

Weekly Influenza and COVID-19 Surveillance graphs

PHE publishes a weekly national influenza and COVID-19 surveillance report which summaries the information from the surveillance systems which are used to monitor influenza, COVID-19 and other seasonal respiratory viruses in England.

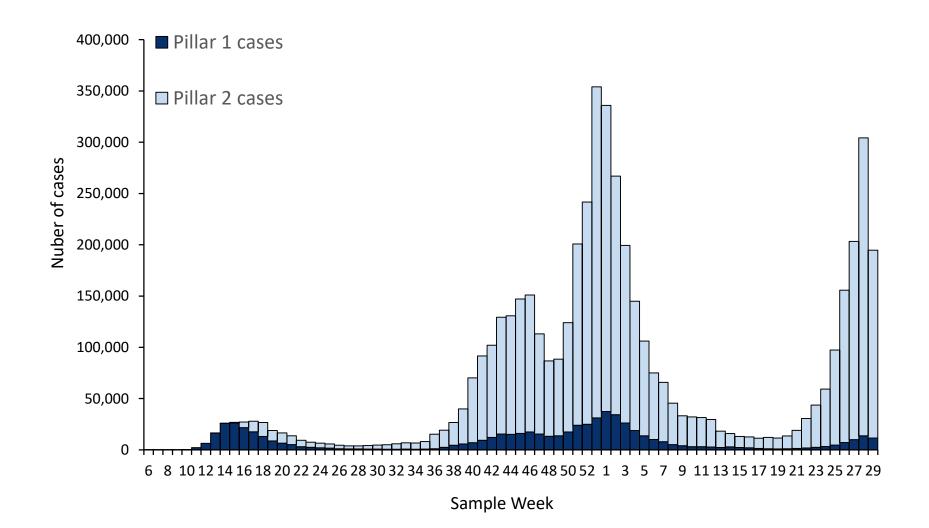
Additional figures based on these surveillance systems are included in this slide set.

The figures presented in this slide set are based on data from week 29 (between 19 and 25 July 2021).

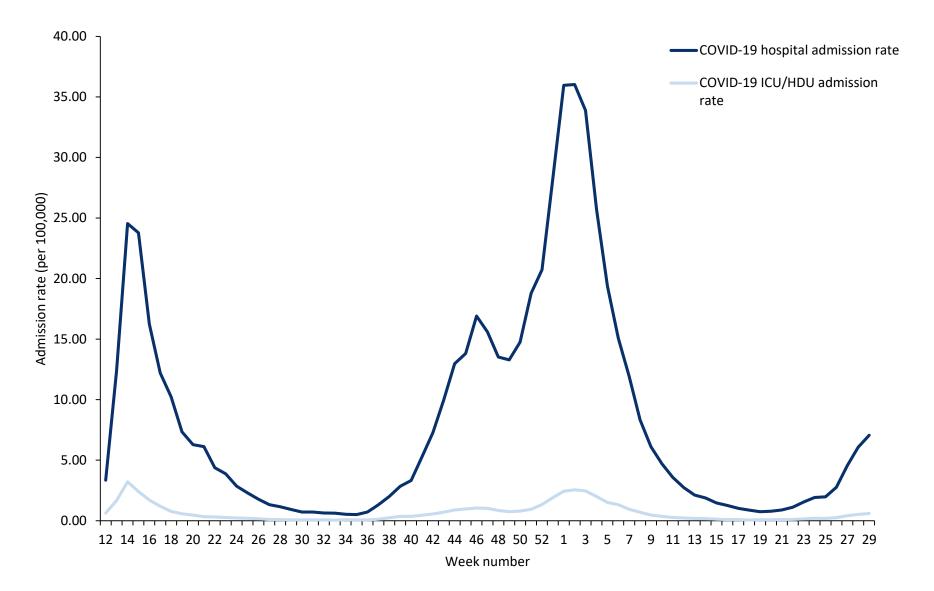


COVID-19 Pandemic Overview

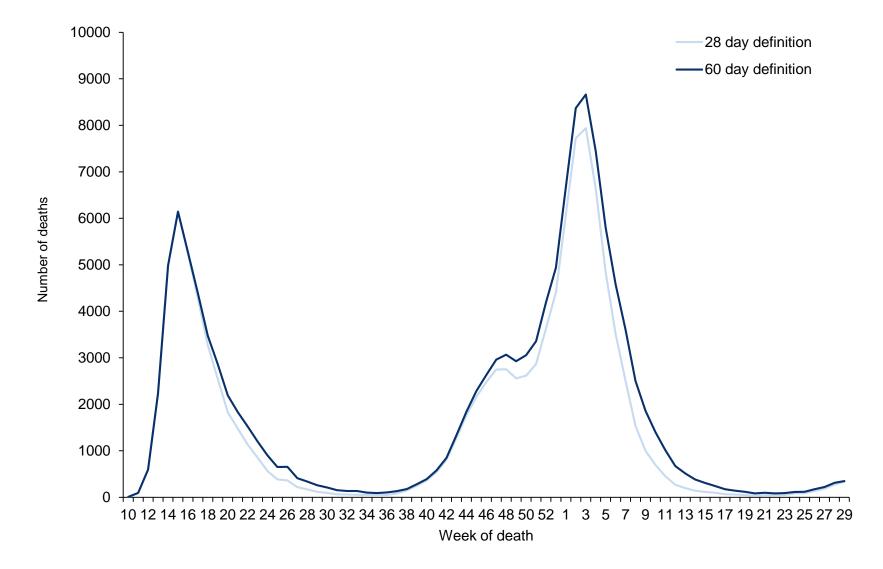
Confirmed COVID-19 cases tested under Pillar 1 and Pillar 2, by sample week, since week 5 2020



Weekly overall hospital and ICU/HDU admission rates per 100,000 of new COVID-Public Health England 19 positive cases reported through SARI Watch, England since week 12 2020



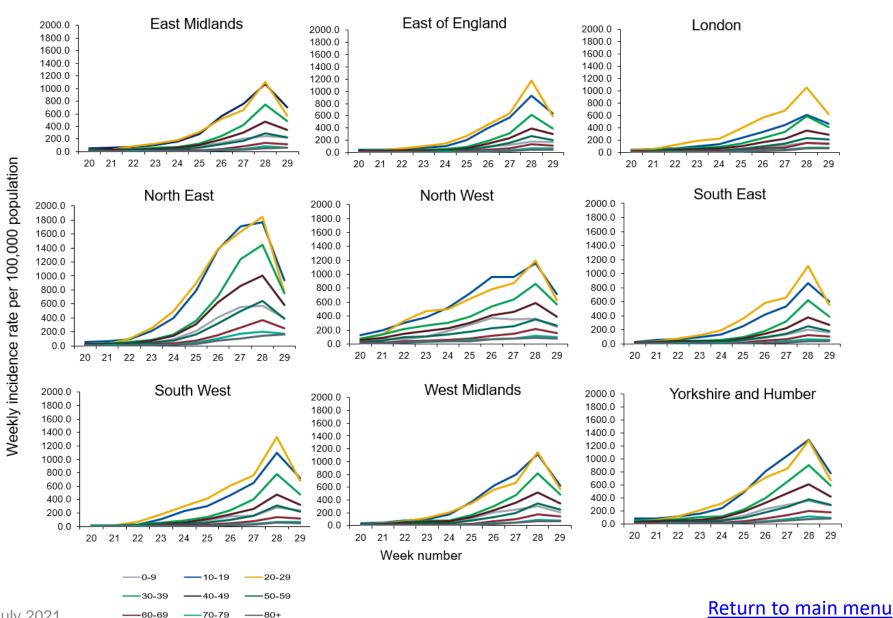
Number of deaths since week 10 2020 by week of death and time since laboratory confirmation of COVID-19, England





Confirmed COVID-19 cases in England

Weekly COVID-19 incidence per 100,000 population by age group and region, **Public Health** weeks 20 to 29



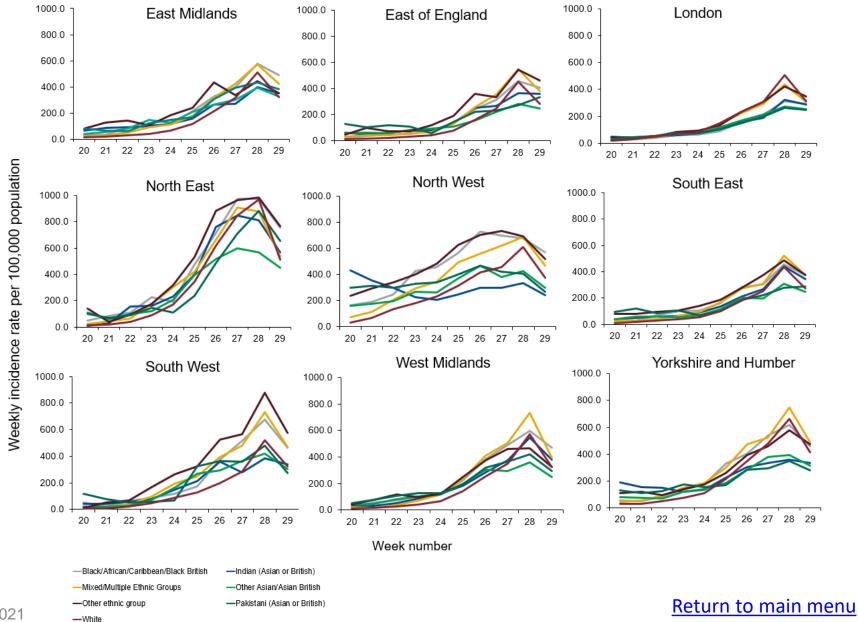
29 July 2021 60-69

70-79

England

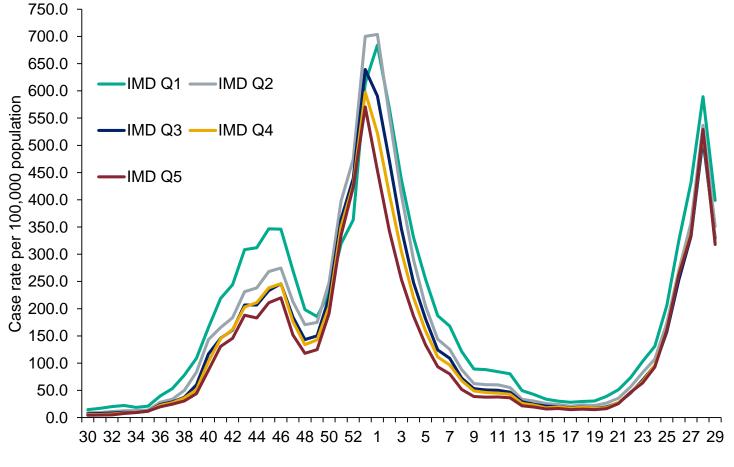


Weekly COVID-19 incidence per 100,000 population by ethnicity and region, weeks 20 to 29



Willic Health England

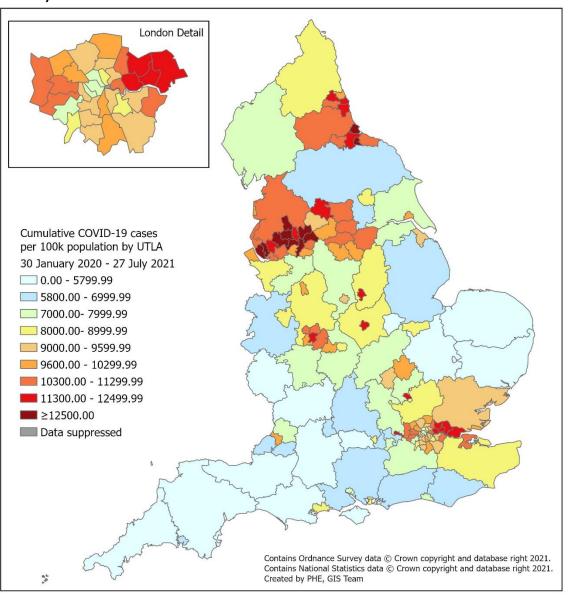
Weekly COVID-19 rate per 100,000 population by IMD quintile (1 being the most deprived and 5 being the least deprived)



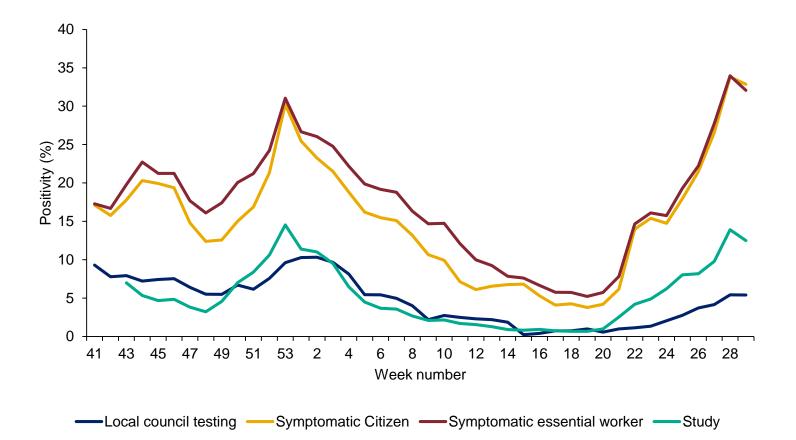
Week Number

Public Health England

Cumulative rate of COVID-19 cases per 100,000 population tested under Pillar 1 and 2, by upper-tier local authority, England (box shows enlarged map of London area)



Public Health Weekly PCR positivity of COVID-19 cases by reason for test, weeks 41 to 29 England

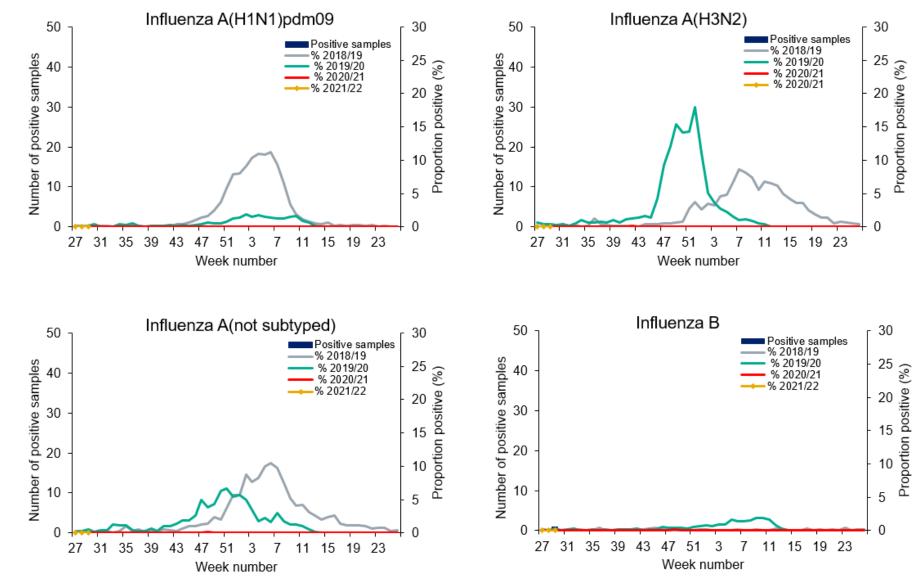




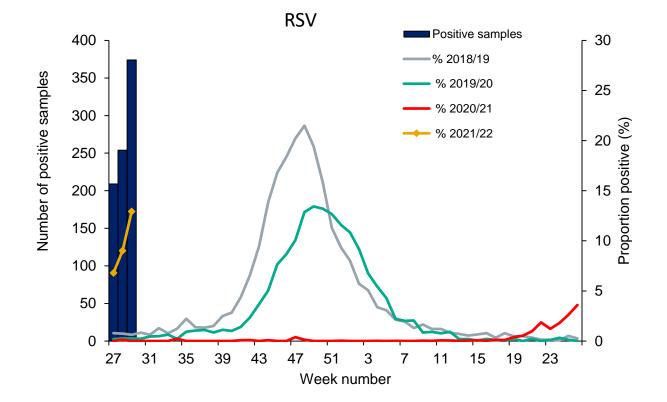
Respiratory Datamart system (England)



Respiratory DataMart – Influenza subtypes

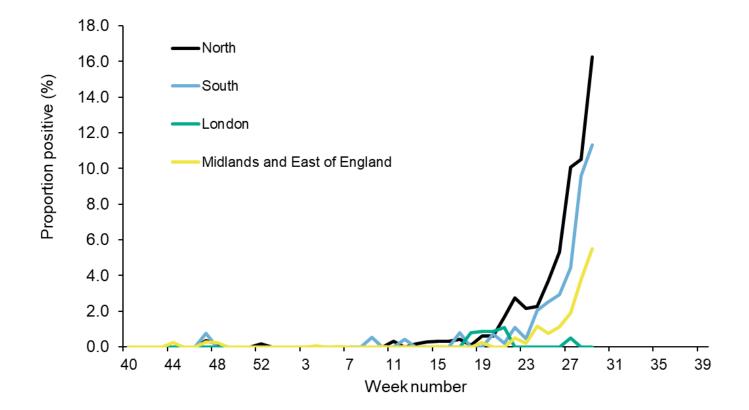






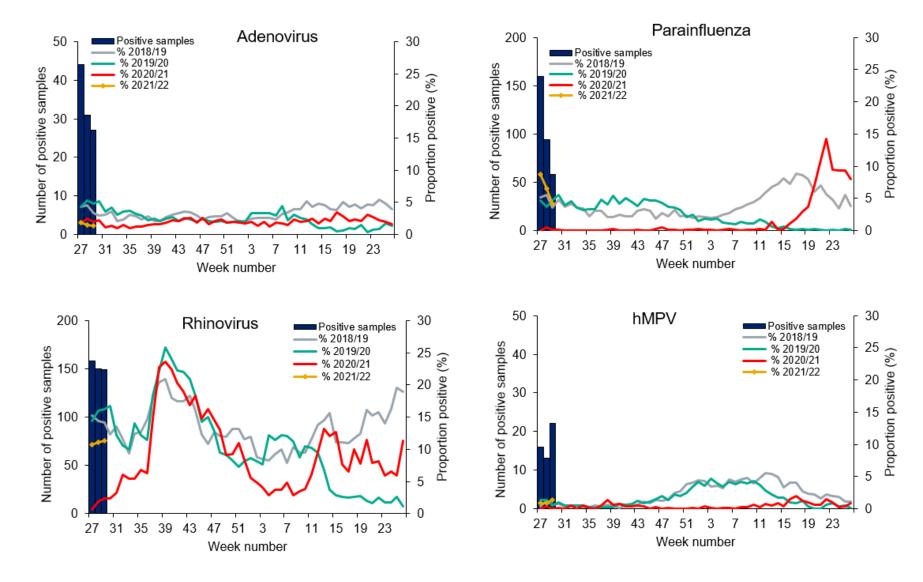


Respiratory DataMart – Respiratory syncytial virus (RSV) weekly positivity by PHE region





Respiratory DataMart – other respiratory viruses





Community surveillance



Data Information

- We report on new acute respiratory infection (ARI) incidents reported to Health Protection Teams (HPTs) and entered on HPZone in the previous reporting week in educational settings by locality
- Individual case notes are reviewed by an epidemiologist and an assessment made about whether the criteria for a confirmed COVID-19 cluster or outbreak are met. See definitions below.
- The incidents captured on HPZone represent a subset of all ongoing clusters and outbreaks in England. A variety of arrangements are in place with local authorities and other stakeholders supporting HPTs, however, data may not routinely be documented on HPZone. As a result, the number of outbreaks reported for some of the regions are underestimates

Caveats

- A national school helpline started operating on 17 September 2020 and a Universities helpline started operating on 7 October schools in England were closed for half-term during weeks 43 or/ and 44.
- From Week 1 2021 the third national lockdown came into effect and schools were closed with the exception of vulnerable children and children of key workers. Early years settings have remained open.

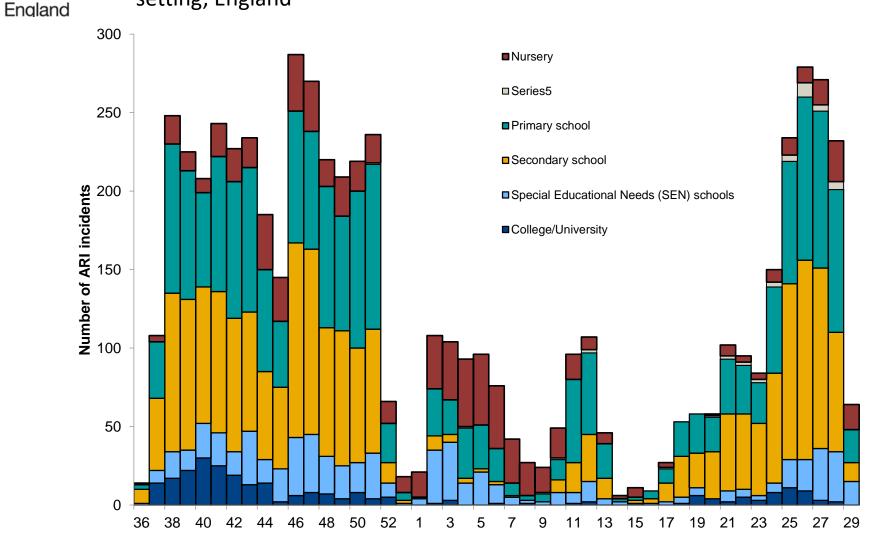
Definitions

Cluster: two or more test-confirmed cases of COVID-19 among individuals associated with a specific non-residential setting with illness onset dates within a 14-day period (in the absence of detailed information about the type of contact between the cases). **Outbreak:** two or more test-confirmed cases of COVID-19 among individuals associated with a specific non-residential setting with illness onset dates within 14 days, and one of:

- Identified direct exposure between at least 2 of the test-confirmed cases in that setting (for example under one metre face to face, or spending more than 15 minutes within 2 metres) during the infectious period of one of the cases.
- When there is no sustained local community transmission absence of an alternative source of infection outside the setting for the initially identified cases



Number of COVID-19 confirmed clusters or outbreaks by type of educational setting, England



Date of report week



Cumulative number of confirmed COVID-19 clusters or outbreaks by type of Public Health educational setting and PHE Centre since week 36, England

| PHE Centres | Nursery | Primary School | Secondary School | Combined | Special Educational Needs (SEN) schools | College University | Total |
|-------------------------|----------|-------------------|---------------------|----------|--|-----------------------|-----------|
| East of England | 8 (0) | 27 (0) | 68 (1) | 5 (0) | 9 (0) | 14 (0) | 131 (1) |
| East Midlands | 117 (3) | 204 (0) | 165 (0) | 4 (0) | 74 (2) | 25 (0) | 589 (5) |
| London | 144 (5) | 498 (8) | 507 (2) | 10 (0) | 78 (0) | 56 (0) | 1293 (15) |
| North East | 1 (0) | 23 (0) | 26 (0) | 0 (0) | 10 (0) | 6 (0) | 66 (0) |
| North West | 44 (0) | 115 (1) | 128 (0) | 2 (0) | 70 (2) | 22 (0) | 381 (3) |
| South East | 176 (3) | 447 (9) | 553 (7) | 7 (0) | 145 (5) | 50 (0) | 1378 (24) |
| South West | 51 (1) | 158 (0) | 166 (0) | 4 (0) | 75 (2) | 32 (0) | 486 (3) |
| West Midlands | 112 (0) | 351 (2) | 293 (1) | 2 (0) | 99 (0) | 28 (0) | 885 (3) |
| Yorkshire and Humber | 130 (4) | 300 (1) | 211 (1) | 5 (0) | 100 (4) | 29 (0) | 775 (10) |
| <u>Total</u> | 783 (16) | 2123 (21) | 2117 (12) | 39 (0) | 660 (15) | 262 (0) | 5984 (64) |

*Number of outbreaks for Week 29 in brackets



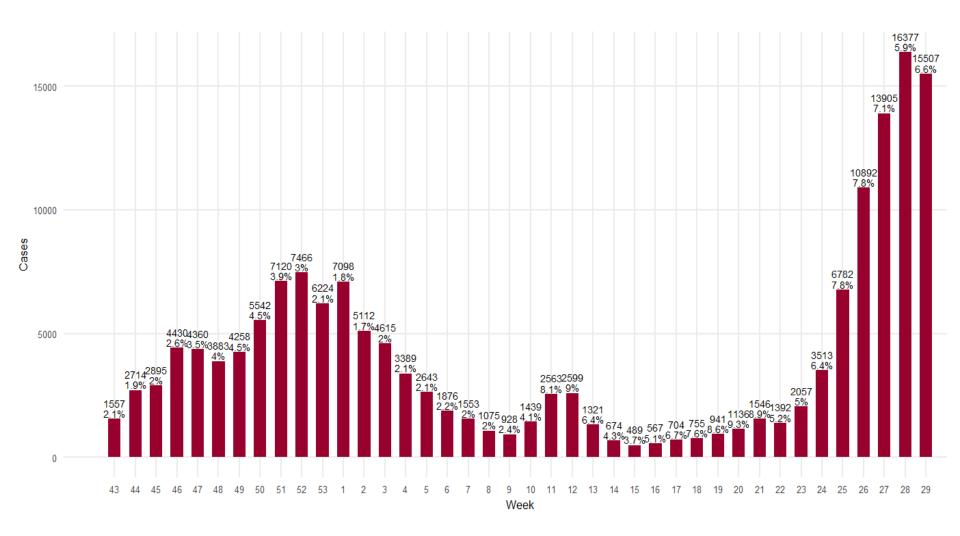
Weekly number of COVID-19 cases in NHS Test and Trace contact tracing data, who reported attending educational settings

Data sources/definitions

- The NHS Test & Trace contact tracing form asks individuals about their work or education settings. This report includes those who selected: 'Attending childcare, school, education setting' and selected an education setting of: 'Primary school', 'Secondary school' or 'college' (counted together), 'University'.
- 2. Age was used to confirm that cases were likely to be students, using the following age ranges as inclusive cut-offs: Primary school: 4 to 12 years old Secondary school college: 11 to 19 years old University: 16 years and above
- 3. Student cases may not be recorded if 'work and education' was selected rather than 'Attending childcare, school, education setting' Approximately 1% of primary, secondary, and college cases may be underreported because of this, and 4% of university cases.
- 4. Weeks are defined using ISO-8601, meaning Week 1 starts Monday January 4th and ends Sunday January 10th, 2021.
- 5. Percentages in charts = percent of all cases (people who tested positive and were referred for contact tracing) for that week, this includes cases which may not have completed the forms and entered work or education settings.
- 6. The data starts 23 October 2020, when education settings started to be recorded in the present format, and ends with the most recent complete week.
- 7. Cases are assigned to dates by the date they were transferred to the NHS Test and Trace contact tracing system.
- 8. If a case reports being in education, this does not specify that they attended the setting in person during the time that they were exposed/infectious (for example they may have been remote learning). In addition, cases that did attend in person may have been exposed in other settings, such as their household or while doing other activities. This data can not be used to directly infer that these cases acquired their infection, or that they exposed others, in an the education setting.

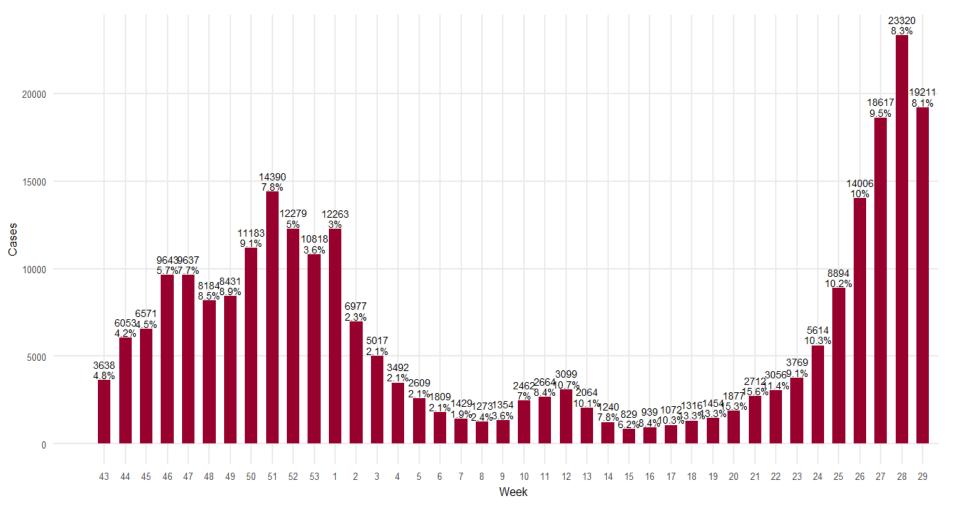
Nublic Health England

Number of people testing positive that reported attending primary school and proportion among all people testing positive (weeks 43 to 29) (Data source: NHS Test and Trace)



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Number of people testing positive that reported attending secondary school and Public Health proportion among all people testing positive (weeks 43 to 29) (Data source: NHS Test and Trace)



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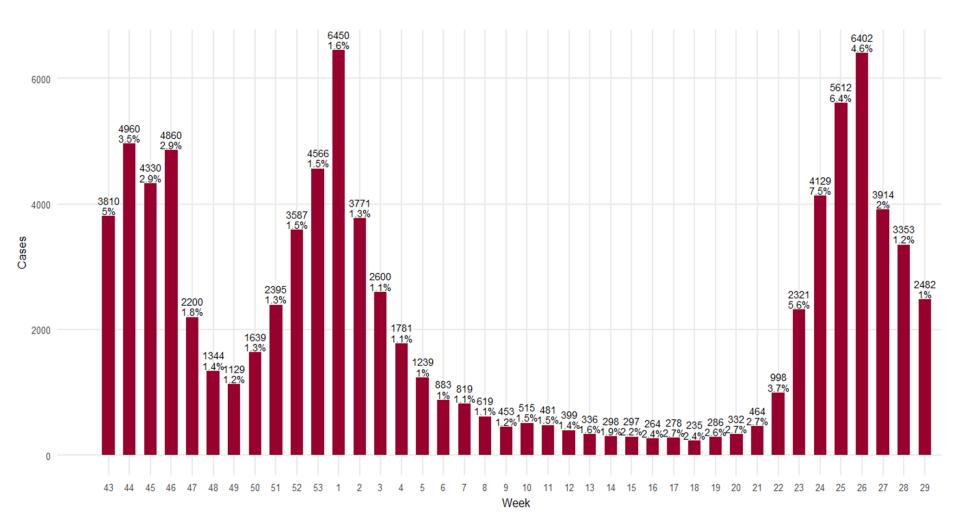
29 July 2021

X

England

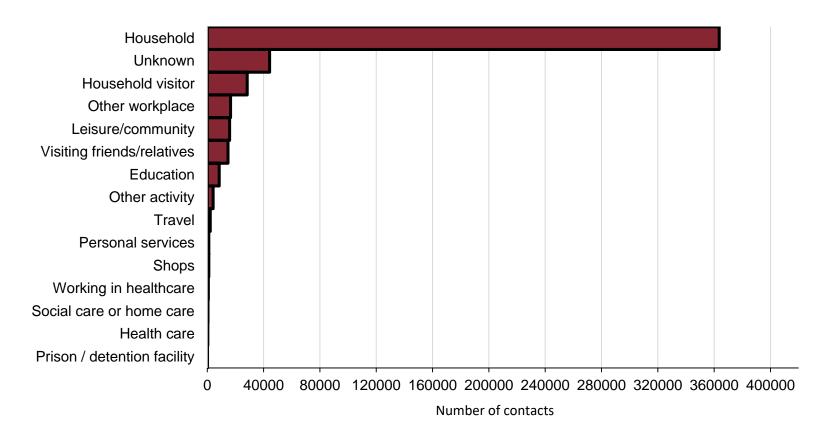
Willic Health England

Number of people testing positive that reported attending university and proportion among all people testing positive (weeks 43 to 29) (Data source: NHS Test and Trace)





Contacts by exposure/activity setting in week 29, England (Data source: NHS Test and Trace)

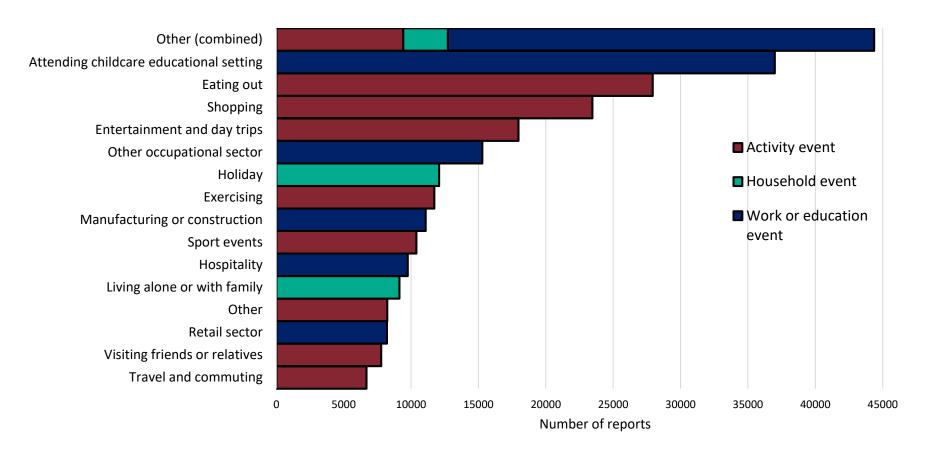


Note: categories have been grouped as follows: leisure / community includes eating out, attending events and celebrations, exercising, worship, arts, entertainment or recreation, community activities and attending play groups or organised trips; other workplace includes: retail, manufacturing or construction, hospitality, transport, emergency services or border force, food production and agriculture, prison, financial services, civil service or local government, information and communication, military, critical national infrastructure. Personal services include hairdressers, barbers, tattooists and nail bars.

29 July 2021

Public Health England

Events and activities reported by people testing positive, prior to symptom onset in week 29, England (Data source: NHS Test and Trace)



Note: 'Other' includes a wide range of different activities and settings, each of which has small numbers of individuals, as well as activities which did not fit any specific category and were added as Other by the case. This includes: all within 'activities': Arts, entertainment or recreation; Civil service or government; Close contact services; Community and charity activities; Critical national infrastructure; Emergency services; Financial services; Food production; Hospitality; Immigration border services; Information and communication; Military; Personal care; Prison; Private events and celebrations; Public events and mass gathering; event within a shared household; Sport events; Supported living; Teaching and education; Transport; 'Other (combined)' includes all exposure group types that have small counts such as "went to church", "went to the zoo" within that event type.

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Surveillance in 'educational-age' cohorts

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Methodology and limitations

- Data source: SGSS Pillar 1 (NHS and PHE testing) and Pillar 2 (community testing) England
- Educational-age cohorts have been calculated using dates of birth that correspond to a particular year group. School year groups run from 1 September to 31 of August of the following calendar year.
- We include all cases regardless of whether or not they attended an educational setting or whether or not the educational setting was open during the reporting period
- Data for the most recent week are provisional and likely to be an underestimate

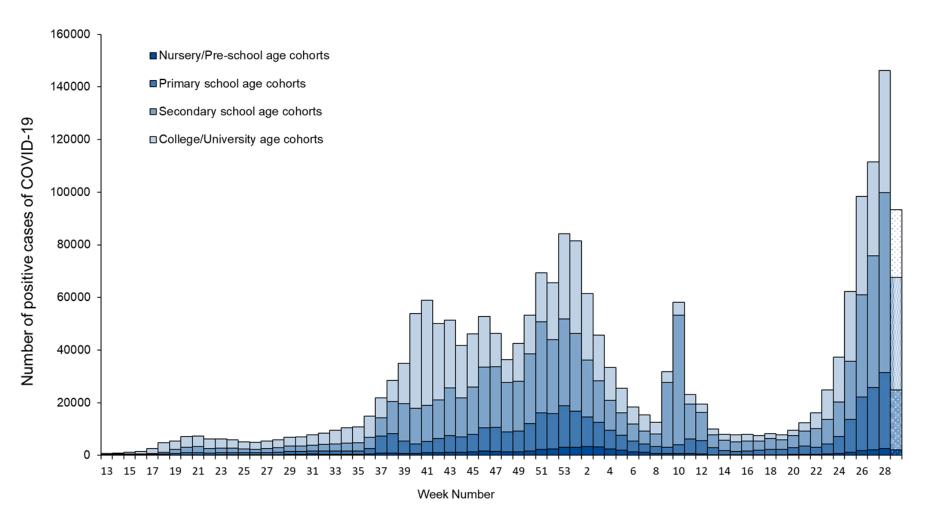


• The table aside represents the birth cohorts for each year group

| | | | |
|------------|------------|------------|------------|
| Birt | Year group | | |
| 01/09/1998 | to | 31/08/1999 | Uni Year 4 |
| 01/09/1999 | to | 31/08/2000 | Uni Year 3 |
| 01/09/2000 | to | 31/08/2001 | Uni Year 2 |
| 01/09/2001 | to | 31/08/2002 | Uni Year 1 |
| 01/09/2002 | to | 31/08/2003 | Year 13 |
| 01/09/2003 | to | 31/08/2004 | Year 12 |
| 01/09/2004 | to | 31/08/2005 | Year 11 |
| 01/09/2005 | to | 31/08/2006 | Year 10 |
| 01/09/2006 | to | 31/08/2007 | Year 9 |
| 01/09/2007 | to | 31/08/2008 | Year 8 |
| 01/09/2008 | to | 31/08/2009 | Year 7 |
| 01/09/2009 | to | 31/08/2010 | Year 6 |
| 01/09/2010 | to | 31/08/2011 | Year 5 |
| 01/09/2011 | to | 31/08/2012 | Year 4 |
| 01/09/2012 | to | 31/08/2013 | Year 3 |
| 01/09/2013 | to | 31/08/2014 | Year 2 |
| 01/09/2014 | to | 31/08/2015 | Year 1 |
| 01/09/2015 | to | 31/08/2016 | Reception |
| 01/09/2016 | to | 31/08/2017 | Pre-school |
| 01/09/2017 | to | 31/08/2018 | Nursery |



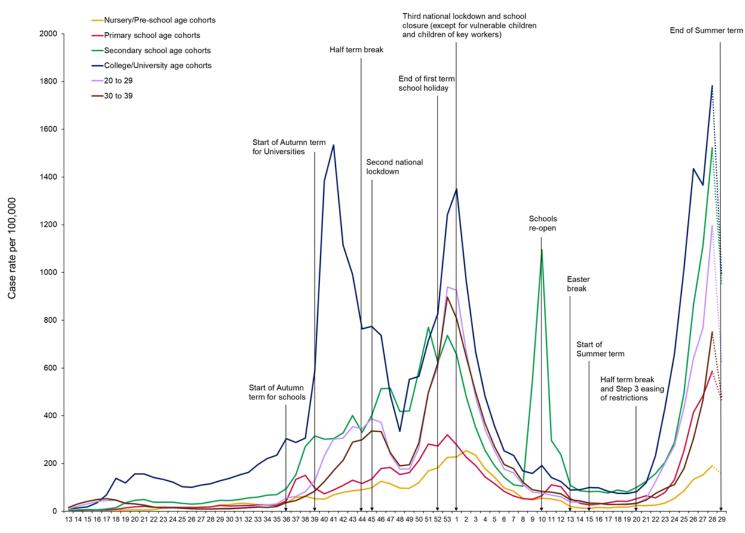
Weekly number of COVID-19 cases in nursery/preschool, primary, secondary and college/university age cohorts



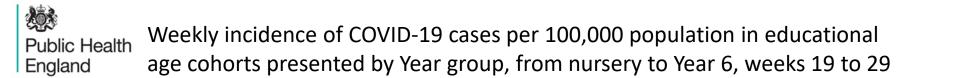
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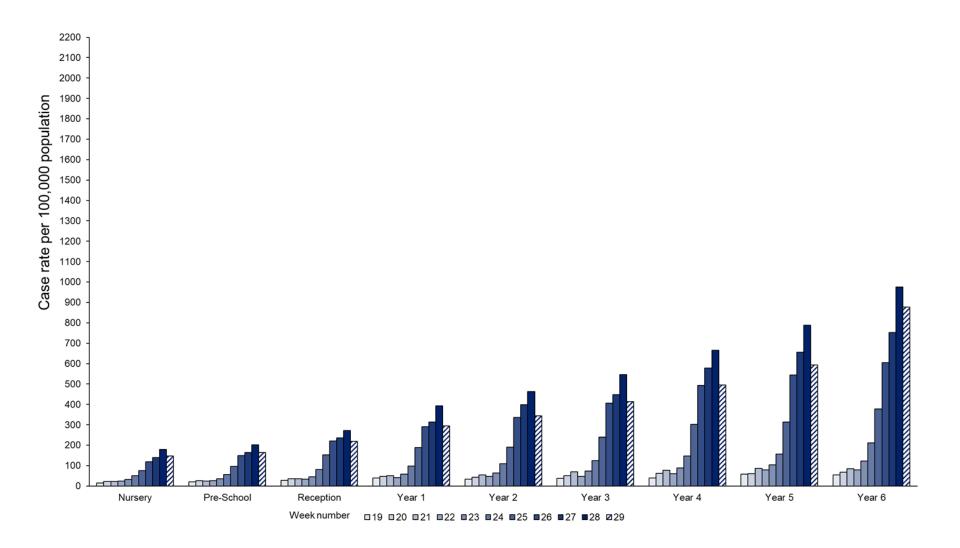


Weekly incidence of COVID-19 cases per 100,000 population in Public Health nursery/preschool, primary school, secondary school and college/university age cohorts

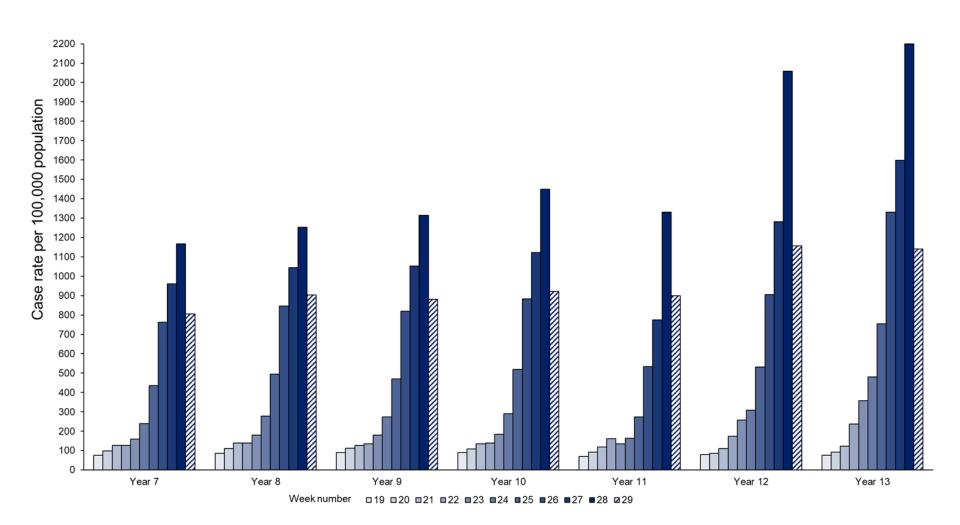


Week number

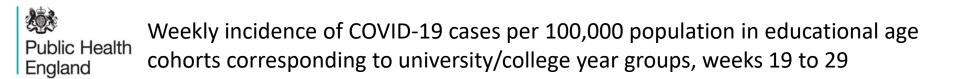


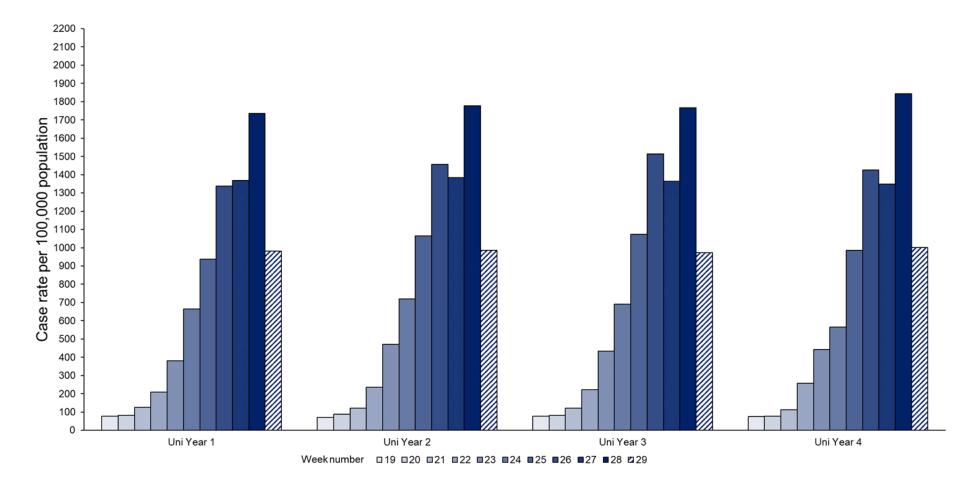


Weekly incidence of COVID-19 cases per 100,000 population in educational Public Health England weeks 19 to 29



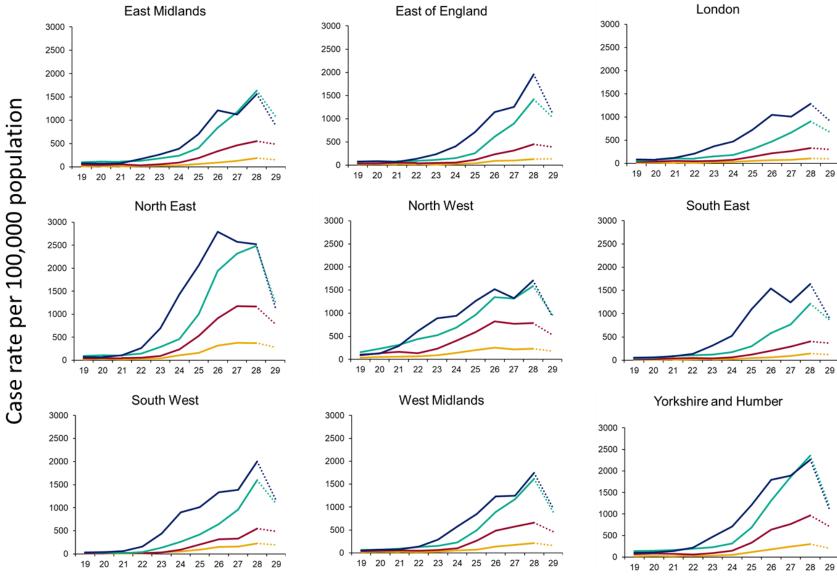
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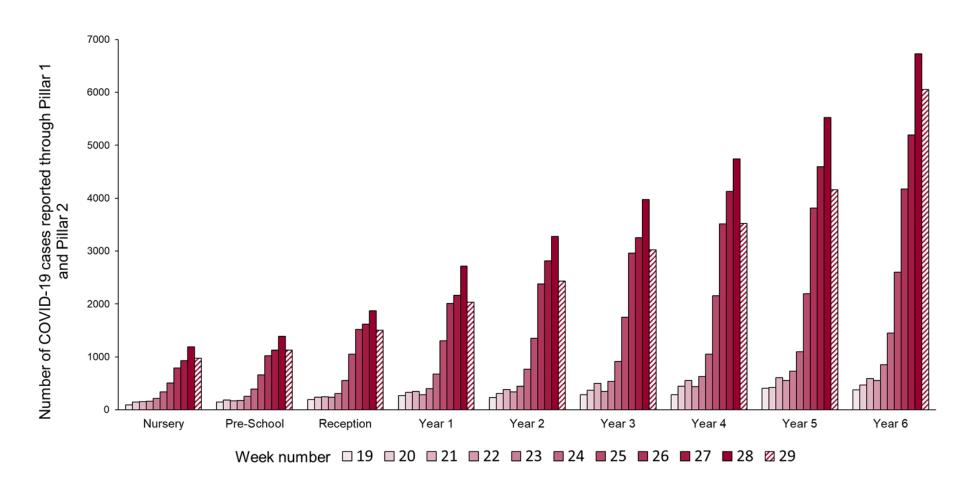


Nublic Health England

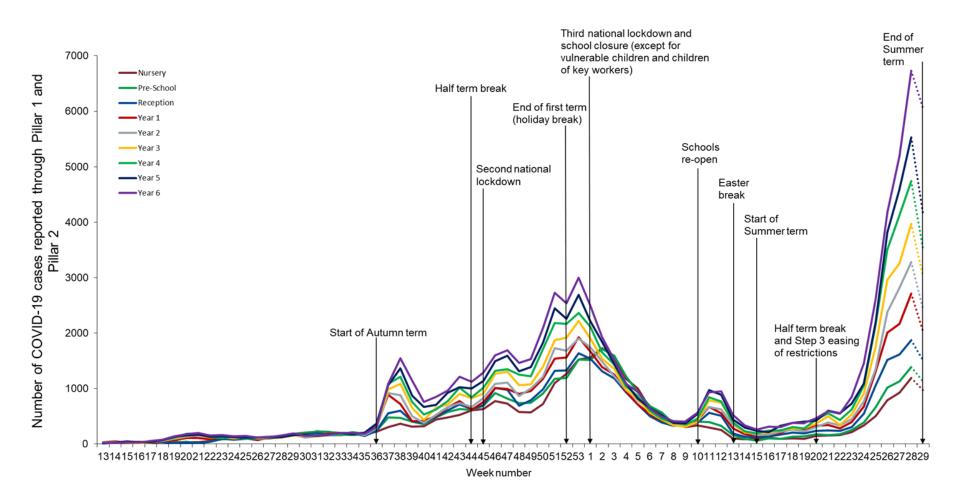
Weekly incidence of COVID-19 cases per 100,000 population by educational age cohorts and PHE region, weeks 19 to 29

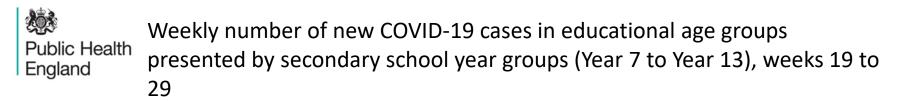


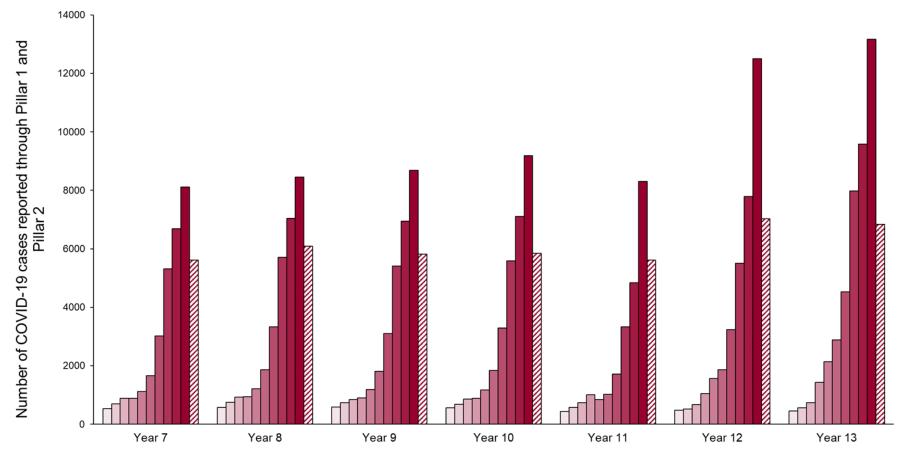
Weekly number of new COVID-19 cases in educational age cohorts presentedPublic HealthEnglandby Year group, from nursery to Year 6, weeks 19 to 29



Public Health Weekly number of new COVID-19 cases in educational age cohorts presented England by Year group, from nursery to Year 6



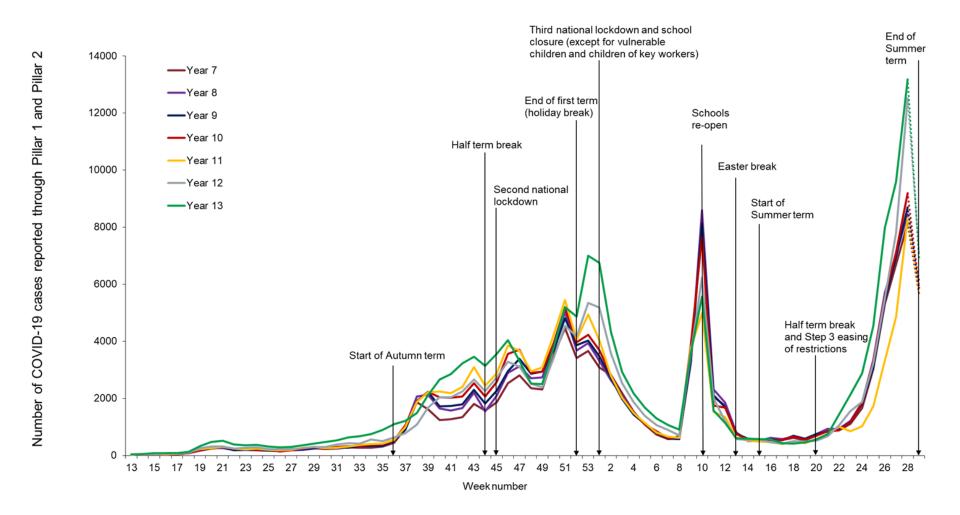




Week number □ 19 □ 20 □ 21 □ 22 □ 23 □ 24 □ 25 □ 26 □ 27 ■ 28 ☑ 29

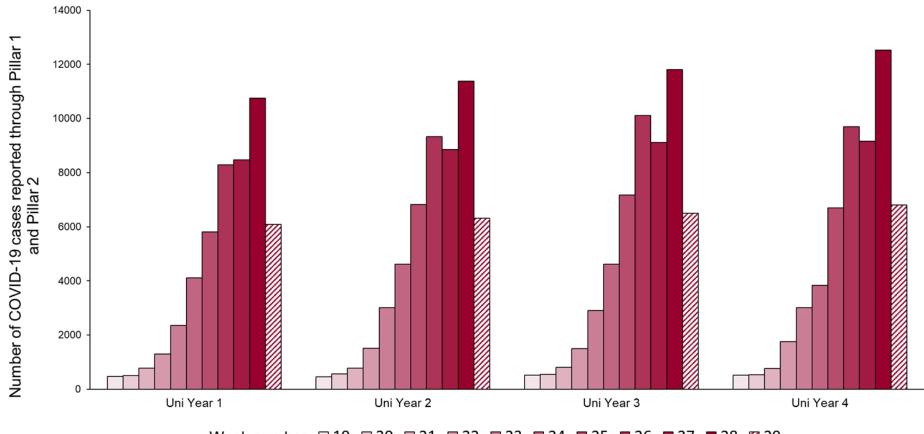
Public Health England

Weekly number of new COVID-19 cases in educational age groups presented by secondary school year groups (Year 7 to Year 13)





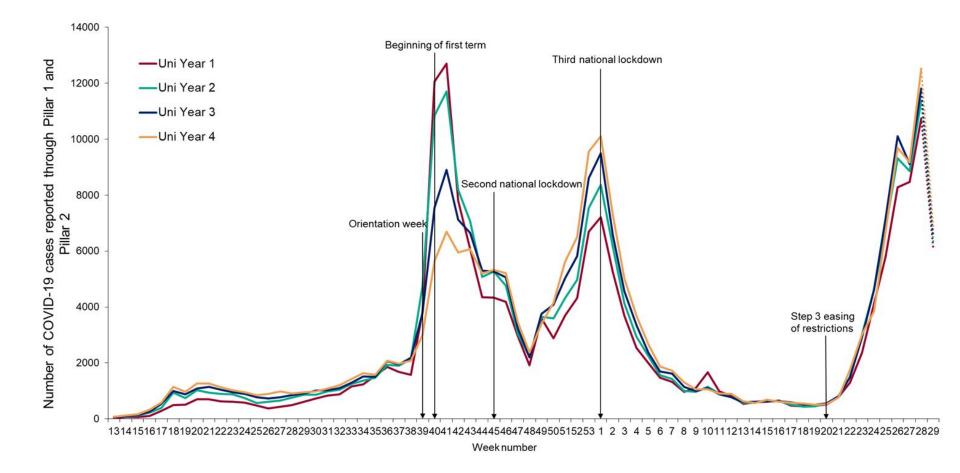
Weekly number of new COVID-19 cases in educational age cohorts corresponding to university/college year groups, weeks 19 to 29



Week number 19 20 21 22 23 24 25 26 27 28 29

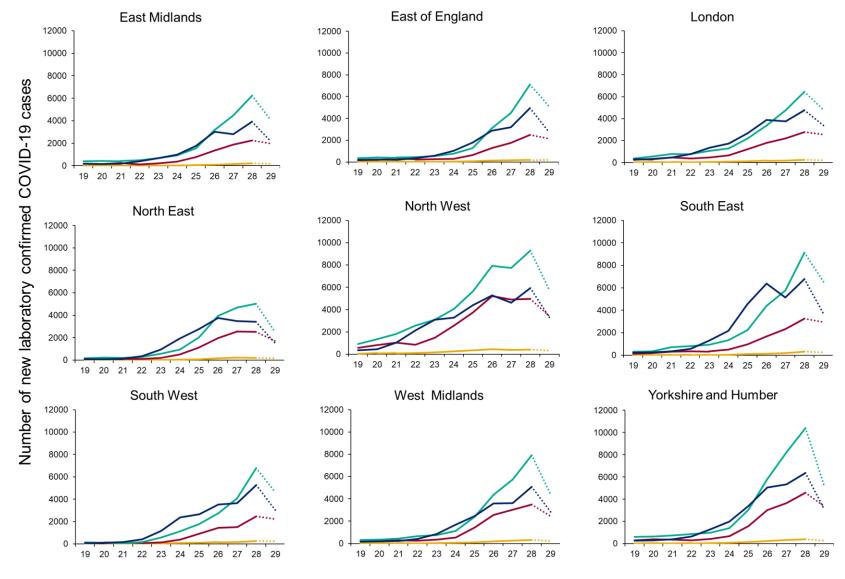
WW Public Health England

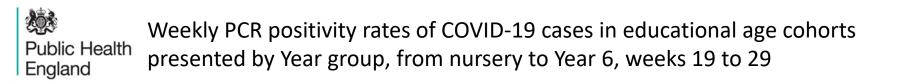
Weekly number of new COVID-19 cases in educational age cohorts corresponding to university/college year groups

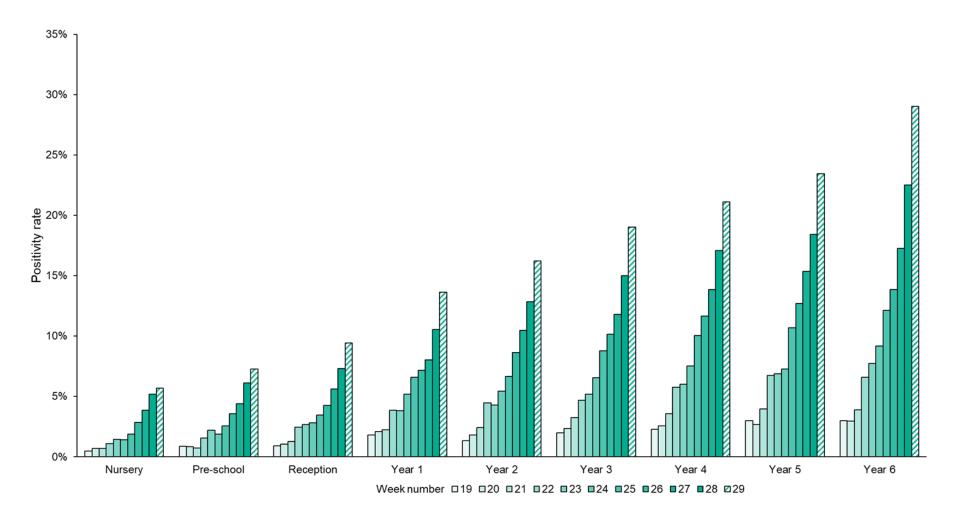




Weekly number of new COVID-19 cases by educational age cohorts and PHE region, weeks 19 to 29

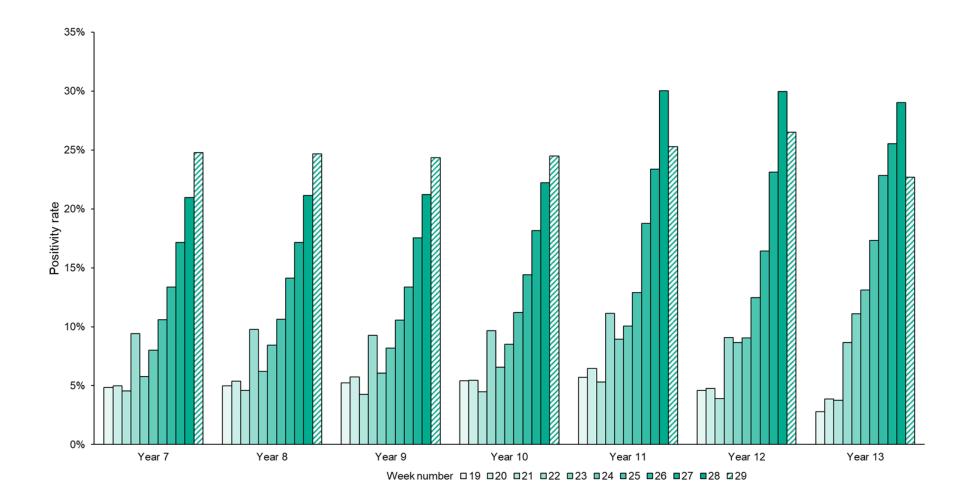




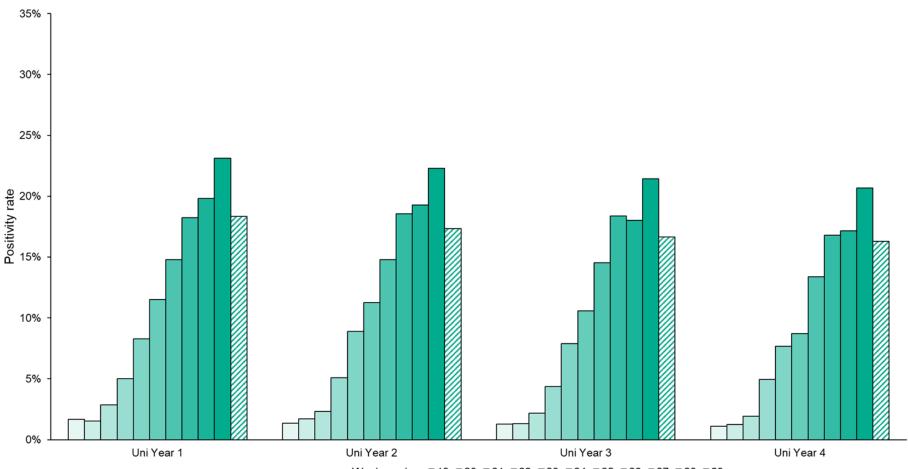


WW Public Health England

Weekly PCR positivity rates of COVID-19 cases in educational age cohorts presented by secondary school year groups (Year 7 to Year 13), weeks 19 to 29

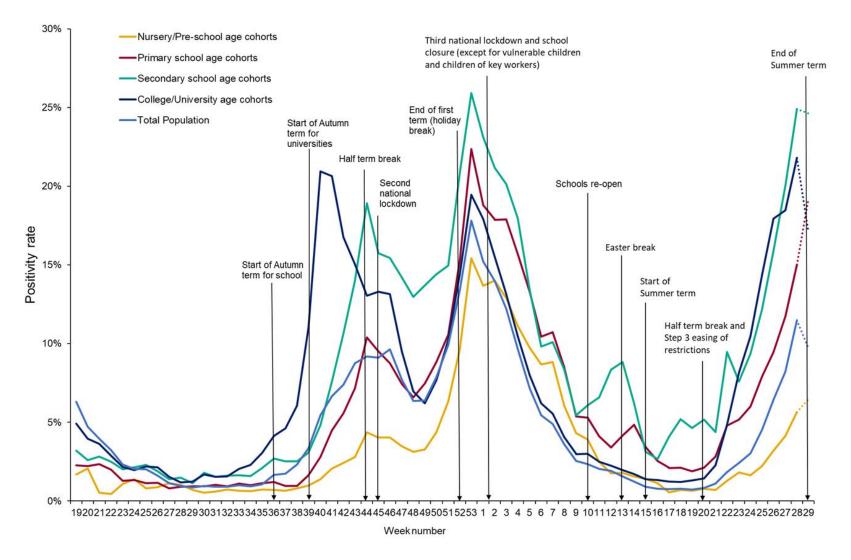


Weekly PCR positivity rates of COVID-19 cases in educational age cohorts corresponding to university/college year groups, weeks 19 to 29



Week number 0 19 0 20 0 21 0 22 0 23 0 24 0 25 0 26 0 27 0 28 0 29

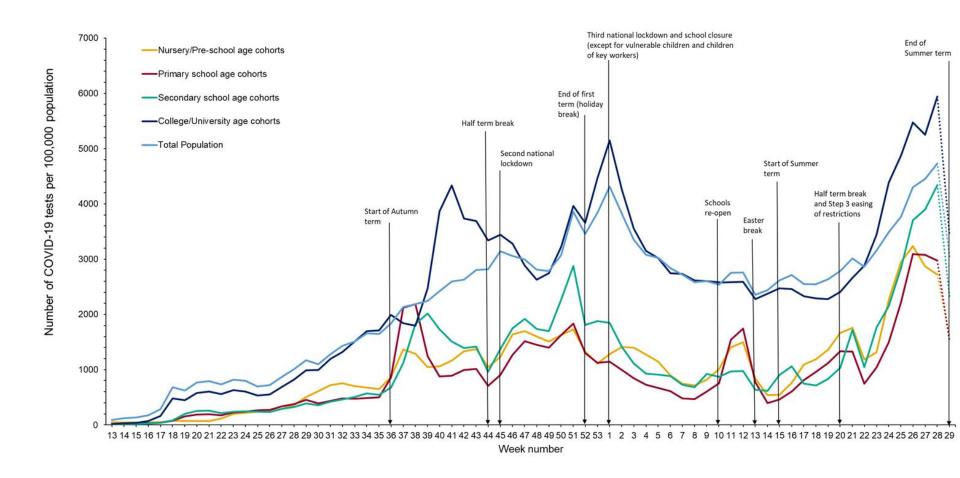
WWW Public Health England Weekly positivity rates of confirmed cases, May 2020 to week 29 2021, in nursery/preschool, primary school, secondary school and college/University age cohorts



• Positivity data presented in this report has been calculated only using PCR from week 19 2020

WW Public Health England

Weekly rate of individuals tested for SARS-CoV-2 by PCR per 100,000 population in nursery/preschool, primary school, secondary school and college/University age cohorts



Positivity data presented in this report has been calculated only using PCR from week 13 2020

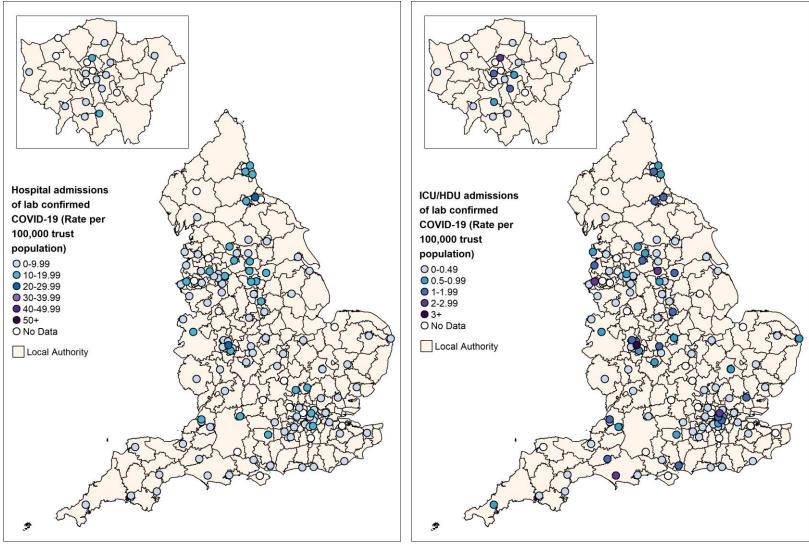
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Secondary Care surveillance



Weekly admission rates for hospital and ICU/HDU laboratory confirmed COVID-19 cases reported through SARI Watch, week 29

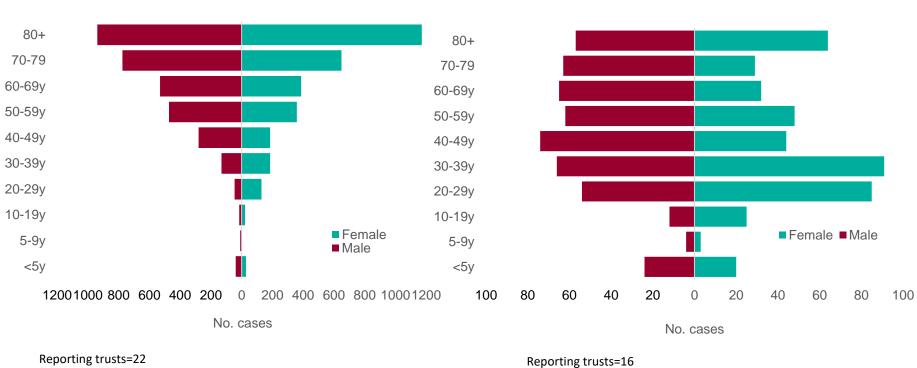


Public Health England

(a) Peak of 2nd wave (week 53 2020 to

week 3 2021) n= 6,359

Age/sex pyramid of hospitalisations (all levels of care) for COVID-19, data from sentinel acute NHS trusts, England



(b) Most recent 4 weeks (week 26 to 29 2021) n=922

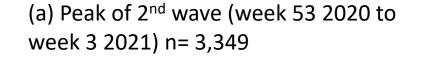
This figure is based on individual patient level data which are provided to SARI Watch from a subset of NHS Acute Trusts, therefore the data should be interpreted with caution as the distribution of age, sex and ethnic group may not be representative of all hospitalised patients.

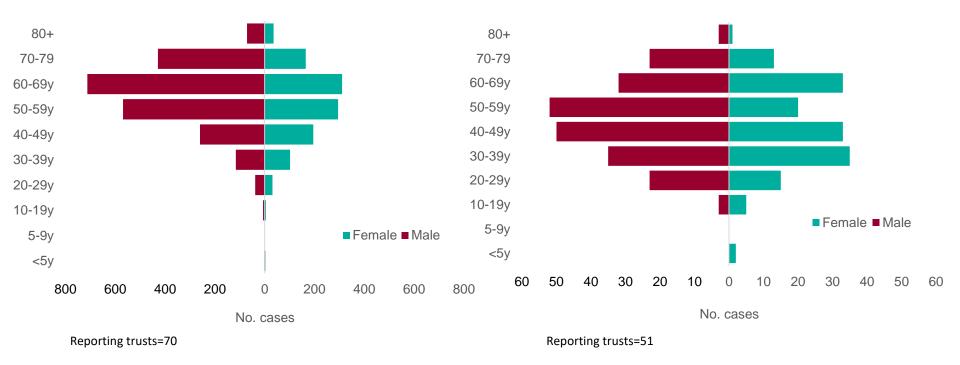
Public Health England

Age/sex pyramid for admissions to ICU/HDU for COVID-19, mandatory case level data, acute NHS trusts, England

2021) n=378

(b) Most recent 4 weeks (week 26 to 29





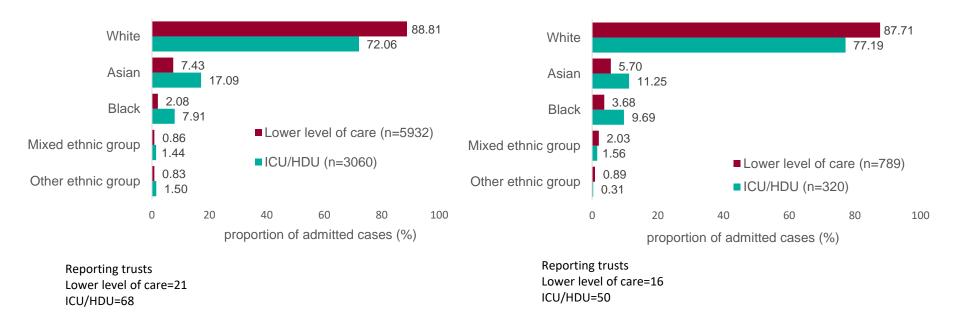
This figure is based on individual patient level data which are provided to SARI Watch from a subset of NHS Acute Trusts, therefore the data should be interpreted with caution as the distribution of age, sex and ethnic group may not be representative of all hospitalised patients.



Laboratory confirmed admissions for COVID-19, to acute NHS trusts, by level of care and ethnicity

(a) Peak of 2nd wave (week 53 2020 to week 3 2021)

(b) Most recent 4 weeks (week 26 to 29 2021)



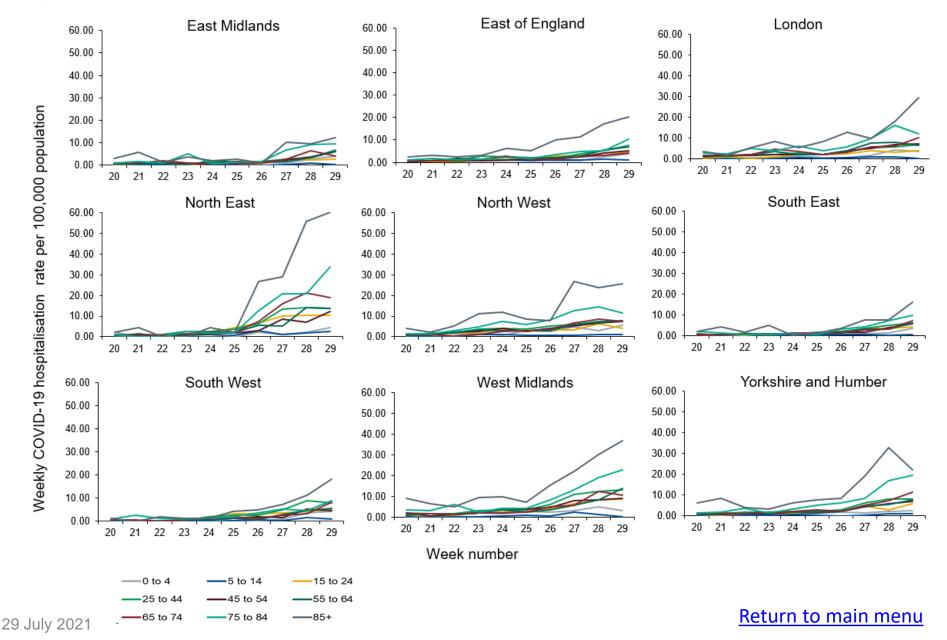
This figure is based on individual patient level data which are provided to SARI Watch from a subset of NHS Acute Trusts, therefore the data should be interpreted with caution as the distribution of age, sex and ethnic group may not be representative of all hospitalised patients.

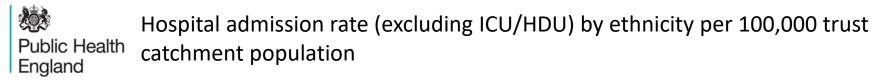
Caveat: From week 24 the ethnicity analysis is based on a new method for assigning ethnicity, developed by PHE. The previous method used the most recent ethnicity recorded through linkage to Hospital Episode Statistics. However, this method led to unfeasibly high rates in the 'Other' ethnic group when applied to COVID-19 cases, hospitalisation or mortality. The new method uses the most <u>frequent</u> ethnicity recorded through linkage to Hospital Episode Statistics. However, this method uses the most <u>frequent</u> ethnicity recorded through linkage to Hospital Episode Statistics, unless the most frequent was 'Other' when the second most frequent was chosen.

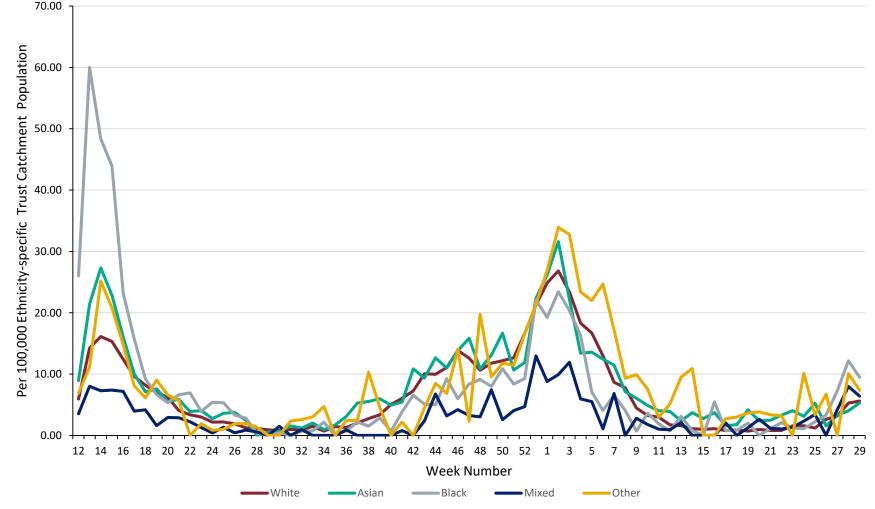
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WW Public Health England

Weekly COVID-19 hospitalisation rate per 100,000 trust catchment population by age group and region, weeks 20 to 29



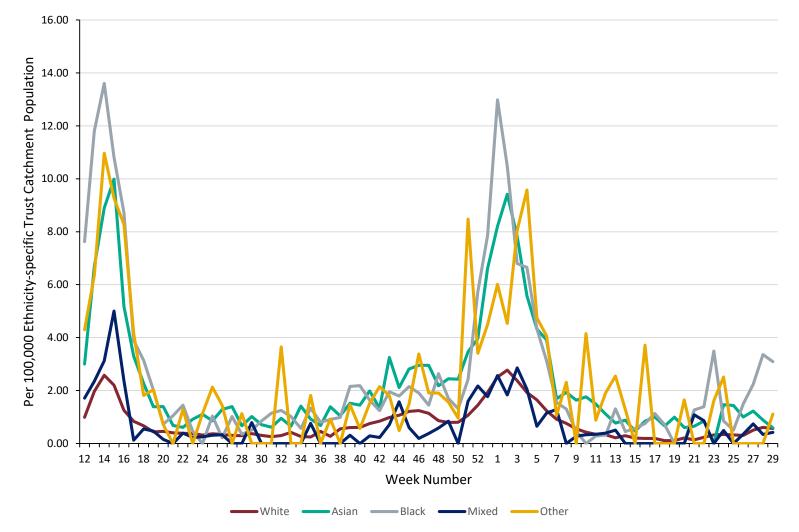




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Rate of admission to ICU/HDU by ethnicity, per 100,000 trust catchment population population



Caveat: From week 24 the ethnicity analysis is based on a new method for assigning ethnicity, developed by PHE. The previous method used the most <u>recent</u> ethnicity recorded through linkage to Hospital Episode Statistics. However, this method led to unfeasibly high rates in the 'Other' ethnic group when applied to COVID-19 cases, hospitalisation or mortality. The new method uses the most <u>frequent</u> ethnicity recorded through linkage to Hospital Episode Statistics, unless the most <u>frequent</u> ethnicity recorded through linkage to Hospital Episode Statistics, unless the most frequent was 'Other' when the second most frequent was chosen.

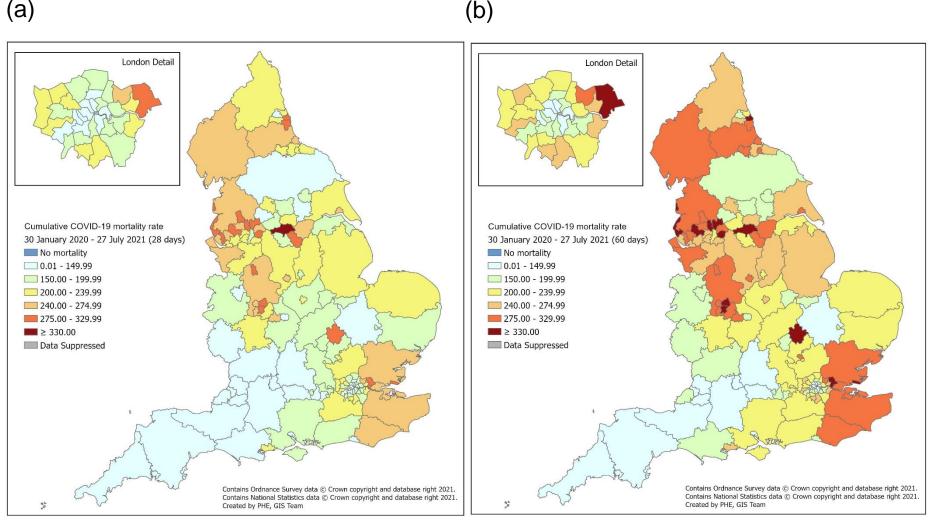
29 July 2021



Mortality surveillance

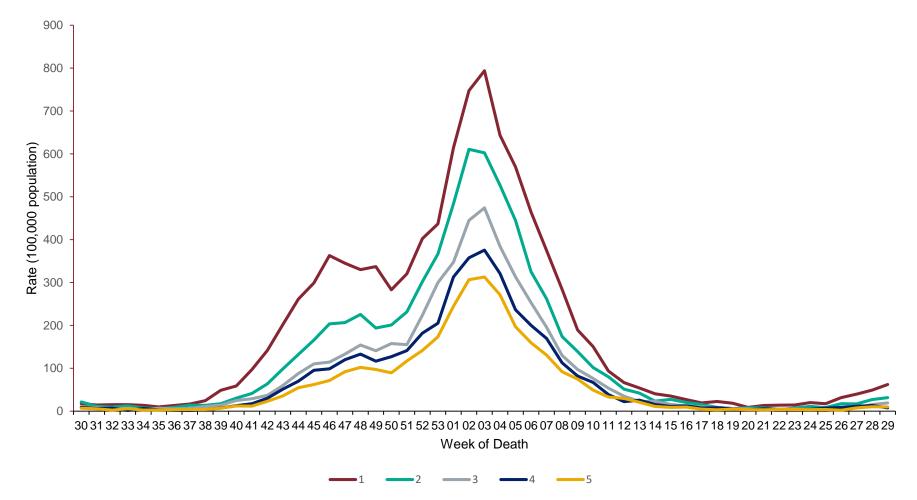
Public Health England

Cumulative mortality rate of COVID-19 cases per 100,000 population tested under Pillar 1 and 2 since the beginning of the pandemic by (a) 28 day definition and (b) 60 day definition



(b)

Image: Public HealthAge-adjusted mortality rate** (per 100,000 population) in laboratory-confirmedEnglandcases of COVID-19 by IMD quintile, by week using the 60 day definition



**Rates are time-adjusted: a weekly population denominator has been used to calculate the mortality rate



Possible reinfections in England

(updated monthly)

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Possible reinfections in England

The following figures present population data based on the first time that individuals tested positive for SARS-CoV-2 through PCR and/ or lateral flow device testing in England together with those who have tested positive for SARS-CoV-2 through PCR and/ or lateral flow testing with an interval of at least 90 days between two consecutive positive tests. This excludes positive LFD test results removed from the main SGSS dataset because the LFD test positive result was followed by a negative PCR result within 3 days and LFD test results where we have had feedback that a positive result was entered in error. The interval of 90 days is in line with the definition currently adopted within Siren, by CDC in their definition of a person to prioritise for investigation of suspected SARS-CoV-2 reinfection and the draft definition being considered by the World Health Organisation for a suspected reinfection.

These figures present population level data that complements studies that can undertake more detailed investigation at an individual level as exemplified by SIREN the large multicentre prospective cohort study that has followed around 45,000 participants employed by NHS hospitals. In line with <u>other studies</u>, this suggested that those with serological evidence of a previous SARS_CoV-2 infection had an 84% lower risk of infection than those without evidence of prior infection over a median 7-month period.

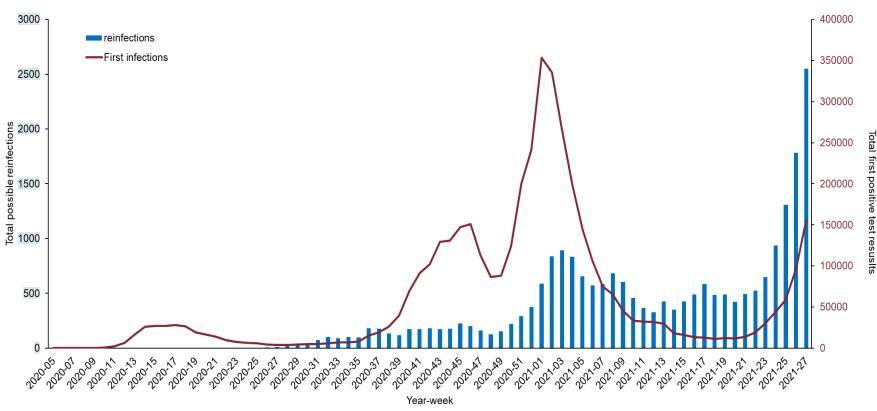
For a possible reinfection to be categorised as confirmed they require sequencing of a specimen at each episode and for the second specimen to be genetically distinct from that sequenced from the first episode. Availability of such dual sequencing is currently very low for several reasons; sequencing was not widely undertaken early in the pandemic; LFD test results do not allow sequencing and some PCR samples have a low viral load where sequencing cannot be undertaken. To meet the definition of a probable reinfection requires sequencing at the second episode that identifies a variant that was not circulating at the time of the first episode.

Further data on reinfections is published in the weekly Influenza and COVID-19 surveillance report.



Possible reinfections in England

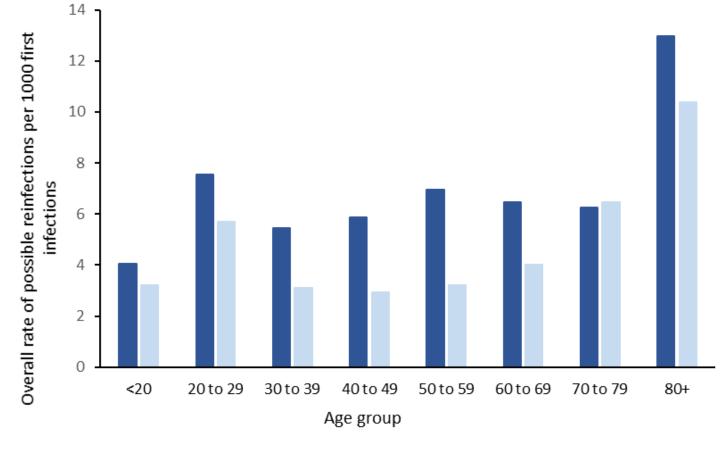
It is important to consider reinfections in the context of first infections and there is a 90-day delay before people with a first infection can become eligible for reinfection. The above graph shows: numbers of possible reinfections and numbers of first infections (secondary Y-axis) by week of onset (based on sample date throughout) through the weeks of the pandemic



*These data have been derived independently based on P1 and P2 datasets and may therefore differ to previously published data.



The age and sex distribution of possible reinfections by overall rate per 1000 first infections (up to week 27) by sex and age group in England



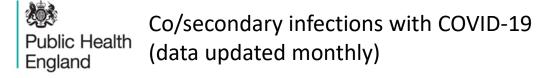
Female Male



Co/secondary infections with COVID-19

(updated monthly)

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- Caveat undertesting for other pathogens may result in an underestimate of co/secondary infection cases.
- Co/secondary infections refers to when a patient has an infection with more than one pathogen at the same time (co-infection), or acquires another infection after contracting the first infection (secondary infection).
- Numbers of co/secondary infection remain low across PHE surveillance systems except for patients with severe respiratory failure requiring Extra Corporeal Membrane Oxygenation (ECMO). Analysis of COVID-19 cases with severe respiratory failure requiring ECMO indicates co/secondary infections among these account for just less than a third of all severe respiratory failure cases due to infection.
- Preliminary data analysis from the first pandemic wave indicates that health care associated infections, *Streptococcus pneumoniae*, influenza, *Aspergillus* and *Candidemia* cases and cases with severe respiratory failure requiring ECMO have increased risk of mortality in comparison to patients without co/secondary infection.

Definitions agreed with DAs



Co/secondary infections among Extra Corporeal Membrane Oxygenation (ECMO) patients (patients with most severe clinical respiratory signs)

Analysis is based on cumulative data on ECMO activity from week 40 2019 (30 September 2019) to week 23 2021 (ending 13 June 2021) to cover two complete seasons. This period includes data from the first and second waves of the pandemic. COVID-19 cases are from week 05 2020 (commencing 27 Jan 2020) due to retrospective reporting.

- 31% (189/614) of ECMO patients with a laboratory confirmed respiratory infection (all aetiologies) had a co/secondary infection reported.
- 43% (16/37) of ECMO patients with a laboratory confirmed influenza had co/secondary infections
- 31% (158/514) of ECMO patients with laboratory confirmed COVID-19 had co/secondary infections. Of these 158 cases, the most frequent co/secondary infections in COVID-19 cases were Gram-negative bacilli (n=56) and fungi (n=32), accounting for 56% (88/158).



Co/secondary infections among patients with Healthcare Associated Infections: Blood stream and respiratory infections (bacterial and fungal) in COVID-19 patients in England in wave 2 by COVID-19 diagnosis (29 June 2020 to 28 February 2021)

- 0.2% of COVID-19 patients had a key bacterial/fungal coinfection (±1 day of first SARS-CoV-2 positive specimen date), or secondary infection (between 2 days and <28 days after the SARS-CoV-2 positive specimen date)
 - Of all COVID-19 patients, 0.05% had a key respiratory infection; 0.1% had a key bloodstream infection.
 - This equates to over seven thousand cases, presenting a significant and sustained burden to hospitals.
- 82% of co/secondary infections of any site^{*} were categorised as secondary infections.
- Most frequent species identified from co/secondary infection isolates were:
 - **Respiratory:** *Staphylococcus aureus, Pseudomonas aeruginosa, Klebsiella pneumonia and Escherichia coli.*
 - **Blood:** Escherichia coli, Staphylococcus aureus, Enterococcus faecium and Klebsiella pneumoniae.
- Co-infections continued to occur more frequently in the elderly; those aged ≥60y accounted for more than three-quarters (77%) of co-infections and 65% of secondary infections.

^{*} Includes Respiratory, Bloodstream, Clostridioides difficile infection (CDI), as well as any combination of Respiratory, Bloodstream infection and CDI

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Co/secondary infection with respiratory viruses, vaccine preventable bacteria and fungi

| Bacteria/Fungi/Virus | First Wave (30 Jan 2020 - 28 Jun 2020) | Second Wave (29 June 2020 - 25 June 2021) | Total Cases |
|--|---|--|-------------|
| Influenza A | 33 | 4 | 37 |
| Influenza B | 13 | 9 | 22 |
| Influenza A & B | 1 | 0 | 1 |
| Flu (not typed) | 1 | 0 | 1 |
| Parainfluenza (any subtype) | 14 | 12 | 26 |
| Seasonal coronavirus | 111 | 56 | 167 |
| Enterovirus | 5 | 7 | 12 |
| Adenovirus | 14 | 13 | 27 |
| Rhinovirus | 97 | 61 | 158 |
| RSV | 23 | 5 | 28 |
| Human metapneumovirus | 55 | 1 | 56 |
| Aspergillus fumigatus ISOLATES (azole resistant) | 46 (4) | 125 (2) | 171 (6) |
| Probable/Proven cases of CAPA | 15 | 41 | 56 |
| Candida spp.: Candidemia | 63 | 134 | 197 |
| Bordetella pertussis | 0 | 0 | 0 |
| Haemophilus influenzae | 3 | 2 | 5 |
| Neisseria meningitidis | 2 | 0 | 2 |
| Streptococcus pneumoniae | 40 | 45 | 85 |

Please note fungal data refers to secondary infections only.

The UK moved out of influenza season in early 2020/21 when COVID-19 increase began in March 2020.

Data contains results from two systems (Respiratory DataMart system and SGSS).

Mycology data contains results from Mycology reference laboratory data, Candidaemia is representative of deep infection. One case of osteomyelitis and one case of ventriculitis were documented in wave two.

Legionella, Mycoplasma and gastrointestinal infection data not included.