



An Roinn Sláinte  
Department of Health

# NPHET COVID Update 28<sup>th</sup> April 2021

# Current situation



	01-Oct	26-Oct (2 <sup>nd</sup> wave peak 14 day inc.)	01-Dec	01-Jan	14-Jan (3 <sup>rd</sup> wave peak 14 day inc.)	15-Apr	19-Apr	23-Apr	27-Apr
14-day incidence	96.08	306.20	86.90	320.63	1494.56	122.43	114.89	117.31	122.45
5-day average cases	407.0	919.4	261.0	1477.0	4459.4	357.2	362.6	447.4	436.8
Total weekly cases	2607	7000	1893	9419	35371	2708	2597	2926	3200

	01-Oct	26-Oct (2 <sup>nd</sup> wave peak 14 day inc.)	01-Dec	01-Jan	14-Jan (3 <sup>rd</sup> wave peak 14 day inc.)	15-Apr	19-Apr	23-Apr	27-Apr
No. Hospital (8.A.M)	122	344	224	508	1792	184	183	166	153
No. in ICU (11.30 A.M)	20	40	31	42	172	49	47	48	46

	01-Oct	26-Oct (2 <sup>nd</sup> wave peak 14 day inc.)	01-Dec	01-Jan	14-Jan (3 <sup>rd</sup> wave peak 14 day inc.)	15-Apr	19-Apr	23-Apr	27-Apr
Positivity rate (7 day average)	3.0%	6.1%	2.7%	12.5%	17.0%	2.7%	2.7%	2.7%	2.8%

	November	December	January	February	March	April
<b>Total Deaths</b>	188	198	1,404	868	232	63
<b>Deaths associated with Nursing Home outbreaks</b>	56	65	536	320	38	4
<b>Deaths associated with Hospital outbreaks</b>	69	69	237	160	45	15

# Cases, numbers in hospital and intensive care

Daily case numbers have increased but the numbers of people in hospital and ICU continue to decrease slowly. Notably, admissions to hospital have averaged 13-15 per day for 4 weeks, an decrease on preceding weeks.



	Apr 2020	Summer 2020	Oct 2020	Dec 2020	Jan 2021	31 Mar	7 Apr	14 Apr	21 Apr	27 Apr	Daily count 27 Apr
Cases confirmed per day	859 <small>18-04</small>	8.7 <small>25-06</small>	1158 <small>21-10</small>	262 <small>12-12</small>	6520 <small>10-01</small>	533	499	400	372	457	426
14-day incidence <i>per 100,000 population</i>	212 <small>19-04</small>	3.0 <small>04-07</small>	306 <small>26-10</small>	79 <small>09-12</small>	1532 <small>15-01</small>	161	152	132	113	122	
Hospital in-patients	862 <small>17-04</small>	9 <small>02-08</small>	333 <small>01-11</small>	198 <small>16-12</small>	1949 <small>24-01</small>	313	254	212	183	171	153
<i>Hospital admissions per day</i>	85 <small>04-04</small>	<1 <small>10-07</small>	27 <small>26-10</small>	11 <small>13-12</small>	158 <small>15-01</small>	22	13	13	13	15	9
ICU confirmed cases	150 <small>14-04</small>	4 <small>04-08</small>	43 <small>04-11</small>	26 <small>27-12</small>	217 <small>28-01</small>	68	50	51	50	47	47
<i>ICU admissions per day</i>	14 <small>31-03</small>	<1 <small>03-06</small>	4 <small>03-11</small>	1 <small>16-12</small>	20 <small>17-01</small>	3	2	2	2	2	2
Deaths confirmed per day	46 <small>22-04</small>	<1 <small>30-07</small>	7 <small>01-12</small>	4 <small>17-12</small>	57 <small>03-02</small>	9	6	12	7	6	10

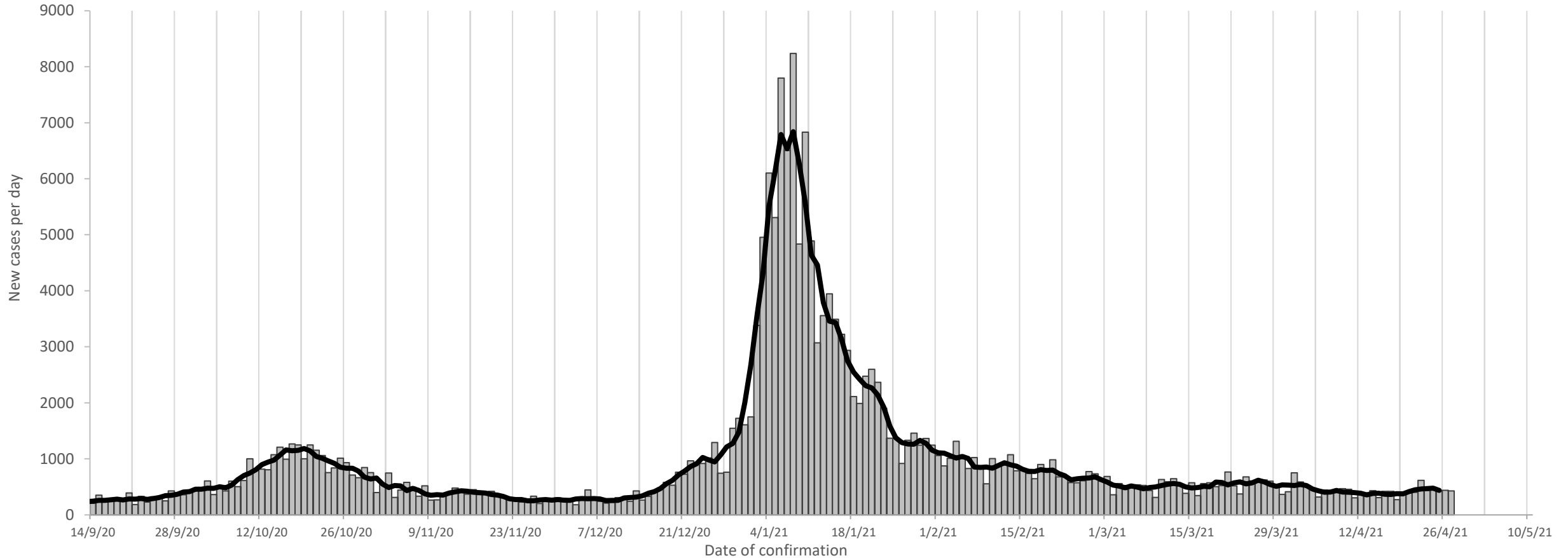
Data are 7-day averages (the indicated day and the preceding 6 days, rounded to the nearest whole number) with the exception of 14 day cumulative incidence, which is the total number of cases in the preceding 14 days per 100,000 population. The highest and lowest values of each indicator are given for 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.

# Confirmed cases each day

Daily and weekly count and 5-day rolling average. The 5-day average peaked at 1186 on 21 October, reached a low of 251 on 28 November, peaked again at 6847 on 8 January, and is now **437**. 3125 cases were reported last week, compared with 2591 the week before, and increase of 21%



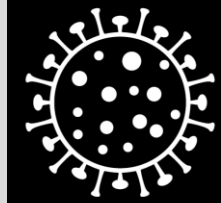
Cases per week	1947	2059	3031	4457	7398	7073	4838	3424	2583	2580	1798	2028	1964	3368	6597	15722	45616	25113	14806	8921	7143	6027	5525	4547	3629	3535	3838	3981	3615	2798	2591	3125
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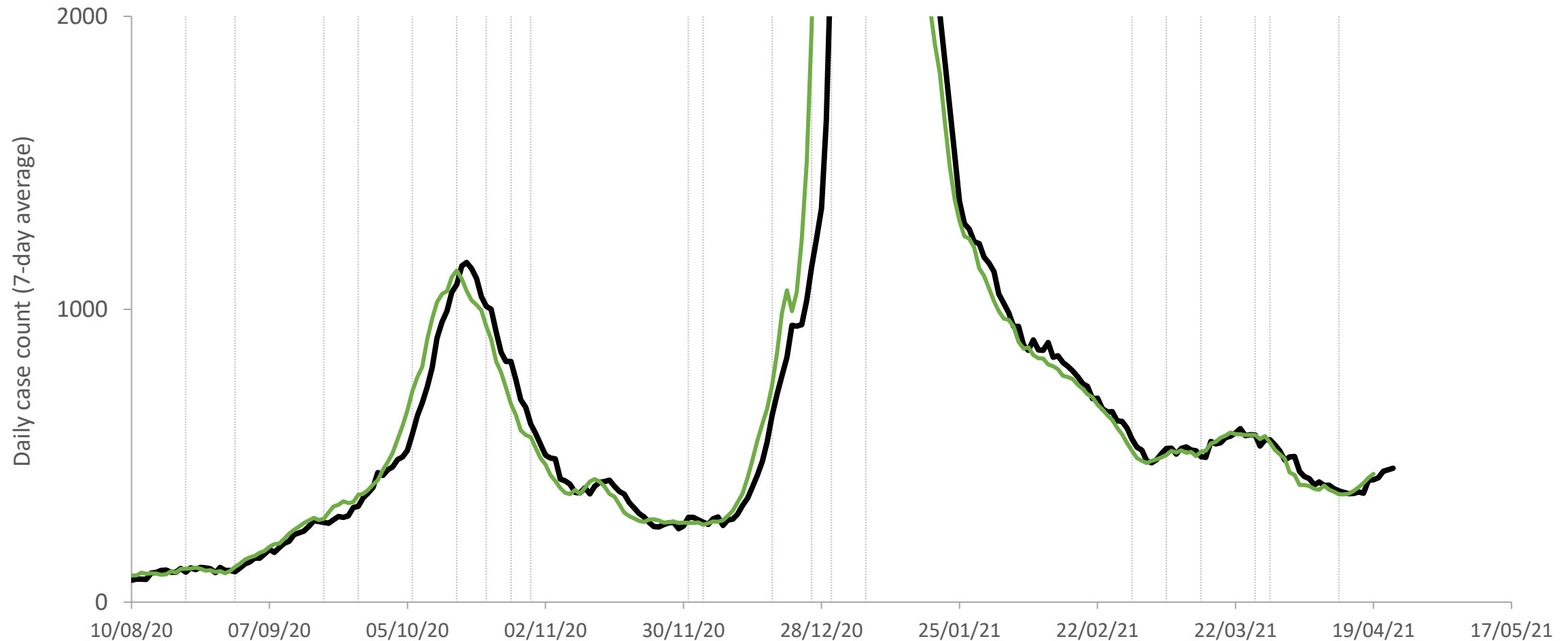
Daily count (bars) 5-day average (line) and weekly counts of the number of laboratory confirmed new cases by date on which they were confirmed by HPSC. Case counts may change due to denotification of cases. Weekly case counts are by notification (event) date and standard epidemiological week.

# Daily incidence

Daily incidence remains high and has increased over the last 10 days to 450-460 cases per day: incidence is approximately 50% higher than in early December, and approximately 40 times what it was in late June 2020.



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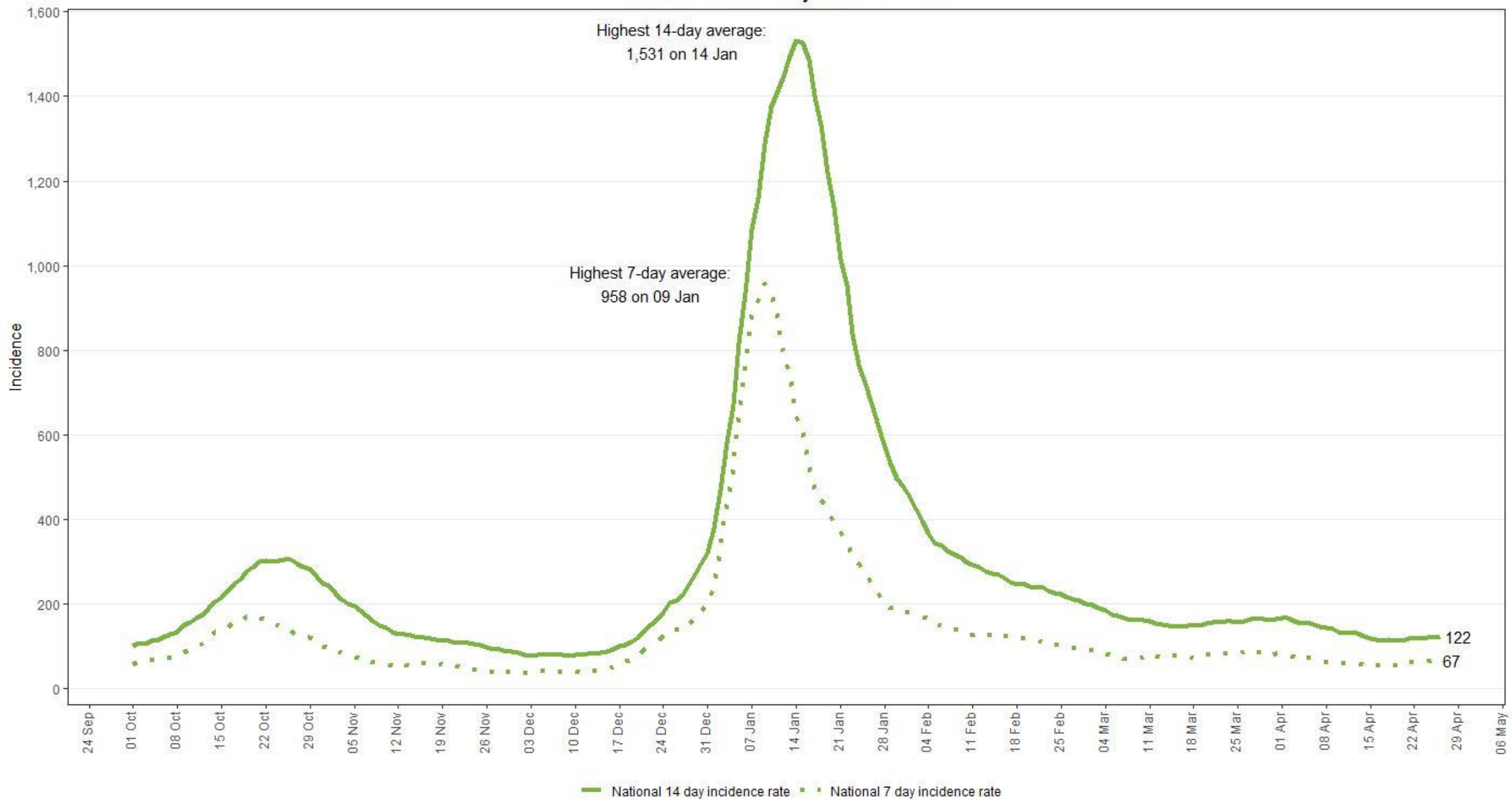


Daily cases by notification (event) date (black, the date the case was entered on the CIDR database) and specimen collection date (green). The vertical dashed lines indicate the dates of escalation and de-escalation of public health restrictions. Data are 7-day moving averages.



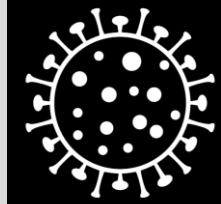
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National 7 and 14 day Incidence rates

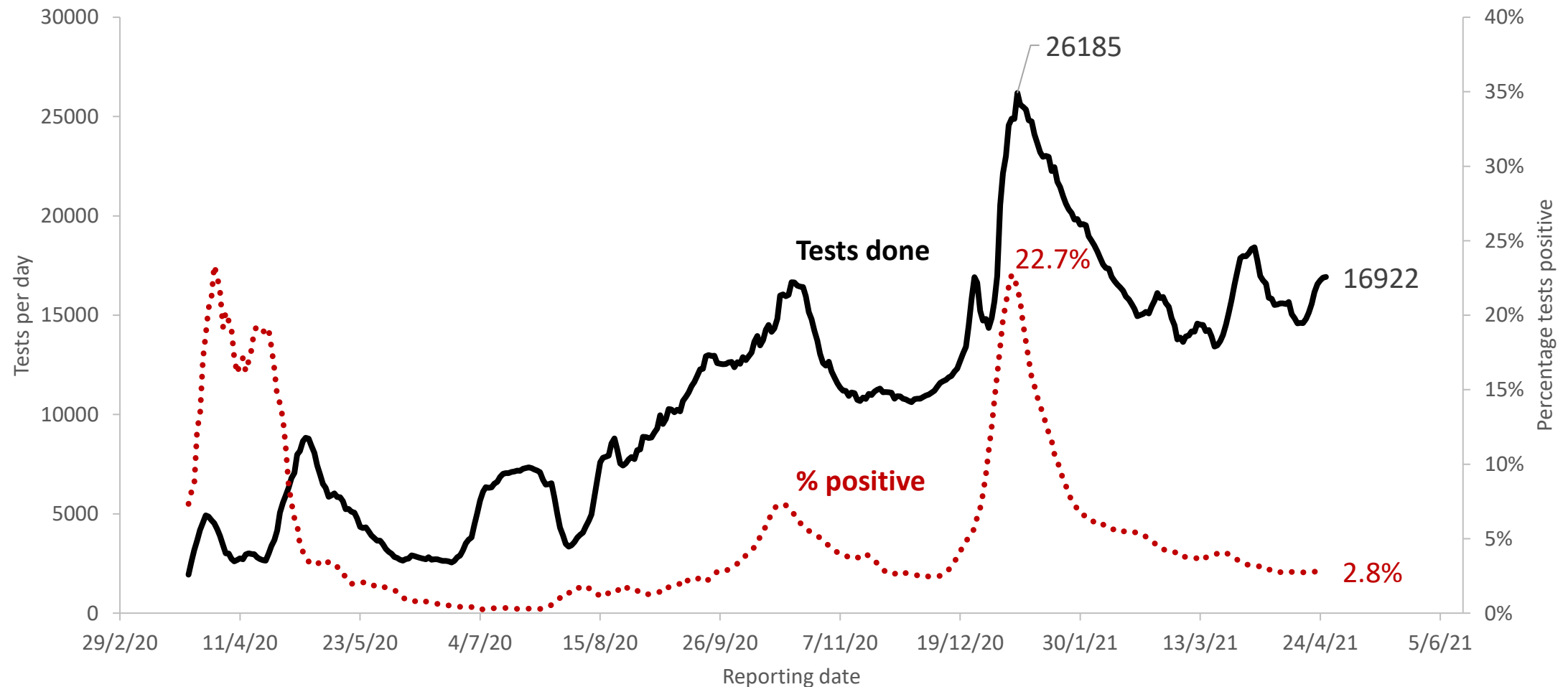


# Testing and test positive rate

Positivity rate has fallen significantly since the January peak: overall positivity rate peaked at 23% on 7 January and is now less than 3%. The demand for testing has increased after each school reopening, with very high referral rates for children and the introduction of walk-in testing, but test positivity has remained stable or decreased.



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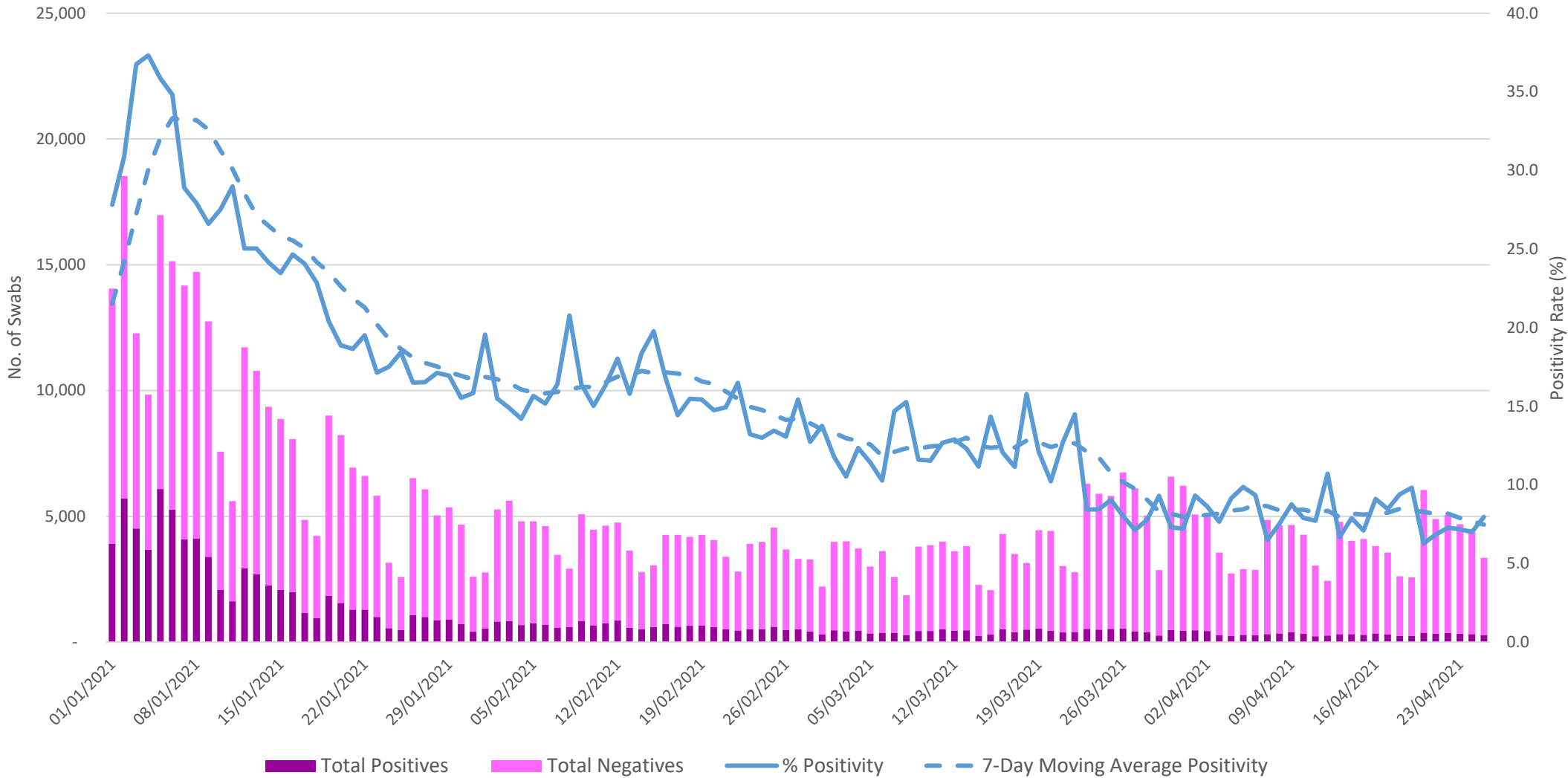


Data 7-day rolling averages, tests outsourced to German laboratory in April backdated using specimen collection date. The aggregate positivity rate should be interpreted with caution, as it includes community referrals, close contacts, mass and serial testing, and hospital testing, and changes in numbers of tests done in these different settings will alter the overall positivity rate.



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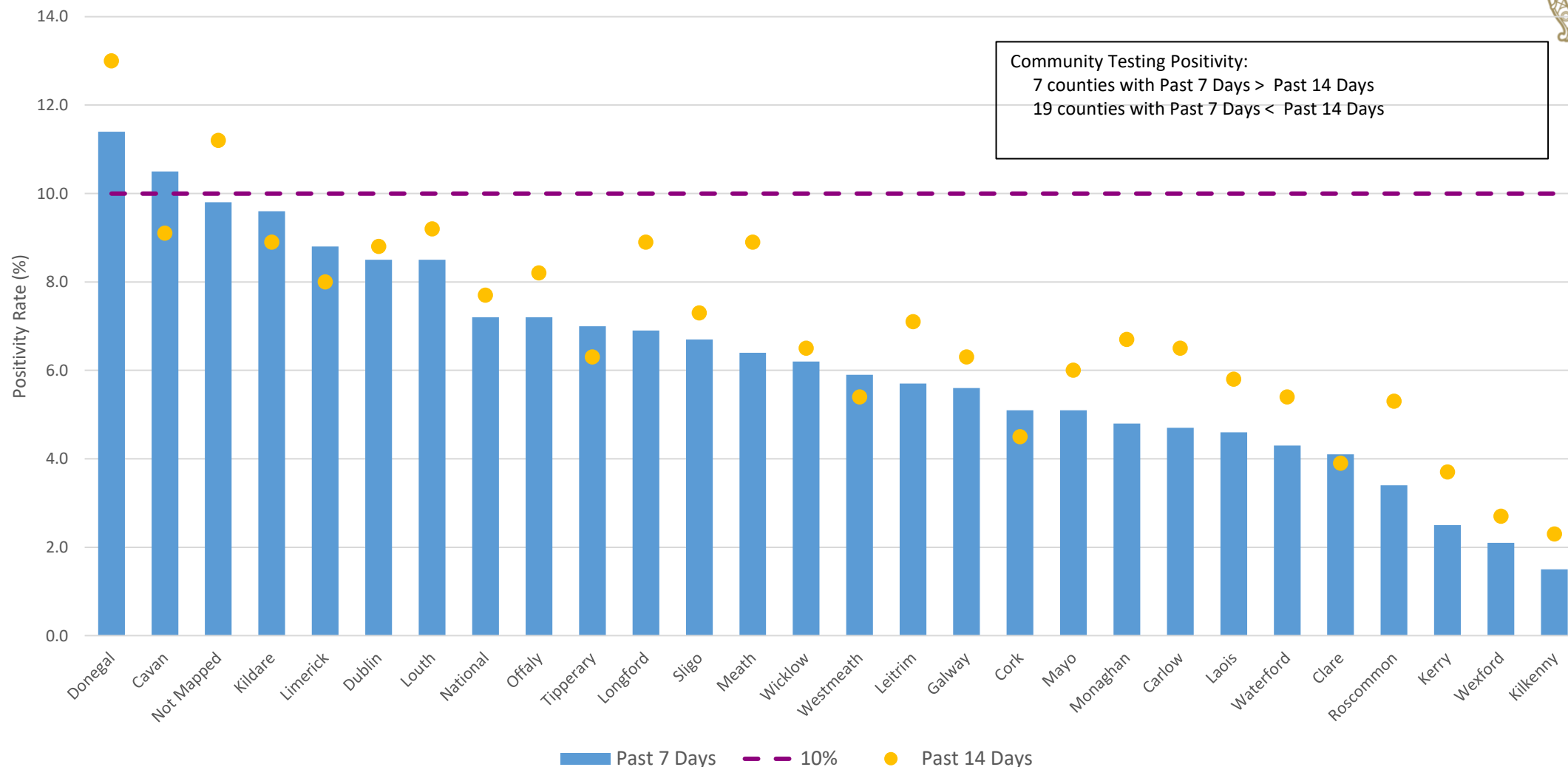
Community Testing (Swabs taken in Community Test Centres for GP and CMP referrals inc. symptomatic and close contacts but ex. serial, mass testing and walk-in): Total tests and % Positivity







Community Testing: % Positivity Rate Past 7 Days and Past 14 Days by County as at 26/04/21  
(Data provided by HSE Contact Tracing Team and may differ from daily positivity rate data from Cumulative Labs Report)



**Location is based on location of Community Test Centre or Acute Hospital and not on patient's address**

Updated 27/04/2021. Source: CRM data, HSE Contact and Tracing Team. Refers to positive lab results excluding private testing.

Community=Swabs taken in Community Test Centres for GP and CMP referrals (symptomatic, close contact etc), excluding serial and mass testing

# Incidence across different age groups (excluding HCW and LTRC)

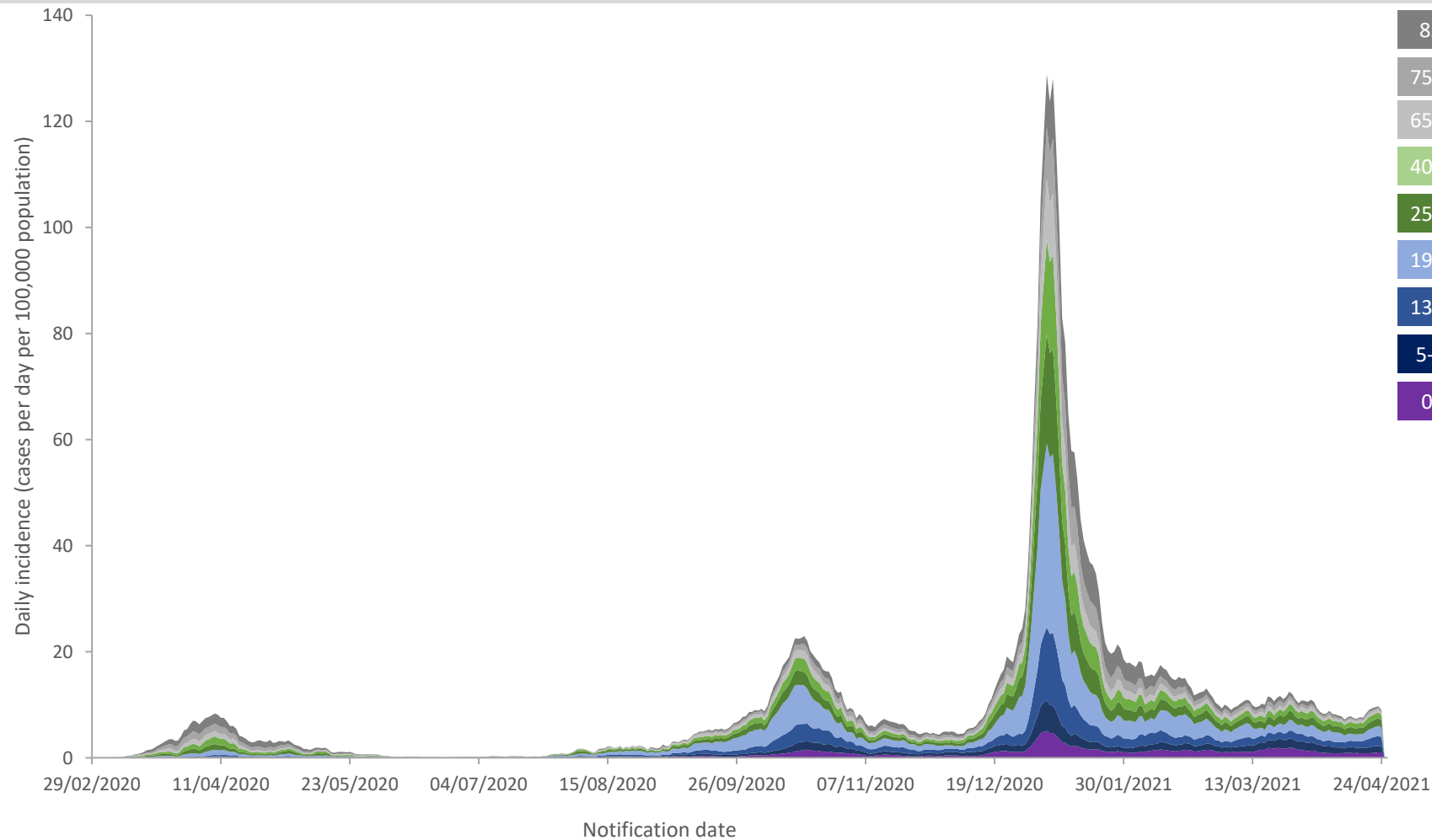


Chart shows 5-day rolling average of total incidence (cases per day per 100,000 population) with coloured bands showing the contribution of each age cohort to the total incidence, having adjusted for the number of people in that age cohort (CSO 2016 census data). Healthcare workers and cases associated with outbreaks in long-term residential care are excluded, so that the analysis reflects the pattern of cases in the community. Cases dated by notification date. A number of cases in those aged 65 and older will be linked in the coming days to outbreaks in LTRC.

Week	Age band								
	0-4	5-12	13-18	19-24	25-39	40-64	65-74	75-84	85+
9	0.0	0.0	0.3	0.0	0.1	0.1	0.0	0.0	0.0
10	0.0	0.2	0.3	0.0	0.4	0.9	0.5	1.0	0.0
11	0.6	0.2	0.5	7.5	7.1	6.7	5.1	9.7	11.8
12	4.5	2.4	7.5	31.4	43.3	43.2	27.6	33.6	57.7
13	7.2	4.2	14.5	82.4	114.8	130.7	83.0	123.2	222.0
14	4.5	4.4	6.7	51.3	87.2	101.4	73.1	167.9	379.0
15	6.0	6.0	10.0	65.5	84.1	104.8	76.6	177.1	528.5
16	3.3	5.6	11.3	50.1	65.5	80.6	72.6	219.8	837.8
17	3.3	4.4	10.2	74.0	74.1	78.9	61.0	247.3	938.5
18	5.4	6.6	10.5	46.8	53.2	49.5	32.7	68.7	196.9
19	2.4	2.7	5.4	27.8	31.6	28.5	19.5	46.8	140.6
20	3.6	1.6	5.1	18.4	25.0	18.6	8.8	21.9	41.4
21	3.9	3.5	5.4	13.3	12.4	13.1	10.2	21.9	54.8
22	2.4	2.6	2.2	8.2	7.9	9.5	6.4	10.2	44.4
23	1.2	0.5	1.6	5.4	2.3	3.6	2.1	6.1	10.4
24	2.7	0.7	1.3	2.1	2.7	2.5	1.6	5.1	17.8
25	0.0	0.4	0.8	2.7	2.2	1.7	1.3	1.5	10.4
26	0.6	0.2	0.3	3.0	3.1	1.3	1.1	4.1	10.4
27	1.5	0.4	0.3	2.7	3.6	1.7	0.3	2.0	0.0
28	0.9	1.1	1.1	10.9	4.3	2.6	1.6	2.0	3.0
29	1.2	0.4	0.8	4.8	4.3	2.7	3.2	1.5	3.0
30	1.8	0.5	1.6	4.5	5.2	2.1	1.9	1.0	4.4
31	6.6	4.6	7.8	11.8	11.3	5.7	2.4	2.0	3.0
32	5.4	4.6	7.3	20.2	18.0	11.8	4.8	3.1	3.0
33	6.3	10.0	12.6	31.4	21.9	13.7	8.6	2.5	7.4
34	7.5	7.7	17.5	38.9	19.2	13.4	6.7	8.1	7.4
35	6.3	9.8	14.0	39.9	21.8	14.9	5.4	10.7	8.9
36	13.0	13.1	17.8	52.5	26.6	18.3	13.4	16.8	38.5
37	17.2	17.9	30.1	68.8	32.4	28.7	23.8	15.3	26.6
38	21.7	26.2	44.1	96.0	49.9	39.7	34.3	25.4	37.0
39	12.1	22.6	43.1	153.4	57.0	47.7	34.5	36.1	34.0
40	29.6	28.8	63.5	177.8	76.8	66.9	37.2	40.7	77.0
41	43.1	46.8	134.0	340.0	130.2	101.7	65.9	69.2	130.3
42	78.1	90.6	199.1	448.1	171.9	158.3	94.5	85.5	145.1
43	82.0	93.9	176.3	316.7	136.2	135.3	92.6	97.7	155.4
44	56.4	67.6	96.9	167.0	86.4	86.6	58.9	65.6	124.3
45	34.4	39.9	59.2	98.1	70.5	59.6	48.5	64.1	115.5
46	42.8	37.5	66.2	99.9	64.0	62.2	37.5	59.0	151.0
47	22.3	34.3	60.8	86.4	43.8	43.0	31.3	47.8	78.5
48	23.8	31.7	46.3	74.0	41.9	40.1	24.4	45.8	87.3
49	28.7	37.0	37.9	48.6	43.4	38.8	29.7	37.7	106.6
50	21.4	39.9	44.7	63.4	49.8	43.4	24.9	40.7	78.5
51	52.2	58.7	75.1	141.0	104.6	98.8	58.1	73.8	124.3
52	77.5	77.3	121.1	350.2	196.8	155.9	101.2	112.5	183.6
53	218.7	236.7	518.6	1491.8	843.4	718.0	452.5	411.7	694.2
1	184.3	209.6	577.5	1443.2	913.5	839.1	546.2	569.5	1067.3
2	131.2	127.6	307.6	678.4	529.0	549.6	350.5	595.4	1311.5
3	96.8	81.6	173.8	397.0	334.8	331.8	210.4	377.6	919.3
4	76.3	62.5	132.9	270.5	205.9	201.2	143.5	258.0	737.2
5	78.1	73.3	128.9	233.1	155.7	151.2	98.5	170.5	405.6
6	92.9	86.6	128.6	239.1	135.4	116.1	73.9	112.0	185.0
7	87.8	77.3	98.2	266.0	121.1	102.6	66.7	98.7	188.0
8	87.5	70.5	90.7	197.5	104.8	86.2	46.9	70.7	148.0
9	67.0	57.2	65.4	133.5	83.3	65.5	45.8	50.4	48.8
10	68.5	68.9	91.8	149.2	86.1	64.1	40.4	44.8	51.8
11	110.1	91.5	79.9	92.1	94.7	66.7	47.7	56.0	65.1
12	108.3	102.8	85.8	108.7	99.0	72.8	41.0	43.3	45.9
13	70.0	86.9	65.9	116.5	85.0	70.4	40.2	36.6	42.9
14	49.8	65.6	58.1	96.0	69.6	51.4	24.1	22.9	20.7
15	50.1	55.8	65.4	79.4	64.5	53.5	25.7	15.8	17.8
16	54.3	65.8	99.6	100.8	80.8	60.6	31.6	20.9	19.2

# Incidence across different age groups (excluding HCW and LTRC)

The recent increase in incidence is most marked in those aged 13-18, 19-24 and 25-39 years.

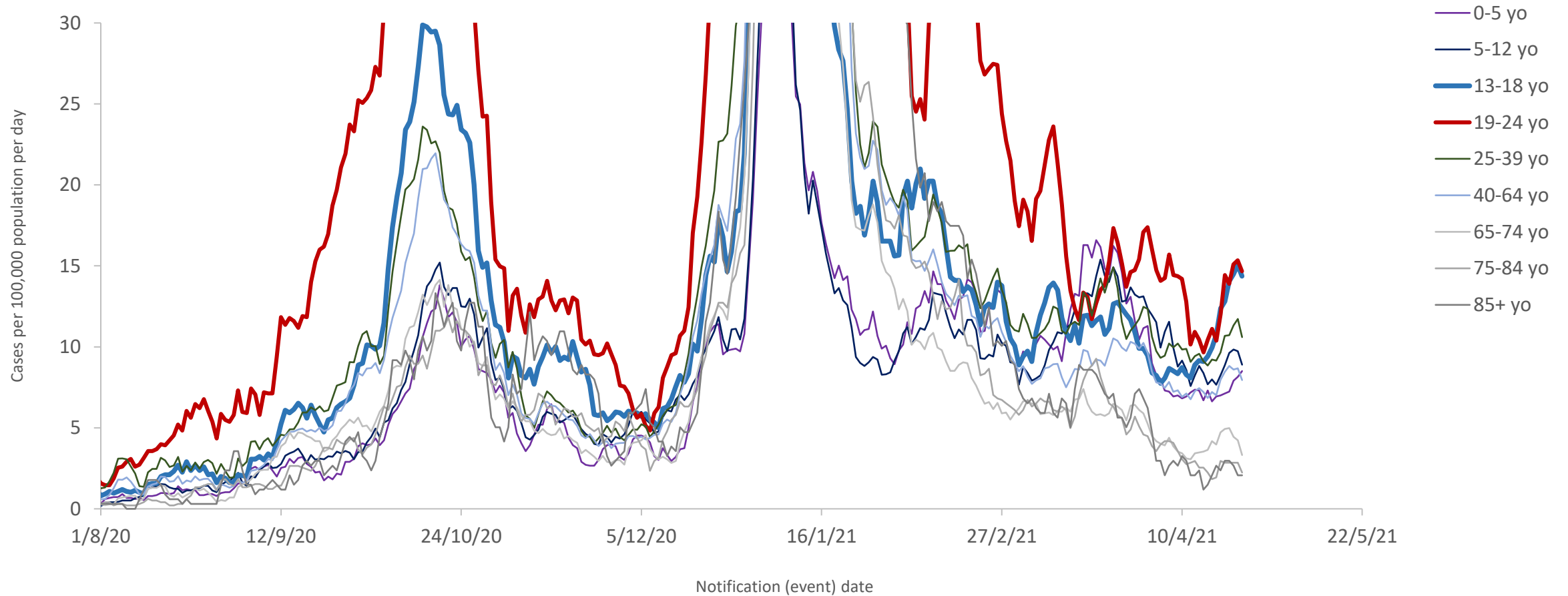


Week	Age band								
	0-4	5-12	13-18	19-24	25-39	40-64	65-74	75-84	85+
47	22.3	34.3	60.8	86.4	43.8	43.0	31.3	47.8	78.5
48	23.8	31.7	46.3	74.0	41.9	40.1	24.4	45.8	87.3
49	28.7	37.0	37.9	48.6	43.4	38.8	29.7	37.7	106.6
50	21.4	39.9	44.7	63.4	49.8	43.4	24.9	40.7	78.5
51	52.2	58.7	75.1	141.0	104.6	98.8	58.1	73.8	124.3
52	77.5	77.3	121.1	350.2	196.8	155.9	101.2	112.5	183.6
53	218.7	236.7	518.6	1491.8	843.4	718.0	452.5	411.7	694.2
1	184.3	209.6	577.5	1443.2	913.5	839.1	546.2	569.5	1067.3
2	131.2	127.6	307.6	678.4	529.0	549.6	350.5	595.4	1311.5
3	96.8	81.6	173.8	397.0	334.8	331.8	210.4	377.6	919.3
4	76.3	62.5	132.9	270.5	205.9	201.2	143.5	258.0	737.2
5	78.1	73.3	128.9	233.1	155.7	151.2	98.5	170.5	405.6
6	92.9	86.6	128.6	239.1	135.4	116.1	73.9	112.0	185.0
7	87.8	77.3	98.2	266.0	121.1	102.6	66.7	98.7	188.0
8	87.5	70.5	90.7	197.5	104.8	86.2	46.9	70.7	148.0
9	67.0	57.2	65.4	133.5	83.3	65.5	45.8	50.4	48.8
10	68.5	68.9	91.8	149.2	86.1	64.1	40.4	44.8	51.8
11	110.1	91.5	79.9	92.1	94.7	66.7	47.7	56.0	65.1
12	108.3	102.8	85.8	108.7	99.0	72.8	41.0	43.3	45.9
13	70.0	86.9	65.9	116.5	85.0	70.4	40.2	36.6	42.9
14	49.8	65.6	58.1	96.0	69.6	51.4	24.1	22.9	20.7
15	50.1	55.8	65.4	79.4	64.5	53.5	25.7	15.8	17.8
16	54.3	65.8	99.6	100.8	80.8	60.6	31.6	20.9	19.2

Heat map shows age-specific incidence (cases per week per 100,000 population). Healthcare workers and cases associated with outbreaks in long-term residential care are excluded, so that the analysis reflects the pattern of cases in the community. Cases dated by specimen collection date.

# Age-specific incidence (excl. HCW and LTRC)

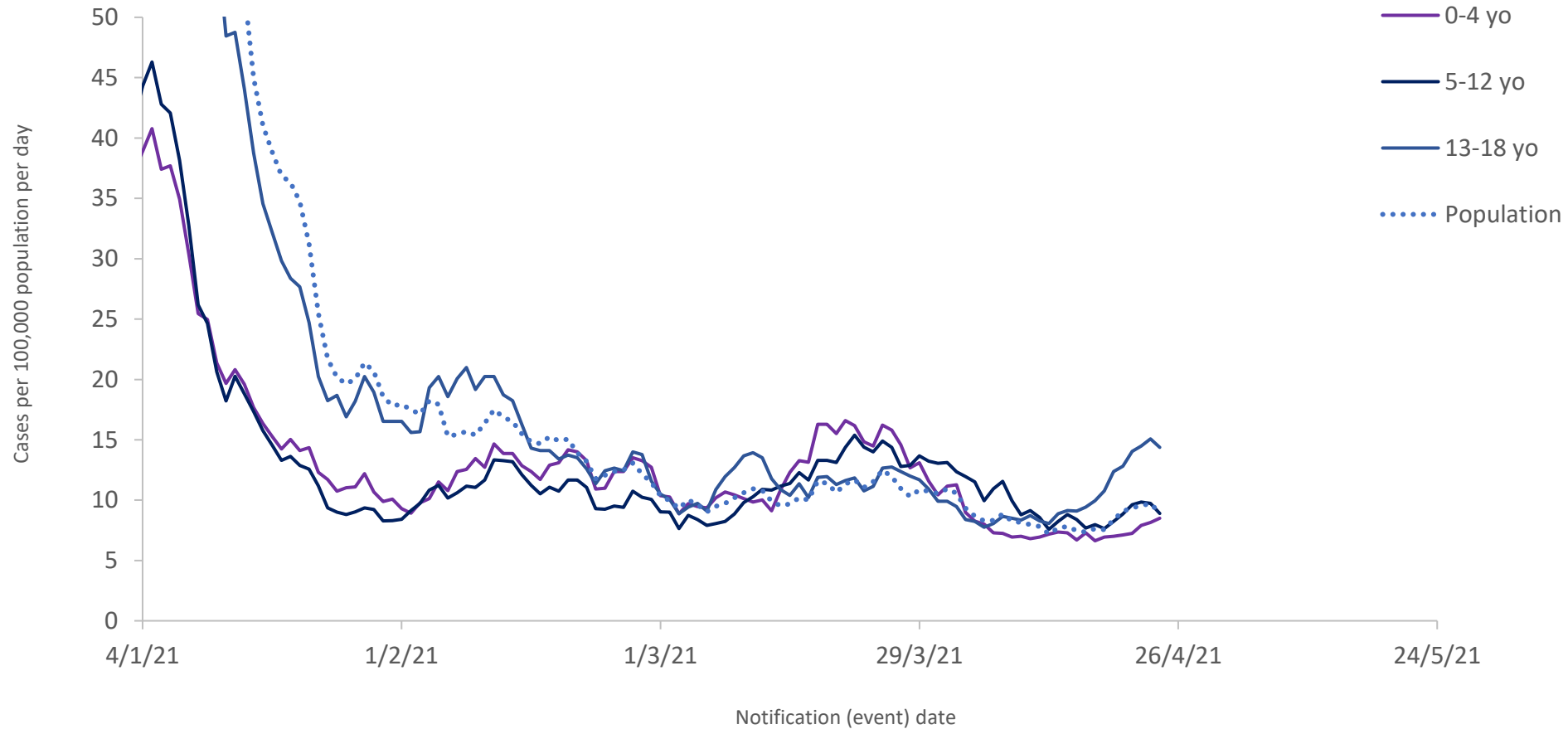
The incidence per 100,000 population is shown for different age cohorts, excluding healthcare workers and cases associated with outbreaks in long-term residential care. The increase in incidence over the last 10 days is most marked in the 13-18, 19-24 and 25-39 year old cohorts. There has only been a smaller increase in incidence in those aged 0-12 years.



Age-specific incidence (cases per day per 100,000 population within each age cohort, population from CSO 2016 census data). Healthcare workers and cases associated with outbreaks in long-term residential care are excluded, so that the analysis reflects the pattern of cases in the community. Cases dated by notification (event) date. Tests outsourced to German laboratory in April backdated, using the specimen collection date, to the date they would have been confirmed if tested in a timely manner.

# Age-specific incidence in recent weeks

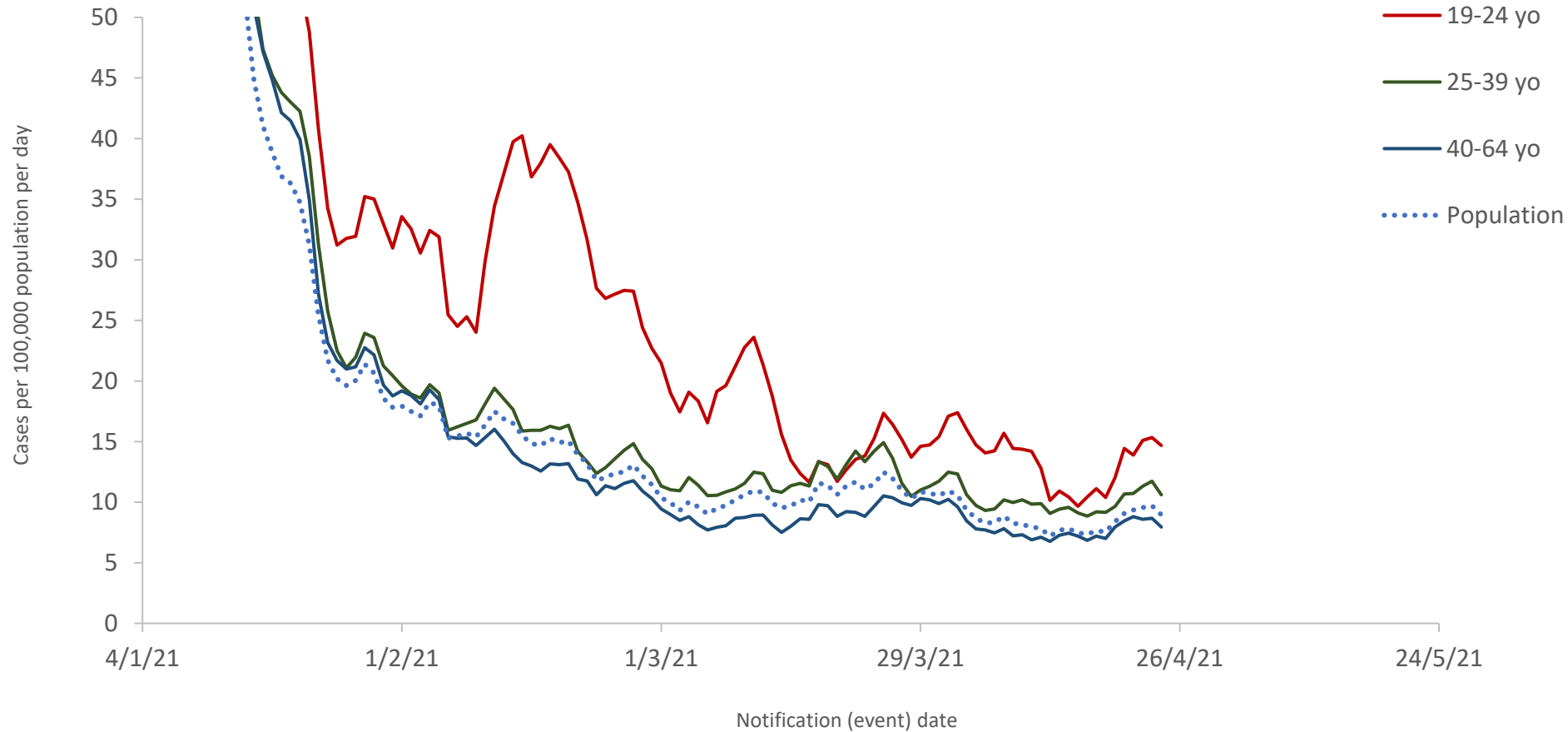
While incidence has increased in those aged 13-18 years since schools reopened (associated with a much larger increase in referral for testing) there has been very little change in incidence in those aged 0-12 years.



Age-specific incidence (cases per day per 100,000 population within each age cohort, population from CSO 2016 census data). Healthcare workers and cases associated with outbreaks in long-term residential care are excluded, so that the analysis reflects the pattern of cases in the community. Cases dated by notification (event) date.

# Age-specific incidence in recent weeks

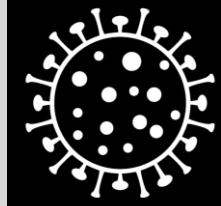
Incidence has increased across all cohorts from 19-64 years old, most notably in those aged 19-24 years



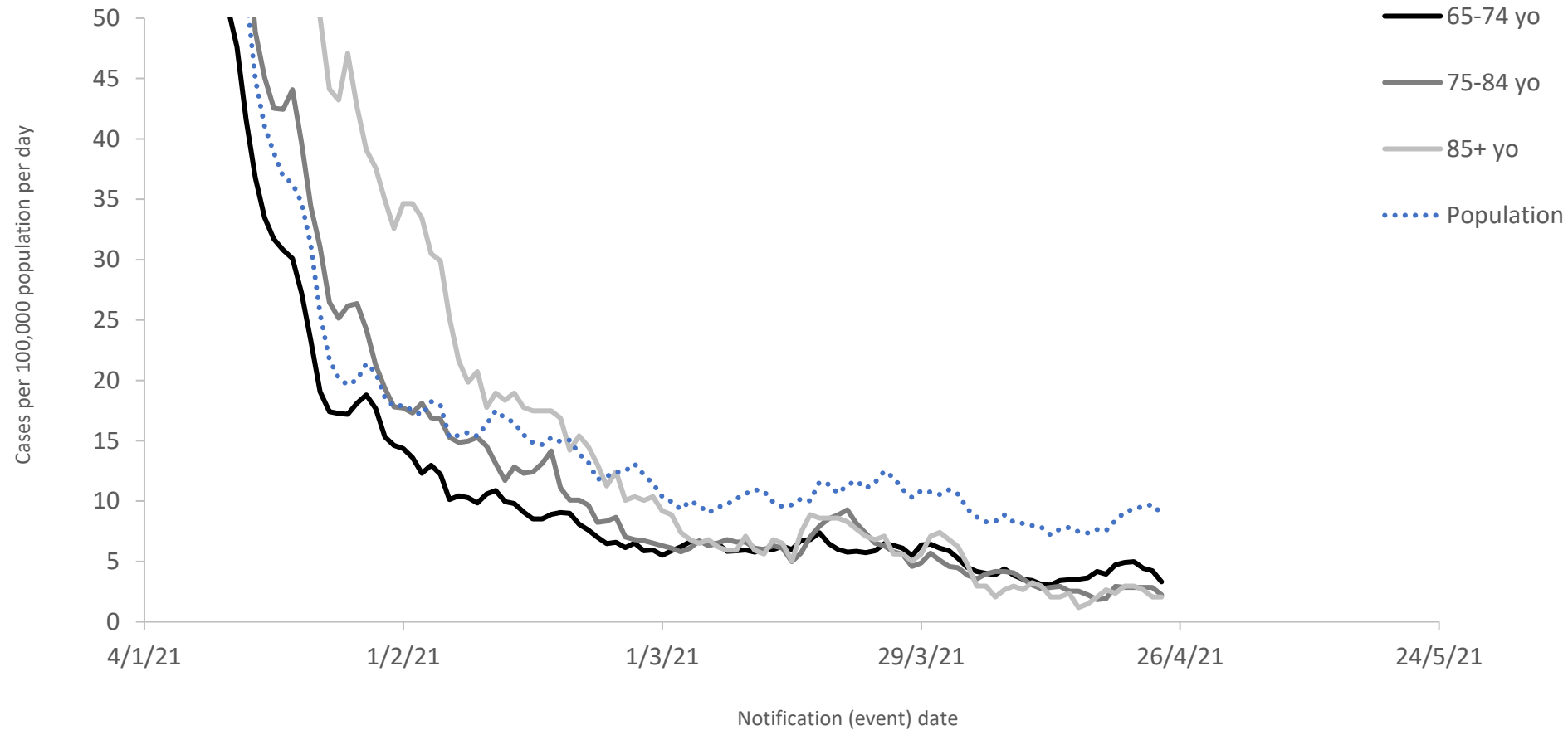
Age-specific incidence (cases per day per 100,000 population within each age cohort, population from CSO 2016 census data). Healthcare workers and cases associated with outbreaks in long-term residential care are excluded, so that the analysis reflects the pattern of cases in the community. Cases dated by notification (event) date.

# Age-specific incidence in recent weeks

Incidence in those aged 65 and older is now significantly below the population average. This is likely due first to reduced social mixing in this group in recent weeks, and an emerging vaccine effect in the older age cohorts.



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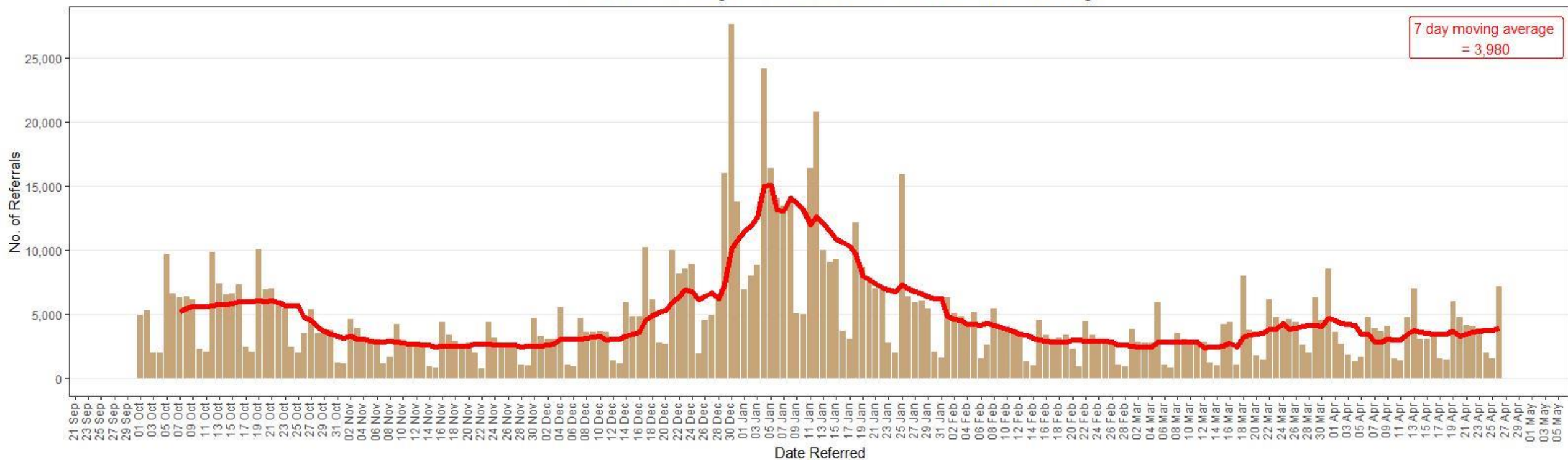
Age-specific incidence (cases per day per 100,000 population within each age cohort, population from CSO 2016 census data). Healthcare workers and cases associated with outbreaks in long-term residential care are excluded, so that the analysis reflects the pattern of cases in the community. Cases dated by notification (event) date.



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# GP Referrals excluding Close Contacts, Schools, and Walk-In Testing



## Mar

	1 3,853 referrals (-14%)	2 2,897 referrals (-16%)	3 2,779 referrals (-7%)	4 2,766 referrals (-3%)	5 5,933 referrals (+103%)	6 1,108 referrals (-2%)
7 911 referrals (-1%)	8 3,589 referrals (-7%)	9 3,070 referrals (+6%)	10 2,876 referrals (+3%)	11 2,719 referrals (-2%)	12 2,889 referrals (-51%)	13 1,228 referrals (+11%)
14 1,069 referrals (+17%)	15 4,253 referrals (+19%)	16 4,433 referrals (+44%)	17 1,122 referrals (-61%)	18 8,061 referrals (+196%)	19 3,817 referrals (+32%)	20 1,772 referrals (+44%)
21 1,511 referrals (+41%)	22 6,165 referrals (+45%)	23 4,823 referrals (+9%)	24 4,373 referrals (+290%)	25 4,669 referrals (-42%)	26 4,434 referrals (+16%)	27 2,609 referrals (+47%)
28 2,002 referrals (+32%)	29 6,317 referrals (+2%)	30 4,564 referrals (-5%)	31 8,559 referrals (+96%)			
Sun	Mon	Tue	Wed	Thu	Fri	Sat

## Apr

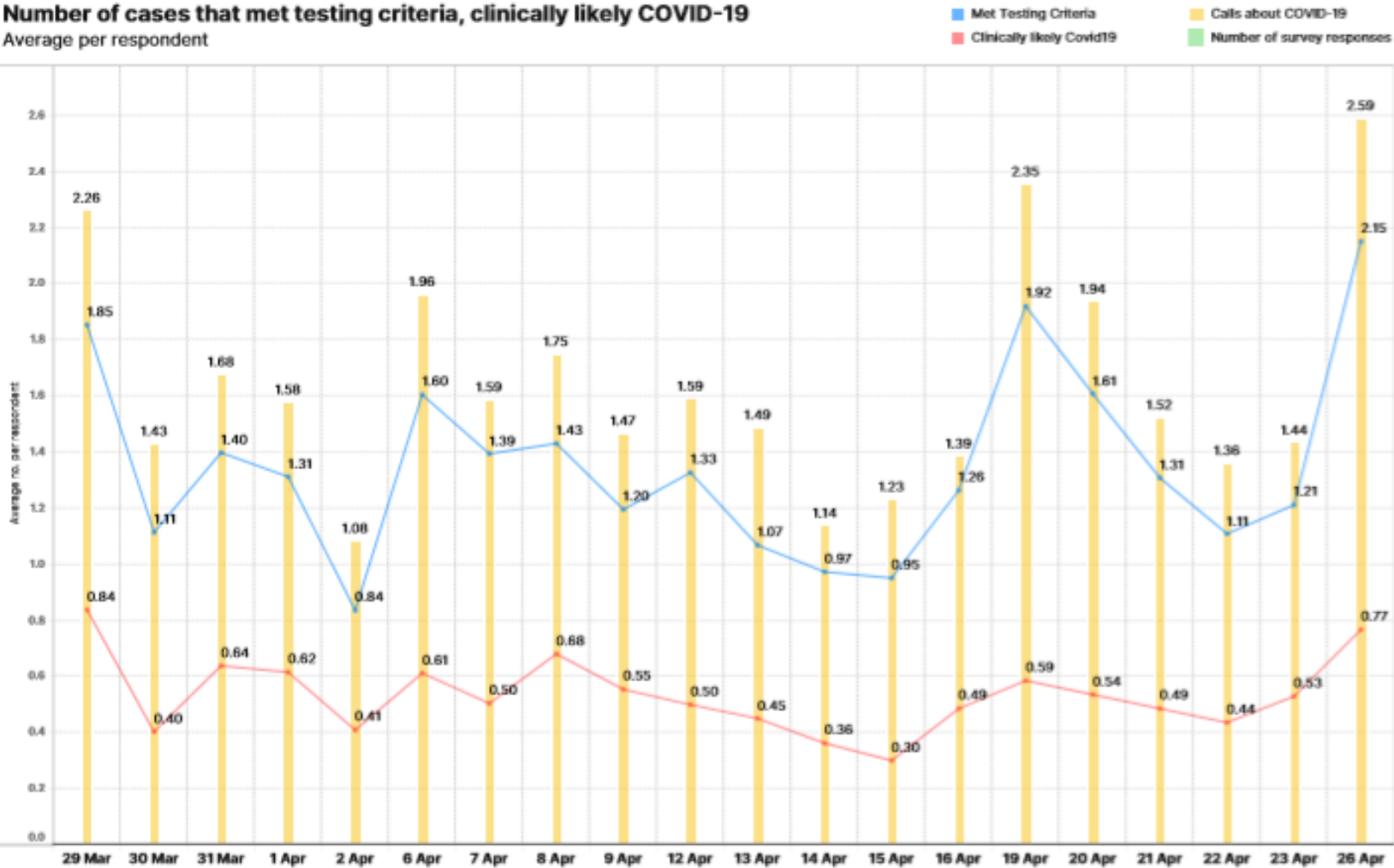
				1 3,667 referrals (-21%)	2 2,711 referrals (-39%)	3 1,901 referrals (-27%)
4 1,306 referrals (-35%)	5 1,699 referrals (-73%)	6 4,815 referrals (+5%)	7 3,947 referrals (-54%)	8 3,738 referrals (+2%)	9 4,085 referrals (+51%)	10 1,542 referrals (-19%)
11 1,391 referrals (+7%)	12 4,822 referrals (+184%)	13 7,015 referrals (+46%)	14 3,127 referrals (-21%)	15 3,136 referrals (-16%)	16 3,357 referrals (-18%)	17 1,605 referrals (+4%)
18 1,498 referrals (+8%)	19 6,048 referrals (+25%)	20 4,773 referrals (-32%)	21 4,216 referrals (+35%)	22 4,084 referrals (+30%)	23 3,931 referrals (+17%)	24 2,055 referrals (+28%)
25 1,583 referrals (+6%)	26 7,216 referrals (+19%)	27	28	29	30	
Sun	Mon	Tue	Wed	Thu	Fri	Sat



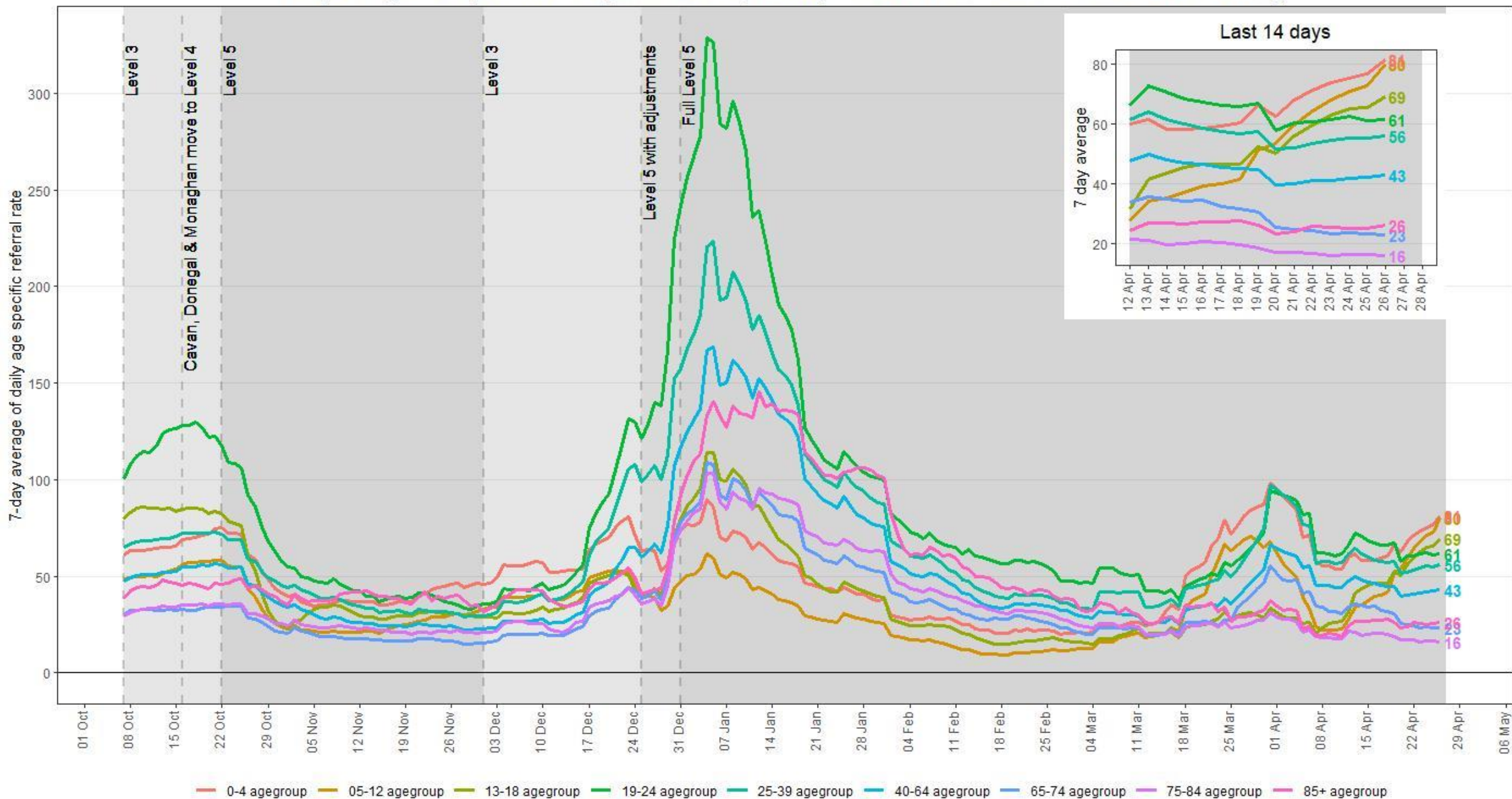




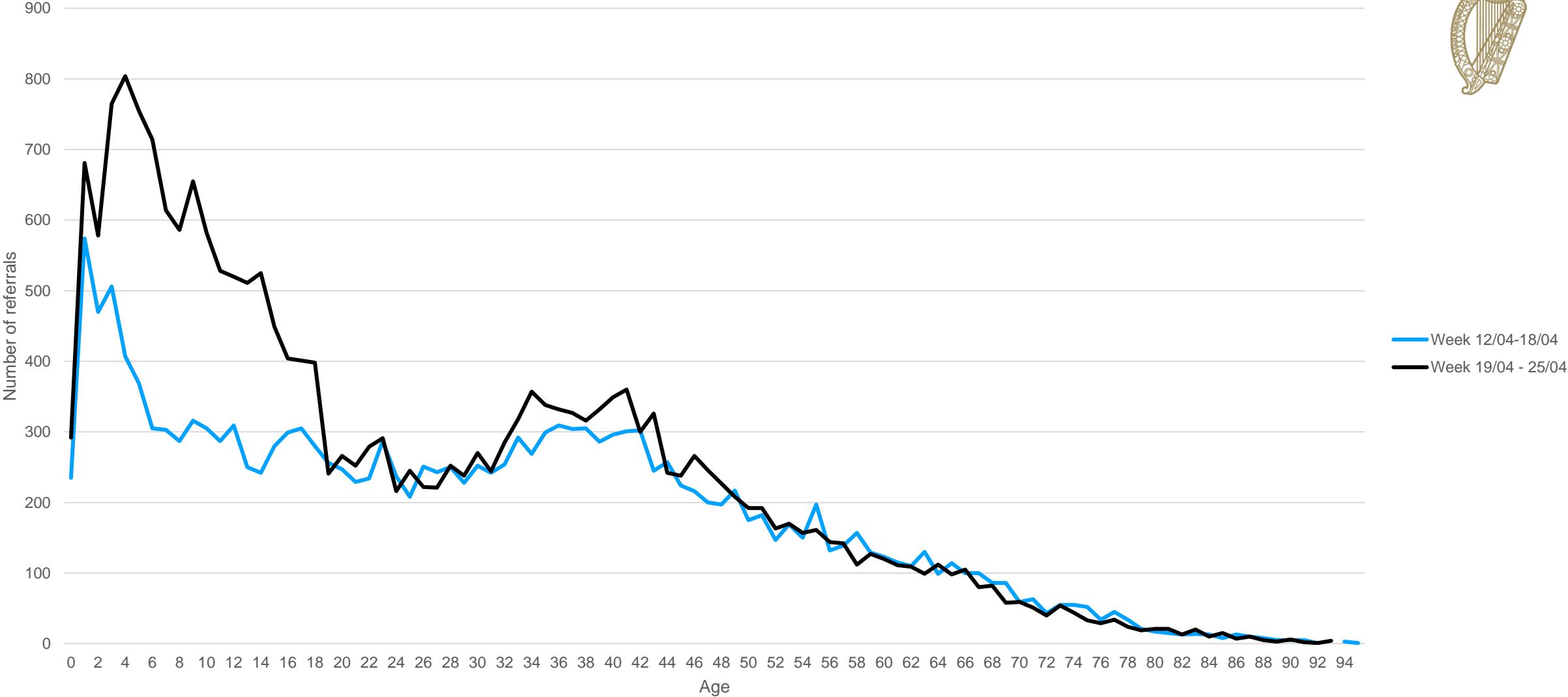
**Number of cases that met testing criteria, clinically likely COVID-19**  
Average per respondent



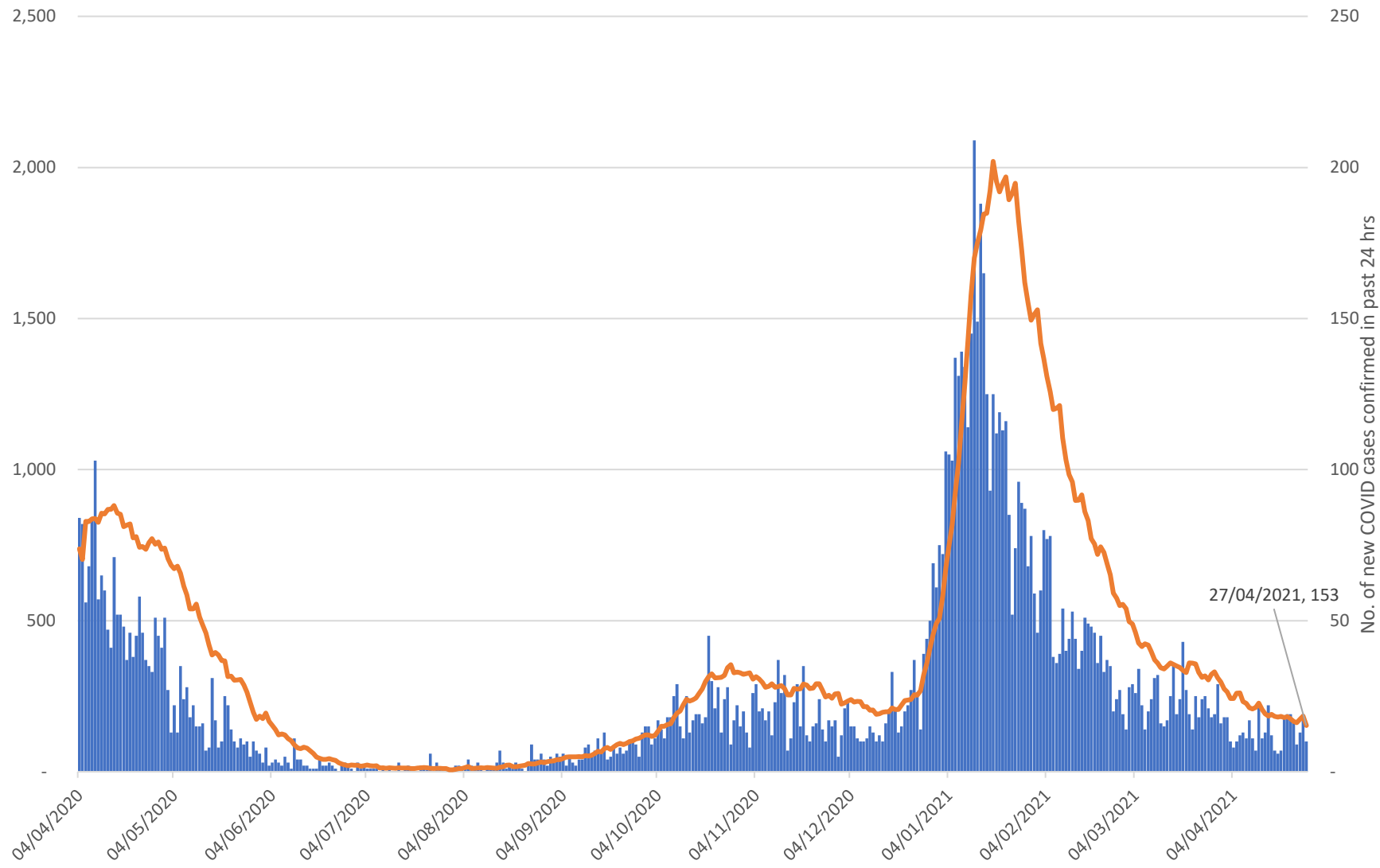
7-day Average of Daily Referral Rate per 100,000 Population (GP Referrals excl. Close Contacts & Schools Testing)



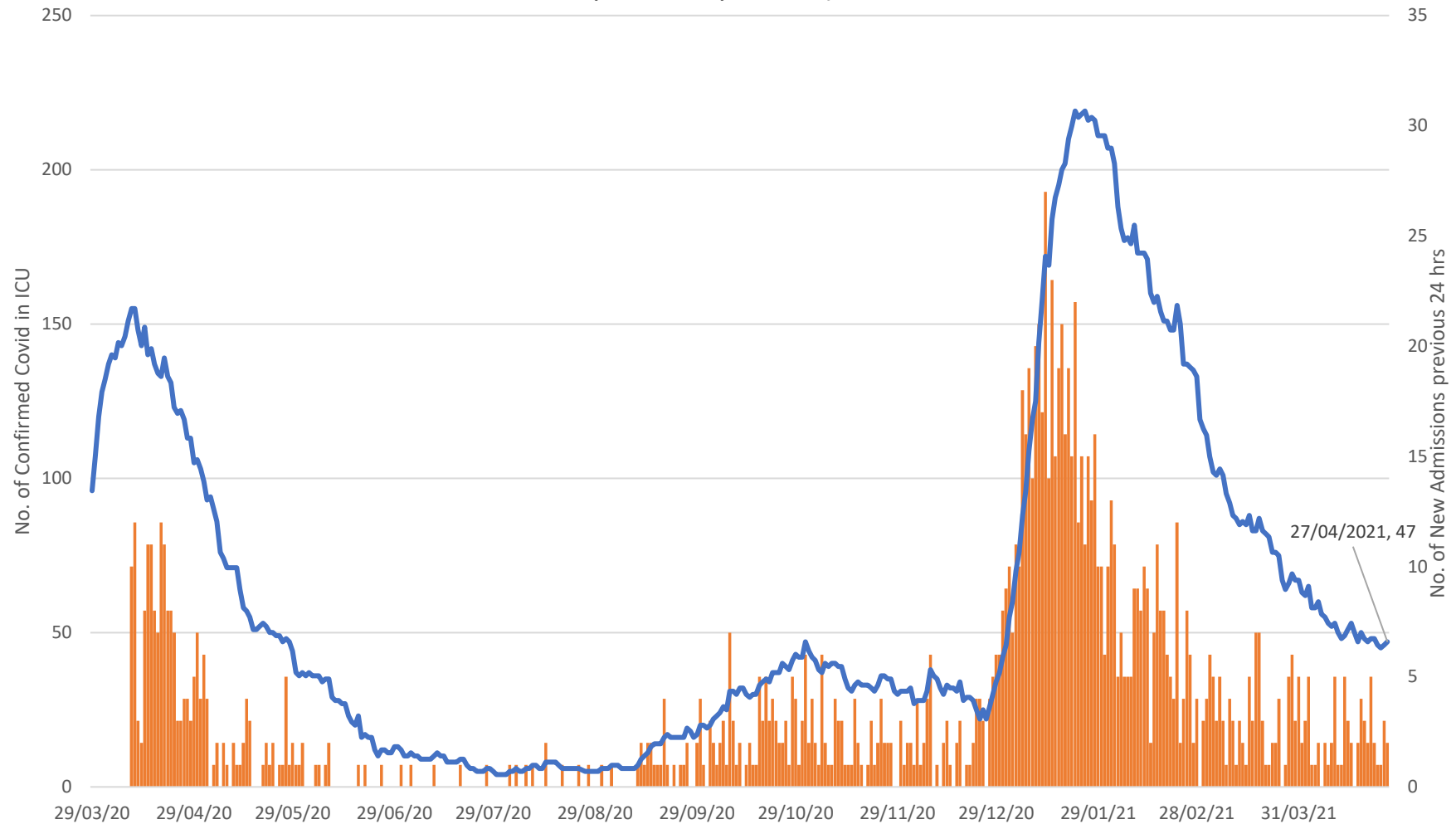
General test referrals age distribution last two weeks



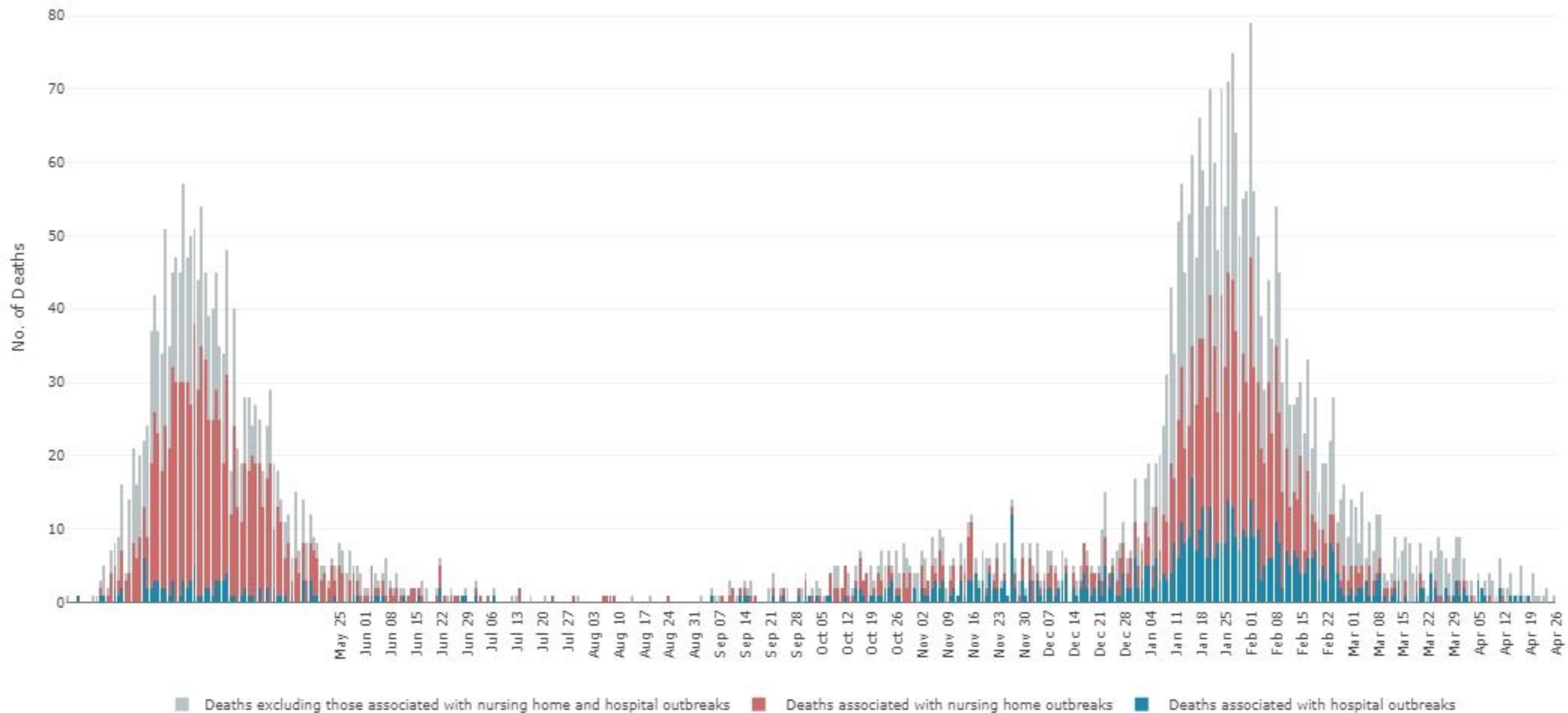
Total No. of Confirmed Covid Cases in Hospital at 8AM &  
No. of New Confirmed Covid Cases in Past 24 hrs



# Total No. of Confirmed Covid Cases in ICU at 11.30AM & No. of New Confirmed Covid Admissions to ICU in past 24 hrs *(includes all reporting public & private hospitals and may differ from no. reported by HSE in public hospital ICU)*

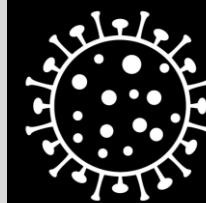


Deaths by Date of Death since March

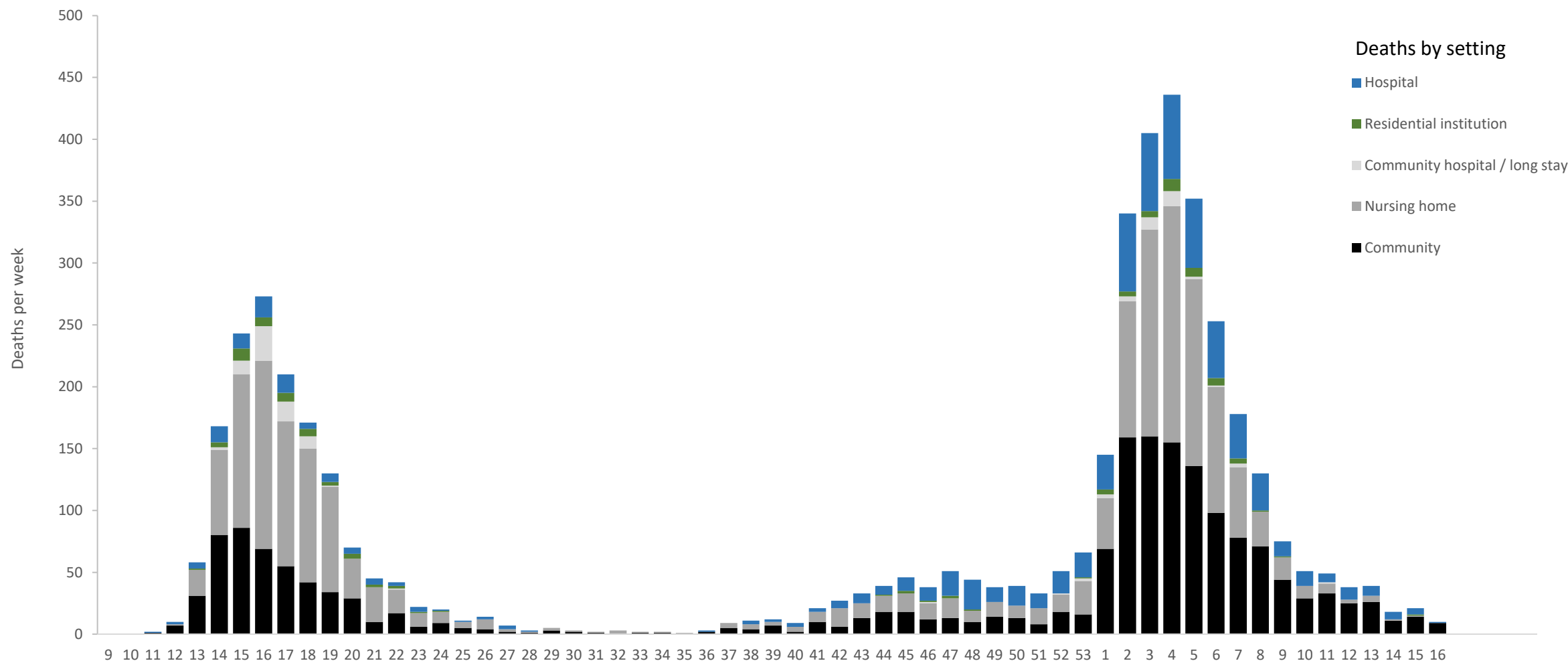


# Deaths by setting

The number of deaths per week is static or decreasing slowly. Deaths associated with outbreaks in LTRC have decreased earlier and more rapidly than in the wider community, due to the protective effect of vaccination.



Coronavirus  
**COVID-19**  
Public Health  
Advice



Deaths per week by week of death and the setting in which the death occurred. Deaths with laboratory confirmed SARS-CoV-2 only. Deaths in hospital outbreaks refers to deaths within a cluster of linked cases where the infection has been transmitted in the hospital setting, other deaths in hospitals are recorded as 'community' as the infection occurred in the community.



Rialtas na hÉireann  
Government of Ireland



# COVID-19 outbreaks by key outbreak locations, week 16 2021 and overall, 2020-2021 Ireland



- Since March 1<sup>st</sup> 2020, 15,515 outbreaks have been notified to CIDR
- In week 16, 2021, 312 outbreaks were notified. 53 of which had a notification date for the first associated case before April 1<sup>st</sup> 2021, (December (n=3) January (n=2), February (n=6), March (n=42))

Key outbreak locations	Week 16	Weeks 10-47	Weeks 48-16
Workplace	9	248	394
Direct Provision Centre	2	37	45
Vulnerable groups*	8	101	361
Prisons	0	9	6
Nursing Home/Community Hospital	1	378	259
Acute hospitals	3	178	240
Schools^	31	199	291
Childcare facility	22	77	244

\*Includes Irish Travellers, Roma, homeless and addiction service population

^These outbreaks are associated with school children +/- school staff. Transmission of COVID-19 within the school has not necessarily been established in these outbreaks

Data source: CIDR April 27<sup>th</sup> 2021 – data to midnight April 24<sup>th</sup> 2021



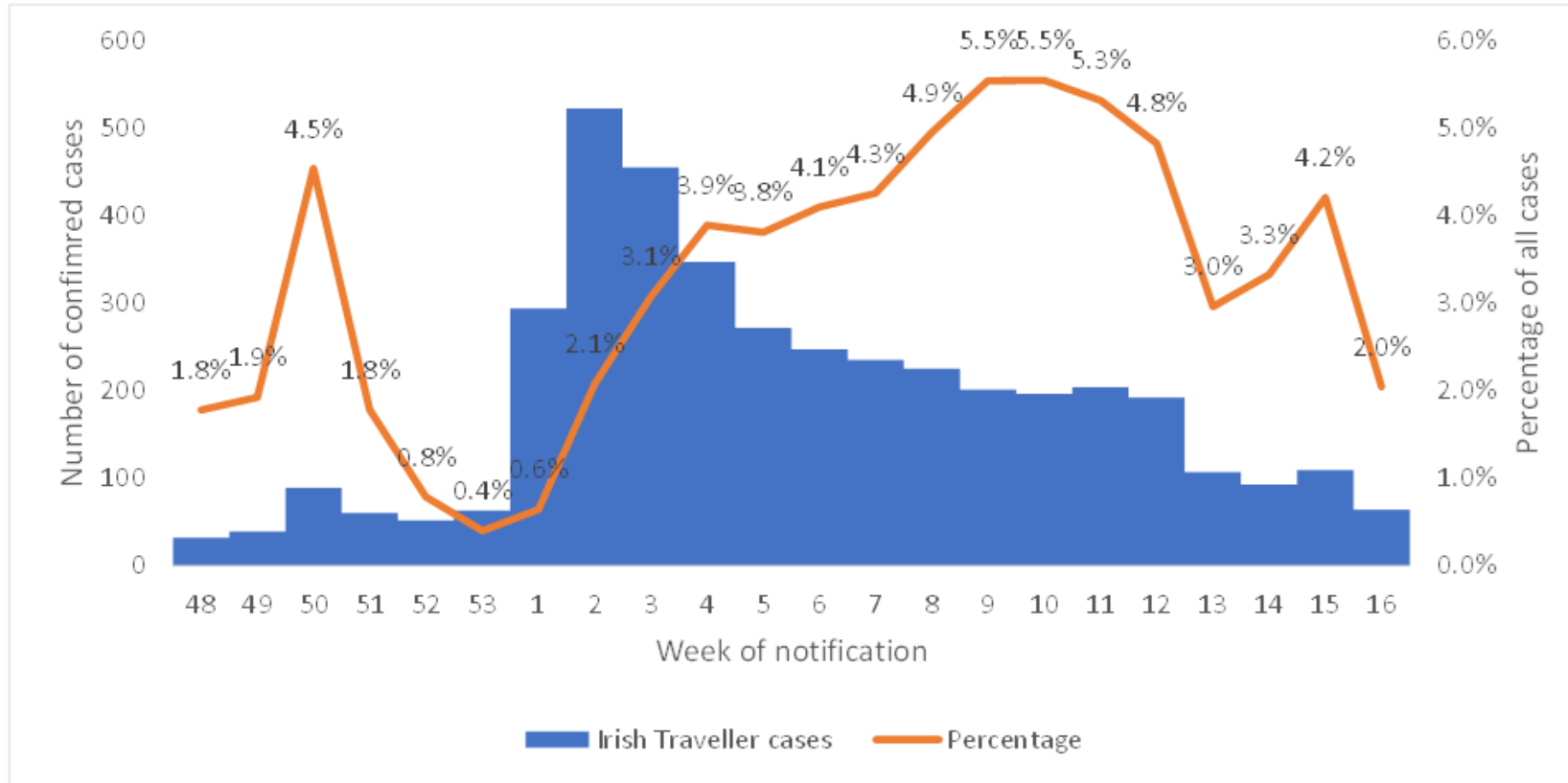
# Weekly Summary



- **Total** number of outbreaks week 16, 2021 n=312 (including 53 late notifications) compared with week 15, 2021 n=252 (included 31 late notifications)
- **Vulnerable groups**
  - Irish Travellers – wave 3 -293 outbreaks, 4101 cases
    - Week 16 – 8 new outbreaks, 41 linked cases
  - 2 new outbreak in Direct Provision Centres – 5 linked cases
- **Workplace outbreaks**
  - 14 open outbreaks in food industry with 174 linked cases
    - 1 new food industry outbreak in week 16 – 9 linked cases (range 4-22)
  - 4 new construction sector outbreaks – 124 linked cases
    - 1 new outbreak – 116 linked cases
  - 3 open outbreaks in other key workplaces, 79 linked cases (range 6-44)
- **Residential institution outbreaks**
  - 10 outbreaks are 'open' with 44 linked cases (range 1-19)
  - 3 outbreaks reported in week 16 with 39 linked cases
- **Home care Teams**
  - 10 open outbreaks – 32 linked cases (range 1-11)
  - 2 new outbreaks notified in week 16 with 6 linked cases
- **Nursing Homes & Community Hospitals**
  - 17/637 outbreaks remain open with 556 linked cases
  - one new outbreak , 13 linked cases
  - since November 22nd 2020, 1012 deaths
- **Acute hospitals**
  - 22/418 outbreaks across 14 acute hospitals remain open, 292 linked cases (range 1-144)
  - 3 outbreaks notified last week with 17 linked cases
  - since November 22<sup>nd</sup> 2020, 514 deaths have occurred in cases linked to acute hospitals outbreaks
- **Schools**
  - 31 new outbreaks since last week's report, 110 linked cases (range 0-16)
- **Childcare facilities**
  - 22 new outbreaks since last week's report with 71 linked cases
  - 24 cases linked to 6 previously notified outbreaks
- **Third-level students/University/college**
  - 14 open outbreaks with 563 confirmed linked cases
  - one outbreak with 2 linked cases since last report; late notification from March

Data source: CIDR April 27<sup>th</sup> 2021 – data to midnight April 24<sup>th</sup> 2021

# COVID-19 infections among Irish Travellers – November 22<sup>nd</sup> 2020 – April 24<sup>th</sup> 2021



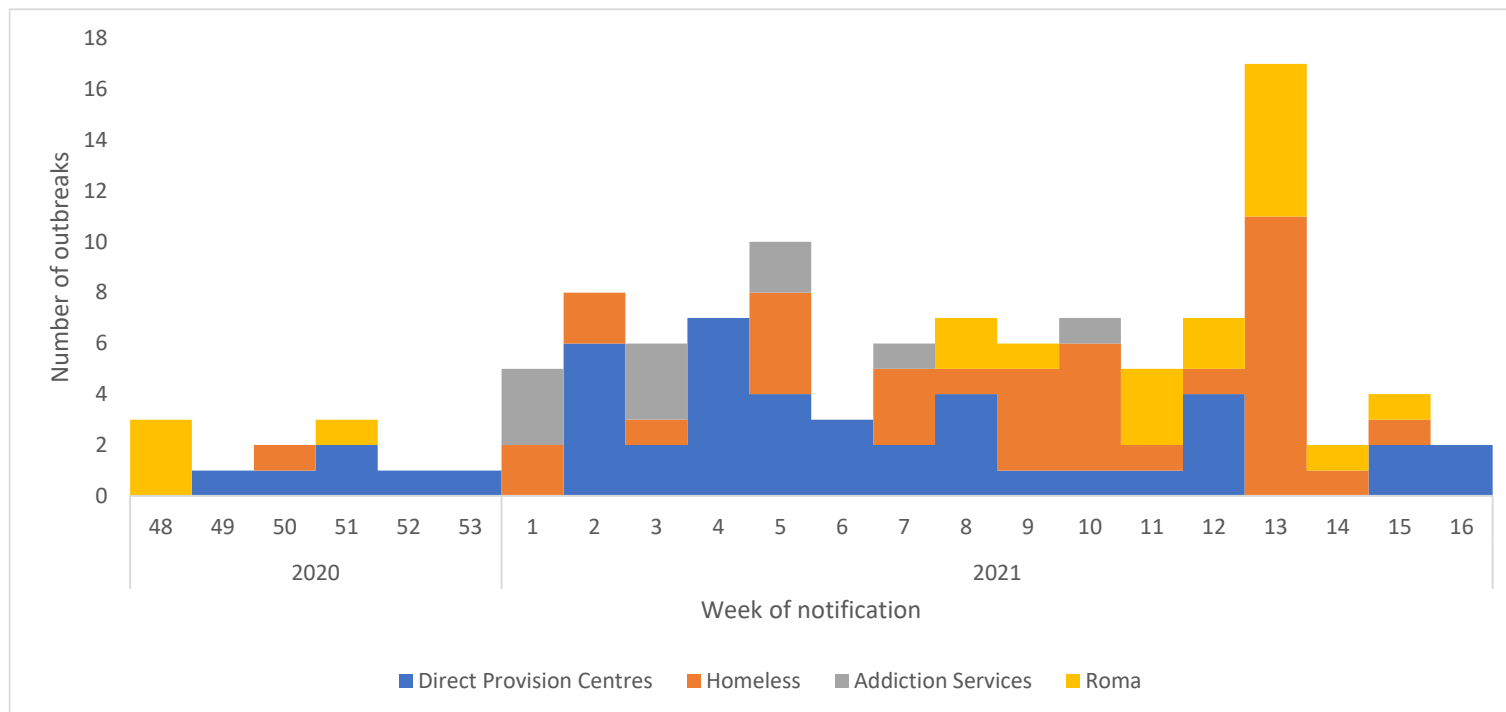
- 4101 confirmed cases
- 47% (1938/4101) male
- Median age 23 years
- 187 (4.6%) hospitalised, 20 ICU admissions and 11 deaths
- Between week 9 and week 11 2021, confirmed cases among Irish Travellers made >5.0% of all confirmed COVID-19 cases each week. This decreased to 2.0% in week 16 2021

## Inclusion criteria

Cases linked to outbreaks reported as affecting Irish Travellers OR whose ethnicity is reported as Irish Traveller, November 22<sup>nd</sup> 2020 to midnight April 24<sup>th</sup> 2021

Data source: CIDR April 26<sup>th</sup> 2021 – data to midnight April 24<sup>th</sup> 2021

# Outbreaks affecting Roma, or linked with Direct Provision Centres, the Homeless, or Addiction Services: November 22<sup>nd</sup> 2020 to midnight April 24<sup>th</sup> 2021



## November 22<sup>nd</sup> 2020 –April 24<sup>th</sup> 2021

- 45 outbreaks notified in Direct Provision Centres, 38 affecting the Homeless, 10 in Addiction Services, and 20 among Roma
- Ten Direct Provision Centre outbreaks remain 'Open' as do 4 outbreaks involving the Homeless, 13 involving the Roma community, and one in Addiction Services

## Week 16 2021

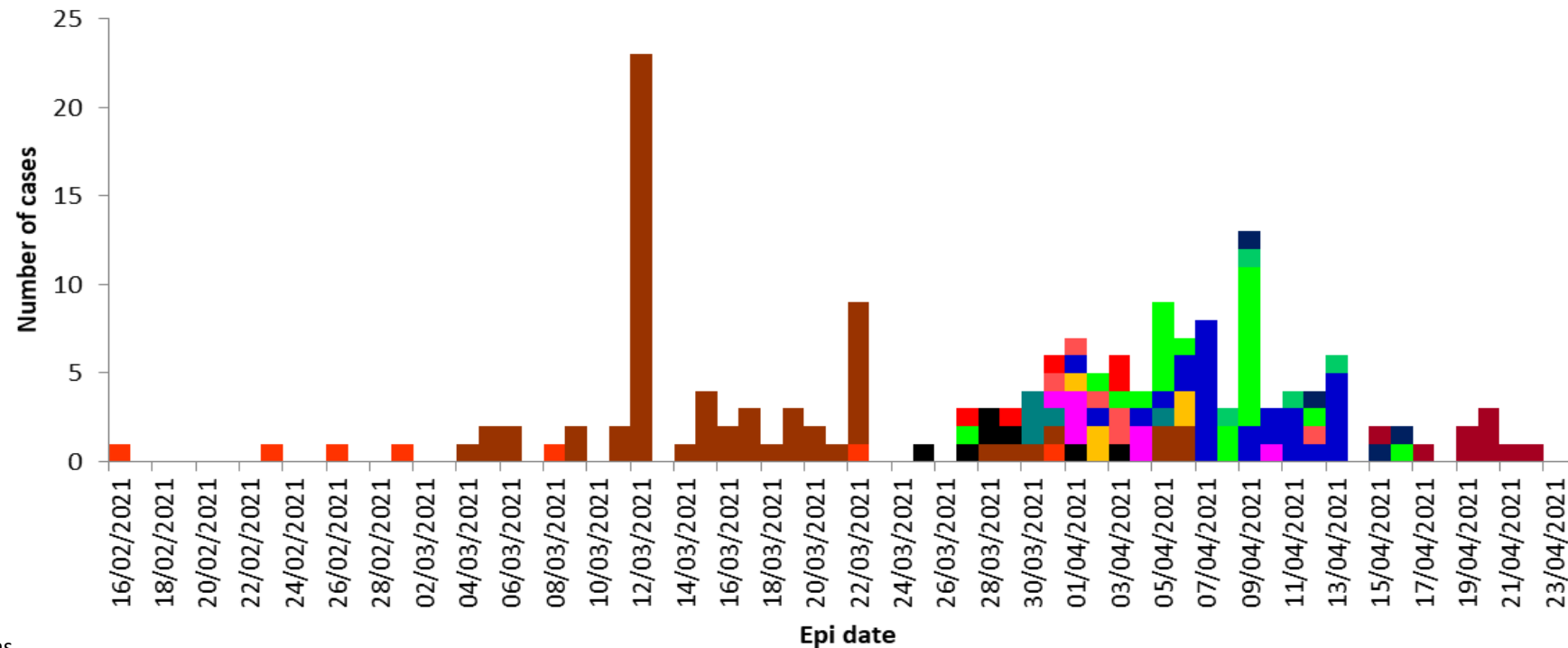
- Two additional outbreaks in Direct Provision Centres with 5 linked cases. No new outbreaks among Homeless, Roma Community or in Addiction Services.

Data source: CIDR April 26<sup>th</sup> 2021 – data to midnight April 24<sup>th</sup> 2021

# Workplace outbreaks – Food production/processing: Open\* outbreaks up to April 24<sup>th</sup> 2021



- 174 cases are linked to **14 open** outbreaks in this sector (range: 0-65 linked confirmed cases)
- 1 new outbreak reported this week (9 linked confirmed cases)
- 2 additional cases were linked to 2 previously reported outbreaks
- The largest outbreak has 65 linked cases, and epi dates range from the 4<sup>th</sup> March to 6<sup>th</sup> April
- Overall, 12 cases linked to outbreaks in this sector have an epi date within the last 14 days; and 2 within the last 7 days



\*An outbreak is classified as “Open” when the most recent case(s) linked to the outbreak occurred within the last 28 days.

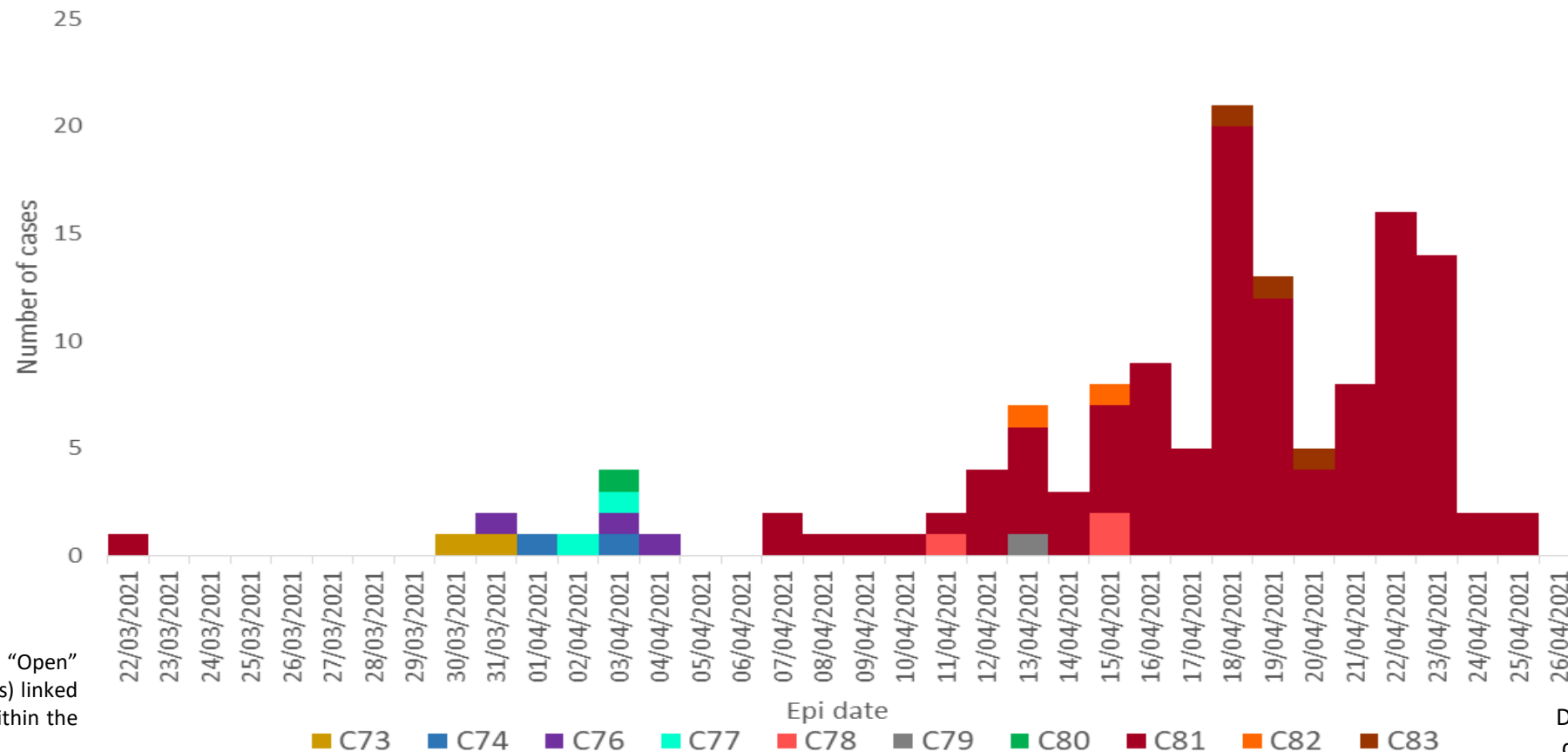
■ F122 
 ■ F126 
 ■ F133 
 ■ F134 
 ■ F135 
 ■ F137 
 ■ F138 
 ■ F139 
 ■ F140 
 ■ F142 
 ■ F143 
 ■ F144 
 ■ F146

Data source: CIDR April 27<sup>th</sup> 2021 – data to midnight April 24<sup>th</sup> 2021

# Workplace outbreaks – Construction: Open\* outbreaks up to April 24<sup>th</sup> 2021



- 135 cases are associated with **10 open** outbreaks in businesses associated with the construction/building sector (range: 1-116 linked confirmed cases)
- Four new outbreaks, involving a total of 124 linked cases, were notified since last week (range: 2-116 linked cases)
- The largest outbreak, involving 116 linked confirmed cases, has epi dates ranging from 22<sup>nd</sup> March to 25<sup>th</sup> April
- 106 cases linked to outbreaks in this sector have epi dates within the last 14 days



Data source: CIDR April 27<sup>th</sup> 2021 – data to midnight April 24<sup>th</sup> 2021

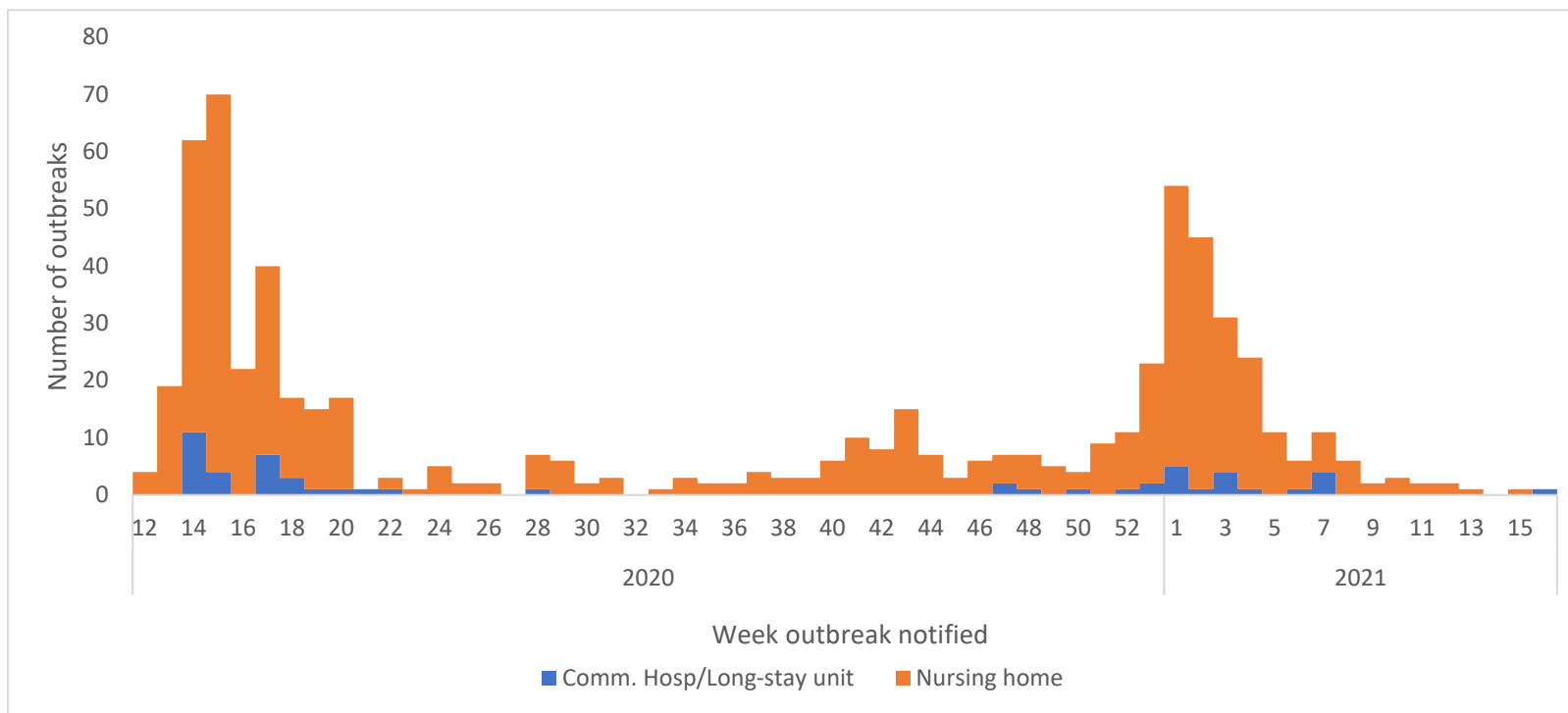
# Nursing Homes and Community Hospital/Long Stay Units: to midnight April 24<sup>th</sup> 2021



Outbreaks Location	Outbreak	Linked confirmed cases				
	Number of outbreaks	Number of cases	Number hospitalised	Number admitted to ICU	Number hospitalised and died	Number who died
Comm. Hosp/Long-stay unit	54	1111	126	1	30	109
Nursing home	583	14782	983	24	376	1879
<b>Total</b>	<b>637</b>	<b>15893</b>	<b>1109</b>	<b>25</b>	<b>406</b>	<b>1988</b>

## March 1<sup>st</sup> 2020 – April 24<sup>th</sup> 2021

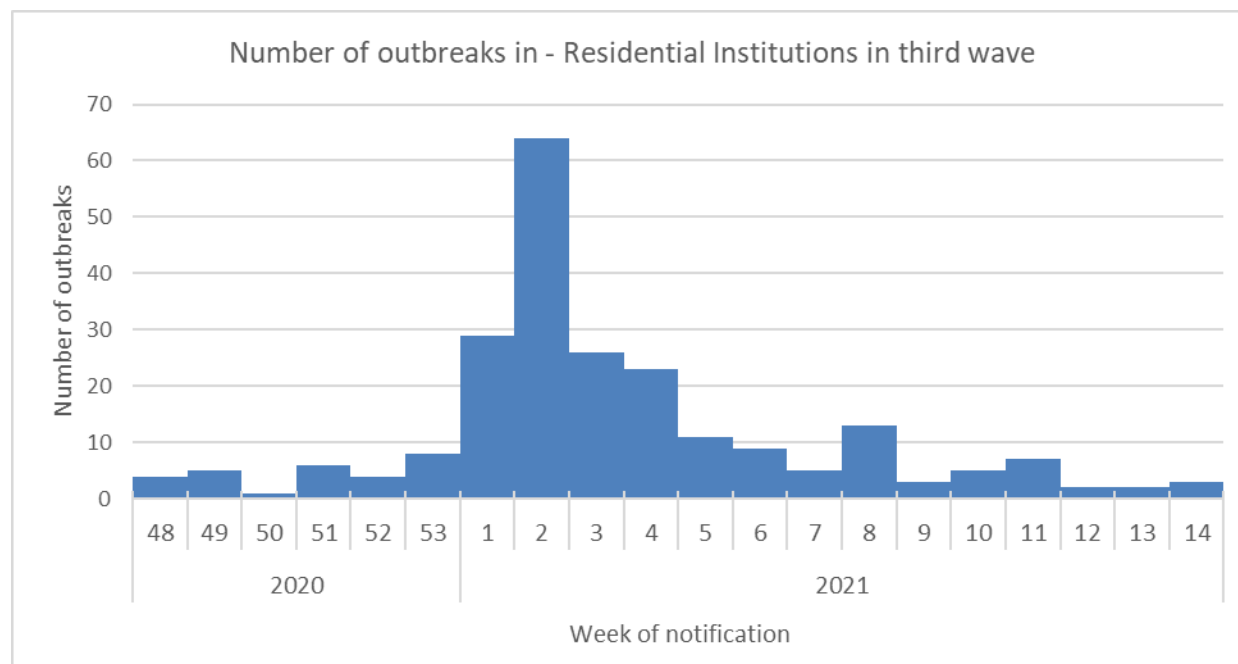
- 637 outbreaks in Nursing Homes and Community Hospital/Long Stay Units
- No new Nursing Home and one new Community Hospital/Long-stay Unit outbreak notified in week 16 2021, with 13 linked cases.



Data source: CIDR April 26<sup>h</sup> 2021 – data to midnight April 24<sup>h</sup> 2021

# Residential Institution outbreaks 1<sup>st</sup> March 2020 to midnight 24<sup>th</sup> April 2021 (n=454)

	All outbreaks		Open outbreaks				
	Total number of outbreaks	Total number of linked confirmed cases	Total number of open outbreaks	Total number of linked confirmed cases	Total number hospitalised	Total number ICU	Total number Died
<b>Residential Facilities - Total</b>	<b>454</b>	<b>3186</b>	<b>10</b>	<b>44</b>	<b>2</b>	<b>0</b>	<b>0</b>
Centre for disabilities	325	2202	5	29	2		
Centre for older people	28	357					
Children's / TUSLA residential centre	33	114	1	1			
Mental health facility	44	296	2	5			
Women/ children's refuge	1	8					
Other	22	206	2	9			
Not Specified	1	3					

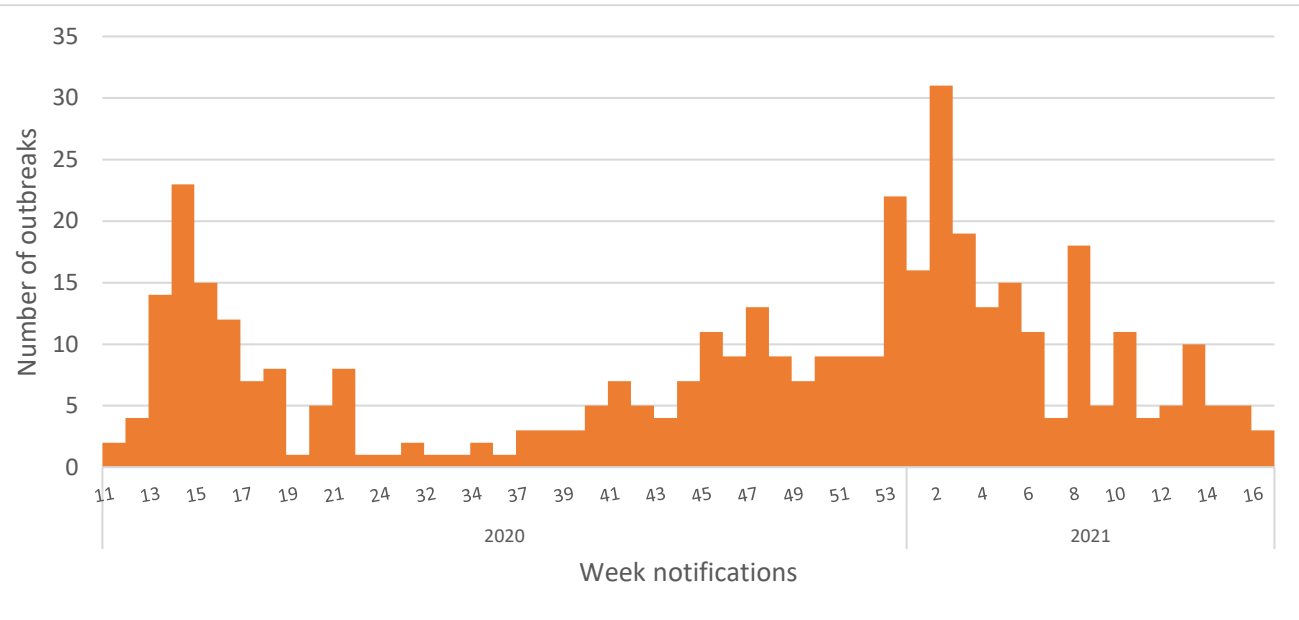


## Overview

- 454 outbreaks in residential institutions with 3,186 linked confirmed cases
- 10 outbreaks remain open, 44 linked confirmed cases
  - Range in number of cases 1 to 19; median 3
  - 5 of 'open' outbreaks in centres for disabilities
- 3 outbreaks since last week's report with 39 linked cases.
  - 3 outbreaks with location re-categorised to 'Nursing Home' since last report with 121 linked cases

Data source: CIDR April 27<sup>th</sup> 2021 – data to midnight April 24<sup>th</sup> 2021

# Acute Hospital outbreaks March 1<sup>st</sup> 2020 to midnight April 24<sup>th</sup> 2021 (n=418)



## Overview

- 418 outbreaks in acute hospitals
- 22 ‘open’ acute hospital outbreaks
- 292 confirmed cases linked to the open outbreaks (range 2-144)
- The 22 open outbreaks correspond to outbreaks in 14 Acute Hospitals

## Update

- Three new outbreaks in week 16 2021
- 17 confirmed cases linked to these outbreaks (range 2-11)
- A total of 44 additional cases were linked to eight previously reported open hospital outbreaks
- Seven outbreaks were closed since last week

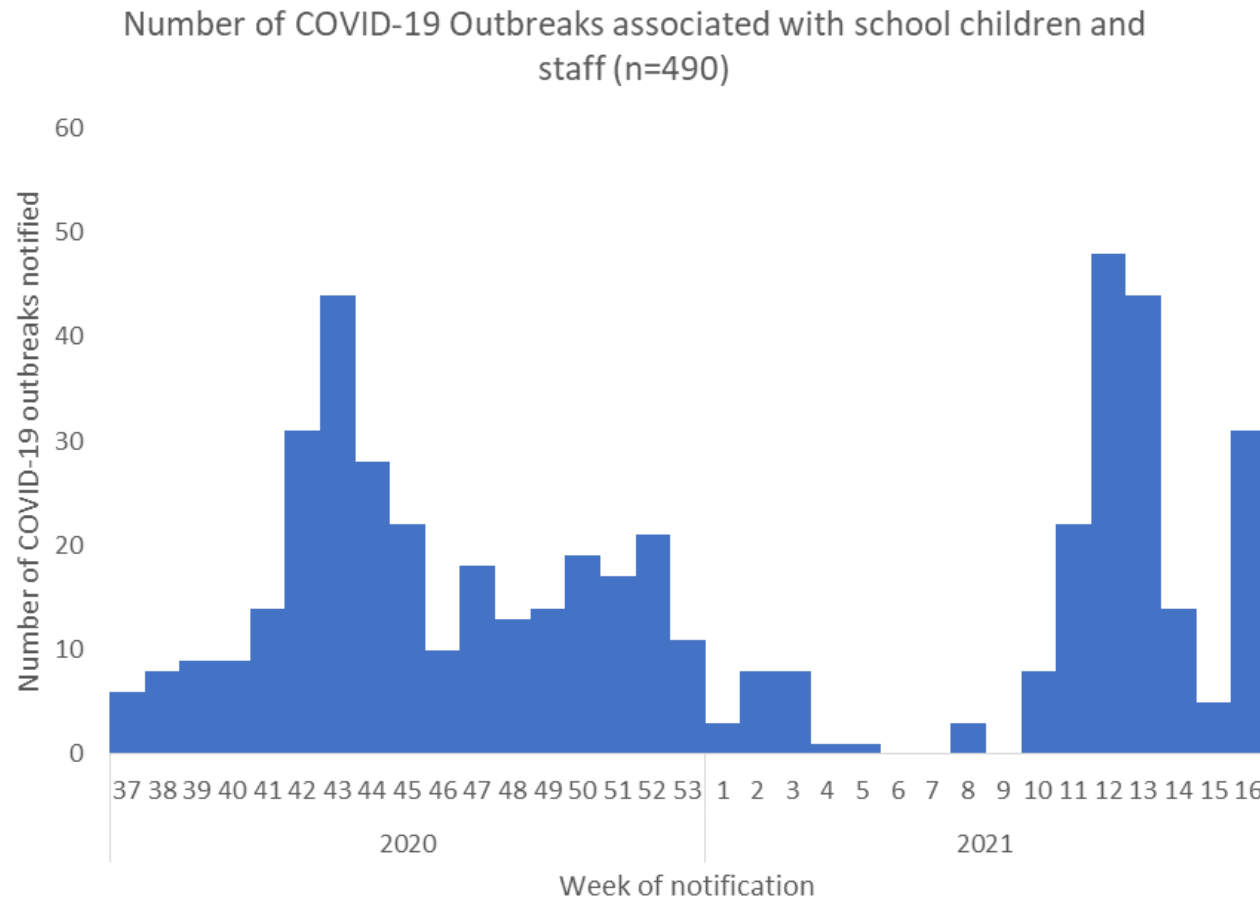
\*

Outbreak status	Number of outbreaks	Confirmed linked cases	Number admitted to ICU	Number Died	Number HCWs
All	418	5642	144	730	2424
Open	22	292	11	49	44

Data source: CIDR April 26<sup>th</sup> 2021 – data to midnight April 24<sup>th</sup> 2021



# Outbreaks associated with school children and staff to midnight 24<sup>th</sup> April 2021 (n=490)



## Overview

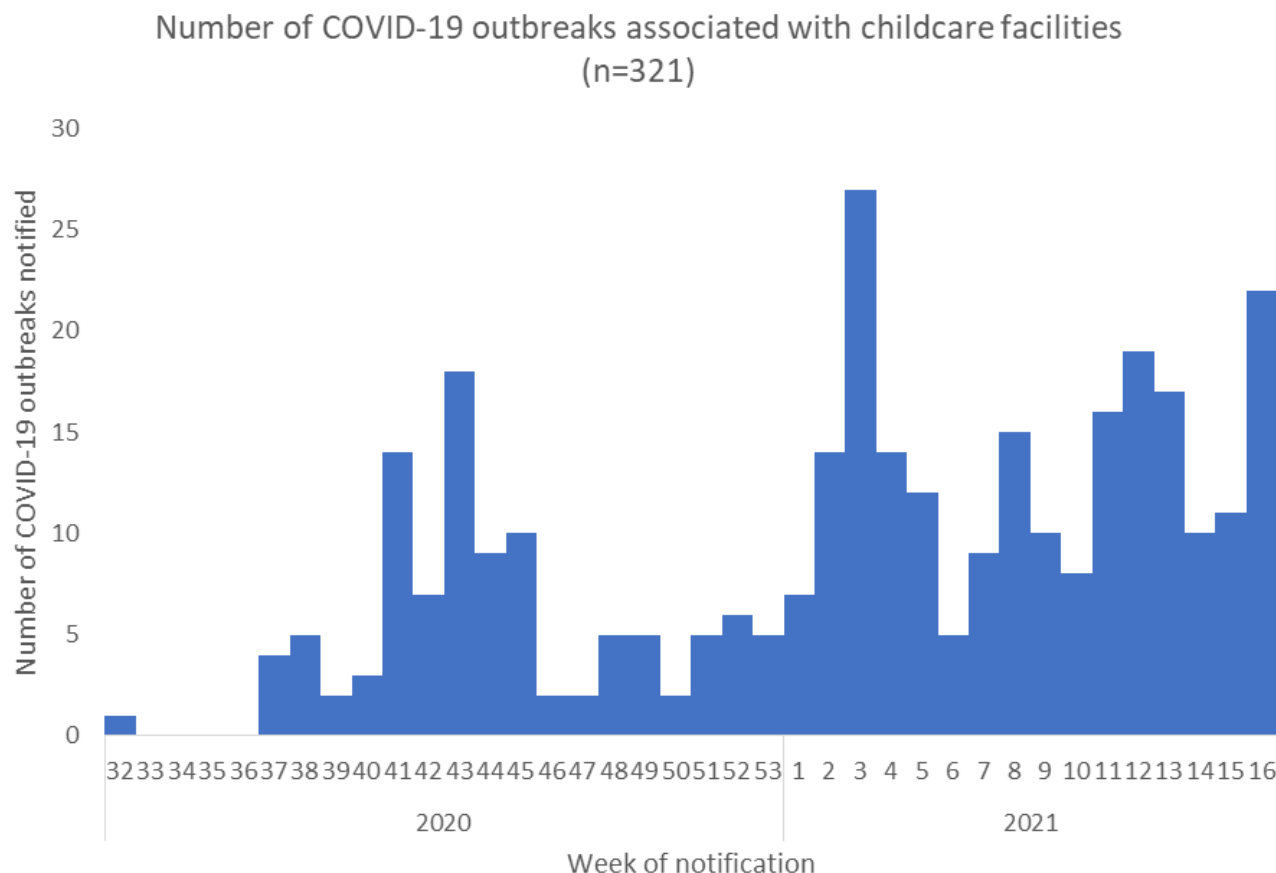
- 490 outbreaks associated with school children and staff notified
- 2,066 linked confirmed cases in total
- 440 outbreaks have  $\geq 2$  linked cases (range: 2-54 cases)
- 350 outbreaks have been closed; 140 remain open

## Update

- 31 new school outbreaks were reported since last week
- 110 cases linked to these newly reported outbreaks (range: 0-16 linked cases)
- 3 additional cases were linked to 2 previously reported outbreaks
- 14 outbreaks were closed since last week

Data source: CIDR April 26<sup>th</sup> 2021 – data to midnight April 24<sup>th</sup> 2021

# Outbreaks associated with childcare facilities to midnight 24<sup>th</sup> April 2021 (n=321)



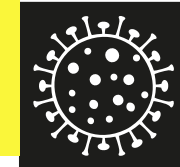
## Overview

- 321 outbreaks associated with children and staff in childcare facilities notified
- 1,824 linked events in total
- 302 outbreaks have  $\geq 2$  linked confirmed cases (range 2-49)
- 256 outbreaks have been closed; 65 remain open

## Update

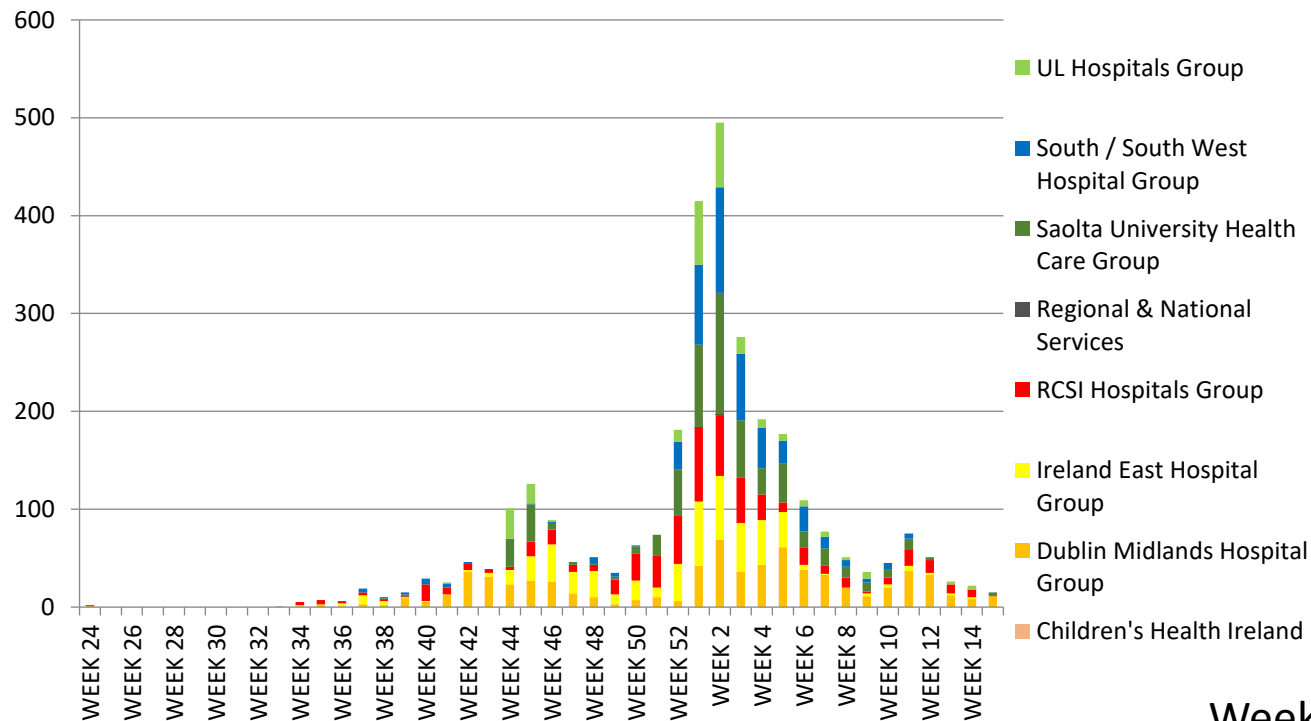
- 22 new outbreaks reported since last week
- 71 confirmed cases linked to these outbreaks (range 0-8)
- 24 additional cases were linked to 6 previously reported childcare facility outbreaks
- 26 outbreaks were closed since last week

Data source: CIDR April 26<sup>th</sup> 2021 – data to midnight April 24<sup>th</sup> 2021

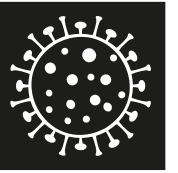


## Acute Hospital

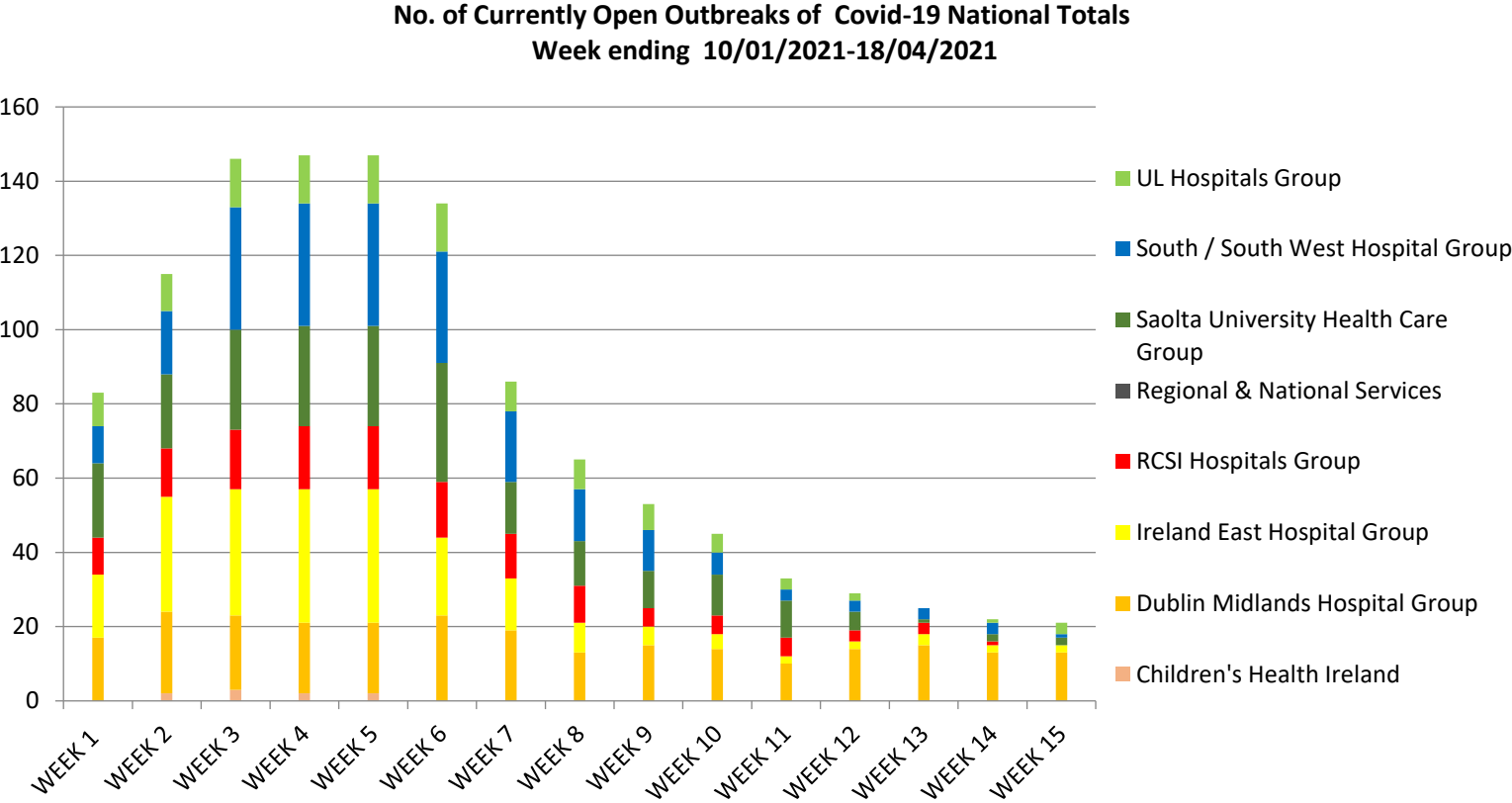
Weekly no. of Hospital-Acquired Covid-19 National Totals  
21st June 2020-18th April 2021

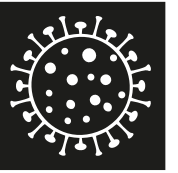


Week ending April 18  
15 cases of hospital acquired  
COVID-19

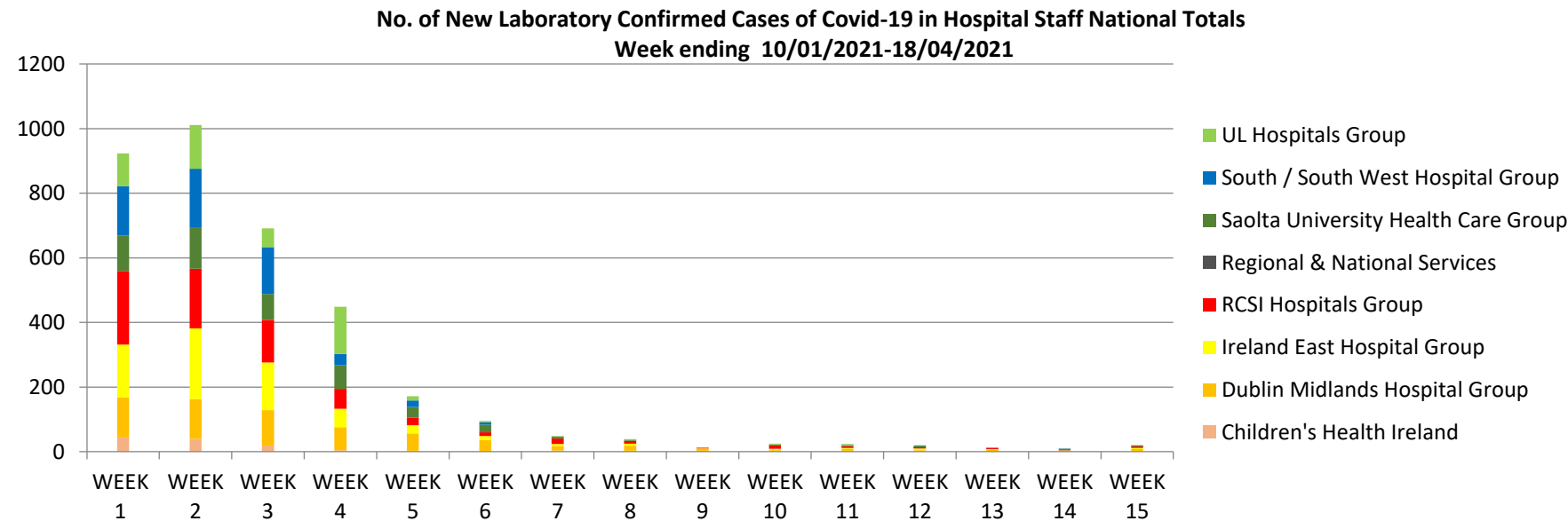


# Acute Hospital

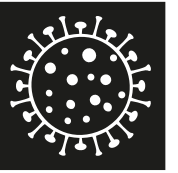




# Acute Hospital

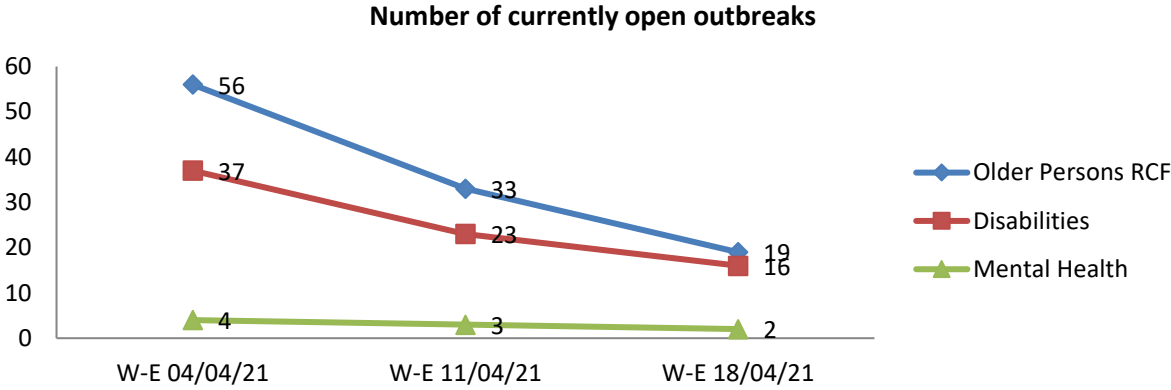


Week ending April 18  
21 cases in acute hospital staff



Community Operations

Number of currently open outbreaks in Residential Care Facilities



## Testing/sampling and contact tracing NPHE update



### ***Sampling***

Over the seven-day period, 20<sup>th</sup> April – 26<sup>th</sup> April, there has been approximately 128,261 swabs taken for COVID-19 testing.

Of total swabs:

- 51,779 (40%) of these were taken in the community (including walk-in)
- 12,248 (10%) of these were taken by the National Ambulance Service
- 43,671 (34%) swabs were taken in acute and private acute settings.
- 20,563 (16%) swabs taken were taken as part of the Serial Testing programmes of staff in residential care facilities including mental health facilities and disability facilities meeting the agreed criteria, as well as staff in food production facilities.

## Turnaround Times (20<sup>th</sup>-26<sup>th</sup> April )

### ***End-to-end turnaround time***

- The median end-to-end turnaround time, from referral to SMS, for **not detected** tests in the community setting was **1.2 days**.
- The median turnaround time, from referral to communication of a **detected result** by call, in community settings was **1.8 days**.
- The median end-to-end turnaround time, from referral to the end of contact tracing, for **detected cases** in the community setting was **1.9 days**.



***Overall Swab to laboratory result communicated – Medians:*** 24 hours in Acute, 25 hours in Serial Testing, 26 hours in Community

**Overall, 46% of people get their result in less than 24 hours, 89% in less than 36 hours and 97% in less than 48 hours.**

### ***Referral to appointment***

In the community, the median time from referral to appointment was 0.2 days.

94.8% of community referrals are provided with a COVID-19 test appointment within 24 hours.

### ***Contact Tracing:***

The mean time and median time to complete all calls are 7.2 hours and 5.1 hours, respectively.

### **Education and Childcare Facility turnaround times**

The median turnaround time from swab taken to result communicated in education and childcare settings was **1 day**



## *Education and Childcare Testing Programme*



COVID-19 testing has re-started in schools and is ongoing in special education and childcare facilities. In the last week (18<sup>th</sup>-24<sup>th</sup> April 2021):

- 2,795 tests were completed in 109 primary schools resulting in a **2.4% positivity rate**.
- 1,810 tests were completed in 70 post-primary schools resulting in a **2.5% positivity rate**.
- 34 tests were completed in 4 Special Education settings resulting in an **8.8% positivity rate**
- 1,179 tests were completed in 61 childcare facilities resulting in a **4.4% positivity rate**

## CMP close contact update (19<sup>th</sup> – 25<sup>th</sup> April)



- The number of close contacts reported during the week ending 25<sup>th</sup> April was 13,254, a 57% increase on the previous week (8,423).
- In total, 98% of these close contacts have been contacted.
- The mean number of close contacts per case (incl. cases with no close contacts) increased from 2.3 in the week ending 18<sup>th</sup> April, to 2.6.
- The number of complex contact episodes identified during the week ending 25<sup>th</sup> April was 1,670, a 32% increase from the week ending 18<sup>th</sup> April (1,262).

Source: HSE – COVID-19 Contact Management  
Programme Weekly report



## Close Contact Attendance and Positivity Rates at Test 1 – 12<sup>th</sup> – 18<sup>th</sup> April

- Of the close contacts created between 12<sup>th</sup>-18<sup>th</sup> April, 5,487 (87%) of those who were referred for a Test 1 appointment attended for testing.
- Results were available at the time of report preparation for 5,415 close contacts, 14.6% (788) of whom were positive.
- Household close contact positivity rate at 31.0%

Source: HSE – COVID-19 Contact Management Programme Weekly report

*Table 1.12 – SARS-CoV2 Test 1 Results by Circumstances of Contact – Contacts Created 12/04/2021 to 18/04/2021*

<i>Circumstances of Contact</i>	<i>Number of Results Reported</i>	<i>Positive Results</i>	<i>Positivity Rate</i>
<i>Household</i>	1719	533	31.0%
<i>Social</i>	784	98	12.5%
<i>Childcare Facilities</i>	589	33	5.6%
<i>Primary School</i>	922	13	1.4%
<i>Secondary School</i>	386	<5	*
<i>Third Level Education</i>	7	<5	*
<i>Workplace</i>	214	20	9.3%
<i>Transport</i>	184	14	7.6%
<i>Healthcare Setting: Patient**</i>	25	<5	*
<i>Healthcare Setting: Staff**</i>	20	<5	*
<i>Sport</i>	56	<5	*
<i>Other</i>	63	6	9.5%
<i>Not Recorded</i>	446	59	13.2%
<b><i>Total</i></b>	<b>5415</b>	<b>788</b>	<b>14.6%</b>

*\* Unstable positivity rate due to small numbers.*

*\*\* The majority of patients and staff who are close contacts in a healthcare setting are managed by Infection Prevention and Control and Occupational Health teams off the CCT.*



## Close Contact Attendance and Positivity Rates at Test 2 – 5<sup>th</sup>-11<sup>th</sup> April

- Of the close contacts created between 5<sup>th</sup>-11<sup>h</sup> April, 2,127 (85%) of those who were referred for a Test 2 appointment attended for testing.
- Results were available at the time of report preparation for 1,972 close contacts, 133 (6.7%) of whom were positive.
- Household close contact positivity rate at 11.5%

*Table 1.15 – SARS-CoV2 Test 2 Results by Circumstances of Contact – Contacts Created 05/04/2021 to 12/04/2021*

<i>Circumstances of Contact</i>	<i>Number of Results Reported</i>	<i>Positive Results</i>	<i>Positivity Rate</i>
<i>Household</i>	783	90	11.5%
<i>Social</i>	584	21	3.6%
<i>Childcare Facilities</i>	123	<5	*
<i>Workplace</i>	109	<5	*
<i>Transport</i>	7	<5	*
<i>Healthcare Setting: Patient**</i>	7	<5	*
<i>Healthcare Setting: Staff**</i>	<5	<5	*
<i>Sport</i>	22	<5	*
<i>Other</i>	<5	<5	*
<i>Not Recorded</i>	331	17	5.1%
<b>Total</b>	<b>1972</b>	<b>133</b>	<b>6.7%</b>

*\* Unstable positivity rate due to small numbers.*

*\*\* The majority of patients and staff who are close contacts in a healthcare setting are managed by Infection Prevention and Control and Occupational Health teams off the CCT.*

Source: HSE – COVID-19 Contact Management Programme Weekly report

# Variants update



## **Total confirmed variants of concern cases (new in the last week):**

- P1 (first identified in Brazil): 27 (3)
- B.1.351 (first identified in South Africa): 71 (16)

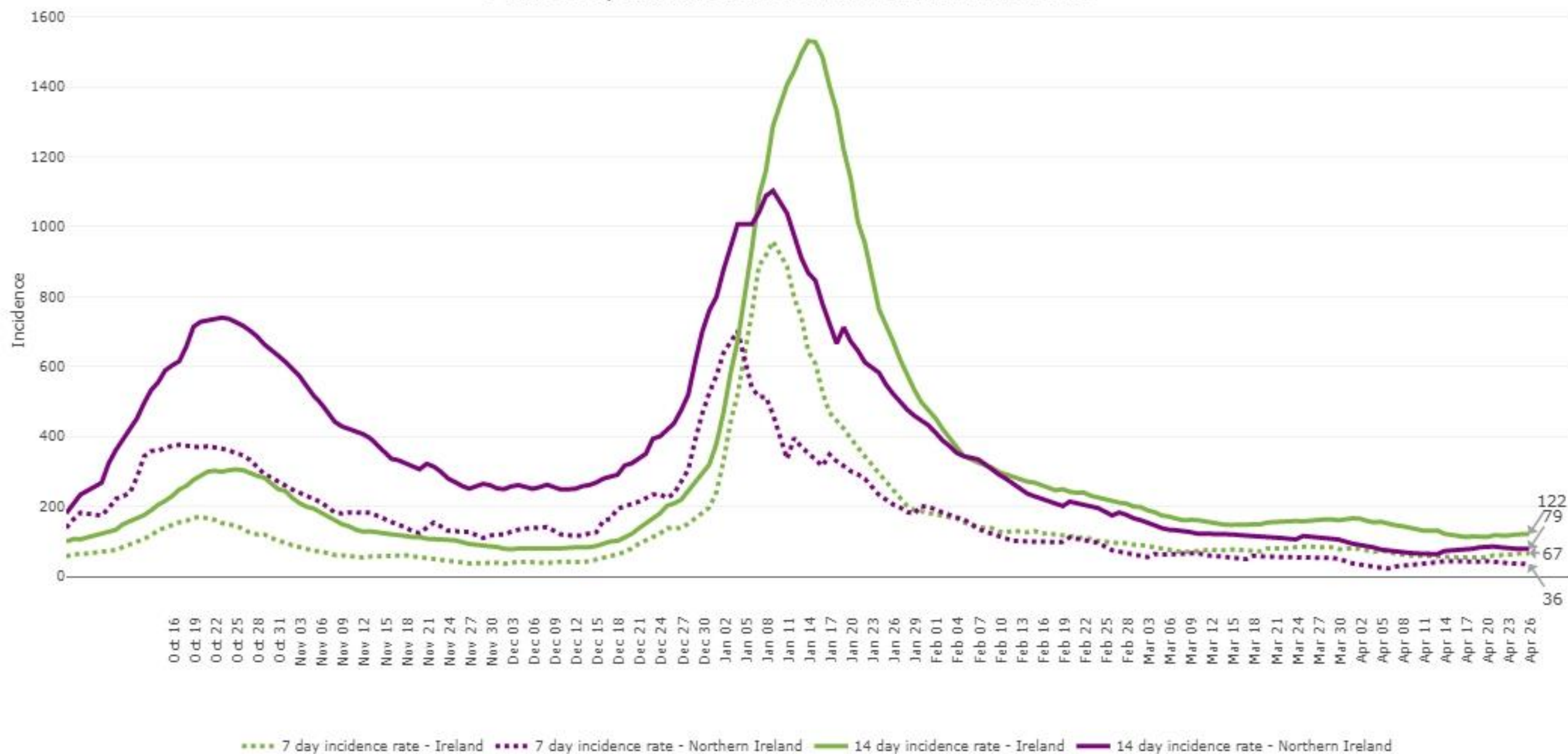
## **Total of other confirmed variants of note cases (new in the last week):**

- B.1.525 (first identified in Nigeria and other countries): 20 (3)
- B.1.526 (first identified in New York): 6 (0)
- P.2 (first identified in Brazil): 15 (0)
- B.1.1.7 with E484K mutation: 2 (0)
- B.1.429 (first identified in California): 2 (1)
- B.1.617 (first identified in India): 8 (5)\*

\*1 case still under laboratory investigation

*(Based on NVRL and Eurofins-Biomnis results up to 27<sup>th</sup> April 2021)*

7 and 14 day Incidence rates for Ireland and Northern Ireland

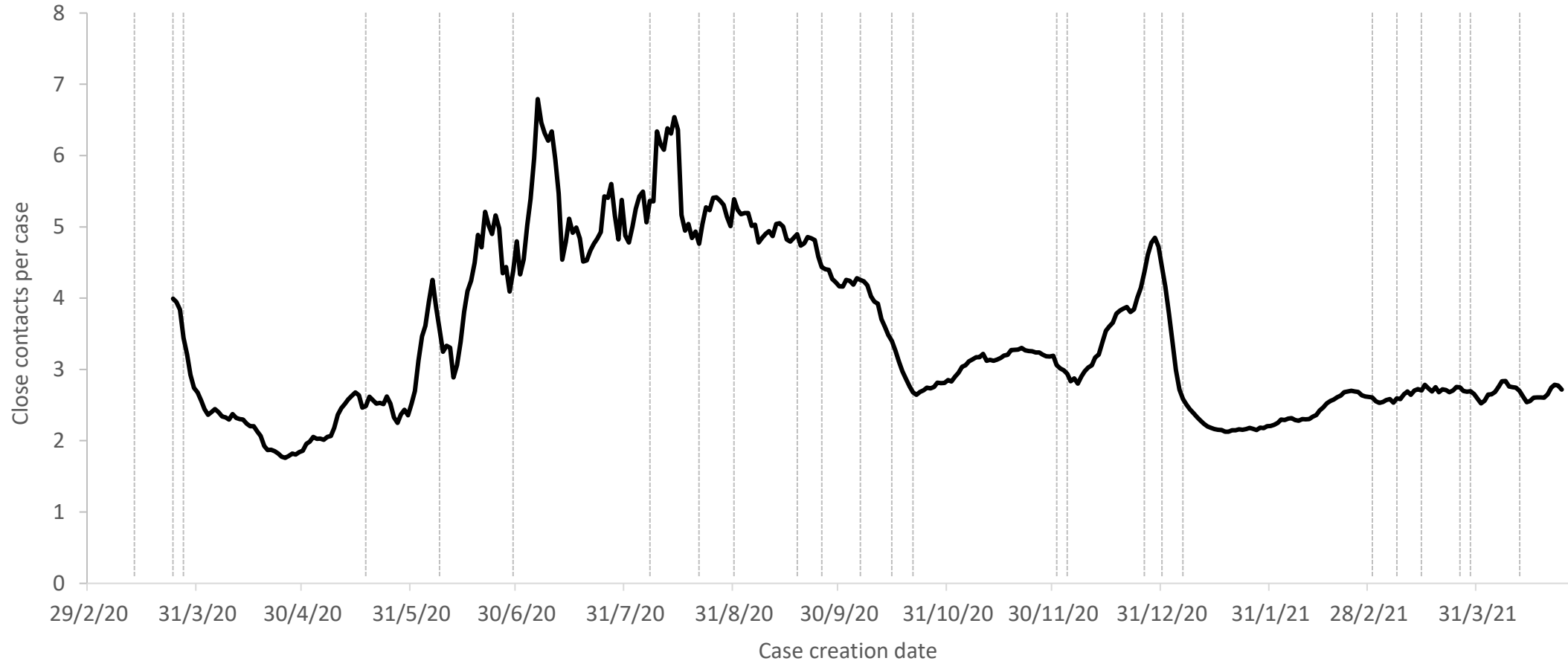


Note – calculated using the 2016 population estimates for both ROI and NI.

Source: HPSC CIDR Extract 270421 and health-ni.gov.uk daily data 27/04/21.

# Close contacts of adult confirmed cases

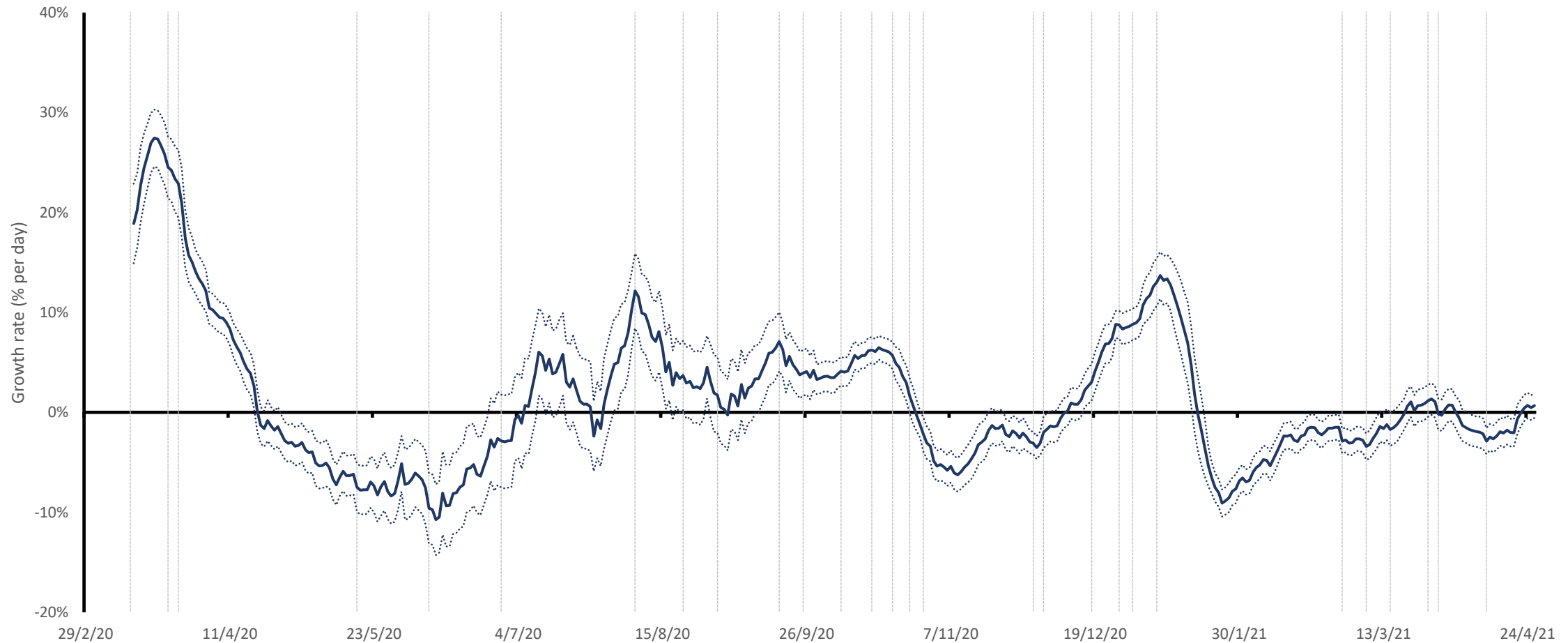
The mean number of close contacts per confirmed case. The number of contacts was very low (2 or less) during April, but increased to 5-6 per case during the summer. The public health measures during October were associated with a progressive reduction in close contacts, to below 3. The number of close contacts remained below 3.3 on average until early December, rose to almost 5 on average by 28 December and fell to 2.1 in January. It has increased to  $\approx 2.6$  in the latter half of February 2021, and remains stable at that level



The average number of close contacts per confirmed case. Data from COVID-19 Care Tracker (CCT). Cases dated by case creation date. Cases (but not contacts) aged 18 and younger are excluded. Data are 7-day trailing averages except for the months of June – August where a 21-day trailing average is used due to very low case counts.

# Growth rate for case numbers

Growth rate peaked at 13% per day over the 21-day period up to 10 January 2021. While case numbers decreased very rapidly in January (-6 to -10% per day) the rate of decline slowed to -2 to -4% per day from mid-February. Infections were static or grew slowly (growth rate 0% to +2% per day) for the latter half of March, and declined again in early April. . Case numbers have been growing again: the growthrate is currently estimated at 0% to 2% per day.

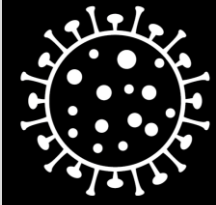


Growth rate calculated as the average growth rate over a 21-day trailing window, with 95% confidence interval; cases dated by notification (event) date.



# Week-on-week case counts

Case count last week was significantly higher than the preceding week



Coronavirus  
**COVID-19**  
Public Health  
Advice

Week	Cases	Week-on week change
2021 - 1	45,616	
2	25,113	-45 %
3	14,807	-41 %
4	8,921	-40 %
5	7,143	-20 %
6	6,027	-16 %
7	5,525	-8 %
8	4,547	-18 %
9	3,629	-20%
10	3,535	-3%
11	3,838	+9%
12	3,981	+4%
13	3,615	-9%
14	2,798	-22%
15	2,591	-7%
16	3,125	+21%



Rialtas na hÉireann  
Government of Ireland

# Situation analysis 28 April 2021



- Incidence is stable or deteriorating, with significant variability and uncertainty
  - Cases (5-day average) 437 cases per day; 14-day incidence 122 per 100,000
  - Test positivity low with increasing referral, especially in 13-18 year olds
  - Reproduction number (R) is estimated at 1.0 – 1.2, growth rate 0 to +2% per day
- Deaths and numbers in hospital continue to decrease, numbers in ICU static or decreasing slowly
- Significant impact of vaccination in those who have been vaccinated
- Significant increase in mobility, presence in the workplace, and a decrease in time spent at home; now at levels seen in early September 2020
- The number of close contacts per confirmed case is relatively stable, though CMP reporting a recent increase in contacts
- A broadly positive outlook, but we remain vulnerable in the coming weeks as the wider population is not yet protected by vaccination
  - The situation remains volatile and any increase in close contact represents a risk
  - we need to keep close contacts low, and minimize the risk of transmission during any close contact

## EU/UK ranked by 14 day incidence (26<sup>th</sup> April)

EU and the UK	14 day incidence	Previous 14 day incidence	% change in 14 day incidence
Cyprus	1247.5	804.0	55%
Sweden	801.5	766.2	5%
Croatia	733.2	619.1	18%
Netherlands	649.3	599.2	8%
France	641.2	752.6	-15%
Lithuania	554.3	456.2	22%
Slovenia	501.8	664.8	-25%
Hungary	478.4	870.7	-45%
Poland	464.2	842.0	-45%
Estonia	447.4	771.1	-42%
Belgium	421.6	468.5	-10%
Latvia	409.2	350.5	17%
Luxembourg	398.4	448.4	-11%
Czechia	364.4	601.5	-39%
Greece	358.3	396.5	-10%
Austria	350.8	437.6	-20%
Bulgaria	347.5	602.5	-42%
Germany	343.8	274.1	25%
Italy	316.8	388.1	-18%
Spain	252.8	212.7	19%
Romania	202.9	353.7	-43%
Denmark	173.0	166.0	4%
Slovakia	162.0	239.1	-32%
Malta	119.6	163.8	-27%
<b>Ireland</b>	<b>116.2</b>	<b>126.6</b>	<b>-8%</b>
Portugal	67.4	69.1	-3%
Finland	66.0	105.6	-37%
United Kingdom	50.5	53.8	-6%

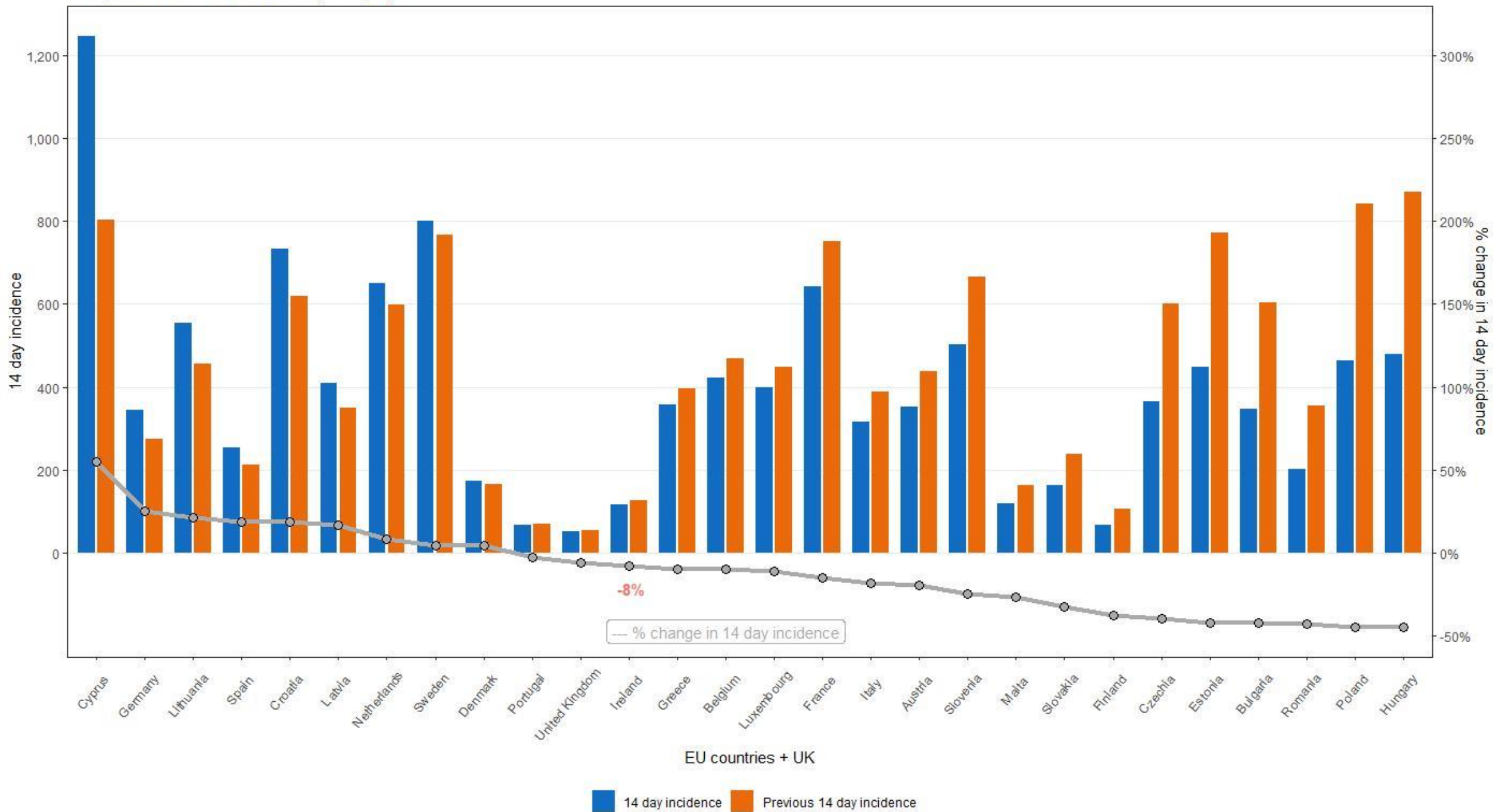
- As of 16<sup>th</sup> Dec, this daily data is now sourced from Our World In Data (OWID) instead of ECDC as they have switched to weekly reporting (Thursday evenings).
- OWID source their confirmed cases and deaths data from the COVID-19 Data Repository by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins University (JHU). <https://github.com/owid/covid-19-data/tree/master/public/data>

## EU/UK ranked by 14 day percentage change (26<sup>th</sup> April)

EU and the UK	14 day incidence	Previous 14 day incidence	% change in 14 day incidence
Cyprus	1247.5	804.0	55%
Germany	343.8	274.1	25%
Lithuania	554.3	456.2	22%
Spain	252.8	212.7	19%
Croatia	733.2	619.1	18%
Latvia	409.2	350.5	17%
Netherlands	649.3	599.2	8%
Sweden	801.5	766.2	5%
Denmark	173.0	166.0	4%
Portugal	67.4	69.1	-3%
United Kingdom	50.5	53.8	-6%
<b>Ireland</b>	<b>116.2</b>	<b>126.6</b>	<b>-8%</b>
Greece	358.3	396.5	-10%
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Bulgaria	347.5	602.5	-42%
Romania	202.9	353.7	-43%
Poland	464.2	842.0	-45%
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European 14 incidence rates (26 April)

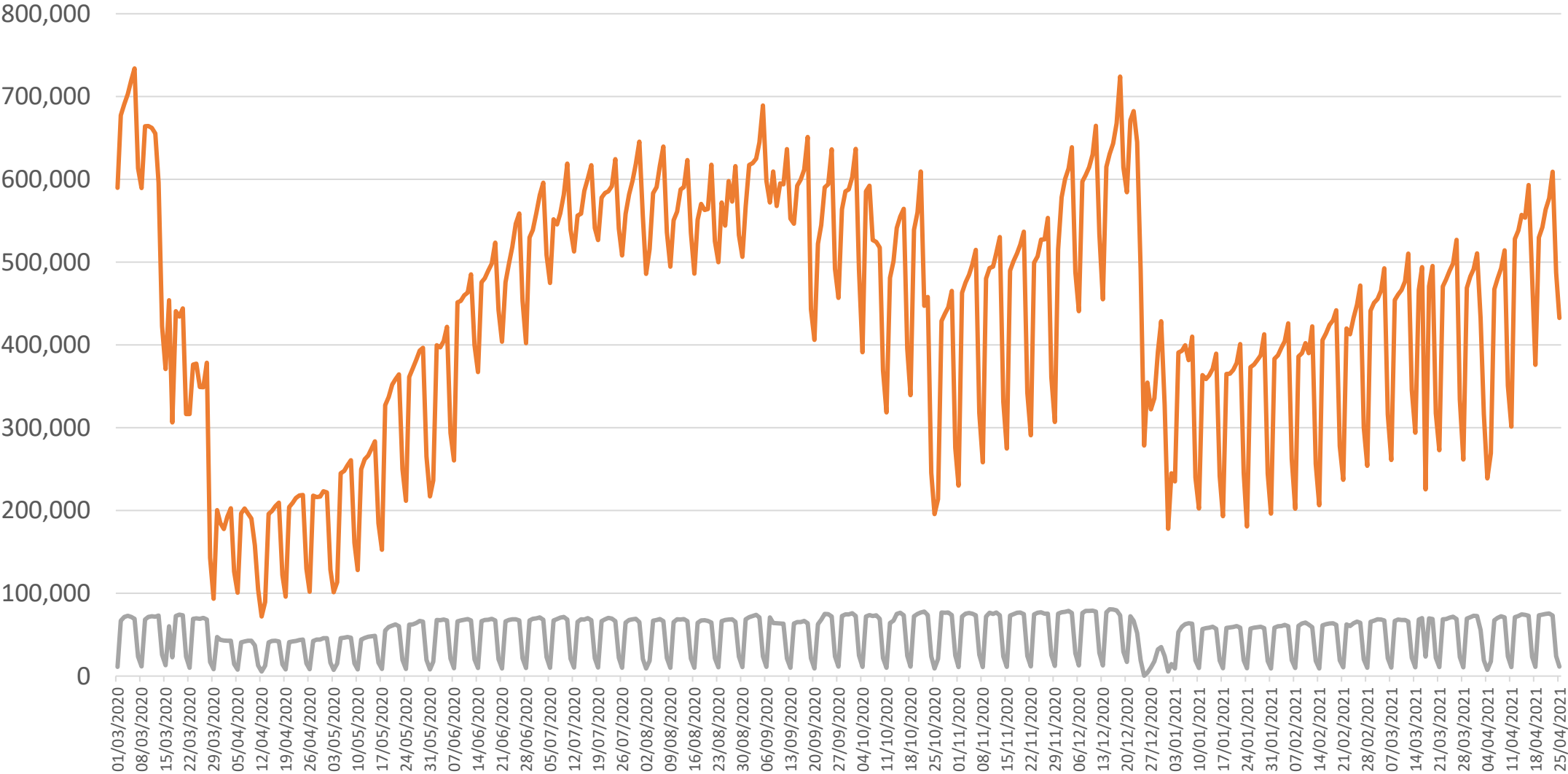


## EU/UK ranked by 7 day percentage change (26<sup>th</sup> April)

EU and the UK	7 day incidence	Previous 7 day incidence	% change in 7 day incidence
<b>Ireland</b>	<b>64.0</b>	<b>52.3</b>	<b>22%</b>
Cyprus	671.2	576.3	16%
Latvia	212.1	197.1	8%
Netherlands	331.7	317.6	4%
Spain	128.6	124.3	3%
Lithuania	280.7	273.6	3%
Germany	173.7	170.1	2%
Belgium	211.1	210.5	0%
Portugal	33.5	33.9	-1%
Denmark	85.5	87.5	-2%
Luxembourg	196.5	201.9	-3%
Croatia	361.4	371.8	-3%
Italy	152.4	164.4	-7%
United Kingdom	24.2	26.3	-8%
France	305.0	336.2	-9%
Austria	166.6	184.2	-10%
Sweden	378.3	423.2	-11%
Slovenia	236.1	265.8	-11%
Greece	168.4	189.9	-11%
Finland	29.8	36.3	-18%
Czechia	163.4	201.0	-19%
Slovakia	72.2	89.7	-20%
Estonia	195.7	251.7	-22%
Bulgaria	150.3	197.2	-24%
Romania	85.5	117.4	-27%
Hungary	189.1	289.3	-35%
Poland	177.0	287.2	-38%
Malta	36.9	82.7	-55%

- As of 16<sup>th</sup> Dec, this daily data is now sourced from Our World In Data (OWID) instead of ECDC as they have switched to weekly reporting (Thursday evenings).
- OWID source their confirmed cases and deaths data from the COVID-19 Data Repository by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins University (JHU). <https://github.com/owid/covid-19-data/tree/master/public/data>

# Daily Traffic Flow

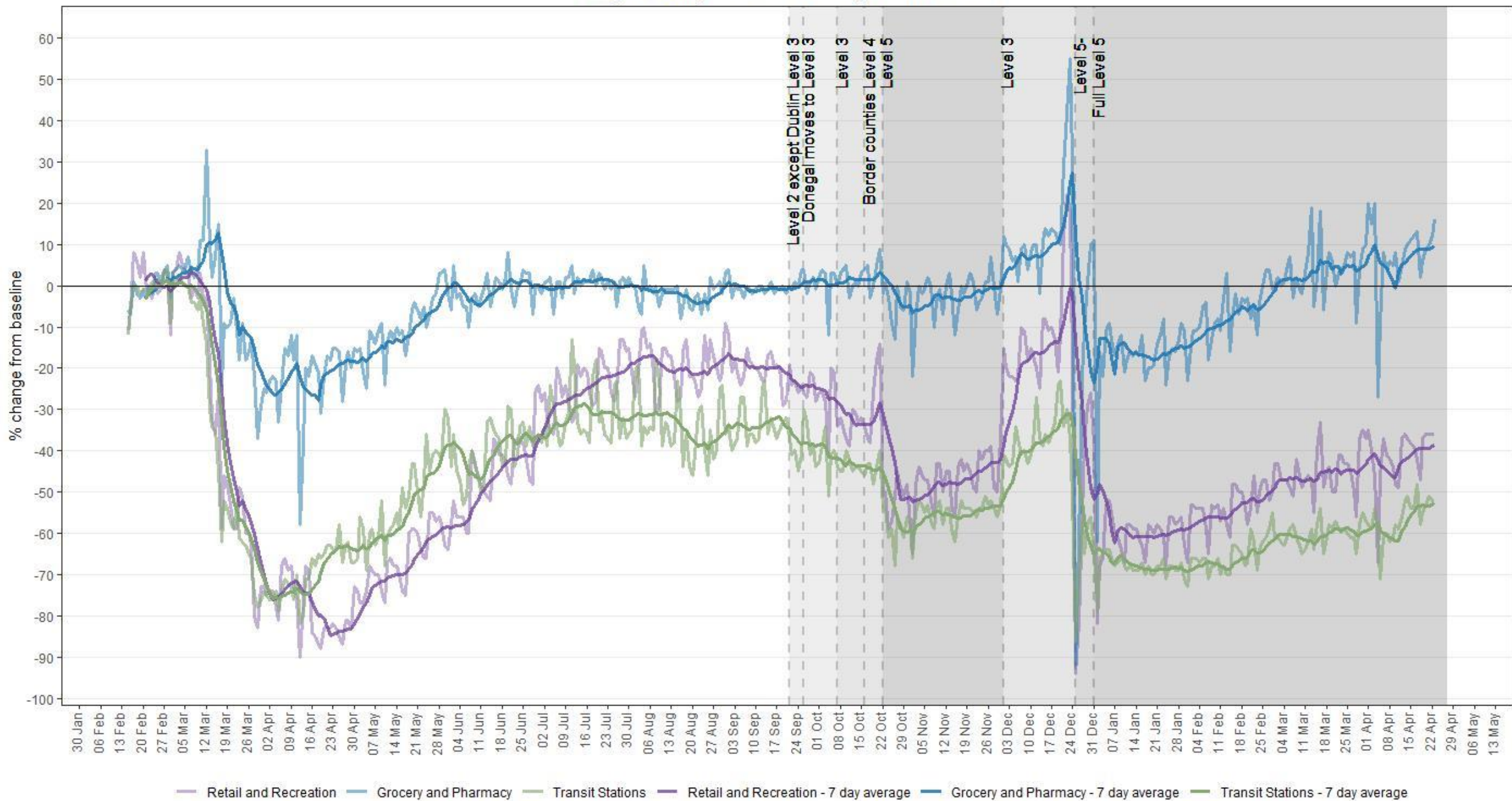


— Car flow at selected points in network

— HGV flow at selected points in network



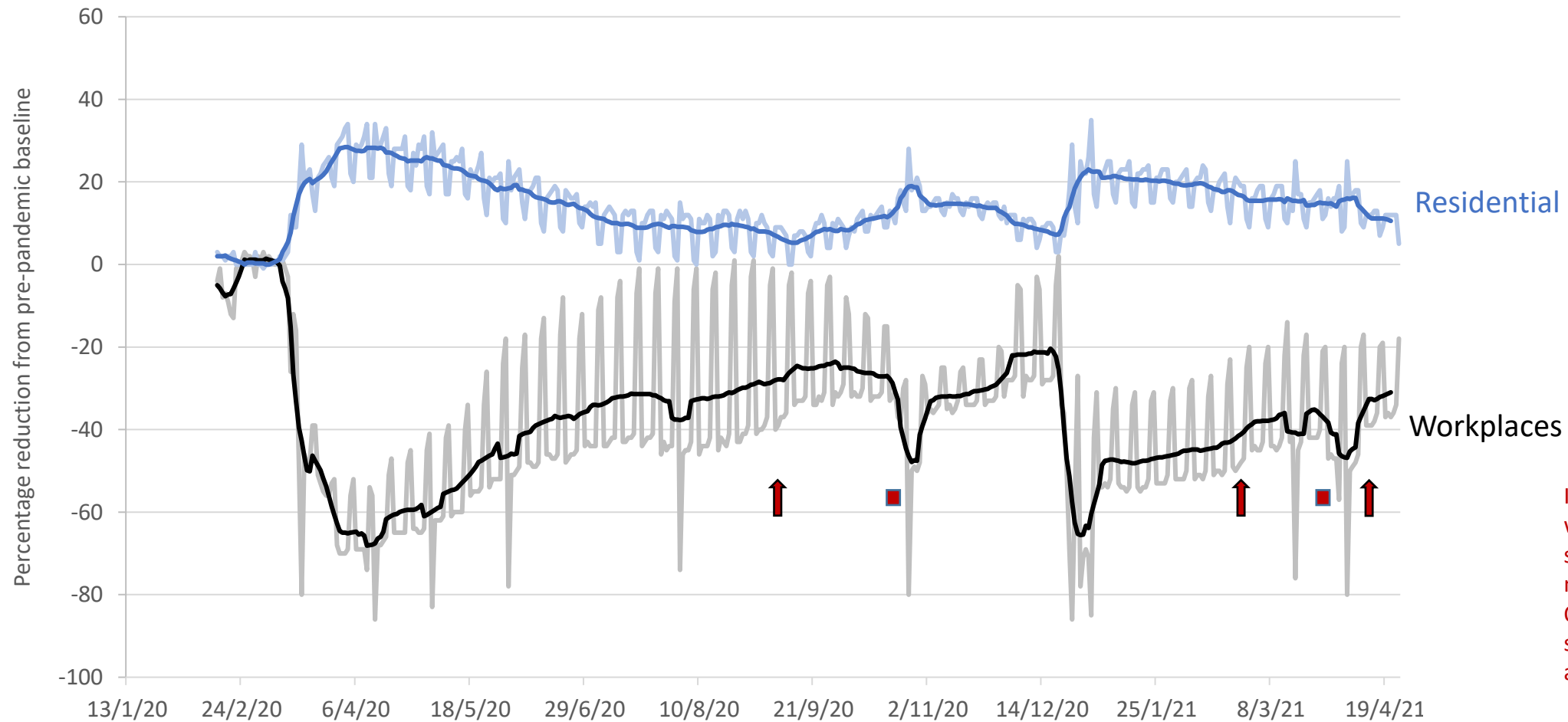
Google Mobility Ireland - % change from baseline





# Google community mobility

There has been a significant increase in attendance at workplaces, and an associated decrease in time spent in the home, since 12 April 2021; these are now at similar levels to that seen in early September 2020. Attendance at workplaces increases when schools are open, and decreases when schools are closed.



Increased attendance at workplaces coincident with school opening (arrows) note also and impact of October 2020 and April 2021 school breaks on workplace attendance (squares)

These data show time spent in residential areas and attendance at workplaces for those who enable location sharing on their Google account; each day of the week is compared with the average for that day of the week over January and February 2020. The attendance at workplaces compared to pre-pandemic baseline *increases* on weekends (people working on weekends less likely to be able to work from home, and decreases to very low levels on bank holidays. Daily data and 7-day moving averages.

Apple Mobility Ireland - % change from baseline

