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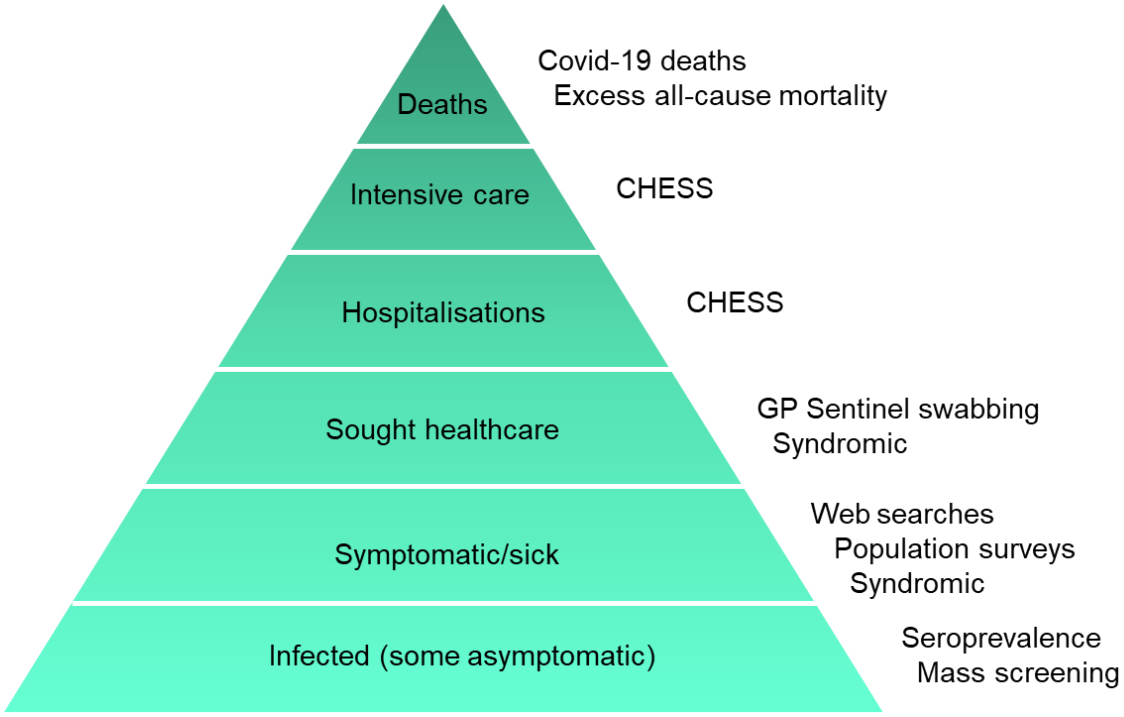
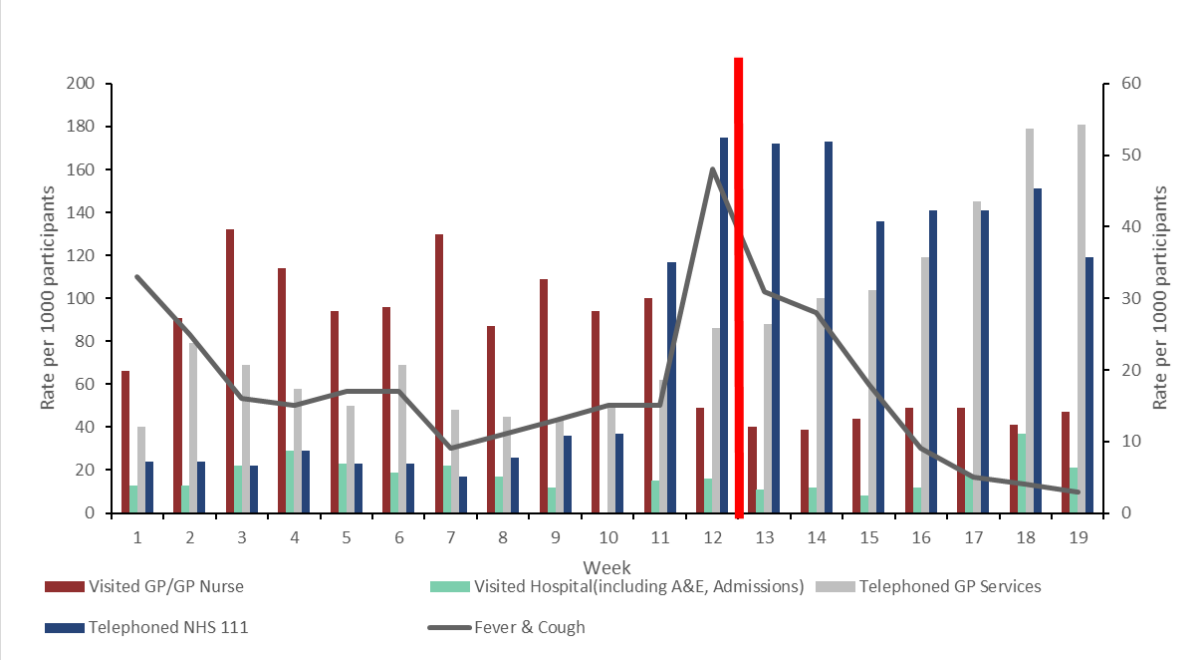


Supplementary Figure 1: COVID-19 Surveillance Pyramid

CHESS = COVID-19 Hospitalisations in England Surveillance System

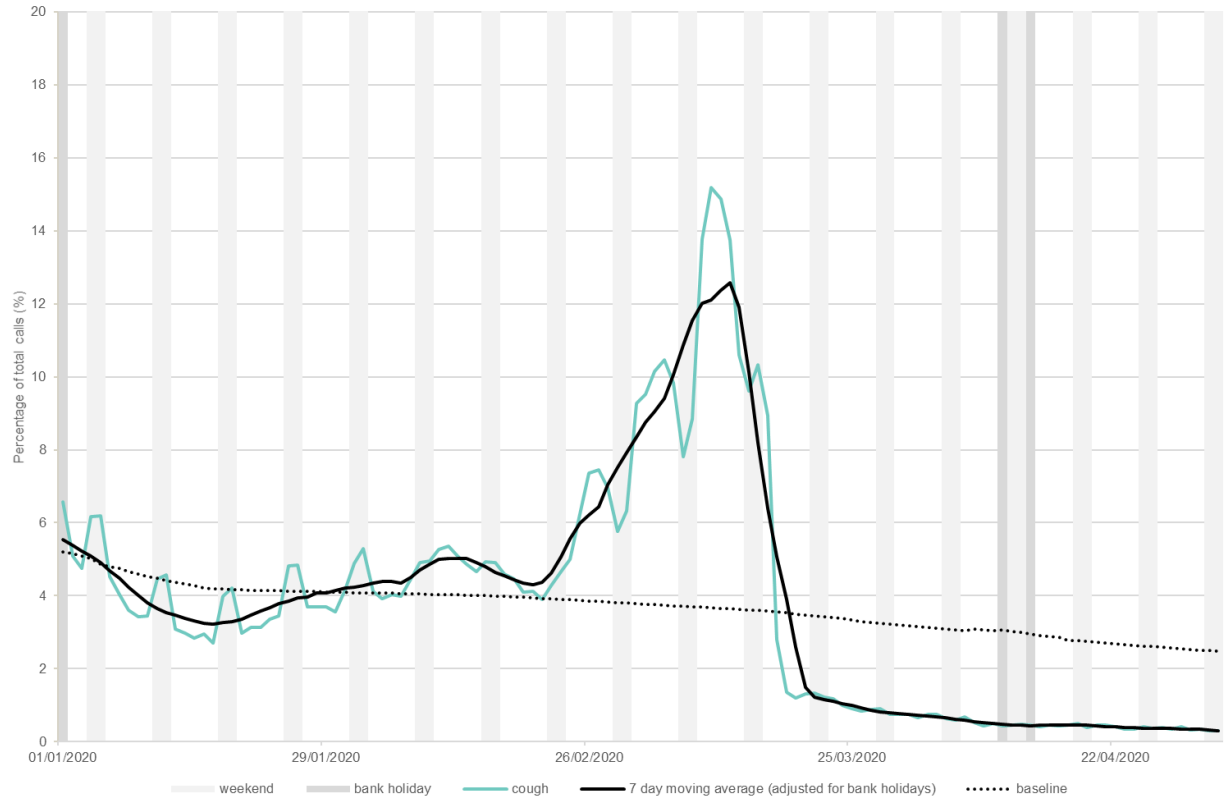
Supplementary Figure 2: Rate of fever and cough among FluSurvey participants and their contact with different healthcare services, week 09 to 19. Red vertical line indicates introduction of mandatory SPDM



Supplementary Table 1: Time from symptom onset to first contact with health services (FluSurvey)

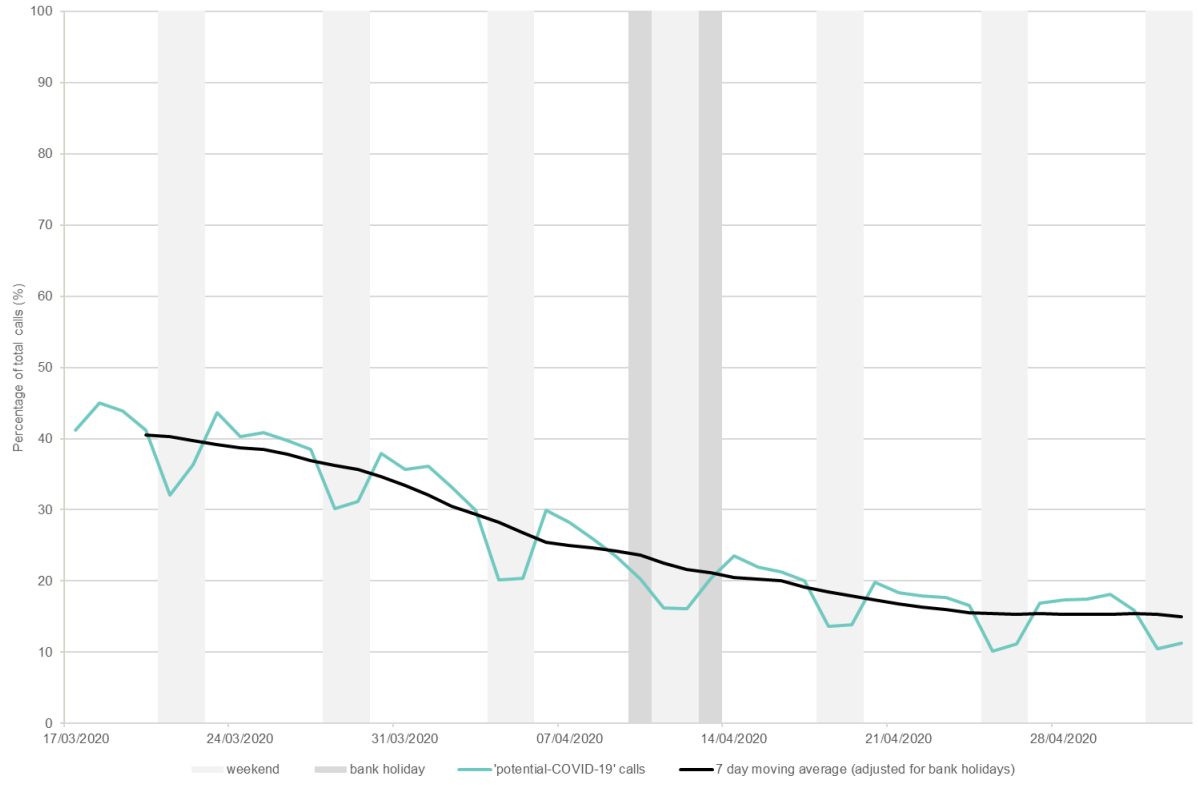
Time from symptom onset to contact	**Percentage accessing Health Service**					
	Visited			**Called**		
	GP	**Hospital Admission**	**ED**	**GP Reception**	**GP/Nurse**	**NHS111**
Same day	2.4	17.3	18	10	6.7	24.9
1 day	4.6	9.3	11.6	10.4	7	16.4
2 days	5.1	6.7	7.6	6.8	6.8	10.7
3 days	6.7	4	6.4	7.8	11.1	9.2
4 days	7.1	0	5.8	7.4	6.8	6.5
5-7 days	18.4	24	20.4	14.9	17.3	12.2
More than 7 days	52	33.3	29.1	40.8	41.4	16.8
don't know/can't remember	3.5	5.3	1.2	1.9	2.9	3.3
Total Number of respondent	**963**	**75**	**172**	**309**	**781**	**920**

Supplementary Figure 3: NHS 111 cough, daily calls, as a percentage of all calls (and 7-day moving average)

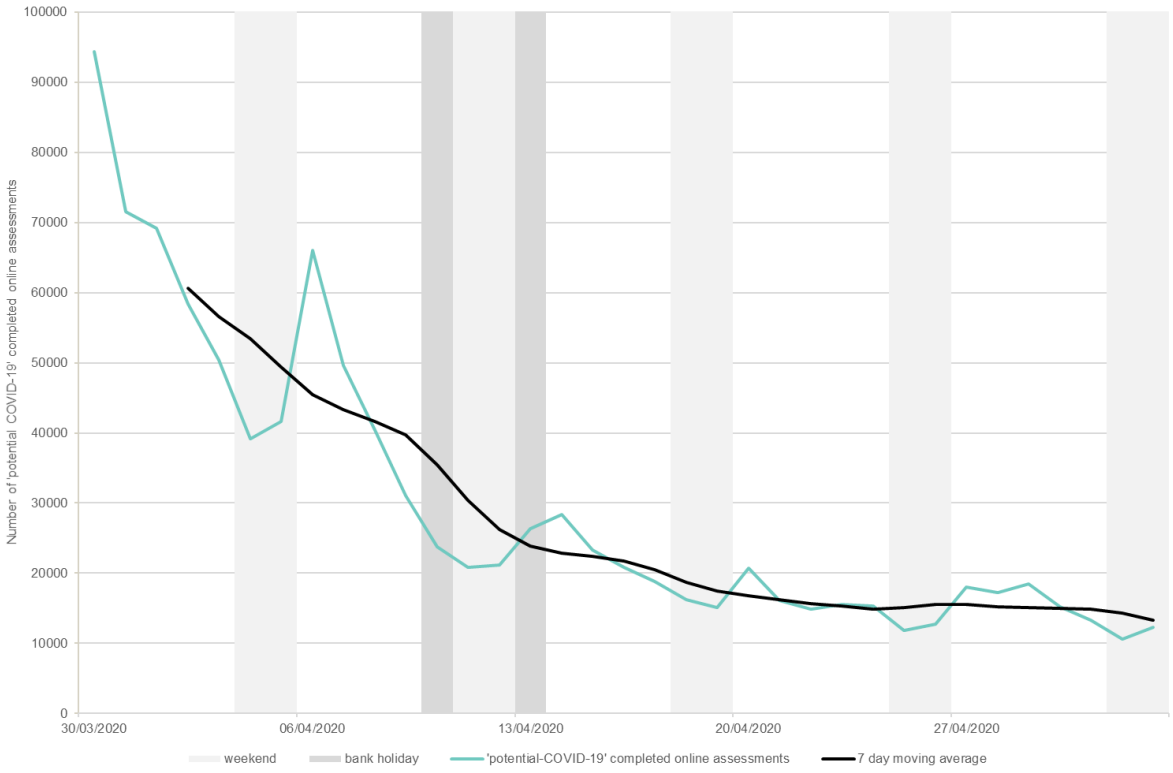


Supplementary Figure4: NHS 111 'potential COVID-19' (a) completed calls and (b) online assessments which have a 'potential COVID-19' final disposition (and 7-day moving average)

(a)

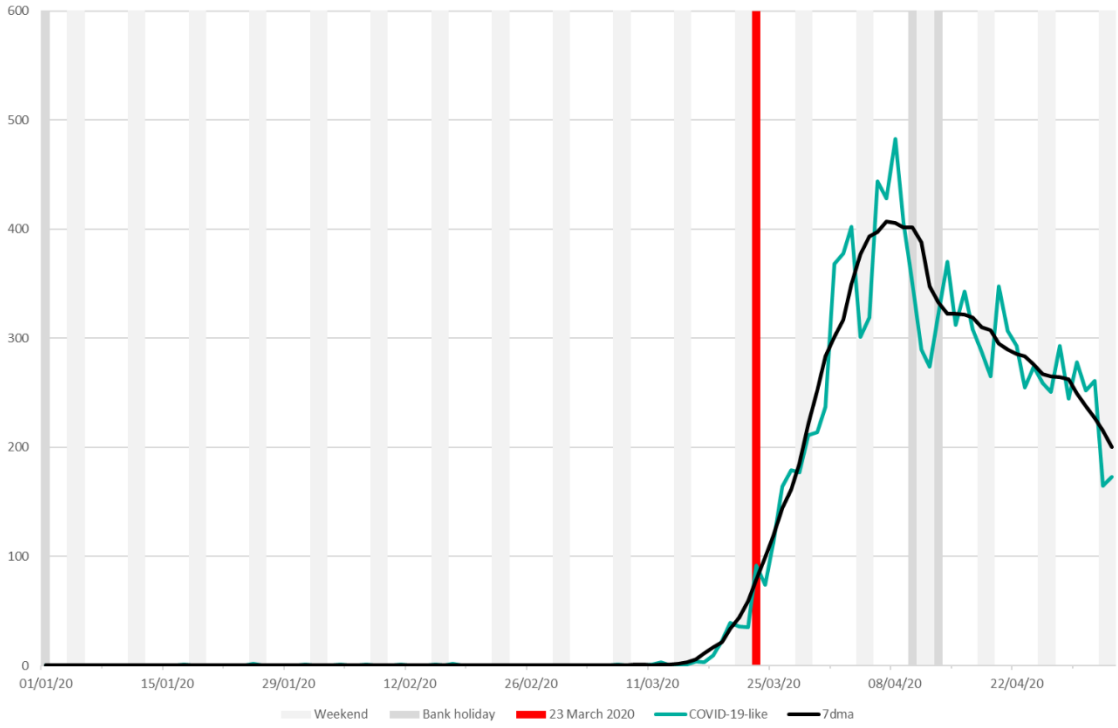


(b)

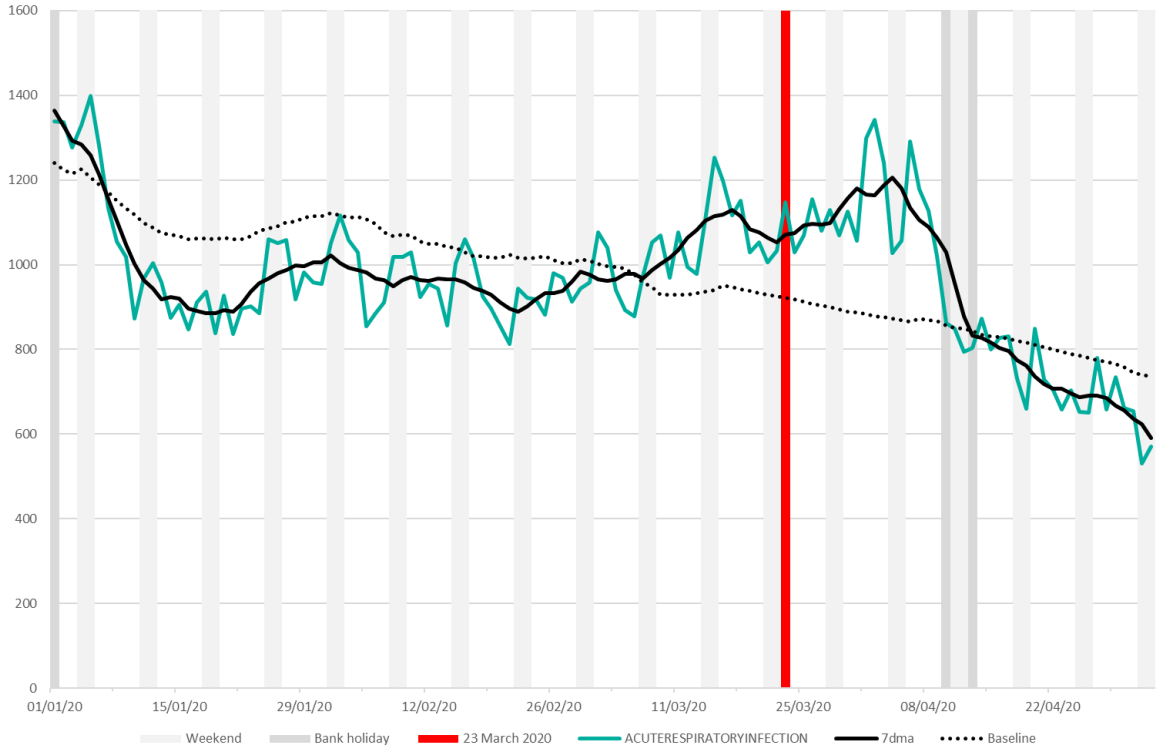

100000
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
Number of 'potential COVID-19' completed online assessments
30/03/2020
06/04/2020
13/04/2020
20/04/2020
27/04/2020
weekend
bank holiday
'potential-COVID-19' completed online assessments
7 day moving average

Supplementary Figure 5: (a)ED COVID-19-like, daily attendances, as the number of attendances with a COVID-19 related primary diagnosis code (and 7-day moving average); (b) ED acute respiratory infection (ARI), daily attendances, as the number of attendances with an ARI related primary diagnosis code (and 7-day moving average)

(a)



(b)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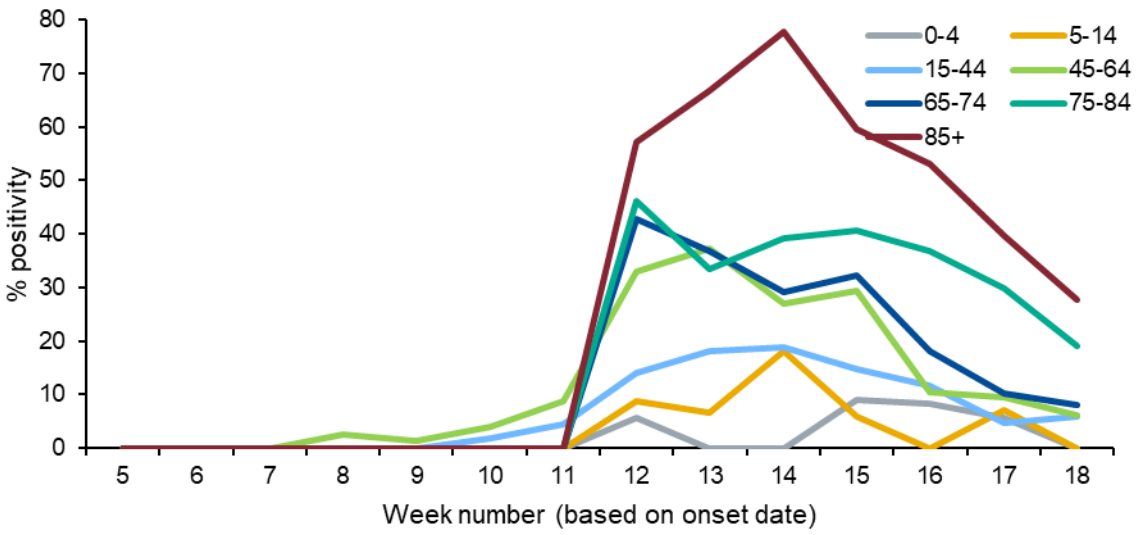
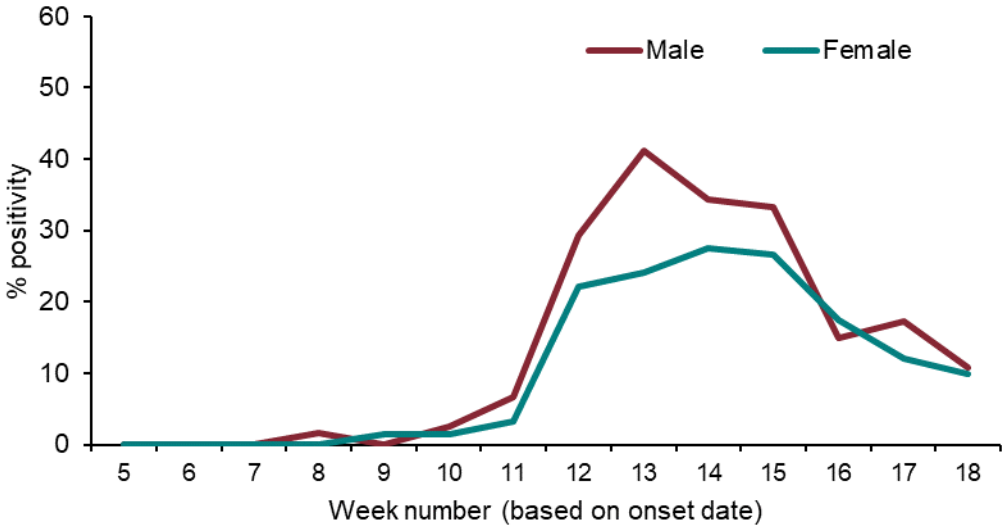
1400
1200
1000
800
600
400
200
0
01/01/20
15/01/20
29/01/20
12/02/20
26/02/20
11/03/20
25/03/20
08/04/20
22/04/20
Weekend
Bank holiday
23 March 2020
ACUTERESPIRATORYINFECTION
7dma
Baseline

Supplementary Figure 6: Overall positivity (%) of GP sentinel swabs (a) by age group, (b) by sex (weekly)

(a)

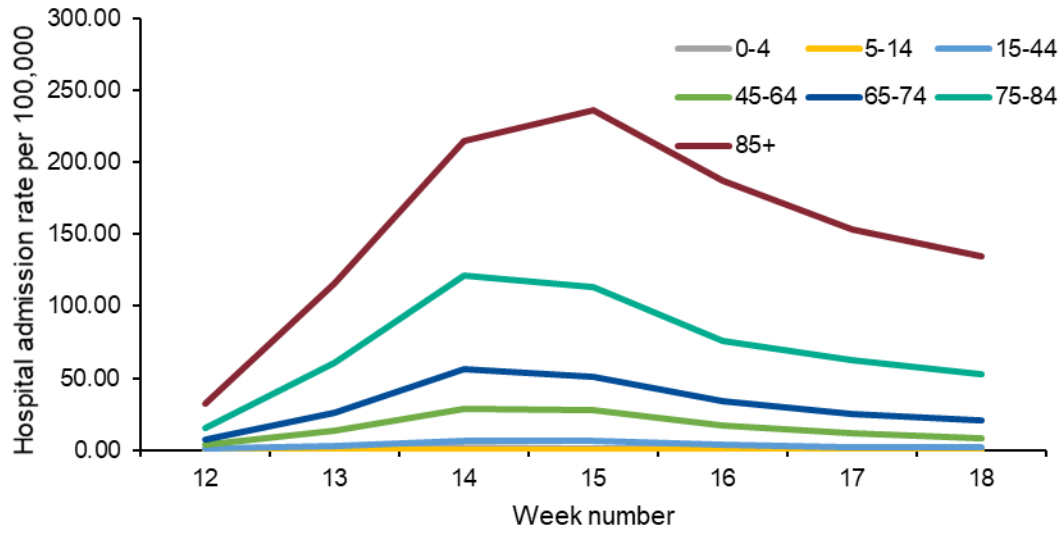


(b)

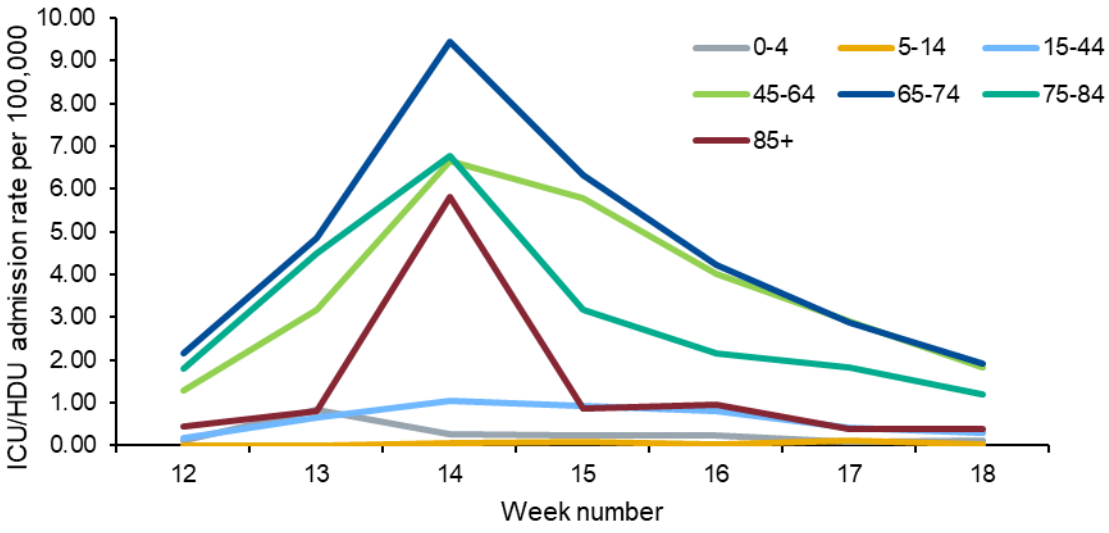


Supplementary Figure 7: (a) hospital admission rate and (b) critical care (ICU/HDU) admission rate by age group.

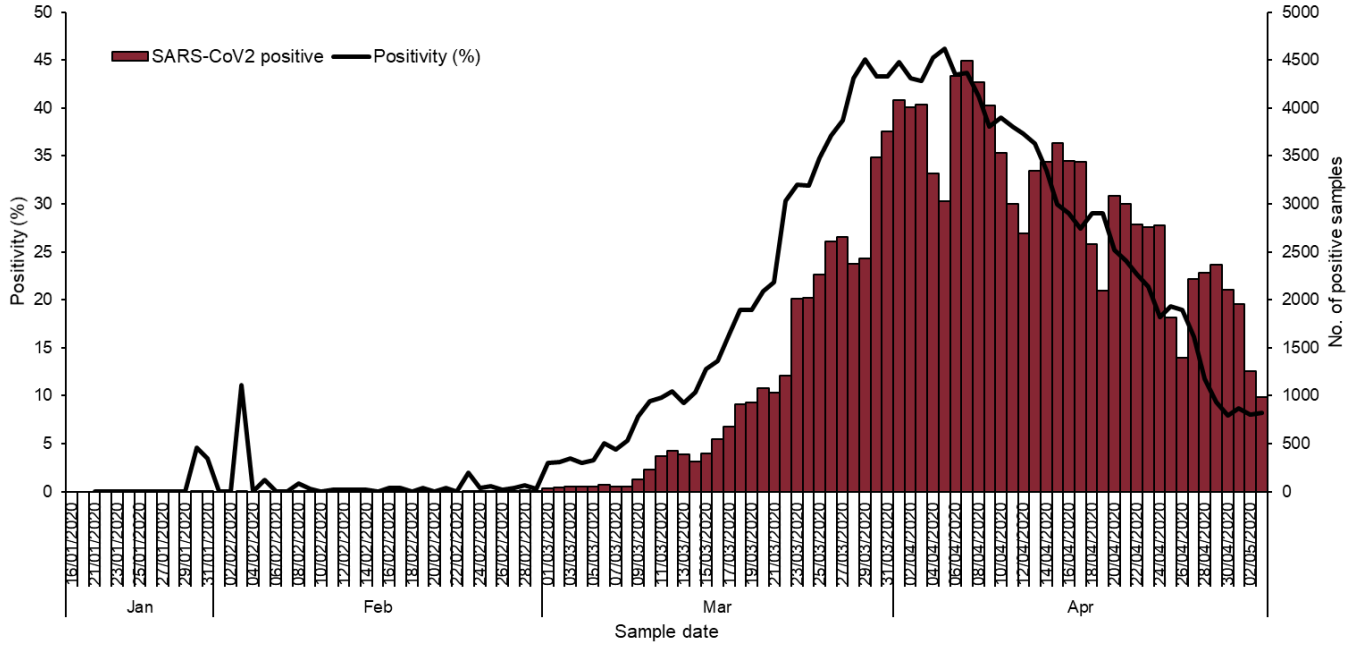
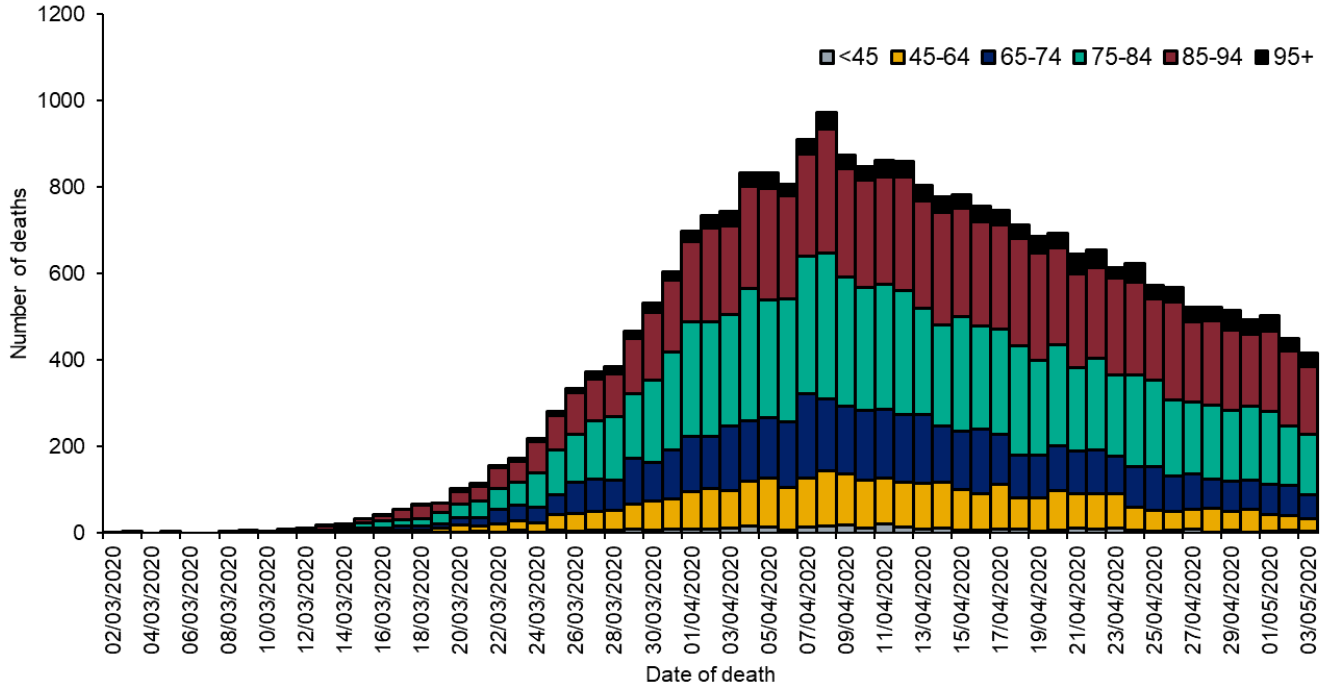
(a)



(b)



Supplementary Figure8: Overall positivity (%) (daily) and number of SARS-CoV-2 positive samples (SGSS)



Supplementary Figure9: Cumulative number of deaths among COVID-19 confirmed cases by date of death and age group