IEMAG briefing

17 June 2021

Coronavirus
COVID-19
Public Health
Advice

Cases, numbers in hospital and intensive care

The last two weeks have seen significant reductions in all indicators, with case numbers, the number of people in hospital and ICU, and the number of new admissions per day all decreasing.

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	Apr 2020	Summer 2020	Oct 2020	Dec 2020	Jan 2021	19 May	26 May	2 Jun	9 Jun	16 Jun	Daily count 16 Jun
Cases confirmed per day	859 18-04	8.7 25-06	1158 21-10	262 12-12	6520 10-01	*428*	*422*	*402*	*368*	*322*	373
14-day incidence *per 100,000 population*	212 19-04	3.0 04-07	306 26-10	79 09-12	1532 15-01	*125*	*125*	*121*	*113*	*102*	
Hospital in-patients	862 17-04	9 02-08	333 01-11	198 16-12	1949 24-01	105	109	96	77	62	54
Hospital admissions per day	*85* *04-04*	*<1* *10-07*	*27* *26-10*	*11* *13-12*	*158* *15-01*	*11*	*12*	*9*	*9*	*7*	3
ICU confirmed cases	150 *14-04*	4 *04-08*	43 *04-11*	26 *27-12*	217 *28-01*	39	41	36	28	22	18
ICU admissions per day	*14* *31-03*	*<1* *03-06*	*4* *03-11*	*1* *16-12*	*20* *17-01*	*2*	*2*	*1*	*<1*	*<1*	1
Deaths confirmed per day	46 *22-04*	<1 *30-07*	7 *01-12*	4 *17-12*	57 *03-02*	-	-	-	-	-	-

Data are 7-day averages (the indicated day and the preceding 6 days, rounded to the nearest whole number) with the exception of 14 day cumulative incidence, which is the total number of cases in the preceding 14 days per 100,000 population. The highest and lowest values of each indicator are given for each wave of the pandemic, along with the date on which that value was recorded, as well as the data for recent weeks. The historic incidence data may change due to denotification of cases. Case data from 13 May 2021 onward are estimates based on the number of positive tests reported. Data on deaths is incomplete and not reported

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Confirmed cases each day

Daily and weekly count and 7-day rolling average. The 7-day average peaked at 1158 on 21 October, reached a low of 262 on 12 December, peaked again at 6520 on 10 January. There was a long period in April and May where cases counts were stable at 400-450 per day, but incidence has decreased in recent weeks and the 7-day average is now **322, down from 368** seven days ago..

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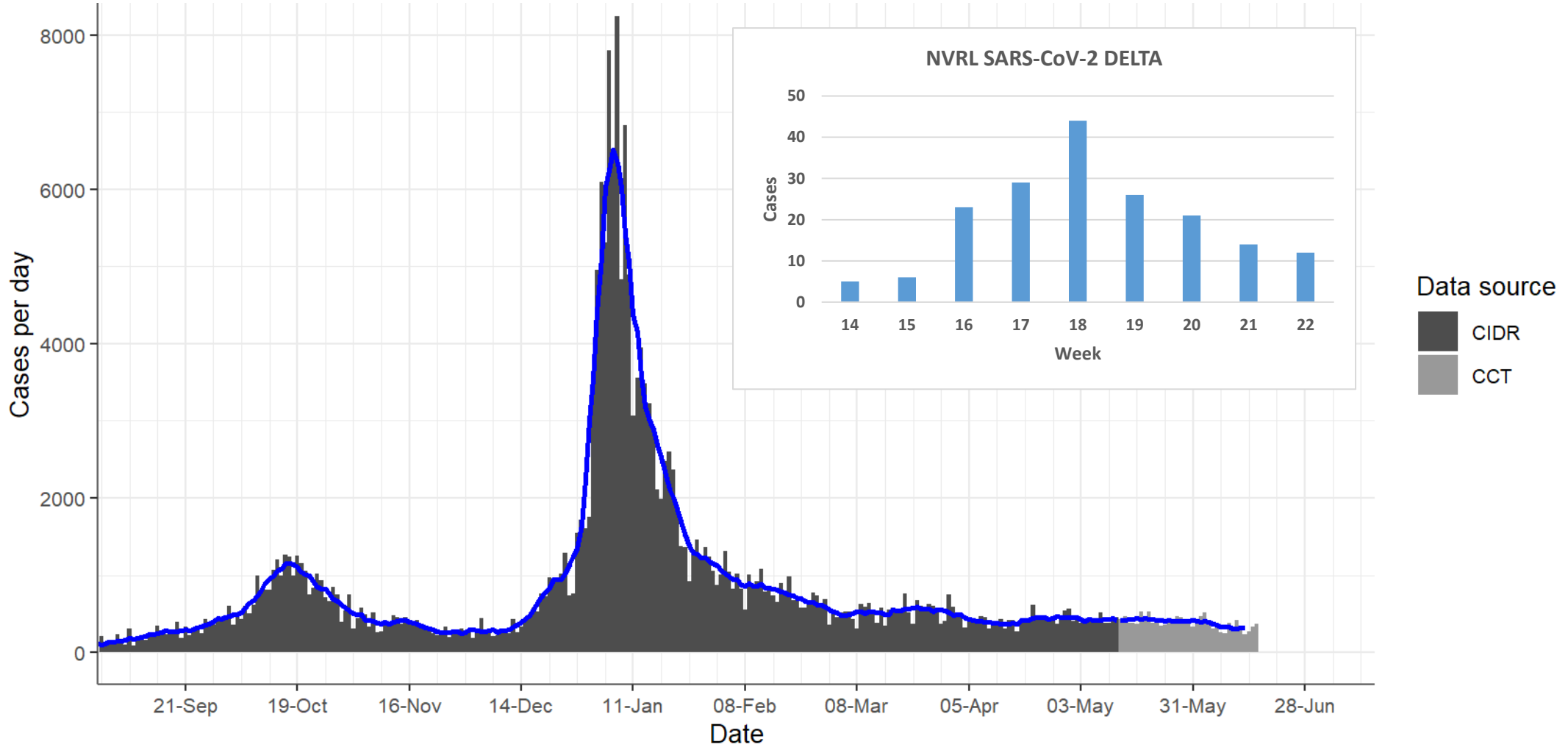

Daily count (bars) and 7-day average (line) of the number of laboratory confirmed new cases by date on which they were notified HPSC (CIDR data). Case counts may change due to denotification of cases. Case data from 13 May 2021 onward (light grey) are provisional based on the number of positive tests reported through the HSE contact management programme (CCT data).

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Confirmed cases each day

Daily and weekly count and 7-day rolling average in recent weeks showing decline in incidence since beginning of June

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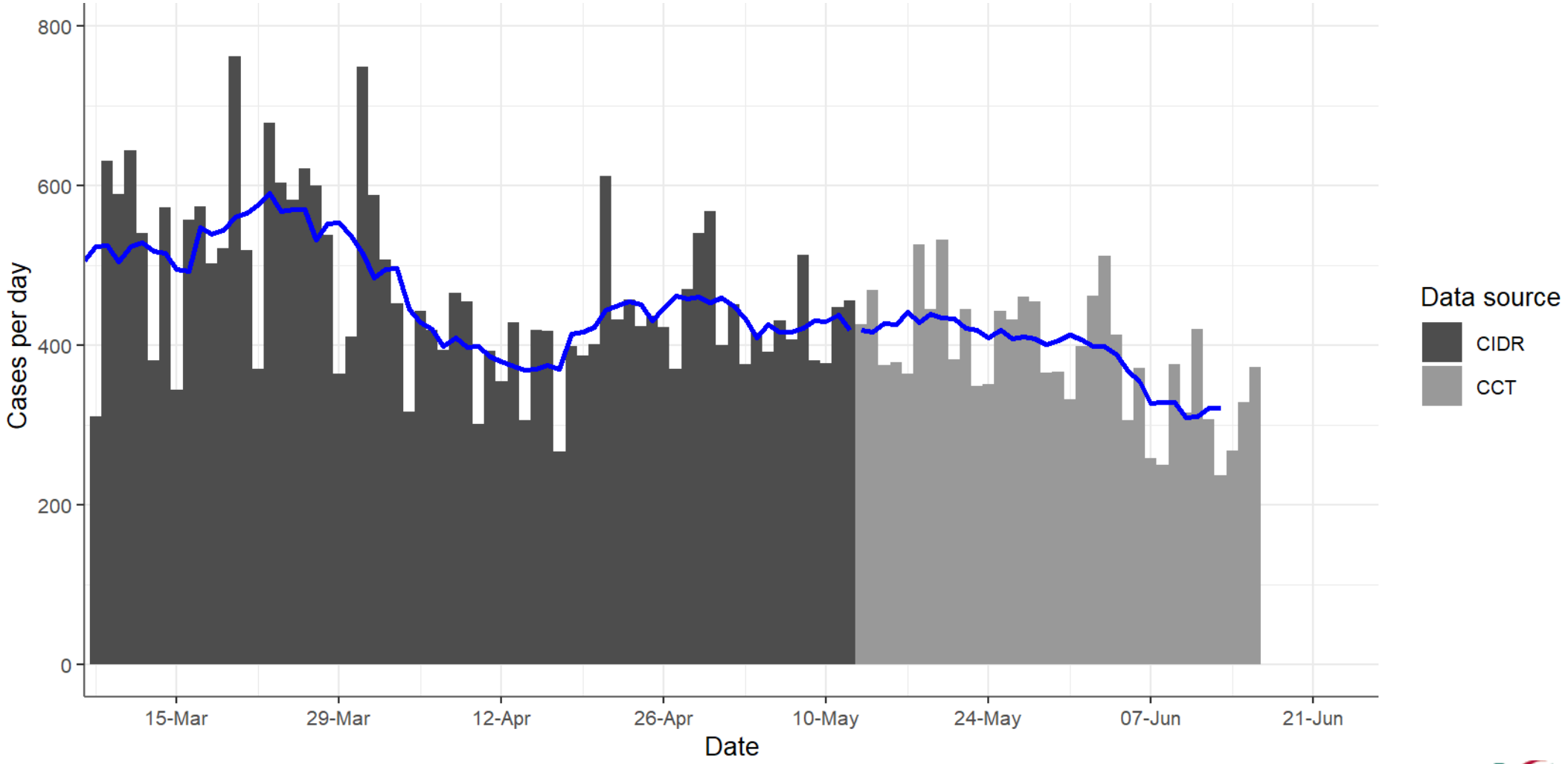

Daily count (bars) and 7-day average (line) of the number of laboratory confirmed new cases by date on which they were notified HPSC (CIDR data). Case counts may change due to denotification of cases. Case data from 13 May 2021 onward (light grey) are provisional based on the number of positive tests reported through the HSE contact management programme (CCT data).

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Daily test positivity: public health laboratories

The daily average number of tests done and positivity rates for public health laboratories show the recent increases in demand for testing with a reduction or no change in positivity rate. Positivity rates in public health laboratories have been stable at less than 4% since early April

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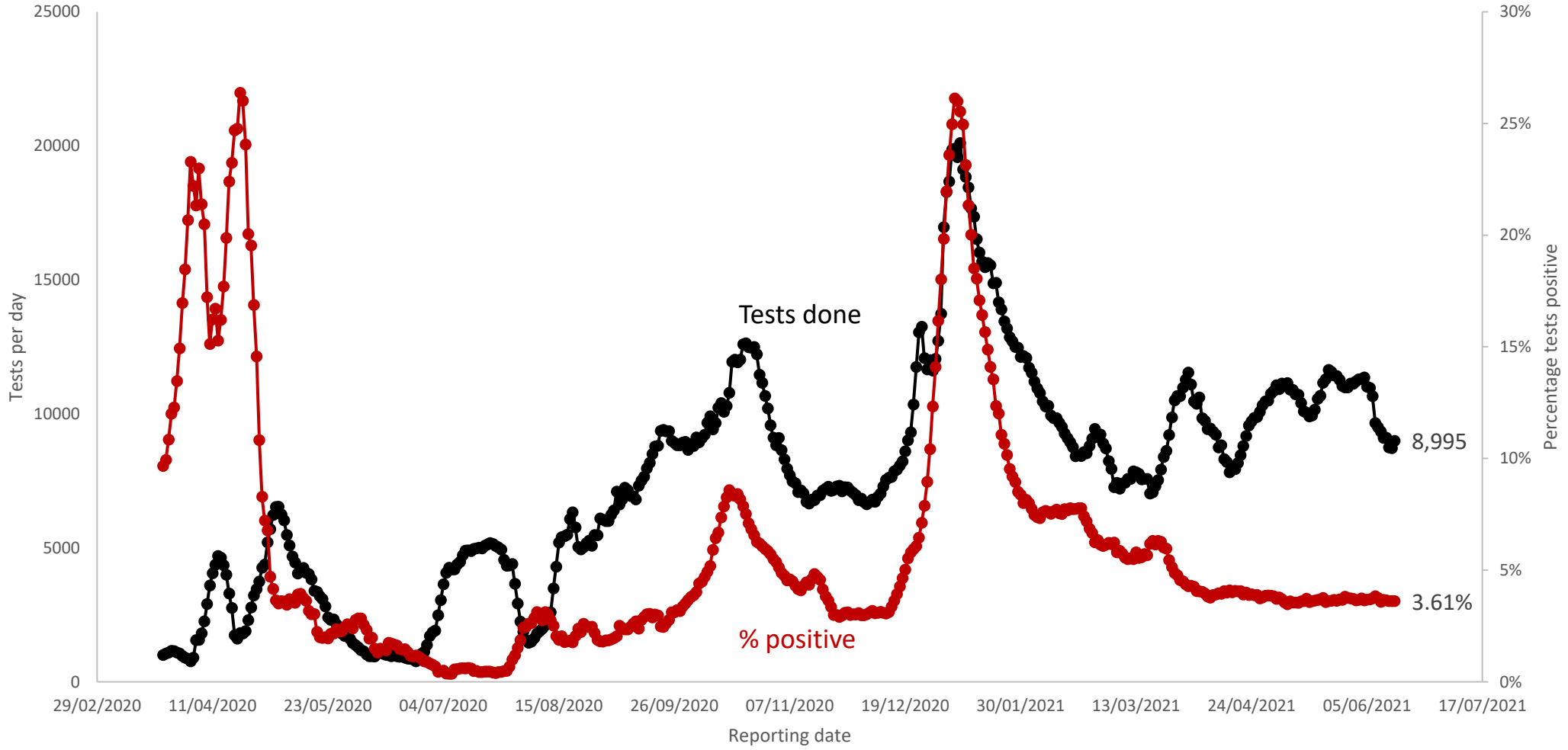

Daily tests done (black) and percentage of tests reported positive (red) per day from NVRL and associated laboratories, plus Cherry Orchard. Data are 7-day moving averages.

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Confirmed cases in acute hospitals

The number of people in hospital with confirmed SARS-CoV-2 infection. The number of people in hospital is low and falling at **54**. The number of admissions and newly confirmed cases in hospital per day is also falling and is 7 per day.

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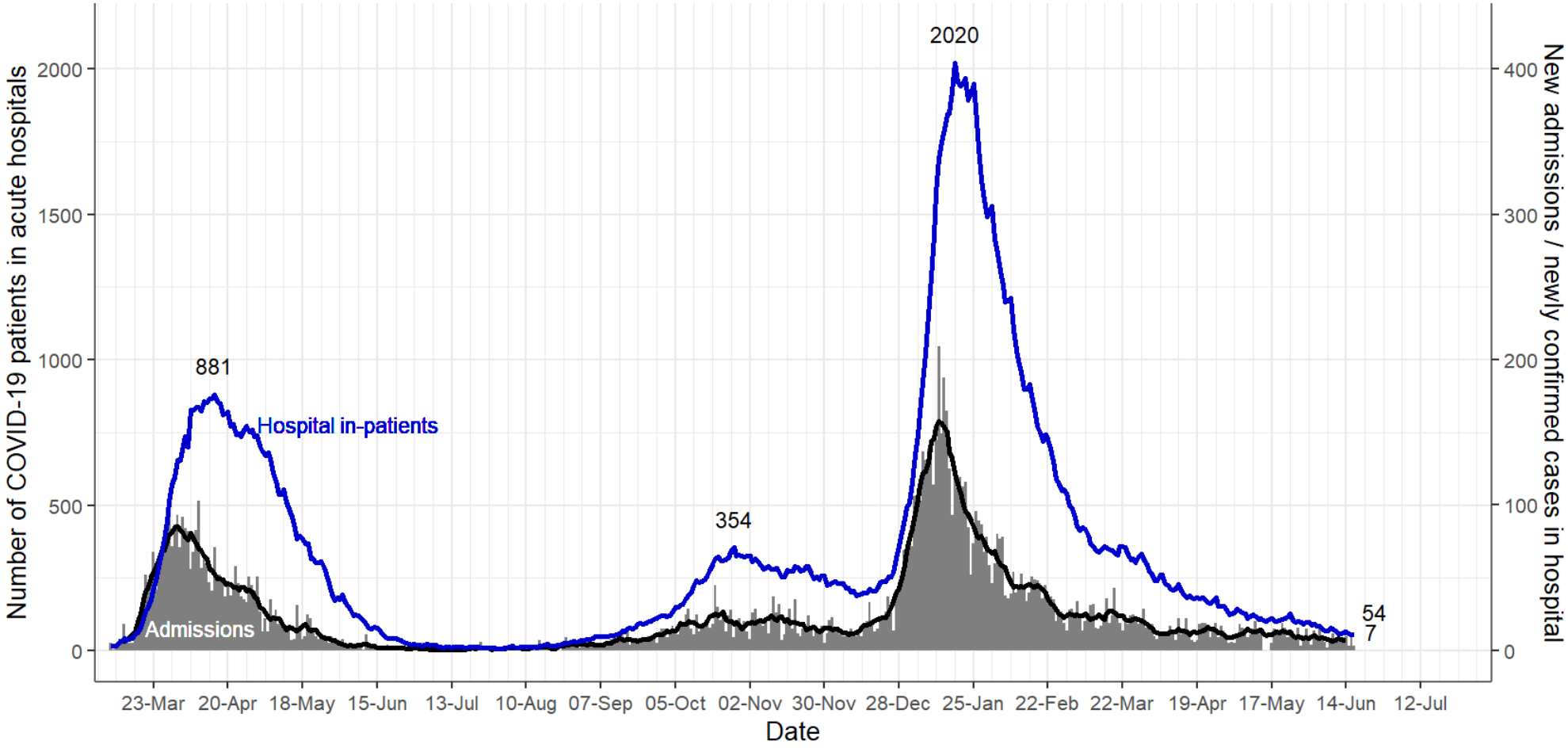

HSE PMIU-SDU data to Thu 17 Jun 2021. Number of in-patients with COVID-19 (blue line) and number of newly admitted or newly confirmed cases per day (columns, with 7-day moving average, black line, secondary y-axis) on HSE acute hospital sites

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Confirmed cases in intensive care

The number of people in ICU with confirmed SARS-CoV-2 infection and the number requiring mechanical ventilation have fallen. The number of new admissions pe day is low, on average 2 admissions every 5 days.

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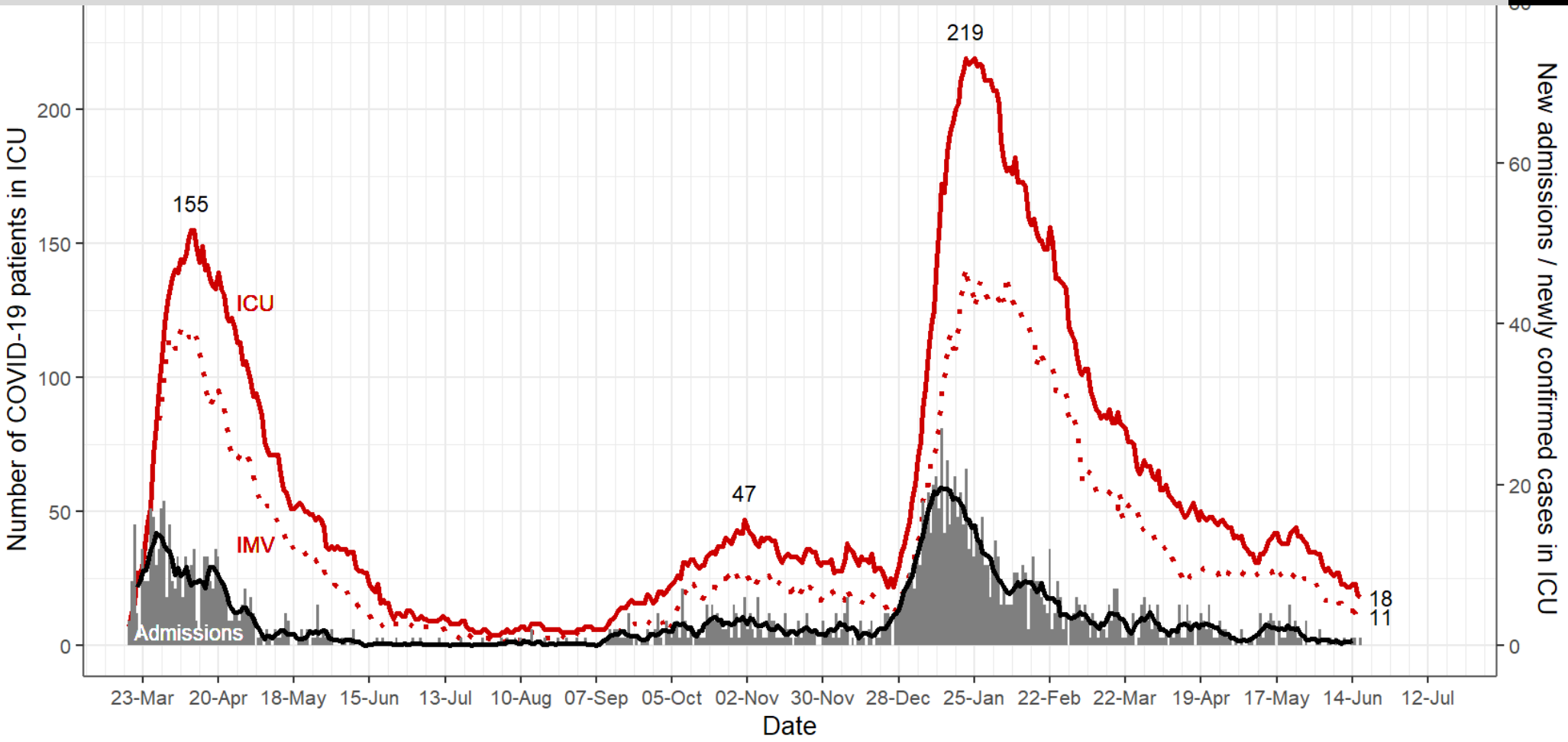

NOCA ICU-BIS data to Thu 17 Jun 2021. Number of patients with COVID-19 in ICU (red solid line) and number requiring mechanical ventilation (IMV, red dotted line) and number of new admissions per day (columns, with 7-day moving average, black line, secondary y-axis).

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Deaths per month

38 additional deaths have been provisionally notified since 13 May 2021, with dates of death between January and June 2021. While these figures are underestimates of the number of deaths that have occurred, deaths are clearly falling faster than cases, due to vaccination

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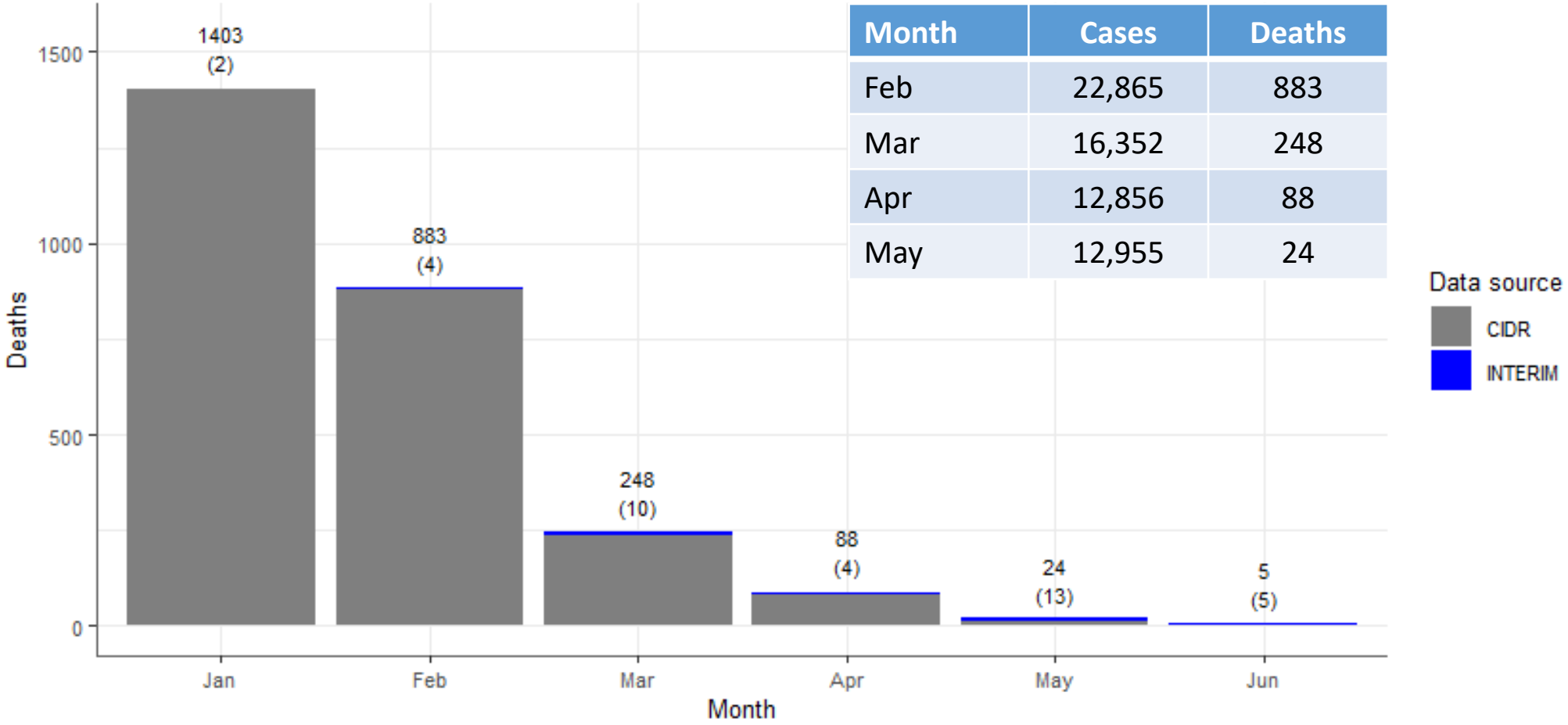

Month	Cases	Deaths
Feb	22,865	883
Mar	16,352	248
Apr	12,856	88
May	12,955	24

Deaths with laboratory confirmed SARS-CoV-2 infection by month of death. CIDR data to midnight Wed 12 May 2021 and interim reporting process thereafter. Delays in reporting will mean deaths are underestimated. The figures above the chart are the total number of deaths reported for that month, and in parenthesis the number reported since 13 May 2021

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Age-specific incidence

The incidence in those aged 65 years and older remains very low, and the incidence in those aged 50-64 years is now decreasing as vaccination takes effect in these cohorts. Incidence in children of school-going age has also decreased markedly since the beginning of June. Incidence in those aged 19-24 years is high, three times that those aged 25-34 years.

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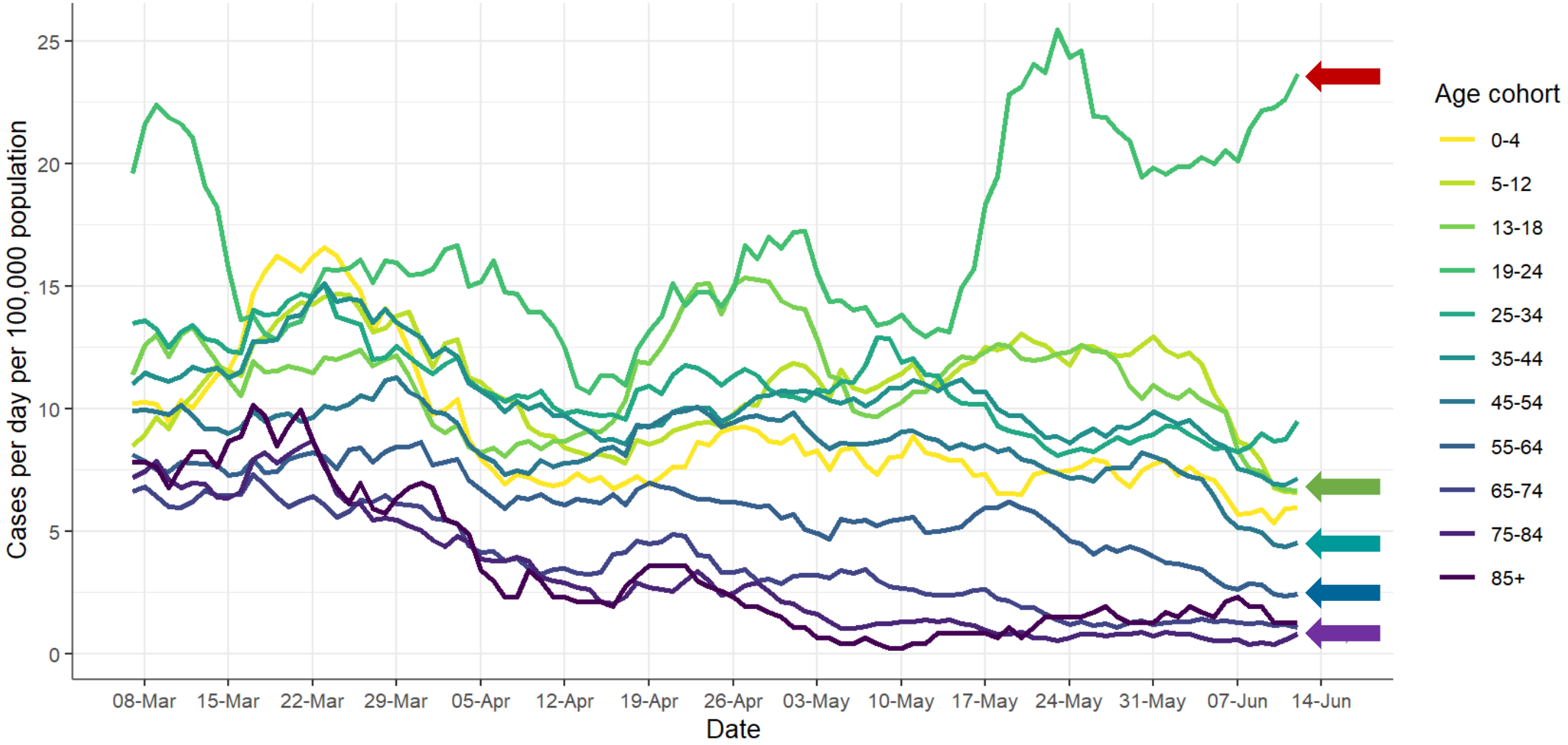

Age-specific incidence (cases per day per 100,000 population). 7-day moving average.
CIDR data to midnight Wed 12 May 2021 and CCT data to Tue 15 Jun 2021. Cases dated by event creation / case creation date

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Incidence across different age groups

There has been a marked decrease in incidence in those aged 65 and older, due to the effect of vaccination. Incidence remains stable across all other groups, with the exception of young adults aged 19-24 years where there has been a significant recent increase in incidence.

Week	Age band										
	0-4	5-12	13-18	19-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
48	23.2	29.7	40.9	72.2	39.0	37.1	39.6	30.5	24.1	44.8	74.0
49	28.7	38.1	43.1	60.7	48.8	40.3	44.1	35.8	30.3	45.8	114.0
50	24.7	36.5	40.9	55.3	50.3	41.6	49.0	37.3	24.9	33.6	68.1
51	35.3	51.4	65.1	112.0	88.0	75.8	75.2	75.3	44.2	62.1	100.7
52	72.4	74.9	110.9	286.2	190.0	139.8	145.8	141.1	88.9	102.8	182.1
53	117.9	125.4	249.7	806.4	478.5	316.2	355.1	352.7	231.3	201.0	367.1
1	266.4	299.8	759.7	1964.3	1374.1	991.6	1104.6	1139.4	670.7	669.2	1117.6
2	152.6	146.0	376.2	828.5	652.1	557.1	660.5	635.8	425.4	652.9	1407.7
3	97.1	91.5	197.0	458.6	398.5	345.6	387.4	349.1	233.7	402.5	968.1
4	84.2	63.8	135.1	271.1	221.0	200.2	218.8	192.2	146.7	274.8	746.1
5	64.9	68.2	124.3	246.7	171.5	161.7	173.0	149.1	106.6	179.1	506.3
6	98.3	85.3	135.1	230.4	152.3	123.8	127.6	110.0	77.6	121.6	217.6
7	91.7	79.5	103.1	281.7	131.8	115.8	104.0	95.1	68.8	106.9	196.9
8	86.0	68.7	87.5	198.4	112.8	95.3	99.2	76.8	48.2	76.8	152.5
9	70.9	62.7	74.3	145.2	96.0	73.1	70.8	69.6	46.3	48.9	69.6
10	66.4	64.2	84.8	153.4	87.7	77.8	68.2	51.9	42.0	49.9	47.4
11	103.2	88.6	83.4	96.6	98.3	89.3	69.0	55.6	51.1	55.5	71.1
12	113.7	102.8	84.0	109.6	96.3	100.6	70.0	52.9	39.1	45.8	47.4
13	77.2	89.3	72.4	108.4	82.2	90.4	72.8	60.3	42.0	35.1	48.8
14	48.6	72.7	56.2	103.3	72.0	69.1	51.3	41.5	26.5	26.5	16.3
15	49.2	56.7	63.8	74.6	68.5	63.6	55.7	43.6	22.8	18.3	14.8
16	53.4	63.6	93.1	105.7	79.6	69.2	68.8	47.2	34.0	17.8	25.2
17	63.6	71.1	106.8	112.9	79.5	73.4	68.0	41.9	20.9	20.4	13.3
18	58.2	81.1	78.3	100.8	77.8	71.5	60.1	38.5	23.8	7.1	3.0
19	57.3	76.5	74.8	90.6	79.6	76.9	61.8	34.6	16.9	9.7	3.0
20	45.9	87.8	87.7	159.7	63.7	68.2	58.6	43.2	15.0	5.6	7.4
21	55.5	87.8	86.4	153.7	57.6	64.3	49.2	28.3	8.0	5.6	11.8
22	51.0	84.9	72.9	139.2	64.8	65.5	52.2	25.5	9.1	5.6	10.4
23	41.0	54.7	51.9	155.2	62.8	50.7	34.7	19.6	8.8	3.1	13.3

Cases per week per 100,000 population

5
10
20
30
40
50
60
70
80
90
100
200
500

Heat map shows age-specific incidence (cases per week per 100,000 population). Cases dated by notification date. Case data from 13 May 2021 onward are estimates based on the number of positive tests reported.

Week	Age band										
	0-4	5-12	13-18	19-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
10	0.0	0.2	0.5	0.0	0.2	0.9	0.5	0.4	0.0	0.0	0.0
11	0.0	0.2	0.3	4.5	2.4	2.7	3.8	5.5	3.7	2.5	4.4
12	1.5	1.5	2.7	13.0	22.3	18.3	20.8	16.5	10.4	23.9	44.4
13	3.0	1.1	5.4	26.6	42.8	40.0	48.9	47.5	41.8	73.8	96.2
14	2.7	0.9	2.7	32.0	54.9	57.4	70.0	65.2	61.3	137.9	309.4
15	6.9	4.6	11.8	80.6	124.4	113.1	142.5	139.1	86.7	154.2	383.4
16	10.3	12.6	22.3	103.9	136.2	130.3	178.3	148.5	102.5	223.9	740.1
17	3.9	3.8	11.0	61.0	74.6	69.9	90.6	71.7	74.7	280.4	1055.4
18	4.5	5.1	11.0	60.4	64.5	55.2	64.5	53.6	40.2	131.8	481.1
19	3.3	5.5	7.5	34.7	43.1	40.0	38.5	35.0	23.6	55.0	137.7
20	3.3	2.0	2.4	33.5	44.6	34.8	30.8	23.6	13.9	28.0	87.3
21	4.2	3.3	8.3	14.8	14.9	15.7	13.4	11.0	9.4	17.8	50.3
22	2.4	2.2	3.2	7.9	9.6	9.5	12.0	9.6	7.0	17.8	50.3
23	2.1	2.0	1.6	8.5	4.7	4.6	7.3	5.1	4.0	7.1	20.7
24	1.8	0.4	1.9	2.7	2.9	2.3	2.9	1.4	1.6	4.6	14.8
25	0.9	0.5	0.3	3.0	2.4	2.3	2.7	1.6	1.3	2.5	14.8
26	0.3	0.2	0.5	1.8	2.1	1.7	1.1	1.4	0.5	1.5	7.4
27	1.5	0.5	0.5	2.4	3.5	2.1	2.4	1.6	0.5	4.1	4.4
28	1.2	1.1	1.1	10.6	4.4	3.2	1.6	1.2	1.3	1.0	1.5
29	1.2	0.2	0.5	5.4	5.8	2.7	3.4	2.4	3.7	2.5	4.4
30	1.5	0.4	1.1	4.2	4.5	2.9	3.5	1.8	1.6	1.0	3.0
31	5.4	4.2	5.9	10.3	10.6	5.8	6.4	2.9	2.7	2.5	4.4
32	6.0	4.0	8.6	16.6	23.5	15.1	13.1	8.1	4.0	2.0	1.5
33	5.4	7.8	9.4	26.6	16.2	12.1	13.1	8.4	7.5	3.1	8.9
34	8.1	8.2	15.9	35.9	24.1	15.5	14.4	12.4	5.6	4.6	4.4
35	6.3	8.9	17.2	43.8	23.7	16.9	18.0	12.2	7.5	12.7	7.4
36	10.3	12.4	14.8	48.0	25.5	19.0	17.9	14.9	11.8	14.8	35.5
37	18.1	18.4	23.7	58.9	38.5	26.8	25.1	24.2	20.1	14.2	32.6
38	20.5	23.3	47.1	94.8	46.3	38.2	45.5	37.3	34.5	24.4	28.1
39	13.9	23.3	37.7	127.1	60.4	38.7	42.3	35.8	28.6	29.5	37.0
40	24.4	23.7	57.9	178.4	83.4	63.1	67.6	62.9	38.3	36.1	51.8
41	36.5	41.7	107.4	275.1	115.0	80.1	93.8	85.9	56.0	63.1	121.4
42	66.4	77.6	191.3	448.7	193.8	138.0	153.0	141.9	89.2	79.4	122.9
43	86.9	97.9	178.4	364.7	158.5	127.7	149.0	151.5	95.8	97.7	176.2
44	62.1	76.7	124.9	200.2	105.5	91.0	112.8	96.1	71.5	77.4	137.7
45	45.2	48.3	73.5	112.9	90.2	73.0	77.5	60.9	51.7	72.3	130.3
46	31.1	35.7	58.9	94.8	61.1	52.5	57.8	47.7	38.8	59.5	130.3
47	34.7	39.2	72.1	98.7	60.4	55.4	56.5	40.9	32.9	45.3	100.7
48	23.2	29.7	40.9	72.2	39.0	37.1	39.6	30.5	24.1	44.8	74.0
49	28.7	38.1	43.1	60.7	48.8	40.3	44.1	35.8	30.3	45.8	114.0
50	24.7	36.5	40.9	55.3	50.3	41.6	49.0	37.3	24.9	33.6	68.1
51	35.3	51.4	65.1	112.0	88.0	75.8	75.2	75.3	44.2	62.1	100.7
52	72.4	74.9	110.9	286.2	190.0	139.8	145.8	141.1	88.9	102.8	182.1
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2	152.6	146.0	376.2	828.5	652.1	557.1	660.5	635.8	425.4	652.9	1407.7
3	97.1	91.5	197.0	458.6	398.5	345.6	387.4	349.1	233.7	402.5	968.1
4	84.2	63.8	135.1	271.1	221.0	200.2	218.8	192.2	146.7	274.8	746.1
5	64.9	68.2	124.3	246.7	171.5	161.7	173.0	149.1	106.6	179.1	506.3
6	98.3	85.3	135.1	230.4	152.3	123.8	127.6	110.0	77.6	121.6	217.6
7	91.7	79.5	103.1	281.7	131.8	115.8	104.0	95.1	68.8	106.9	196.9
8	86.0	68.7	87.5	198.4	112.8	95.3	99.2	76.8	48.2	76.8	152.5
9	70.9	62.7	74.3	145.2	96.0	73.1	70.8	69.6	46.3	48.9	69.6
10	66.4	64.2	84.8	153.4	87.7	77.8	68.2	51.9	42.0	49.9	47.4
11	103.2	88.6	83.4	96.6	98.3	89.3	69.0	55.6	51.1	55.5	71.1
12	113.7	102.8	84.0	109.6	96.3	100.6	70.0	52.9	39.1	45.8	47.4
13	77.2	89.3	72.4	108.4	82.2	90.4	72.8	60.3	42.0	35.1	48.8
14	48.6	72.7	56.2	103.3	72.0	69.1	51.3	41.5	26.5	26.5	16.3
15	49.2	56.7	63.8	74.6	68.5	63.6	55.7	43.6	22.8	18.3	14.8
16	53.4	63.6	93.1	105.7	79.6	69.2	68.8	47.2	34.0	17.8	25.2
17	63.6	71.1	106.8	112.9	79.5	73.4	68.0	41.9	20.9	20.4	13.3
18	58.2	81.1	78.3	100.8	77.8	71.5	60.1	38.5	23.8	7.1	3.0
19	57.3	76.5	74.8	90.6	79.6	76.9	61.8	34.6	16.9	9.7	3.0
20	45.9	87.8	87.7	159.7	63.7	68.2	58.6	43.2	15.0	5.6	7.4
21	55.5	87.8	86.4	153.7	57.6	64.3	49.2	28.3	8.0	5.6	11.8
22	51.0	84.9	72.9	139.2	64.8	65.5	52.2	25.5	9.1	5.6	10.4
23	41.0	54.7	51.9	155.2	62.8	50.7	34.7	19.6	8.8	3.1	13.3

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Growth rate

The growth rate is currenty estimated at -3% (with high levels of uncertaintly, confidence interval -1% to -6%)

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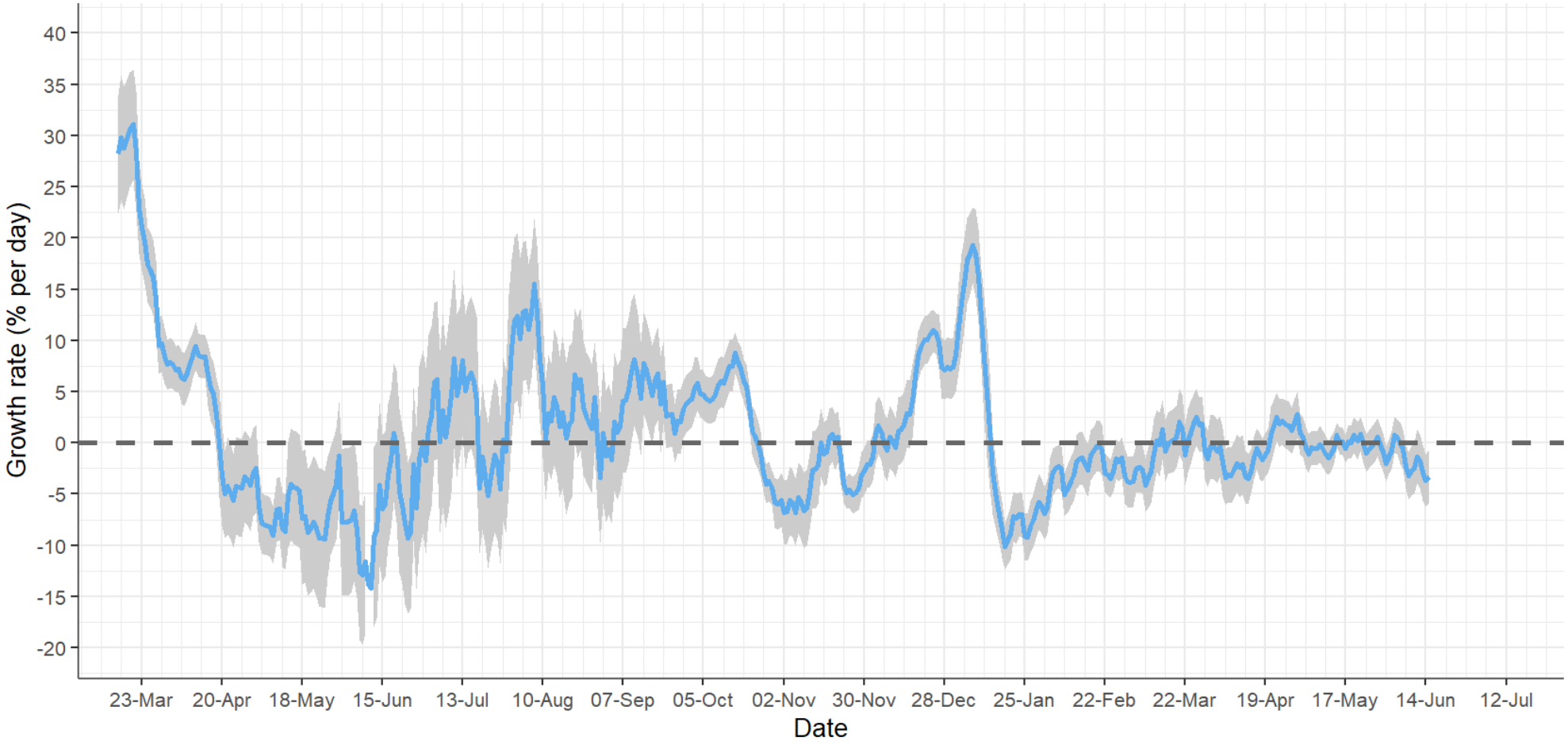

CIDR data to midnight Wed 12 May 2021 and CCT data to Tue 15 Jun 2021. Cases dated by event creation / case creation date.
. Growth rate in case counts using a 14-day window, cases dated by event (notification) date. Mean and 95% confidence intervals

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Situation analysis 17 June 2021

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Public Health
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- Incidence decreasing
  - Cases (7-day average) 322 cases per day; 14-day incidence 99.5 per 100,000
  - 2,301 cases were notified last week, down from 2,792 the week before
  - Test positivity stable
  - Growth/decline rate at -3% per day (-1% to -6%), reproduction number less than 1
  - Numbers in hospital and ICU decreasing
  - Recent sustained increase in incidence in young adults aged 19-24 years
- A positive outlook, but we remain vulnerable in the coming weeks as the wider population is not yet protected by vaccination
  - The situation is improving
  - Concern to limit transmission as vaccination proceeds
  - Outdoors is lower risk, but we still need to take the basic precautions
  - We need to keep close contacts low, and minimize the risk of transmission during any close contact