

In the format provided by the authors and unedited.

Modelling the COVID-19 epidemic and implementation of population-wide interventions in Italy

Giulia Giordano¹✉, Franco Blanchini², Raffaele Bruno^{3,4}, Patrizio Colaneri^{5,6}, Alessandro Di Filippo³, Angela Di Matteo³ and Marta Colaneri³

¹Department of Industrial Engineering, University of Trento, Trento, Italy. ²Dipartimento di Scienze Matematiche, Informatiche e Fisiche, University of Udine, Udine, Italy. ³Division of Infectious Diseases I, Fondazione IRCCS Policlinico San Matteo, Pavia, Italy. ⁴Department of Clinical, Surgical, Diagnostic, and Paediatric Sciences, University of Pavia, Pavia, Italy. ⁵Dipartimento di Elettronica, Informazione e Bioingegneria, Politecnico di Milano, Milano, Italy. ⁶IEIT-CNR, Milano, Italy. ✉e-mail: giulia.giordano@unitn.it

							Positive of which		
	Day	Cumulative cases	Deaths	Recovered	Positive	CFR	Hospitalised	ICU	At home
*	20-feb-20	3	0	0	3	0,000	NA	NA	NA
*	21-feb-20	20	1	0	19	0,050	NA	NA	NA
*	22-feb-20	79	2	0	77	0,025	NA	NA	NA
PC	23-feb-20	132	2	1	129	0,015	54	26	49
PC	24-feb-20	219	5	1	213	0,023	99	23	91
PC	25-feb-20	322	10	1	311	0,031	114	35	162
PC	26-feb-20	400	12	3	385	0,030	128	36	221
PC	27-feb-20	650	17	45	588	0,026	248	56	284
PC	28-feb-20	888	21	46	821	0,024	345	64	412
PC	29-feb-20	1128	29	50	1049	0,026	401	105	543
PC	01-mar-20	1694	34	83	1577	0,020	639	140	798
PC	02-mar-20	2036	52	149	1835	0,026	742	166	927
PC	03-mar-20	2502	79	160	2263	0,032	1034	229	1000
PC	04-mar-20	3089	107	276	2706	0,035	1346	295	1065
PC	05-mar-20	3858	148	414	3296	0,038	1790	351	1155
PC	06-mar-20	4636	197	523	3916	0,042	2394	462	1060
PC	07-mar-20	5883	233	589	5061	0,040	2651	567	1843
PC	08-mar-20	7375	366	622	6387	0,050	3557	650	2180
PC	09-mar-20	9172	463	724	7985	0,050	4316	733	2936
PC	10-mar-20	10149	631	1004	8514	0,062	5038	877	2599
PC	11-mar-20	12462	827	1045	10590	0,066	5838	1028	3724
PC	12-mar-20	15113	1016	1258	12839	0,067	6650	1153	5036
PC	13-mar-20	17660	1266	1439	14955	0,072	7426	1328	6201
PC	14-mar-20	21157	1441	1966	17750	0,068	8372	1518	7860
PC	15-mar-20	24747	1809	2335	20603	0,073	9663	1672	9268
PC	16-mar-20	27980	2158	2749	23073	0,077	11025	1851	10197
PC	17-mar-20	31506	2503	2941	26062	0,079	12894	2060	11108
PC	18-mar-20	35713	2978	4025	28710	0,083	14363	2257	12090
PC	19-mar-20	41035	3405	4440	33190	0,083	15757	2498	14935
PC	20-mar-20	47021	4032	5129	37860	0,086	16020	2655	19185
PC	21-mar-20	53578	4825	6072	42681	0,090	17708	2857	22116
PC	22-mar-20	59138	5476	7024	46638	0,093	19846	3009	23783
PC	23-mar-20	63927	6077	7432	50418	0,095	20692	3204	26522
PC	24-mar-20	69176	6820	8326	54030	0,099	21937	3396	28697
PC	25-mar-20	74386	7503	9362	57521	0,101	23112	3489	30920
PC	26-mar-20	80539	8165	10361	62013	0,101	24753	3612	33648
PC	27-mar-20	86498	9134	10950	66414	0,106	26029	3732	36653
PC	28-mar-20	92472	10023	12384	70065	0,108	26676	3856	39533
PC	29-mar-20	97689	10779	13030	73880	0,110	27386	3906	42588
PC	30-mar-20	101739	11591	14620	75528	0,114	27795	3981	43752
PC	31-mar-20	105792	12428	15729	77635	0,117	28192	4023	45420
PC	01-apr-20	110574	13155	16847	80572	0,119	28403	4035	48134
PC	02-apr-20	115242	13915	18278	83049	0,121	28540	4053	50456
PC	03-apr-20	119827	14681	19758	85388	0,123	28741	4068	52579
PC	04-apr-20	124632	15362	20996	88274	0,123	29010	3994	55270
PC	05-apr-20	128948	15887	21815	91246	0,123	28949	3977	58320

* Source: Unofficial data (newspapers, press, statements etc)

PC Source: Official data "Ministero della Salute" and "Protezione Civile"