b>E7.1.1.1.4.0.3</b>	Flexura parva capitis	Slight flexion of head on trunk
<b>E7.1.1.1.4.0.4</b>	Cutis paenetota sensibilis tactui	Most skin sensitive to touch
<b>E7.1.1.1.4.0.5</b>	Reflexus sardonicus	Sneer reflex
<b>E7.1.1.1.4.0.6</b>	Reflexus occlusionis labiorum	Lip closure reflex
<b>E7.1.1.1.4.0.7</b>	Oscitatio	Mouth opening
<b>E7.1.1.1.4.0.8</b>	Glutitio	Swallowing
<b>E7.1.1.1.4.0.9</b>	Halitus	Gasping
<b>E7.1.1.1.4.0.10</b>	Centra ossificationis primaria calcanei	Primary ossification centres for calcaneus <sup>▲</sup>
<b>E7.1.1.1.4.0.11</b>	Myotubuli in omnibus musculis	Myotubes in all skeletal muscles
<b>E7.1.1.1.4.0.12</b>	Completio buccarum	Completion of cheeks
<b>E7.1.1.1.4.0.13</b>	Obliteratio coelomata umbilicalis	Obliteration of umbilical coelom <sup>▲</sup>
	<i>Alimentaria</i>	<i>Alimentary</i>
<b>E7.1.1.1.4.0.14</b>	Encapsulatio organi juxtaoralis	Encapsulation of juxta-oral organ
<b>E7.1.1.1.4.0.15</b>	Formatio exophytica juxtaoralis	Juxta-oral exophytic formation
<b>E7.1.1.1.4.0.16</b>	Completio conjunctionis processuum palatinorum cum septo nasi	Completion of fusion between palatal shelves and nasal septum
<b>E5.4.6.0.1.3.6</b>	Glandula submucosa duodenalis	Duodenal submucosal gland §Brunner§
<b>E7.1.1.1.4.0.17</b>	Ramificatio cryptarum intestini tenuis	Branching of crypts of small intestine
<b>E5.4.9.0.3.0.12</b>	Taeniae coli	Taeniae coli <sup>▲</sup>
<b>E7.1.1.1.4.0.18</b>	Stratum longitudinale tunicae muscularis recti	Longitudinal muscle coat of rectum
<b>E7.1.1.1.4.0.19</b>	Acini exocrii pancreatis	Pancreatic exocrine acini
<b>E7.1.1.1.4.0.20</b>	Guttula glycogeni et adipis in hepatocytis	Glycogen and lipid droplets in hepatocytes
	<i>Respiratoria</i>	<i>Respiratory</i>
<b>E7.1.1.1.4.0.21</b>	Prominentiae concharum nasalium	Prominences of nasal conchae
<b>E7.1.1.1.4.0.22</b>	Sulci sinuum maxillarium et cellularum ethmoidalium	Sulci of maxillary sinus and ethmoidal cells
<b>E5.5.3.0.2.0.1</b>	Tempus pseudoglandulare pulmonis	Pseudoglandular period of lung
<b>E5.5.3.0.3.0.4</b>	Pneumocytus typi I	Type I pneumocyte
	<i>Urogenitalia</i>	<i>Urogenital</i>
<b>E7.0.1.16.0.0.16</b>	Bifurcatio aliarum ampullarum uretericarum in blastemati metanephrogenico	Further bifurcation of ureteric ampullae in metanephrogenic blastema
<b>E7.1.1.1.3.0.14</b>	Conjunctio tubulorum metanephricorum cum tubulis colligentibus	Fusion of metanephric tubules with collecting tubules
<b>E7.1.1.1.4.0.23</b>	Approximatio gonadarum ad aperturam superiorem pelvis	Gonad approaching pelvic brim
<b>E7.1.1.1.4.0.24</b>	Processus vaginalis peritonei incipiens	Incipient vaginal process of peritoneum
<b>E7.1.1.1.4.0.25</b>	Primordium glandulae vesiculosae; Primordium glandulae seminalis; Primordium vesiculae seminalis	Primordium of seminal gland; Primordium of seminal vesicle
<b>E7.1.1.1.4.0.26</b>	Primordia gemmarum prostatae	Primordia of prostatic buds
	<i>Endocrina</i>	<i>Endocrine</i>
<b>E7.1.1.1.4.0.27</b>	Endocrinocytus prolactinici partis distalis adenohipophysys	Prolactin cell of pars distalis of adenohipophysys
<b>E7.1.1.1.4.0.28</b>	Vasopressinum et oxytocinum in neurohypophyse	Vasopressin and oxytocin in neurohypophysys
<b>E7.1.1.1.4.0.29</b>	Crescentia folliculorum thyroideorum	Growth of thyroid follicles

<sup>434</sup> E7.1.1.1.4.0.1 *Fetus hebdomadis duodecimae* The *twelfth week fetus* is between 11 and 12 weeks old, is about 75mm long [GL], weighs about 50 g and exhibits the features listed.

<sup>435</sup> E7.1.1.1.4.0.2 *Motus rotationis fetus* *Rotational movements of the fetus* "occur around [its] sagittal or transverse axis. A complete change in position around the transverse axis, usually with a backward somersault, is achieved by a complex general movement, including alternating leg movements which resemble neonatal stepping. Rotation around the longitudinal axis can either be the result of leg movements with hip rotation, or result from rotation of the head, followed by trunk rotation" (de Vries JIP, Visser GHA, Precht HFR, The emergence of fetal behaviour. I. Quantitative aspects. Early Human Development 1982;7:301-322).

	<i>Cardiovascularia</i>	<i>Cardiovascular</i>
<b>E7.1.1.1.4.0.30</b>	Primordia tunicarum vasorum sanguineorum	Primordia of tunicae of blood vessels
	<i>Haematolymphoidea</i>	<i>Haematolymphoid</i> <sup>▲</sup>
<b>E7.1.1.1.4.0.31</b>	Haemangiogenesis vesiculae umbilicalis minima; Haemangiogenesis sacci vitellini minima	Umbilical vesicle haemangiogenesis minimal <sup>▲</sup> ; Yolk sac haemangiogenesis minimal <sup>▲</sup>
<b>E7.1.1.1.4.0.32</b>	Superantia haematopoiesis hepaticae	Hepatic haematopoiesis predominant <sup>▲</sup>
<b>E7.1.1.1.4.0.33</b>	Haematopoiesis in medulla ossium	Haematopoiesis in bone marrow; Intramedullary haematopoiesis <sup>▲</sup>
<b>E7.1.1.1.4.0.34</b>	Lymphocyti T, B et nulli in medulla ossium	T, B and null lymphocytes in bone marrow
<b>E7.1.1.1.4.0.35</b>	Deminutio rapida erythroblastorum in sanguine	Number of circulating macroblasts decreasing precipitously
<b>E7.1.1.1.4.0.36</b>	Incrementum normoblastorum in sanguine	Number of circulating normoblasts increasing
<b>E7.1.1.1.4.0.37</b>	Deminutio erythroblastorum in sanguine	Erythroblasts in blood decreasing
<b>E7.1.1.1.4.0.38</b>	Deminutio amplitudinis corpuscularis mediae	Mean corpuscular volume [MCV] decreasing
<b>E7.1.1.1.4.0.39</b>	Haemoglobina fetalis subiens embryonicam	Fetal haemoglobins replacing embryonic haemoglobins <sup>▲</sup>
<b>E7.1.1.1.3.0.17</b>	Granulocyti immaturi in sanguine	Circulating immature granulocytes
<b>E7.1.1.1.4.0.40</b>	Lymphocyti B in sanguine	Circulating B lymphocytes
<b>E7.1.1.1.4.0.41</b>	Acervationes lymphocytorum in splene; Acervationes lymphocytorum in liene	Lymphocyte aggregates in spleen
<b>E7.1.1.1.4.0.42</b>	Lymphocyti T numerosi in thymo	Numerous T lymphocytes in thymus
<b>E7.1.1.1.4.0.43</b>	Cortex et medulla thymi	Cortex and medulla of thymus
<b>E5.12.1.2.2.0.10</b>	Corpuscula thymica	Thymic corpuscles §Hassall§
<b>E7.1.1.1.4.0.44</b>	Cellulae interdigitantes medullae thymi	Interdigitating cells in medulla of thymus
<b>E5.12.2.5.0.0.8</b>	Fossula tonsillae	Tonsillar pit
	<i>Neuralia et sensoria</i>	<i>Neural and senses</i>
<b>E5.14.2.0.0.1.26</b>	Intumescentia cervicalis	Cervical enlargement
<b>E5.14.2.0.0.1.25</b>	Intumescentia lumbosacralis	Lumbosacral enlargement
<b>E5.14.2.0.0.1.24</b>	Conus medullaris	Medullary cone
<b>E5.15.8.0.0.0.13</b>	Cauda equina	Cauda equina
<b>E5.13.2.0.0.4.7</b>	Filum terminale	Filum terminale; Terminal filum
<b>E5.14.3.1.6.0.19</b>	Fissura prima cerebelli	Primary fissure of cerebellum; Preclival fissure
<b>E7.1.1.1.4.0.45</b>	Phasis prima sexties stratificati cerebelli	First six layered phase of cerebellum
<b>E5.16.3.1.1.1.12</b>	Proneuron bacilliferum; Neuron immaturum bacilliferum	Rod cell proneuron; Immature rod cell
<b>E5.16.3.1.1.1.18</b>	Proneuron coniferum; Neuron immaturum coniferum	Cone cell proneuron; Immature cone cell
<b>E7.1.1.1.4.0.46</b>	Formatio foveae centralis retinae incipiens	Development of retinal fovea starts
	<i>Cutanea</i>	<i>Cutaneous</i>
<b>E7.1.1.1.1.0.39</b>	Epithelium superficiale corporis trilaminare	Three-layered body surface epithelium
<b>E7.1.1.1.2.0.32</b>	Projectiones globulares peridermales	Globular peridermal projections
<b>E7.1.1.1.5.0.1</b>	<b>Fetus hebdomadis tertiae decimae</b> <sup>436</sup>	<b>Thirteenth week fetus</b> 12-13 weeks ~90mm GL ~75g
	<i>Generalia</i>	<i>General</i>
<b>E7.1.1.1.4.0.2</b>	Motus rotationis fetus <sup>435</sup>	Rotational movements of the fetus
<b>E7.1.1.1.5.0.2</b>	Caput erectum	Head erect
<b>E7.1.1.1.5.0.3</b>	Reflexus contractionis corporalis imminutus	Reduced mass reflex
<b>E7.1.1.1.5.0.4</b>	Centra ossificationis primaria phalangium proximalium	Primary ossification centres for proximal phalanges <sup>▲</sup>
	<i>Alimentaria</i>	<i>Alimentary</i>
<b>E7.1.1.1.5.0.5</b>	Plicae circulares intestini tenuis	Circular folds of small intestine
<b>E7.1.1.1.5.0.6</b>	Exocrinocyti caliciformes appendicis vermiformis	Goblet cells of appendix
<b>E7.1.1.1.5.0.7</b>	Stratum longitudinale tunicae muscularis appendicis vermiformis	Longitudinal muscle coat of appendix
<b>E7.1.1.1.5.0.8</b>	Gemmae insulae pancreaticae	Pancreatic islet buds
	<i>Respiratoria</i>	<i>Respiratory</i>

<sup>436</sup> E7.1.1.1.5.0.1 *Fetus hebdomadis tertii decimae* The *thirteenth week fetus* is between 12 and 13 weeks old, is about 90mm long [GL], weighs about 75 g and exhibits the features listed.

<b>E7.1.1.1.5.0.9</b>	Sulci sinus maxillaris, cellularum ethmoidalium et sinus sphenoidalis	Sulci of maxillary sinus, ethmoidal cells and sphenoidal sinus
<b>E7.1.1.1.5.0.10</b>	Continuatio temporis pseudoglandularis pulmonis	Pseudoglandular period of lung continues
<b>E7.1.1.1.5.0.11</b>	Initium temporis canalicularis pulmonis	Canalicular period of lung begins
<b>E5.5.3.0.2.0.11</b>	Pneumocytus typi II	Type II pneumocyte
<b>E5.5.3.0.3.0.4</b>	Pneumocytus typi I	Type I pneumocyte
	<i>Urogenitalia</i>	<i>Urogenital</i>
<b>E7.0.1.16.0.0.16</b>	Bifurcatio aliarum ampullarum uretericarum in blastemati metanephrogenico	Further bifurcation of ureteric ampullae in metanephrogenic blastema
<b>E7.1.1.1.3.0.14</b>	Conjunctio tubulorum metanephricorum cum tubulis colligentibus	Fusion of metanephric tubules with collecting tubules
<b>E7.1.1.1.5.0.12</b>	Cortex et medulla renalis	Renal cortex and medulla
<b>E7.1.1.1.5.0.13</b>	Gonadae juxta aperturam superiorem pelvis	Gonads near pelvic brim
<b>E7.1.1.1.5.0.14</b>	Processus vaginalis peritonei	Vaginal process of peritoneum
<b>E5.7.3.0.4.0.2</b>	Lamina vaginae	Vaginal plate
<b>E7.1.1.1.5.0.15</b>	Differentiatio glandulae vesiculosae; Differentiatio glandulae seminalis; Differentiatio vesiculae seminalis	Seminal gland differentiating; Seminal vesicle differentiating
<b>E7.1.1.1.5.0.16</b>	Differentiatio gemmarum prostatae	Prostatic buds differentiating
	<i>Cardiovascularia</i>	<i>Cardiovascular</i>
<b>E7.1.1.1.5.0.17</b>	Differentiatio tunicarum vasorum sanguineorum	Layers of blood vessel walls differentiating
	<i>Haematolymphoidea</i>	<i>Haematolymphoid</i> <sup>▲</sup>
<b>E7.1.1.1.4.0.32</b>	Superantia haematopoiesis hepaticae	Hepatic haematopoiesis predominant <sup>▲</sup>
<b>E7.1.1.1.5.0.18</b>	Incrementum haematopoiesis in medulla ossium	Haematopoiesis in bone marrow increasing <sup>▲</sup> ; Medullary haematopoiesis increasing <sup>▲</sup>
<b>E7.1.1.1.4.0.37</b>	Deminutio erythroblastorum in sanguine	Erythroblasts in blood decreasing
<b>E7.1.1.1.5.0.19</b>	Superantia normoblastorum in sanguine commentium postea	Circulating normoblasts predominant hereafter
<b>E7.1.1.1.3.0.17</b>	Granulocyti immaturi in sanguine	Circulating immature granulocytes
<b>E7.1.1.1.5.0.20</b>	Lymphocyti B et T in sanguine	Circulating B and T lymphocytes
<b>E7.1.1.1.5.0.21</b>	Lymphocyti T plurimi in thymo	Very numerous T lymphocytes in thymus
<b>E7.1.1.1.5.0.22</b>	Immigratio blastorum cellularum interdigitantium nodi lymphoidei	Immigration of blast cells of interdigitating cells of lymph node
<b>E5.4.2.0.0.1.9</b>	Cryptae tonsillae	Tonsillar crypts
<b>E5.12.2.4.1.0.9</b>	Lobulatio splenis	Lobulation of spleen
<b>E7.1.1.1.5.0.23</b>	Arteriola centralis splenis	Central arteriole of spleen
	<i>Neuralia et sensoria</i>	<i>Neural and senses</i>
<b>E7.1.1.1.5.0.24</b>	Myelinisatio in medulla spinale incipiens	Myelination in spinal cord beginning
<b>E7.1.1.1.5.0.25</b>	Expansio intumescens cervicalis	Expansion of cervical enlargement
<b>E7.1.1.1.5.0.26</b>	Expansio intumescens lumbosacralis	Expansion of lumbosacral enlargement
<b>E5.14.3.1.6.0.20</b>	Fissura secunda cerebelli	Secondary fissure of cerebellum; Postpyramidal fissure
<b>E7.1.1.1.4.0.45</b>	Phasis prima sexties stratificati cerebelli	First six layered phase of cerebellum
<b>E7.1.1.1.5.0.27</b>	Phasis zonarum sex differentiationis corticis cerebri <sup>437</sup>	Six-zone phase of differentiation of cerebral cortex
<b>E7.1.1.1.5.0.28</b>	Glioblastus radialis retinae	Radial glioblast of retina
<b>E7.1.1.1.5.0.29</b>	Neuron amacrinum retinae	Amacrine cell of retina
<b>E7.1.1.1.5.0.30</b>	Neuron bipolare retinae	Bipolar cell of retina
<b>E5.16.3.1.4.0.29</b>	Sinus venosus sclerae	Scleral venous sinus
<b>E7.1.1.1.5.0.31</b>	Lamina limitans corneae posterior	Posterior limiting lamina of cornea
<b>E7.1.1.1.5.0.32</b>	M. sphincter pupillae	Sphincter pupillae
<b>E7.1.1.1.5.0.33</b>	Vagina bulbi	Fascial sheath of eyeball
<b>E7.1.1.1.5.0.34</b>	Meatus acusticus externus obturatus	Plugged external acoustic meatus
<b>E7.1.1.1.5.0.35</b>	Membrana tympanica praesumptiva	Presumptive tympanic membrane
<b>E7.1.1.1.5.0.36</b>	Epithelium tubotympanicum vestiens ossicula et chordam tympani	Tubotympanic epithelium envelops ossicles and chorda tympani
<b>E7.1.1.1.5.0.37</b>	Scala vestibuli	Scala vestibuli
	<i>Cutanea</i>	<i>Cutaneous</i>
<b>E7.1.1.1.5.0.38</b>	Epithelium superficiale corporis multilaminare	Multi-layered body surface epithelium
<b>E7.1.1.1.2.0.32</b>	Projectiones globulares peridermales	Globular peridermal projections

<sup>437</sup> E7.1.1.1.5.0.27 Phasis zonarum sex differentiationis corticis cerebri The cytoarchitecture of the neopallium does not have the adult pattern until 32 weeks.

<b>E2.0.1.3.0.0.4</b>	<b>TEMPUS FETALE INTERMEDIUM; FETUS TRIMESTRI SECUNDI</b>	<b>INTERMEDIATE FETAL PERIOD; SECOND TRIMESTER FETUS</b>
<b>E7.1.1.2.1.0.1</b>	<b>Fetus hebdomadis sextae decimae</b> <sup>438</sup>	<b>Sixteenth week fetus</b> 15-16 weeks ~135mm GL ~200g
	<i>Generalia</i>	<i>General</i>
<b>E7.1.1.1.4.0.2</b>	Motus rotationis fetus <sup>435</sup>	Rotational movements of the fetus
<b>E7.1.1.2.1.0.2</b>	Lanugo capitis	Lanugo on head
<b>E7.1.1.2.1.0.3</b>	Reflexus praehensionis	Grasp reflex
<b>E7.1.1.2.1.0.4</b>	Canaliculi et saccus lacrimalis et ductus nasolacrimalis maturi	Mature lacrimal sac and canaliculi and nasolacrimal duct
<b>E7.1.1.2.1.0.5</b>	Adventus unguium pedis	Appearance of toe nails
<b>E7.1.1.2.1.0.6</b>	Adventus adipis fusci	Appearance of brown fat
<b>E7.1.1.2.1.0.7</b>	Centrum ossificationis primarium ischii	Primary ossification centre for ischium <sup>▲</sup>
<b>E7.1.1.2.1.0.8</b>	Primordia tonsillarum	Primordia of tonsils
	<i>Alimentaria</i>	<i>Alimentary</i>
<b>E7.1.1.2.1.0.9</b>	Lamina muscularis mucosae gastris	Muscularis mucosae of stomach
<b>E7.1.1.2.1.0.10</b>	Lamina muscularis mucosae recti	Muscularis mucosae of rectum
<b>E7.1.1.2.1.0.11</b>	Epitheliocytus penicillatus intestini tenuis	Brush cell of small intestine; Tuft cell of small intestine
<b>E7.1.1.2.1.0.12</b>	Enterocytus intestini tenuis cum limbo microvillosus	Enterocyte of small intestine with microvillous border; Enterocyte of small intestine with brush border
<b>E7.1.1.2.1.0.13</b>	Noduli lymphoidei solitarii intestini tenuis	Solitary lymphoid nodules of small intestine
<b>E7.1.1.2.1.0.14</b>	Noduli lymphoidei aggregati submucosi intestini tenuis	Aggregated lymphoid nodules of small intestine §Peyer§
<b>E7.1.1.2.1.0.15</b>	Textus lymphoideus appendicis vermiformis	Lymphoid tissue of appendix
<b>E7.1.1.2.1.0.16</b>	Portio terminalis glandulae mucosae vesicae biliaris	Terminal part of mucous gland of gallbladder
	<i>Respiratoria</i>	<i>Respiratory</i>
<b>E7.1.1.2.1.0.17</b>	Sulci sinus maxillaris, cellularum ethmoidalium et sinuum sphenoidalis frontalisque	Sulci of maxillary sinus, ethmoidal cells and sphenoidal and frontal sinuses
<b>E7.1.1.2.1.0.18</b>	Finis temporis pseudoglandularis pulmonis	Pseudoglandular period of lung ends
<b>E7.1.1.2.1.0.19</b>	Continuatio temporis canalicularis pulmonis	Canalicular period of lung continues
<b>E5.5.3.0.2.0.11</b>	Pneumocytus typi II	Type II pneumocyte
<b>E5.5.3.0.3.0.4</b>	Pneumocytus typi I	Type I pneumocyte
	<i>Urogenitalia</i>	<i>Urogenital</i>
<b>E7.0.1.16.0.0.16</b>	Bifurcatio aliarum ampullarum uretericarum in blastemati metanephrogenico	Further bifurcation of ureteric ampullae in metanephrogenic blastema
<b>E7.1.1.1.3.0.14</b>	Conjunctio tubulorum metanephricorum cum tubulis colligentibus	Fusion of metanephric tubules with collecting tubules
<b>E7.1.1.1.5.0.13</b>	Gonadae juxta aperturam superiorem pelvis	Gonads near pelvic brim
<b>E7.1.1.1.5.0.14</b>	Processus vaginalis peritonei	Vaginal process of peritoneum
<b>E7.1.1.2.1.0.20</b>	Folliculi primordiales in ovario	Primordial follicles in ovary
<b>E7.1.1.2.1.0.21</b>	Uterus	Uterus
<b>E5.7.3.0.4.0.3</b>	Vagina	Vagina
<b>E7.1.1.2.1.0.22</b>	Glandula vesiculosa; Glandula seminalis; Vesicula seminalis	Seminal gland; Seminal vesicle
<b>E7.1.1.1.5.0.16</b>	Differentiatio gemmarum prostatae	Prostatic buds differentiating
	<i>Endocrina</i>	<i>Endocrine</i>
<b>E7.1.1.2.1.0.23</b>	Endocrinocytus corticotropicus partis intermediae adenohipophys	Corticotropic cell of pars intermedia of adenohipophys
<b>E4.0.3.5.0.3.22</b>	Thyrocytus C	C thyrocyte; C cell; Parafollicular cell
<b>E7.1.1.2.1.0.24</b>	Secretio medullae suprarenalis	Secretion of suprarenal medulla
	<i>Haematolymphoidea</i>	<i>Haematolymphoid</i> <sup>▲</sup>
<b>E7.1.1.1.4.0.32</b>	Superantia haematopoiesis hepaticae	Hepatic haematopoiesis predominant <sup>▲</sup>
<b>E7.1.1.1.5.0.18</b>	Incrementum haematopoiesis in medulla ossium	Haematopoiesis in bone marrow increasing <sup>▲</sup> ; Medullary haematopoiesis increasing <sup>▲</sup>
<b>E7.1.1.1.3.0.17</b>	Granulocytus immaturi in sanguine	Circulating immature granulocytes

<sup>438</sup> E7.1.1.2.1.0.1 *Fetus hebdomadis sextae decimae* The sixteenth week fetus is between 15 and 16 weeks old, is about 135mm long [GL], weighs about 200 g and exhibits the features listed.

<b>E7.1.1.2.1.0.25</b>	Incrementum lymphocytum B et T in sanguine	Circulating B and T lymphocytes increasing
<b>E7.1.1.1.5.0.21</b>	Lymphocytum T plurimum in thymo	Very numerous T lymphocytes in thymus
<b>E7.1.1.2.1.0.26</b>	Cortex et medulla nodorum lymphoideorum	Cortex and medulla of lymph nodes
<b>E7.1.1.2.1.0.27</b>	Zonae thymodependentes nodorum lymphoideorum	Thymus-dependent zones of lymph nodes
<b>E7.1.1.2.1.0.28</b>	Cellulae interdigitantes matura nodi lymphoidei	Mature interdigitating cells of lymph node
<b>E7.1.1.2.1.0.29</b>	Cellulae dendriticae nodulares nodi lymphoidei	Nodular dendritic cells of lymph node
<b>E7.1.1.2.1.0.30</b>	Nodi lymphoidei poplitei, cubitales, mesenterici et gastromentales	Primary popliteal, cubital, mesenteric and gastro-omental lymphoid nodes
<b>E7.1.1.2.1.0.31</b>	Immigratio lymphocytorum B et T in pulpas praesumptivas rubras et albas splenis	Immigration of B and T lymphocytes into presumptive red and white pulps of spleen
<b>E7.1.1.2.1.0.32</b>	Noduli lymphoidei primarii tonsillarum palatinarum	Primary lymphoid nodules of palatine tonsils
	<i>Neuralia et sensoria</i>	<i>Neural and senses</i>
<b>E7.1.1.2.1.0.33</b>	Initium myelinisationis in radicibus ventralibus; Initium myelinisationis in radicibus motorii	Myelination in ventral roots begins; Myelination in motor roots begins
<b>E7.1.1.2.1.0.34</b>	Phasis secunda sexies stratificati cerebelli <sup>439</sup>	Second six-layered phase of cerebellum
<b>E7.1.1.1.5.0.27</b>	Phasis zonarum sex differentiationis corticis cerebri <sup>437</sup>	Six-zone phase of differentiation of cerebral cortex
<b>E7.1.1.2.1.0.35</b>	Neuron bacilliferum immaturum	Immature rod cell
<b>E7.1.1.2.1.0.36</b>	Neuron coniferum immaturum	Immature cone cell
<b>E7.1.1.2.1.0.37</b>	Fovea centralis retinae constituta	Fovea centralis retinae established
<b>E7.1.1.2.1.0.38</b>	Membrana tectoria ductus cochlearis	Tectorial membrane of cochlear duct
	<i>Cutanea</i>	<i>Cutaneous</i>
<b>E7.1.1.1.5.0.38</b>	Epithelium superficiale corporis multilaminare	Multi-layered body surface epithelium
<b>E7.1.1.1.2.0.32</b>	Projectiones globulares peridermales	Globular peridermal projections
<b>E7.1.1.2.1.0.39</b>	Cristae dermales cutis manus	Dermal ridges of hand
<b>E5.17.1.0.1.0.10</b>	Glandulae sudoriferae	Sweat glands
<b>E5.17.1.0.3.0.6</b>	Glandulae sebaceae	Sebaceous glands
<b>E7.1.1.2.2.0.1</b>	<b>Fetus hebdomadis vicesimae<sup>440</sup></b>	<b>Twentieth week fetus</b> 19-20 weeks ~185mm GL ~450g
	<i>Generalia</i>	<i>General</i>
<b>E7.1.1.1.4.0.2</b>	Motus rotationis fetus <sup>435</sup>	Rotational movements of the fetus
<b>E7.1.1.2.2.0.2</b>	Lanugo corporis	Lanugo on body
<b>E7.1.1.2.2.0.3</b>	Initium vernicis caseosae	Vernix caseosa beginning
<b>E7.1.1.2.2.0.4</b>	Reflexus protrusionis labiorum	Lip protrusion reflex
<b>E7.1.1.2.2.0.5</b>	Reflexus sufflationis labiorum	Lip pursing reflex
<b>E7.1.1.2.2.0.6</b>	Parvae contractiones thoracis	Weak chest contractions
<b>E7.1.1.2.2.0.7</b>	Reflexus abdominalis	Abdominal reflex
<b>E7.1.1.2.2.0.8</b>	Centrum ossificationis primarium pubis	Primary ossification centre for pubis <sup>▲</sup>
<b>E7.1.1.2.2.0.9</b>	Myofibrae in omnibus musculis	Myofibres in all muscles <sup>▲</sup>
	<i>Alimentaria</i>	<i>Alimentary</i>
<b>E7.1.1.2.2.0.10</b>	Epithelium squamosum stratificatum non cornificatum oesophagi	Nonkeratinized stratified squamous epithelium in oesophagus <sup>▲</sup>
<b>E7.1.1.2.2.0.11</b>	Insulae epithelii ciliati oesophagi	Islands of ciliated epithelium in oesophagus <sup>▲</sup>
<b>E7.1.1.2.2.0.12</b>	Ramificatio glandularum gastricarum propriarum	Branching of gastric glands proper
<b>E7.1.1.2.2.0.13</b>	Glandulae cardiales	Cardial glands
<b>E7.1.1.2.2.0.14</b>	Endocrinocytum G in gastre	Gastrin-producing cells in stomach
<b>E7.1.1.2.2.0.15</b>	Lamina muscularis mucosae intestini tenuis	Muscularis mucosae of small intestine
<b>E7.1.1.2.2.0.16</b>	Lamina muscularis mucosae appendicis vermiformis	Muscularis mucosae of appendix
<b>E7.1.1.2.2.0.17</b>	Cellulae panethenses transientes appendicis vermiformis	Transient paneth cells of appendix
<b>E5.4.6.0.1.3.8</b>	Epitheliocytus microplicatus	Microfold cell; M cell; Dome epithelial cell
<b>E7.0.1.19.0.0.12</b>	Lamina muscularis mucosae coli	Muscularis mucosae of colon
<b>E7.1.1.2.2.0.18</b>	Defectio villorum recti	Villi disappearing from rectum

<sup>439</sup> E7.1.1.2.1.0.34 *Phasis secunda sexies stratificati cerebelli* The second variety of six-layered phases of histogenesis of the cerebellum (q.v.) persists until near the end of the second postnatal year, when the external germinal layer disappears.

<sup>440</sup> E7.1.1.2.2.0.1 *Fetus hebdomadis vicesimae* The *twentieth week fetus* is between 19 and 20 weeks old, is about 185mm long [GL], weighs about 450g and exhibits the features listed.

	<i>Respiratoria</i>	<i>Respiratory</i>
<b>E7.1.1.2.1.0.17</b>	Sulci sinus maxillaris, cellularum ethmoidalium et sinuum sphenoidalis frontalisque	Sulci of maxillary sinus, ethmoidal cells and sphenoidal and frontal sinuses
<b>E7.1.1.2.1.0.19</b>	Continuatio temporis canalicularis pulmonis	Canalicular period of lung continues
<b>E5.5.3.0.2.0.11</b>	Pneumocytus typi II	Type II pneumocyte
<b>E5.5.3.0.3.0.4</b>	Pneumocytus typi I	Type I pneumocyte
	<i>Urogenitalia</i>	<i>Urogenital</i>
<b>E7.0.1.16.0.0.16</b>	Bifurcatio aliarum ampullarum uretericarum in blastemati metanephrogenico	Further bifurcation of ureteric ampullae in metanephrogenic blastema
<b>E7.1.1.1.3.0.14</b>	Conjunctio tubulorum metanephricorum cum tubulis colligentibus	Fusion of metanephric tubules with collecting tubules
<b>E7.1.1.2.2.0.19</b>	Ovarium juxta aperturam superiorem pelvis	Ovary near pelvic brim
<b>E7.1.1.2.2.0.20</b>	Oocyti primarii septuagies centena millia	Seven million primary oocytes
<b>E7.1.1.2.2.0.21</b>	Testis juxta anulum inguinalem profundum	Testis at deep inguinal ring
<b>E7.1.1.1.5.0.14</b>	Processus vaginalis peritonei	Vaginal process of peritoneum
	<i>Haematolymphoidea</i>	<i>Haematolymphoid</i> <sup>▲</sup>
<b>E7.1.1.2.2.0.22</b>	Deminutio haematopoiesis in hepate	Hepatic haematopoiesis decreasing <sup>▲</sup>
<b>E7.1.1.1.5.0.18</b>	Incrementum haematopoiesis in medulla ossium	Haematopoiesis in bone marrow increasing <sup>▲</sup> ; Medullary haematopoiesis increasing <sup>▲</sup>
<b>E7.1.1.1.3.0.17</b>	Granulocytii immaturi in sanguine	Circulating immature granulocytes
<b>E7.1.1.2.2.0.23</b>	Lymphocytii numerosi in sanguine <sup>441</sup>	Numerous circulating lymphocytes
<b>E7.1.1.1.5.0.21</b>	Lymphocytii T plurimi in thymo	Very numerous T lymphocytes in thymus
<b>E7.1.1.2.2.0.24</b>	Regiones lymphocytorum B et T noduli lymphoidei	B and T lymphocyte regions of lymph node
<b>E7.1.1.2.2.0.25</b>	Accumulatio lymphocytorum circa arteriam centralem splenis	Accumulation of lymphocytes around central artery of spleen
	<i>Endocrina</i>	<i>Endocrine</i>
<b>E5.4.15.0.3.0.15</b>	Insula pancreatica initialis <sup>162</sup>	Early pancreatic islet
	<i>Neuralia et sensoria</i>	<i>Neural and senses</i>
<b>E5.14.3.1.6.0.21</b>	Fissura horizontalis cerebelli	Horizontal fissure of cerebellum; Great horizontal fissure
<b>E7.1.1.2.1.0.34</b>	Phasis secunda sexies stratificati cerebelli <sup>439</sup>	Second six-layered phase of cerebellum
<b>E7.1.1.1.5.0.27</b>	Phasis zonarum sex differentiationis corticis cerebri <sup>437</sup>	Six-zone phase of differentiation of cerebral cortex
<b>E7.1.1.2.2.0.26</b>	Primordia segmentorum externorum neuronorum bacilliferum et coniferum	Primordia of outer segments of rods and cones
<b>E7.1.1.2.2.0.27</b>	Neuron horizontale retinae	Horizontal cell of retina
<b>E7.1.1.2.2.0.28</b>	Stratum plexiforme externum retinae	Outer plexiform layer of retina
<b>E7.1.1.2.2.0.29</b>	Initium myelinisationis in radicibus dorsalibus; Myelinisationis in radicibus posterioribus	Myelination in dorsal roots begins; Myelination in posterior roots begins
	<i>Cutanea</i>	<i>Cutaneous</i>
<b>E7.1.1.1.5.0.38</b>	Epithelium superficiale corporis multilaminare	Multi-layered body surface epithelium
<b>E7.1.1.1.2.0.32</b>	Projectiones globulares peridermales	Globular peridermal projections
<b>E7.1.1.2.2.0.30</b>	Epidermis cornificans	Epidermis cornifying
<b>E7.1.1.2.2.0.31</b>	Toruli tactiles manus	Tactile elevations of hand; Epidermal ridges of hand
<b>E7.1.1.2.2.0.32</b>	Cristae cutis pedis	Dermal ridges of foot
<b>E7.1.1.2.2.0.33</b>	Primordia gemmarum glandulae mammariae	Primordia of mammary gland sprouts
<b>E7.1.1.2.3.0.1</b>	<b>Fetus hebdomadis vicesimae quartae</b> <sup>442</sup>	<b>Twenty-fourth week fetus</b> 23-24 weeks ~220mm GL ~900g
	<i>Generalia</i>	<i>General</i>
<b>E7.1.1.1.4.0.2</b>	Motus rotationis fetus <sup>435</sup>	Rotational movements of the fetus
<b>E5.17.1.0.3.0.7</b>	Vernix caseosa	Vernix caseosa
<b>E7.1.1.2.3.0.2</b>	Deminutio lanuginis	Lanugo decreasing

<sup>441</sup> E7.1.1.2.2.0.23 *Lymphocytii numerosii in sanguine* The number of lymphocytes in unit volume of blood increases to reach a plateau value by mid-gestation, while the number of neutrophils remains low until late gestation, when a dramatic increase in the number and proportion of mature neutrophils coincides with the selective trans-placental transfer of maternal antibodies. In due course the passive immunity conferred by maternal antibodies is replaced by active immunity conferred by antibodies synthesized by the infant. A relatively vulnerable period may intervene between the loss of passive immunity and the acquisition of active immunity which may be mitigated by the transfer of maternal antibodies via breast milk.

<sup>442</sup> E7.1.1.2.3.0.1 *Fetus hebdomadis vicesimae quartae* The *twenty-fourth week fetus* is between 23 and 24 weeks old, is about 220mm long [GL], weighs about 900g and exhibits the features listed.

<b>E7.1.1.2.3.0.3</b>	Centra ossificationis primaria tali et phalangium mediarum	Primary ossification centres for talus and middle phalanges <sup>▲</sup>
	<i>Respiratoria</i>	<i>Respiratory</i>
<b>E7.1.1.2.1.0.17</b>	Sulci sinus maxillaris, cellularum ethmoidalium et sinuum sphenoidalis frontalisque	Sulci of maxillary sinus, ethmoidal cells and sphenoidal and frontal sinuses
<b>E7.1.1.2.1.0.19</b>	Continuatio temporis canalicularis pulmonis	Canalicular period of lung continues
<b>E5.5.3.0.2.0.11</b>	Pneumocytus typi II	Type II pneumocyte
<b>E5.5.3.0.3.0.4</b>	Pneumocytus typi I	Type I pneumocyte
<b>E7.1.1.2.3.0.4</b>	Initium temporis saccularis pulmonis	Saccular period of lung beginning
<b>E7.1.1.2.3.0.5</b>	Initium secretionis surfactantis pulmonis	Secretion of pulmonary surfactant beginning
	<i>Urogenitalia</i>	<i>Urogenital</i>
<b>E7.0.1.16.0.0.16</b>	Bifurcatio aliarum ampullarum uretericarum in blastemati metanephrogenico	Further bifurcation of ureteric ampullae in metanephrogenic blastema
<b>E7.1.1.1.3.0.14</b>	Conjunctio tubulorum metanephricorum cum tubulis colligentibus	Fusion of metanephric tubules with collecting tubules
<b>E7.1.1.2.2.0.19</b>	Ovarium juxta aperturam superiorem pelvis	Ovary near pelvic brim
<b>E7.1.1.2.3.0.6</b>	Ingressio testis in anulum inguinalem profundum	Entry of testis into deep inguinal ring
<b>E7.1.1.1.5.0.14</b>	Processus vaginalis peritonei	Vaginal process of peritoneum
	<i>Haematolymphoidea</i>	<i>Haematolymphoid</i> <sup>▲</sup>
<b>E7.1.1.2.2.0.22</b>	Deminutio haematopoiesis in hepate	Hepatic haematopoiesis decreasing <sup>▲</sup>
<b>E7.1.1.1.5.0.18</b>	Incrementum haematopoiesis in medulla ossium	Haematopoiesis in bone marrow increasing <sup>▲</sup> ; Medullary haematopoiesis increasing <sup>▲</sup>
<b>E7.1.1.1.3.0.17</b>	Granulocytus immaturi in sanguine	Circulating immature granulocytes
<b>E7.1.1.2.3.0.7</b>	Lymphocytus in sanguine commeantes	Circulating lymphocyte number plateaus
<b>E7.1.1.1.5.0.21</b>	Lymphocytus T plurimi in thymo	Very numerous T lymphocytes in thymus
<b>E7.1.1.2.3.0.8</b>	Lymphocytus in splene; Lymphocytus in liene	Lymphocytes in spleen
<b>E7.1.1.2.3.0.9</b>	Regiones lymphocytorum B et T splenis	B and T lymphocyte regions of spleen
<b>E7.1.1.2.3.0.10</b>	Nodus lymphoideus splenis primarius	Primary lymphoid nodule of spleen
	<i>Endocrina</i>	<i>Endocrine</i>
<b>E5.4.15.0.3.0.16</b>	Insula pancreatica definitiva <sup>163</sup>	Definitive pancreatic islet
	<i>Neuralia et sensoria</i>	<i>Neural and senses</i>
<b>E7.1.1.2.3.0.11</b>	Conus medullaris ad vertebram sacralem primam [S1]	Conus medullaris at S1; Medullary cone at S1
<b>E7.1.1.2.1.0.34</b>	Phasis secunda sexies stratificati cerebelli <sup>439</sup>	Second six-layered phase of cerebellum
<b>E7.1.1.1.5.0.27</b>	Phasis zonarum sex differentiationis corticis cerebri <sup>437</sup>	Six-zone phase of differentiation of cerebral cortex
<b>E7.1.1.2.3.0.12</b>	Initium myelinisationis in nervis cranialibus III ad XII	Myelination in cranial nerves III-XII beginning
	<i>Cutanea</i>	<i>Cutaneous</i>
<b>E7.1.1.1.5.0.38</b>	Epithelium superficiale corporis multilaminare	Multi-layered body surface epithelium
<b>E7.1.1.2.3.0.13</b>	Lapsio projectionum globularium peridermalium	Shedding of globular peridermal projections
<b>E7.1.1.2.3.0.14</b>	Toruli tactiles pedis	Tactile elevations of foot; Epidermal ridges of foot
<b>E7.1.1.2.3.0.15</b>	Extensio et divisio gemmarum glandulae mammariae	Mammary gland sprouts elongating and branching
<b>E2.0.1.3.0.0.5</b>	<b>TEMPUS FETALE SERUM; FETUS TRIMESTRI TERTII</b>	<b>LATE FETAL PERIOD; THIRD TRIMESTER FETUS</b>
<b>E7.1.1.3.1.0.1</b>	<b>Fetus hebdomadis duodetrigesimae</b> <sup>443</sup>	<b>Twenty-eighth week fetus</b> 27-28 weeks ~270mm GL ~1500g
	<i>Generalia</i>	<i>General</i>
<b>E7.1.1.1.4.0.2</b>	Motus rotationis fetus <sup>435</sup>	Rotational movements of the fetus
<b>E5.17.1.0.3.0.7</b>	Vernix caseosa	Vernix caseosa
<b>E7.1.1.2.3.0.2</b>	Deminutio lanuginis	Lanugo decreasing
<b>E7.1.1.3.1.0.2</b>	Disjunctio palpebrorum	Eyelids open
	<i>Respiratoria</i>	<i>Respiratory</i>
<b>E7.1.1.2.1.0.17</b>	Sulci sinus maxillaris, cellularum ethmoidalium et sinuum sphenoidalis frontalisque	Sulci of maxillary sinus, ethmoidal cells and sphenoidal and frontal sinuses
<b>E7.1.1.3.1.0.3</b>	Tempus sacci terminalis; Tempus sacculare	Terminal sac stage; Saccular stage

<sup>443</sup> E7.1.1.3.1.0.1 *Fetus hebdomadis duodetrigesimae* The *twenty-eighth week fetus* is between 27 and 28 weeks old, is lean, red and wrinkled, its movements are infrequent and sluggish and its cries feeble. It is about 270mm long [GL], weighs about 1500g and exhibits the features listed.



<b>E7.1.1.3.1.0.4</b>	Secretio surfactantis pulmonis <i>Urogenitalia</i>	Secretion of pulmonary surfactant <i>Urogenital</i>
<b>E7.0.1.16.0.0.16</b>	Bifurcatio aliarum ampullarum uretericarum in blastemati metanephrogenico	Further bifurcation of ureteric ampullae in metanephrogenic blastema
<b>E7.1.1.1.3.0.14</b>	Conjunctio tubulorum metanephricorum cum tubulis colligentibus	Fusion of metanephric tubules with collecting tubules
<b>E7.1.1.2.2.0.19</b>	Ovarium juxta aperturam superiorem pelvis	Ovary near pelvic brim
<b>E7.1.1.3.1.0.5</b>	Testis in canale inguinale <i>Haematolymphoidea</i>	Testis in inguinal canal <i>Haematolymphoid</i> <sup>▲</sup>
<b>E7.1.1.2.2.0.22</b>	Deminutio haematopoiesis in hepate	Hepatic haematopoiesis decreasing <sup>▲</sup>
<b>E7.1.1.3.1.0.6</b>	Erythroblasti hepatici acervatim	Hepatic erythroblasts in clusters
<b>E7.1.1.3.1.0.7</b>	Expansio haematopoiesis in medulla ossium	Haematopoiesis in bone marrow extensive; Medullary haematopoiesis extensive <sup>▲</sup>
<b>E7.1.1.1.3.0.17</b>	Granulocyti immaturi in sanguine	Circulating immature granulocytes
<b>E7.1.1.1.5.0.21</b>	Lymphocyti T plurimi in thymo	Very numerous T lymphocytes in thymus
<b>E7.1.1.3.1.0.8</b>	Incrementum lymphocytorum in splene; Incrementum lymphocytorum in liene <i>Neuralia et sensoria</i>	Lymphocytes in spleen increasing <i>Neural and senses</i>
<b>E7.1.1.2.1.0.34</b>	Phasis secunda sexies stratificati cerebelli <sup>439</sup>	Second six-layered phase of cerebellum
<b>E7.1.1.1.5.0.27</b>	Phasis zonarum sex differentiationis corticis cerebri <sup>437</sup>	Six-zone phase of differentiation of cerebral cortex
<b>E7.1.1.3.1.0.9</b>	Myelinisatio in nervis cranialibus III ad XII	Myelination in cranial nerves III-XII
<b>E7.1.1.3.1.0.10</b>	Myelinisatio in tractibus pyramidalibus in pedunculis cerebralibus	Myelination in pyramidal tracts in cerebral peduncles
<b>E7.1.1.3.1.0.11</b>	Formatio segmentorum externorum neuronorum bacilliferorum et coniferorum <i>Cutanea</i>	Formation of outer segments of rods and cones <i>Cutaneous</i>
<b>E7.1.1.1.5.0.38</b>	Epithelium superficiale corporis multilaminare	Multi-layered body surface epithelium
<b>E7.1.1.3.1.0.12</b>	Lapsio projectionum globularium peridermalium	Shedding of globular peridermal projection
<b>E7.1.1.3.1.0.13</b>	Papilla mammaria inversa et canalisatio gemmarum	Nipple inverted and sprouts canalizing
<b>E7.1.1.3.2.0.1</b>	<b>Fetus hebdomadis trigesimae secundae</b> <sup>444</sup> <i>Generalia</i>	<b>Thirty-second week fetus</b> 31-32 weeks ~300mm GL ~2100g <i>General</i>
<b>E7.1.1.1.4.0.2</b>	Motus rotationis fetus <sup>435</sup>	Rotational movements of the fetus
<b>E5.17.1.0.3.0.7</b>	Vernix caseosa	Vernix caseosa
<b>E7.1.1.2.3.0.2</b>	Deminutio lanuginis	Lanugo decreasing
<b>E7.1.1.3.2.0.2</b>	Reflexus pupillaris luci <i>Alimentaria</i>	Pupillary light reflex <i>Alimentary</i>
<b>E7.1.1.3.2.0.3</b>	Canaliculi intracellulares exocrinocytorum parietales glandularum gastricum <i>Respiratoria</i>	Intracellular canaliculi of parietal cells of gastric glands <i>Respiratory</i>
<b>E7.1.1.2.1.0.17</b>	Sulci sinus maxillaris, cellularum ethmoidalium et sinuum sphenoidalis frontalisque	Sulci of maxillary sinus, ethmoidal cells and sphenoidal and frontal sinuses
<b>E7.1.1.3.2.0.4</b>	Continuatio temporis saccularis pulmonis	Saccular period of lung continues
<b>E7.1.1.3.2.0.5</b>	Initium temporis alveolaris pulmonis	Alveolar period of lung begins
<b>E7.1.1.3.1.0.4</b>	Secretio surfactantis pulmonis <i>Urogenitalia</i>	Secretion of pulmonary surfactant <i>Urogenital</i>
<b>E7.0.1.16.0.0.16</b>	Bifurcatio aliarum ampullarum uretericarum in blastemati metanephrogenico	Further bifurcation of ureteric ampullae in metanephrogenic blastema
<b>E7.1.1.1.3.0.14</b>	Conjunctio tubulorum metanephricorum cum tubulis colligentibus	Fusion of metanephric tubules with collecting tubules
<b>E7.1.1.2.2.0.19</b>	Ovarium juxta aperturam superiorem pelvis	Ovary near pelvic brim
<b>E7.1.1.3.2.0.6</b>	Testis juxta anulum inguinalem superficialem <i>Haematolymphoidea</i>	Testis at superficial inguinal ring <i>Haematolymphoid</i> <sup>▲</sup>
<b>E7.1.1.3.2.0.7</b>	Haematopoiesis in hepate minima	Hepatic haematopoiesis minimal <sup>▲</sup>
<b>E7.1.1.3.2.0.8</b>	Erythroblasti hepatici in insulis/acervationibus residuis	Hepatic erythroblasts in small clusters

<sup>444</sup> E7.1.1.3.2.0.1 *Fetus hebdomadis trigesimae secundae* The *thirty-second week fetus* is between 31 and 32 weeks old, is paler and smoother, is about 300mm long [GL], weighs about 2100g and exhibits the features listed.

<b>E7.1.1.3.2.0.9</b>	Superantia haematopoiesis in medulla ossium	Haematopoiesis in bone marrow predominant <sup>▲</sup> ; Medullary haematopoiesis predominant <sup>▲</sup>
<b>E7.1.1.1.3.0.17</b>	Granulocyti immaturi in sanguine	Circulating immature granulocytes
<b>E7.1.1.3.2.0.10</b>	Lymphocyti numerosi in splene; Lymphocyti numerosi in liene	Numerous lymphocytes in spleen
	<i>Neuralia et sensoria</i>	<i>Neural and senses</i>
<b>E7.1.1.3.2.0.11</b>	Strata definitiva corticis cerebri	Definitive layers of cerebral cortex
<b>E7.1.1.2.1.0.34</b>	Phasis secunda sexies stratificati cerebelli <sup>439</sup>	Second six-layered phase of cerebellum
<b>E7.1.1.3.2.0.12</b>	Differentiatio retinae non completa <sup>445</sup>	Differentiation of retina incomplete
	<i>Cutanea</i>	<i>Cutaneous</i>
<b>E7.1.1.1.5.0.38</b>	Epithelium superficiale corporis multilaminare	Multi-layered body surface epithelium
<b>E7.1.1.3.2.0.13</b>	Desquamatio cellularum squamosarum peridermalium	Shedding of peridermal squamous cells
<b>E7.1.1.3.2.0.14</b>	Desquamatio cellularum squamosarum cornificatarum	Shedding of cornified squamous cells
<b>E7.1.1.3.3.0.1</b>	<b>Fetus hebdomadis trigesimae sextae<sup>446</sup></b>	<b>Thirty-sixth week fetus</b> 35-36 weeks ~325mm GL ~3000g
	<i>Generalia</i>	<i>General</i>
<b>E7.1.1.1.4.0.2</b>	Motus rotationis fetus <sup>435</sup>	Rotational movements of the fetus
<b>E7.1.1.3.3.0.2</b>	Vernix caseosa copiosa	Vernix caseosa abundant
<b>E7.1.1.2.3.0.2</b>	Deminutio lanuginis	Lanugo decreasing
<b>E7.1.1.3.3.0.3</b>	Reflexus praehensionis fortis	Strong grasp reflex
<b>E7.1.1.3.3.0.4</b>	Ungues in apicus phalangium distalium	Nails at fingertips
<b>E7.1.1.3.3.0.5</b>	Circumferentiae abdominis et capitis aequales	Abdominal circumference equals head circumference
<b>E7.1.1.3.3.0.6</b>	Longitudo aequalis pedis atque femoris ossificati	Foot length [FL] equals length of ossified femur
	<i>Alimentaria</i>	<i>Alimentary</i>
<b>E7.1.1.3.3.0.7</b>	Defectio villorum coli	Villi disappearing from colon
	<i>Respiratoria</i>	<i>Respiratory</i>
<b>E5.5.1.0.1.0.4</b>	Diverticulum sinus maxillaris <sup>166</sup>	Diverticulum of maxillary sinus
<b>E7.1.1.3.3.0.8</b>	Sulci cellularum ethmoidalium et sinuum sphenoidalium frontaliumque	Sulci of ethmoidal cells and of sphenoidal and frontal sinuses
<b>E7.1.1.3.2.0.4</b>	Continuatio temporis saccularis pulmonis	Saccular period of lung continues
<b>E7.1.1.3.3.0.9</b>	Continuatio temporis alveolaris pulmonis	Alveolar period of lung continues
<b>E7.1.1.3.3.0.10</b>	Secretio maxima surfactantis pulmonis	Maximum secretion of pulmonary surfactant
	<i>Urogenitalia</i>	<i>Urogenital</i>
<b>E7.1.1.3.3.0.11</b>	Finis ramificationis ampullarum uretericarum	Branching of ureteric ampullae ends
<b>E7.1.1.2.2.0.19</b>	Ovarium juxta aperturam superiorem pelvis	Ovary near pelvic brim
<b>E7.1.1.3.3.0.12</b>	Ingressio testis in scrotum	Entry of testis into scrotum
	<i>Haematolymphoidea<sup>447</sup></i>	<i>Haematolymphoid<sup>▲</sup></i>
<b>E7.1.1.3.3.0.13</b>	Deminutio relativa granulocytorum immaturorum in sanguine	Proportion of circulating immature granulocytes decreasing
<b>E7.1.1.3.3.0.14</b>	Incrementum granulocytorum maturorum in sanguine	Circulating mature granulocytes increasing
<b>E7.1.1.3.2.0.10</b>	Lymphocyti numerosi in splene; Lymphocyti numerosi in liene	Numerous lymphocytes in spleen
	<i>Neuralia et sensoria</i>	<i>Neural and senses</i>
<b>E7.1.1.3.2.0.11</b>	Strata definitiva corticis cerebri	Definitive layers of cerebral cortex
<b>E7.1.1.2.1.0.34</b>	Phasis secunda sexies stratificati cerebelli <sup>439</sup>	Second six-layered phase of cerebellum
<b>E7.1.1.3.3.0.15</b>	Conus medullaris in plano vertebrae lumbalis quartae [L4]	Conus medullaris at level of LIV
<b>E7.1.1.3.3.0.16</b>	Myelinisatio in tractibus pyramidalibus in ponte	Myelination in pyramidal tracts in pons
<b>E7.1.1.3.2.0.12</b>	Differentiatio retinae non completa <sup>445</sup>	Differentiation of retina incomplete

<sup>445</sup> E7.1.1.3.2.0.12 *Differentiatio retinae non completa* The retina is not fully differentiated until some 5 to 13 months after birth.

<sup>446</sup> E7.1.1.3.3.0.1 *Fetus hebdomadis trigesimae sextae* The *thirty-sixth week fetus* is between 35 and 36 weeks old, is about 325mm long [GL], weighs about 3000g and exhibits the features listed.

<sup>447</sup> *Haematolymphoidea* In the thirty sixth week fetus maternal antibodies transfer across the placenta.

	<i>Cutanea</i>	<i>Cutaneous</i>
<b>E7.1.1.1.5.0.38</b>	Epithelium superficiale corporis multilaminare	Multi-layered body surface epithelium
<b>E7.1.1.3.2.0.13</b>	Desquamatio cellularum squamosarum peridermalium	Shedding of peridermal squamous cells
<b>E7.1.1.3.2.0.14</b>	Desquamatio cellularum squamosarum cornificatarum	Shedding of cornified squamous cells
<b>E7.1.1.3.3.0.17</b>	Initium papillae mammariae inversae et alveolorum glandularium	Nipple inverted and glandular alveoli beginning
<b>E7.2.0.0.0.0.1</b>	<b>Insignia neonati maturi</b> <sup>448</sup>	<b>Features of mature neonate</b> ~335mm GL ~3350g
	<i>Generalia</i>	<i>General</i>
<b>E5.17.1.0.3.0.7</b>	Vernix caseosa	Vernix caseosa
<b>E7.2.0.0.0.0.2</b>	Lanugo parca	Scanty lanugo; Scanty primary hair
<b>E7.2.0.0.0.0.3</b>	Initium formationis pilorum definitivorum	Formation of secondary hair beginning
<b>E7.2.0.0.0.0.4</b>	Reflexus cervicalis tonicus	Tonic neck reflex
<b>E7.1.1.2.1.0.3</b>	Reflexus praehensionis	Grasp reflex
<b>E7.2.0.0.0.0.5</b>	Reflexus indagationis	Search reflex; Rooting reflex
<b>E7.2.0.0.0.0.6</b>	Reflexus labii	Lip reflex
<b>E7.2.0.0.0.0.7</b>	Reflexus glutitionis	Swallowing reflex
<b>E7.2.0.0.0.0.8</b>	Reflexus suctionis	Sucking reflex
<b>E7.2.0.0.0.0.9</b>	Absentia reflexuum superficialium	Absence of superficial reflexes
<b>E7.2.0.0.0.0.10</b>	Reflexus tremefactionis	Startle reflex
<b>E7.2.0.0.0.0.11</b>	Responsum plantare extensorium	Extensor plantar response
<b>E7.1.1.1.5.0.4</b>	Centra ossificationis primaria phalangium proximalium	Primary ossification centres for proximal phalanges <sup>▲</sup>
<b>E7.1.1.3.3.0.5</b>	Circumferentiae abdominis et capitis aequales	Abdominal circumference equals head circumference
<b>E7.2.0.0.0.0.12</b>	Fonticulus anterior	Anterior fontanelle
<b>E7.2.0.0.0.0.13</b>	Fonticulus mastoideus; Fonticulus posterolateralis	Mastoid fontanelle
<b>E7.2.0.0.0.0.14</b>	Fonticulus posterior	Posterior fontanelle
<b>E7.2.0.0.0.0.15</b>	Fonticulus sphenoidalis; Fonticulus anterolateralis	Sphenoidal fontanelle
<b>E7.2.0.0.0.0.16</b>	Formatura capitis	Moulding of head
<b>E7.2.0.0.0.0.17</b>	Centra epiphysialia juxta genu et in humero proximale	Epiphysial centres at knee and in proximal humerus <sup>▲</sup>
<b>E7.2.0.0.0.0.18</b>	Centra ossificationis primaria calcanei, tali et fortasse cuboidei	Primary ossification centres of calcaneus, talus and possibly cuboid <sup>▲</sup>
<b>E7.2.0.0.0.0.19</b>	Absentia processus mastoidei et meatus acustici externi ossei	Absence of mastoid process and bony external acoustic meatus
	<i>Alimentaria</i>	<i>Alimentary</i>
<b>E7.2.0.0.0.0.20</b>	Corpus adiposum buccae	Buccal fat pad §Bichat§
<b>E7.2.0.0.0.0.21</b>	Apex linguae non completus	Apex of tongue undeveloped; Tip of tongue undeveloped
<b>E7.2.0.0.0.0.22</b>	Hepar relative magnum	Liver relatively large
	<i>Respiratoria</i>	<i>Respiratory</i>
<b>E5.5.1.0.1.0.4</b>	Diverticulum sinus maxillaris <sup>166</sup>	Diverticulum of maxillary sinus
<b>E5.5.1.0.1.0.7</b>	Diverticula cellularum ethmoidalium <sup>167</sup>	Diverticula of ethmoidal cells
<b>E7.2.0.0.0.0.23</b>	Sulci sinuum sphenoidalium et frontalem	Sulci of sphenoidal and frontal sinuses
<b>E7.2.0.0.0.0.24</b>	Margo inferior laryngis ad vertebrae cervicalem quartam [C4]	Lower border of larynx at C4
<b>E7.2.0.0.0.0.25</b>	Ramificatio pulmonalis imperfecta	Pulmonary branching incomplete
<b>E7.2.0.0.0.0.26</b>	Tempus alveolare pulmonis imperfectum	Alveolar period of lung incomplete
<b>E7.2.0.0.0.0.27</b>	Mutationis arteriae pulmonis gradus unus	Stage one of pulmonary arterial modification
	<i>Urogenitalia</i>	<i>Urogenital</i>
<b>E7.2.0.0.0.0.28</b>	Vesica urinaria partim in cavitate abdominale	Bladder partly in abdomen
<b>E7.2.0.0.0.0.29</b>	Testis in scroto	Testis in scrotum
<b>E7.2.0.0.0.0.30</b>	Ovaria in apertura pelvis superiore	Ovaries at pelvic brim
<b>E7.2.0.0.0.0.31</b>	Oocyti primarii decies centena milia	One million primary oocytes

<sup>448</sup> E7.2.0.0.0.0.1 *Insignia neonati maturi* The movements of the *mature neonate* are active and sustained and its cries are lusty. It is about 335mm long [GL] or 50cm long [CH], weighs about 3350g and exhibits the features listed. Such an infant has an age of about 38 weeks post fertilization or 40 menstrual weeks (See footnotes <sup>5</sup> and <sup>9</sup>).

<b>E7.2.0.0.0.0.32</b>	Praeputium usualiter adhaerens peni <i>Endocrina</i>	Prepuce usually adherent <i>Endocrine</i>
<b>E7.2.0.0.0.0.33</b>	Glandula suprarenalis relative magna <sup>217</sup> <i>Cardiovascularia</i>	Suprarenal gland relatively large <i>Cardiovascular</i>
<b>E7.2.0.0.0.0.34</b>	Cor relative magnum	Heart relatively large
<b>E7.2.0.0.0.0.35</b>	Obturbatio functionalis foraminis ovalis cordis	Functional closure of foramen ovale of heart
<b>E7.2.0.0.0.0.36</b>	Obturbatio functionalis ductus arteriosi	Functional closure of ductus arteriosus
<b>E7.2.0.0.0.0.37</b>	Contractio arteriarum umbilicalium	Contraction of umbilical arteries
<b>E7.2.0.0.0.0.38</b>	Obturbatio ductus venosi incipiens <i>Haematolymphoidea</i>	Closure of ductus venosus begins <i>Haematolymphoid</i> <sup>▲</sup>
<b>E7.2.0.0.0.0.39</b>	Numerosi granulocyti maturi in sanguine <sup>441</sup> <i>Neuralia et sensoria</i>	Numerous circulating mature granulocytes <i>Neural and senses</i>
<b>E7.2.0.0.0.0.40</b>	Conus medullaris in plano vertebrae lumbalis tertiae [L III]	Conus medullaris at level of L III
<b>E7.1.1.3.2.0.11</b>	Strata definitiva corticis cerebri	Definitive layers of cerebral cortex
<b>E7.1.1.2.1.0.34</b>	Phasis secunda sexies stratificati cerebelli <sup>439</sup>	Second six-layered phase of cerebellum
<b>E7.2.0.0.0.0.41</b>	Myelinisatio in tractibus pyramidalibus in capsulis internis	Myelination in pyramidal tracts in internal capsules
<b>E7.1.1.3.2.0.12</b>	Differentiatio retinae non completa <sup>445</sup>	Differentiation of retina incomplete
<b>E7.2.0.0.0.0.42</b>	Accommodatio lentis absens	Accommodation of lens absent
<b>E7.2.0.0.0.0.43</b>	Liquor amnioticus in aure media	Amniotic fluid in middle ear
<b>E7.2.0.0.0.0.44</b>	Absentia cellularum mastoidearum <i>Cutanea</i>	Mastoid cells absent <i>Cutaneous</i>
<b>E7.2.0.0.0.0.45</b>	Epithelium stratificatum superficiale; Epidermis	Multi-layered surface epithelium; Epidermis
<b>E7.1.1.3.2.0.14</b>	Desquamatio cellularum squamosarum cornificatarum	Shedding of cornified squamous cells
<b>E7.2.0.0.0.0.46</b>	Papilla mammaria eversa	Nipple everted
<b>E7.2.0.0.0.0.47</b>	Mammae protrudentes; Gynaecomastia neonatorum	Breasts protruding; Neonatal gynaecomastia <sup>▲</sup>
<b>E7.2.0.0.0.0.48</b>	(Mammae secretantes lactem neonatorum)	(Breasts secreting witch's milk)
	<b>Nomina dysmorphica</b> <sup>449</sup>	<b>Dysmorphia terms</b>
	<i>Nomina generalia</i>	<i>General terms</i>
<b>E8.0.0.0.0.0.1</b>	Collectiones anomaliarum	Collections of anomalies
<b>E8.0.0.0.0.0.2</b>	Conjunctio anomaliarum	Association of anomalies
<b>E8.0.0.0.0.0.3</b>	Sequentia anomaliarum	Sequence of anomalies
<b>E8.0.0.0.0.0.4</b>	Syndroma embryologicum	Developmental syndrome
<b>E8.0.0.0.0.0.5</b>	Mosaicismus	Mosaicism
<b>E8.0.1.0.0.0.1</b>	<b>Embryogenesis dysmorphicarum</b>	<b>Embryogenesis of dysmorphias</b>
<b>E8.0.1.0.0.0.2</b>	Aberratio	Aberration
<b>E8.0.1.0.0.0.3</b>	Ectopia	Ectopia
<b>E5.14.3.5.5.0.32</b>	Heterotopia	Heterotopia
<b>E8.0.1.0.0.0.4</b>	Concrescentia	Congrescence
<b>E8.0.1.0.0.0.5</b>	Hamartoma	Hamartoma
<b>E8.0.1.0.0.0.6</b>	Hyperplasia	Hyperplasia
<b>E8.0.1.0.0.0.7</b>	Hypertrophia	Hypertrophy

<sup>449</sup> *Nomina dysmorphica* Previous embryological terminologies have included a substantial list of dysmorphias. Here, however, dysmorphias have been distributed between the systems and a representative selection has been listed at the end of each. Furthermore, dysmorphology has developed into a separate discipline and developed its own literature (see, for example, the special issue on Elements of morphology: standard terminology Am J Med Genet Part A 149A:1-127). The treatment is as yet incomplete, but for details see the individual papers: Carey JC. Editorial comment: Am J Med Genet Part A 2009;149A:1; Allanson JE, Biesecker LG, Carey JC, Hennekam RCM. Elements of morphology: introduction. Am J Med Genet Part A 2009;149A:2-5; Allanson JE, Cunniff C, Hoyme HE, McGaughan J, Muenke M, Neri G. Elements of morphology: standard terminology for the head and face. Am J Med Genet Part A 2009;149A:6-28; Hall BD, Graham JM Jr., Cassidy SB, Opitz JM. Elements of morphology: standard terminology for the periorbital region. Am J Med Genet Part A 2009;149A:29-39; Hunter A, Frias J, Gillissen-Kaesbach G, Hughes H, Jones K, Wilson L. Elements of morphology: standard terminology for the ear. Am J Med Genet Part A 2009;149A:40-60; Hennekam RCM, Cormier-Daire V, Hall J, Méhes K, Patton M, Stevenson R. Elements of morphology: standard terminology for the nose and philtrum. Am J Med Genet Part A 2009;149A:61-76; Carey JC, Cohen MM Jr., Curry CJR, Devriendt K, Holmes LB, Verloes A. Elements of morphology: standard terminology for the lips, mouth, and oral region. Am J Med Genet Part A 2009;149A:77-92; Biesecker LG, Aase JM, Clericuzio C, Gurrieri F, Temple IK, Toriello H. Elements of morphology: standard terminology for the hands and feet. Am J Med Genet Part A 2009;149A:93-127.

There is also the Winter-Baraitser Dysmorphology Database [WBDD] <http://www.lmdatabases.com/>. WBDD currently contains information on over 4450 dysmorphic, multiple congenital anomaly and mental retardation syndromes. It includes single gene disorders and sporadic conditions, as well as those caused by environmental agents. While it mainly contains information about non-chromosomal multiple congenital anomaly syndromes, it also includes information about distinctive microdeletion syndromes and those resulting from uniparental disomy. WBDD contains over 44000 fully searchable references, linked to the appropriate syndromes.

<b>E8.0.1.0.0.0.8</b>	Multiplicatio	Multiplication
<b>E8.0.1.0.0.0.9</b>	Status accessorius	Accessory organs
<b>E8.0.1.0.0.0.10</b>	Status supernumerarius	Supernumerary organs
<b>E8.0.1.0.0.0.11</b>	Suspensio embryologicum	Developmental arrest
<b>E8.0.1.0.0.0.12</b>	Agenesis	Agenesis
<b>E8.0.1.0.0.0.13</b>	Anomalia separationis	Separation defect
<b>E8.0.1.0.0.0.14</b>	Aplasia	Aplasia
<b>E8.0.1.0.0.0.15</b>	Atresia	Atresia
<b>E8.0.1.0.0.0.16</b>	Dysraphia	Dysraphia
<b>E8.0.1.0.0.0.17</b>	Hypoplasia	Hypoplasia
<b>E8.0.1.0.0.0.18</b>	Persistencia vestigii	Persistence of vestige
<b>E8.0.1.0.0.0.19</b>	Suspensio migrationis	Suppressed migration