



An Roinn Sláinte
Department of Health

NPHET COVID Update 28th January 2021

Current situation



	01-Oct	26-Oct (2 nd wave peak 14 day inc.)	01-Dec	07-Jan	11-Jan	15-Jan	19-Jan	23-Jan	27-Jan
14-day incidence	96.12	306.29	86.92	935.12	1376.54	1533.08	1334.06	955.36	674.17
5-day average cases	407.2	920.0	261.0	6136.8	6269.2	3801.4	2755.6	2272.2	1383.0
Total weekly cases	2608	7003	1893	35827	44462	30684	21296	16419	11890

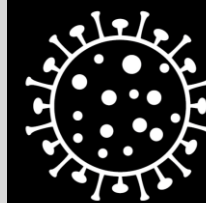
	01-Oct	26-Oct (2 nd wave peak 14 day inc.)	01-Dec	07-Jan	11-Jan	15-Jan	19-Jan	23-Jan	27-Jan
No. Hospital (8.A.M)	122	344	224	1022	1575	1846	1954	1893	1727
No. in ICU (6.30 P.M)	22	40	30	89	128	173	199	218	218

	01-Oct	26-Oct (2 nd wave peak 14 day inc.)	01-Dec	07-Jan	11-Jan	15-Jan	19-Jan	23-Jan	27-Jan
Positivity rate (7 day average)	3.0%	6.1%	2.7%	21.9%	21.0%	15.8%	13.4%	10.8%	8.0%

	September	October	November	December	January
Total Deaths	37	126	164	176	830
Deaths associated with Nursing Home outbreaks	12	51	52	64	282
Deaths associated with Hospital outbreaks	7	25	59	54	87

Cases, numbers in hospital and intensive care

Case numbers remain very high. The number of people in hospital and ICU, and the number of admissions per day, increased very quickly to unprecedented levels. The numbers in hospital are decreasing, and the numbers in ICU have plateaued. The number of deaths per day remains high.



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	16 Apr	29 Jul	21 Oct	16 Dec	23 Dec	31 Dec	6 Jan	13 Jan	20 Jan	27 Jan	Daily count 27 Jan
Cases confirmed per day	547	18	1160	330	711	1243	4420	5436	2891	1699	1335
14-day incidence <i>per 100,000 population</i>	157	5.6	288	88	153	297	818	1449	1223	674	
Hospital in-patients	858	11	279	198	222	365	676	1414	1901	1889	1727
<i>Hospital admissions per day</i>	56	2	23	14	22	43	94	146	132	89	89
ICU confirmed cases	147	5	32	33	29	31	63	133	194	217	215
<i>ICU admissions per day</i>	8	< 1	3	1	2	5	11	20	19	15	13
Deaths confirmed per day	32	< 1	5	5	6	7	11	23	44	50	54

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. NPHET monitors 5-day moving average and 14-day cumulative incidence on a day-by-day basis, as indicators of rate of change of incidence and overall burden of infection. 7-day averages are used here to limit day-of-week effects. The historic incidence data may change due to denotification of cases.



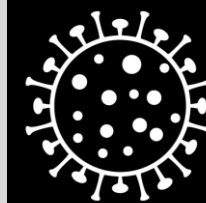
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Cases, Incidence Rates & Testing

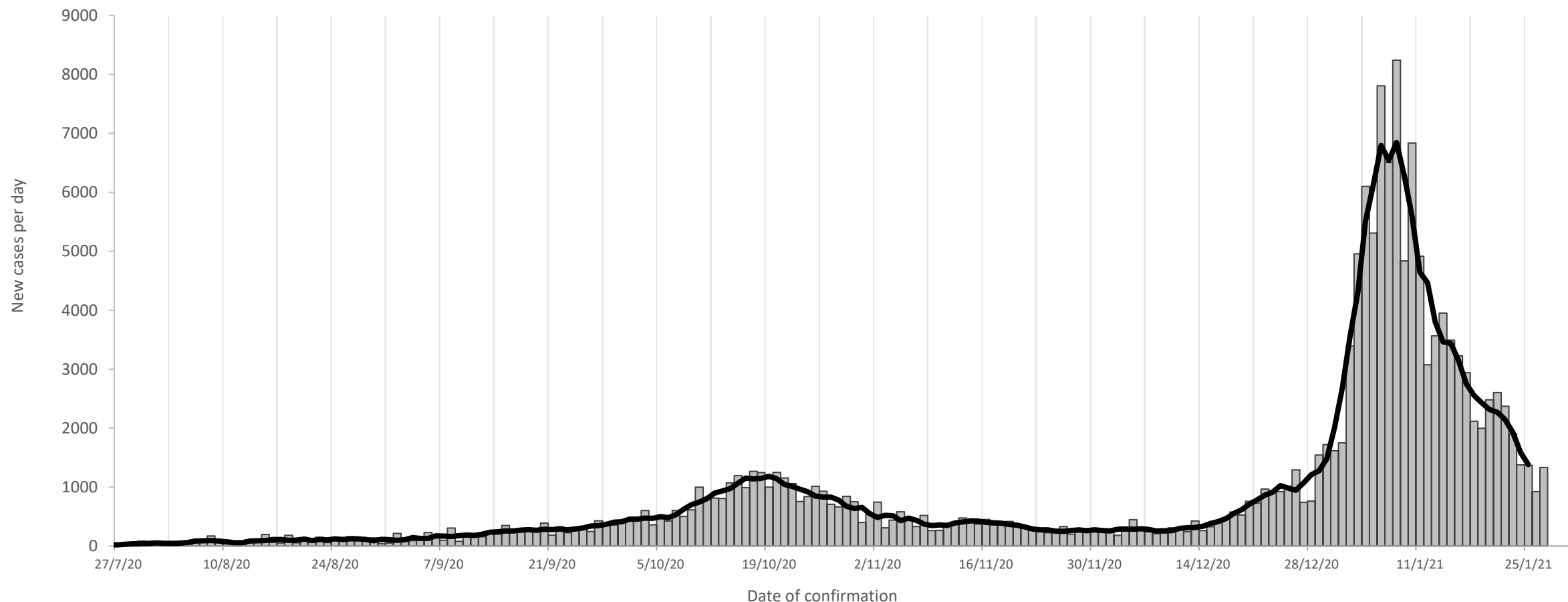
Confirmed cases each day

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 **1252**



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Cases per week	119	284	540	546	711	796	912	1303	1947	2060	3031	4457	7398	7073	4838	3424	2583	2580	1798	2028	1965	3369	6608	15748	45648	25176	14855
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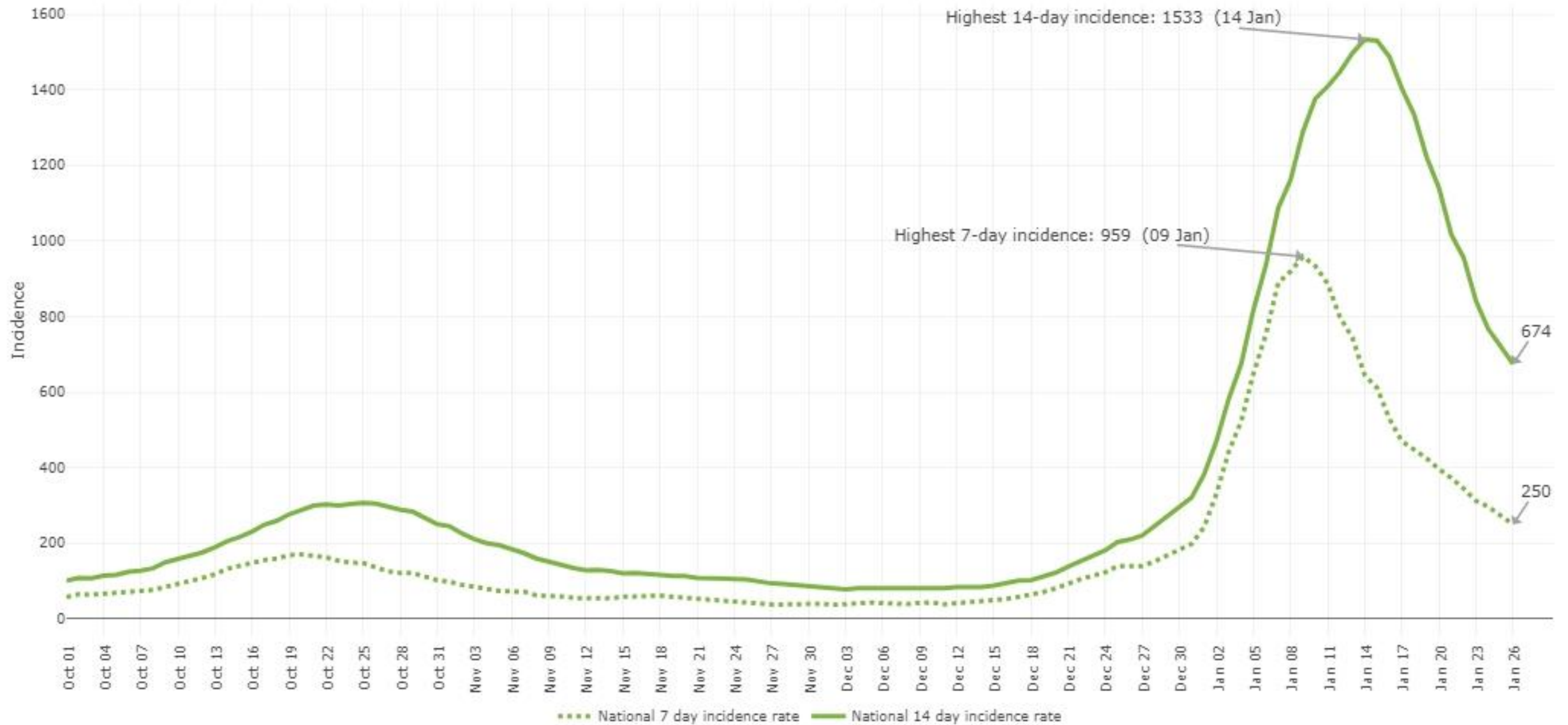


Daily count (bars) 5-day average (line) and weekly counts of the number of laboratory confirmed new cases by date on which they were confirmed by HPSC. Case counts may change due to denotification of cases. Weekly case counts are by notification (event date) and standard epidemiological week.

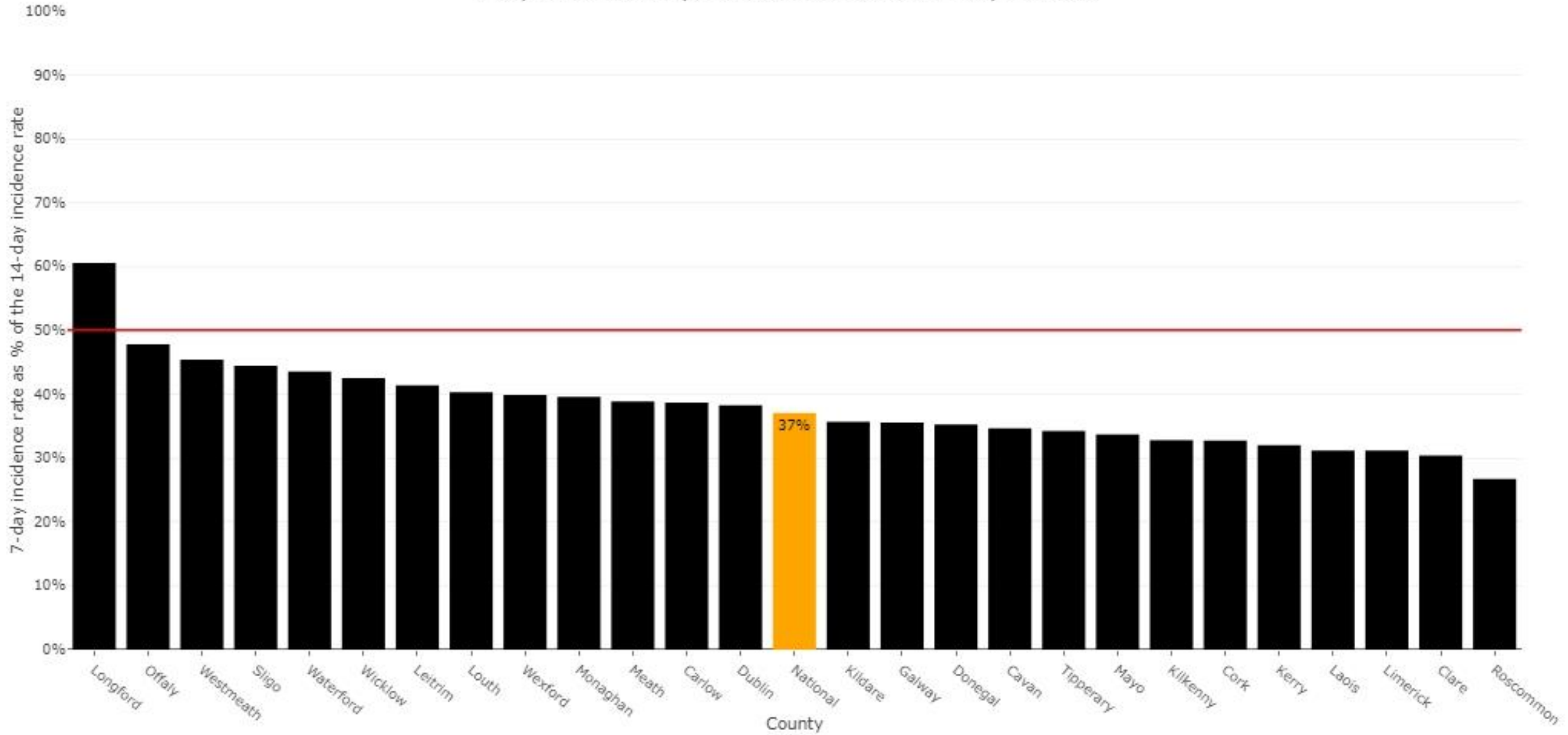


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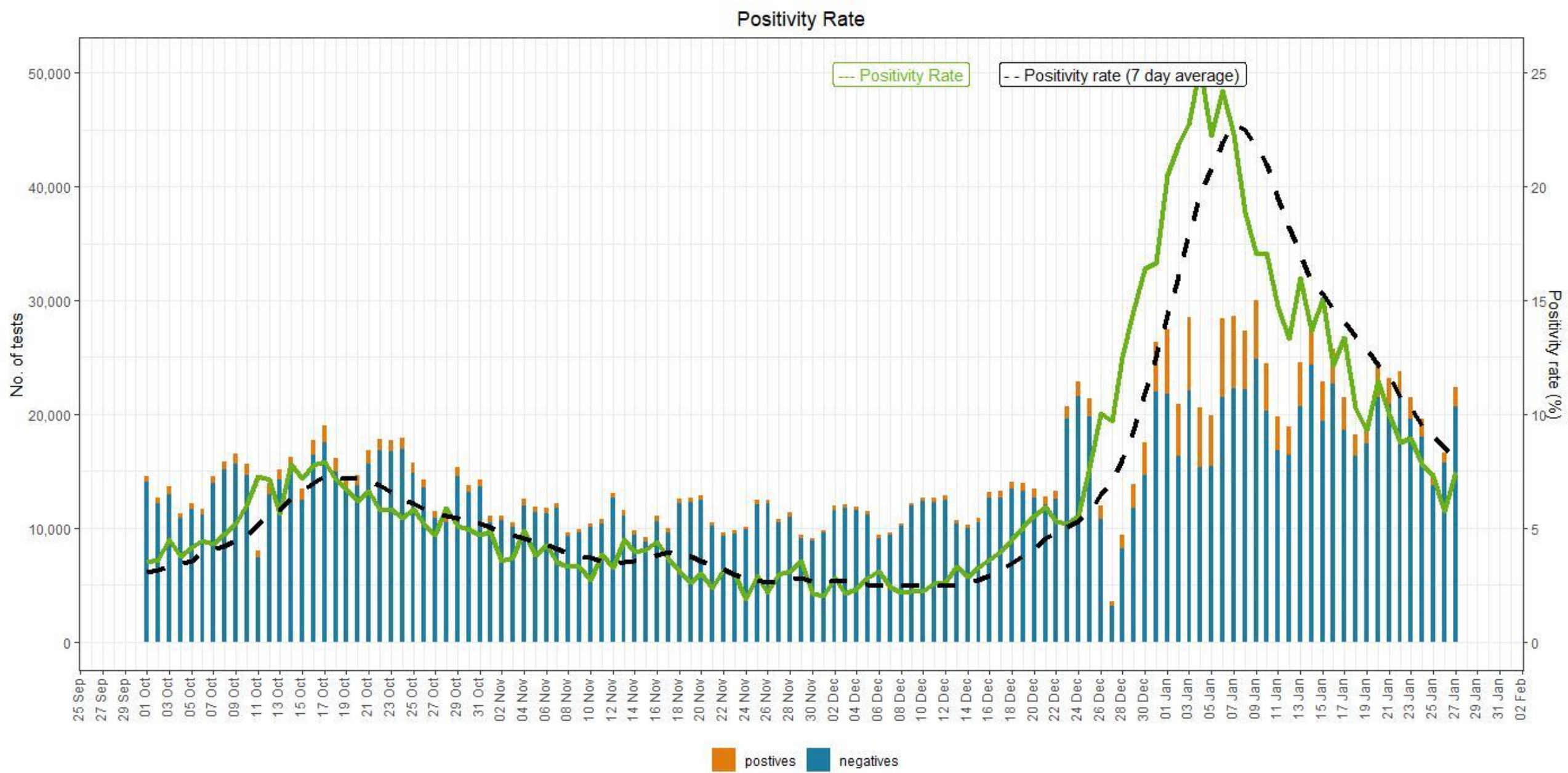
National 7 and 14 day Incidence rates



7-day incidence rate per 100,000 as % of the 14-day incidence



Recent trend in positivity rate

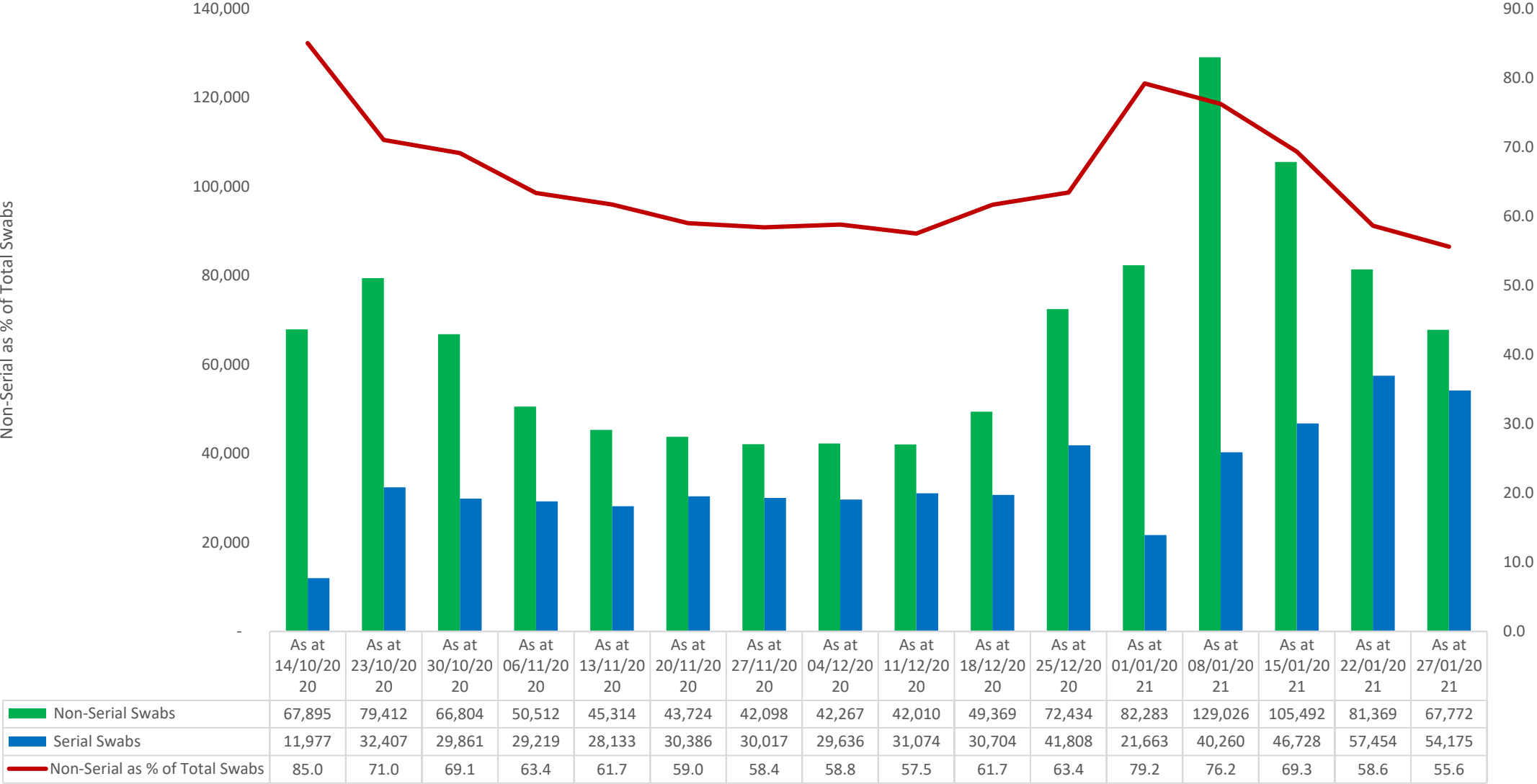




% Positivity Rate in Total Tests over Preceding 7 Days inc./ex. Serial Testing
(Data provided by HSE Contact Tracing Team and may differ from daily positivity rate data from Cumulative Labs Report)



No. of Non-Serial and Serial Swabs in Past 7 Days and Non-Serial as a % of Total Swabs
(Friday of each week and latest date)





% Positivity Rate Past 7 Days (inc./ex. serial testing) by County as at 27/01/21

(Data provided by HSE Contact Tracing Team and may differ from daily positivity rate data from Cumulative Labs Report)

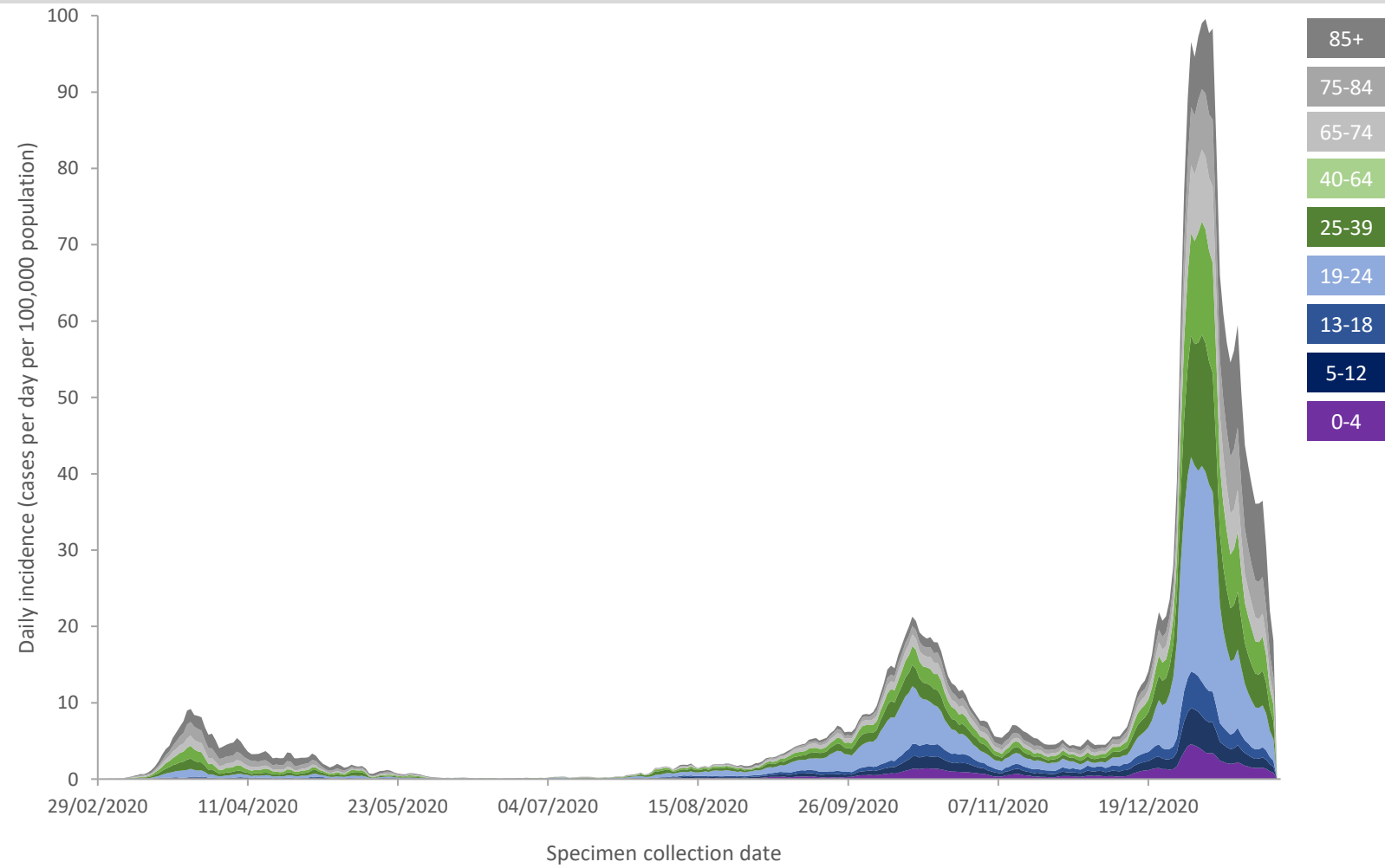
21 counties with positivity rates (excluding serial testing) $\geq 10\%$

1 county with positivity rate (excluding serial testing) $\geq 25\%$



Incidence across different age groups (excluding HCW and LTRC)

The chart shows the contribution of each age group to the overall incidence – the prominent grey bands show a very significant level of infection in recent weeks in those aged 65 and older, even when cases associated with outbreaks in long-term residential care are excluded.

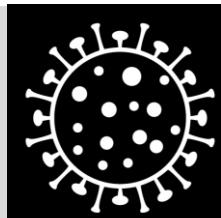


Week	Age band								
	0-4	5-12	13-18	19-24	25-39	40-64	65-74	75-84	85+
9	0.0	0.0	0.3	0.0	0.1	0.1	0.0	0.0	0.0
10	0.0	0.2	0.3	0.0	0.2	0.7	0.5	1.0	0.0
11	0.6	0.2	0.5	5.4	5.0	4.4	4.6	6.6	7.4
12	4.5	2.4	7.5	23.2	27.8	31.1	25.2	24.9	37.0
13	6.9	4.2	14.5	58.3	73.3	86.5	72.6	88.5	94.7
14	4.5	4.4	6.7	28.1	40.1	50.9	50.9	92.1	125.8
15	5.7	5.6	9.1	31.4	29.2	47.6	46.9	71.8	118.4
16	3.0	5.3	10.8	19.3	20.8	32.1	29.2	50.9	75.5
17	3.3	4.2	7.8	21.1	23.7	26.5	21.2	50.4	78.5
18	4.5	6.4	9.4	20.2	25.9	21.0	18.7	37.7	51.8
19	2.1	2.7	4.8	13.3	15.3	14.4	10.4	18.8	37.0
20	3.6	1.6	4.8	12.1	16.4	12.1	6.7	9.2	13.3
21	3.3	2.7	4.6	8.5	6.3	8.2	7.5	15.3	22.2
22	2.1	2.4	2.2	4.2	5.1	6.9	4.0	4.6	5.9
23	1.2	0.5	1.3	3.0	0.8	1.9	1.6	5.6	3.0
24	2.7	0.7	1.3	1.5	1.3	1.4	1.6	2.0	1.5
25	0.0	0.4	0.5	1.8	1.4	1.0	0.8	0.5	1.5
26	0.6	0.2	0.3	1.8	1.5	0.7	0.8	1.5	3.0
27	1.5	0.4	0.3	1.8	1.9	0.9	0.0	1.0	0.0
28	0.9	1.1	1.1	10.6	2.0	1.0	1.3	1.0	3.0
29	1.2	0.4	0.8	3.3	3.3	2.0	2.9	1.5	3.0
30	1.8	0.5	1.6	3.6	4.3	0.9	1.9	0.0	1.5
31	4.8	2.6	7.3	11.2	8.6	4.6	2.1	2.5	3.0
32	4.5	3.6	6.7	18.4	16.2	10.5	4.6	2.5	3.0
33	6.0	10.0	12.1	27.5	19.6	12.1	8.0	2.5	7.4
34	7.2	7.5	17.5	37.1	16.6	11.3	6.2	5.1	4.4
35	6.3	9.7	13.5	37.1	18.5	11.1	4.8	9.2	5.9
36	13.0	13.5	17.2	47.7	21.8	13.3	11.0	11.2	14.8
37	17.5	17.3	29.6	64.3	28.1	24.3	22.2	9.2	10.4
38	21.4	26.4	44.7	90.3	44.7	35.0	33.2	19.8	19.2
39	12.4	22.6	42.8	147.3	49.8	41.9	32.9	31.0	20.7
40	29.9	28.8	63.2	168.2	68.1	58.0	34.5	26.0	20.7
41	42.8	46.7	132.9	317.0	115.2	89.7	61.6	51.9	62.2
42	78.1	90.6	197.3	434.5	154.6	142.8	90.8	67.2	68.1
43	81.7	93.9	174.7	302.2	123.4	121.9	85.4	82.4	84.4
44	55.5	67.4	95.8	155.8	75.6	77.7	55.2	55.5	57.7
45	35.0	39.9	58.1	84.2	58.2	46.2	42.8	44.3	48.8
46	41.9	37.2	65.4	89.4	45.4	45.3	32.1	42.7	69.6
47	22.0	34.1	60.0	79.7	34.9	33.2	29.2	39.7	62.2
48	23.2	31.3	45.5	66.4	33.8	29.7	22.2	36.1	40.0
49	28.4	37.0	37.7	40.5	33.3	30.1	25.4	29.5	42.9
50	21.4	39.7	44.1	57.4	39.9	35.1	22.2	31.0	23.7
51	51.9	58.5	74.5	128.3	88.4	81.8	55.2	54.5	51.8
52	77.2	76.9	120.0	325.5	178.2	136.9	96.9	97.7	121.4
53	217.5	235.7	510.2	1404.9	763.4	641.4	426.0	353.7	411.5
1	182.8	208.9	571.1	1339.3	802.1	735.5	505.2	459.5	617.3
2	130.9	127.0	305.7	593.9	433.2	439.9	311.6	441.2	676.5
3	94.1	80.4	167.1	337.3	269.5	258.8	181.8	287.0	546.2

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 date of specimen collection. A number of cases in those aged 65 and older will be linked in the coming days to outbreaks in LTRC.

Incidence across different age groups (excluding HCW and LTRC)

Incidence has decreased significantly in younger adults, but remains very high, and is decreasing slowly, in those aged 75 and older, even when cases associated with outbreaks in long-term residential care are excluded



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Week	Age band								
	0-4	5-12	13-18	19-24	25-39	40-64	65-74	75-84	85+
49	28.4	37.0	37.7	40.5	33.3	30.1	25.4	29.5	42.9
50	21.4	39.7	44.1	57.4	39.9	35.1	22.2	31.0	23.7
51	51.9	58.5	74.5	128.3	88.4	81.8	55.2	54.5	51.8
52	77.2	76.9	120.0	325.5	178.2	136.9	96.9	97.7	121.4
53	217.5	235.7	510.2	1404.9	763.4	641.4	426.0	353.7	411.5
1	182.8	208.9	571.1	1339.3	802.1	735.5	505.2	459.5	617.3
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3	94.1	80.4	167.1	337.3	269.5	258.8	181.8	287.0	546.2

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.

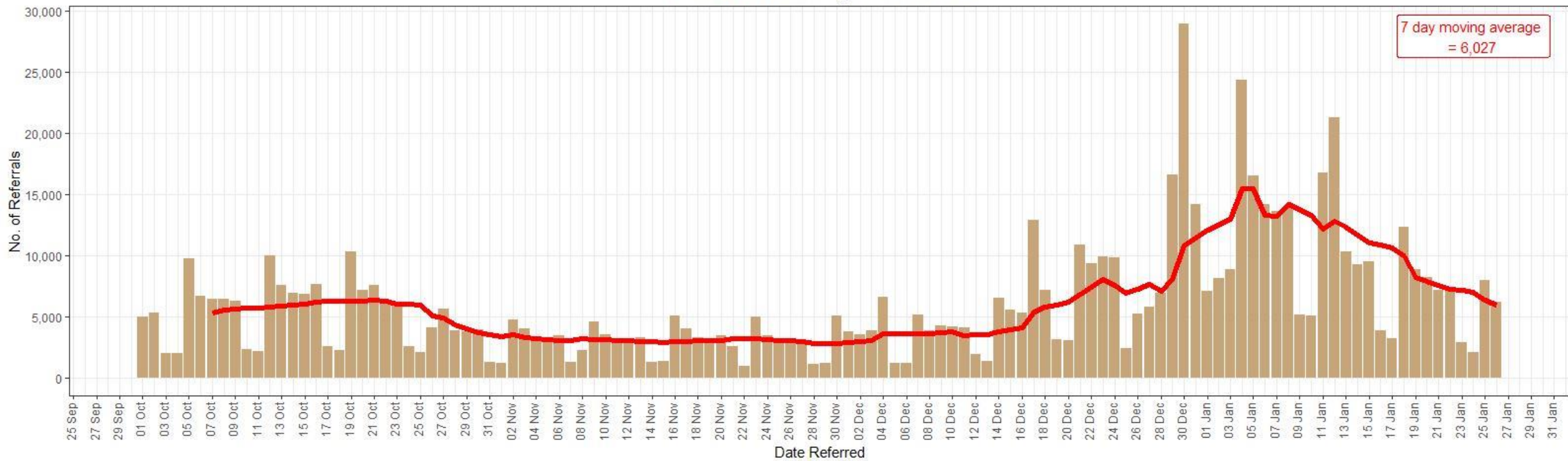


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GP referrals

GP Referrals excluding Close Contacts



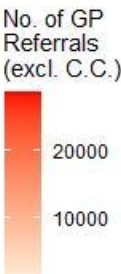
Dec

		1 3,818 referrals (+9%)	2 3,555 referrals (+18%)	3 3,881 referrals (+25%)	4 6,644 referrals (+121%)	5 1,222 referrals (+5%)
6 1,219 referrals (-3%)	7 5,203 referrals (+2%)	8 3,926 referrals (+3%)	9 4,274 referrals (+20%)	10 4,261 referrals (+10%)	11 4,153 referrals (-37%)	12 1,937 referrals (+59%)
13 1,407 referrals (+15%)	14 6,519 referrals (+25%)	15 5,573 referrals (+42%)	16 5,351 referrals (+25%)	17 12,887 referrals (+202%)	18 7,177 referrals (+73%)	19 3,214 referrals (+66%)
20 3,133 referrals (+123%)	21 10,876 referrals (+67%)	22 9,349 referrals (+68%)	23 9,927 referrals (+86%)	24 9,839 referrals (-24%)	25 2,436 referrals (-66%)	26 5,290 referrals (+65%)
27 5,825 referrals (+86%)	28 6,967 referrals (-36%)	29 16,606 referrals (+78%)	30 28,933 referrals (+192%)	31 14,228 referrals (+45%)		
Sun	Mon	Tue	Wed	Thu	Fri	Sat

Jan

					1 7,097 referrals (+191%)	2 8,142 referrals (+54%)
3 8,908 referrals (+53%)	4 24,389 referrals (+250%)	5 16,536 referrals (0%)	6 14,200 referrals (-51%)	7 13,643 referrals (-4%)	8 13,879 referrals (+96%)	9 5,218 referrals (-36%)
10 5,122 referrals (-43%)	11 16,747 referrals (-31%)	12 21,287 referrals (+29%)	13 10,347 referrals (-27%)	14 9,335 referrals (-32%)	15 9,558 referrals (-31%)	16 3,885 referrals (-26%)
17 3,279 referrals (-36%)	18 12,350 referrals (-26%)	19 8,860 referrals (-58%)	20 8,284 referrals (-20%)	21 7,236 referrals (-22%)	22 7,312 referrals (-23%)	23 2,953 referrals (-24%)
24 2,156 referrals (-34%)	25 8,047 referrals (-35%)	26 6,199 referrals (-30%)	27	28	29	30
31						
Sun	Mon	Tue	Wed	Thu	Fri	Sat

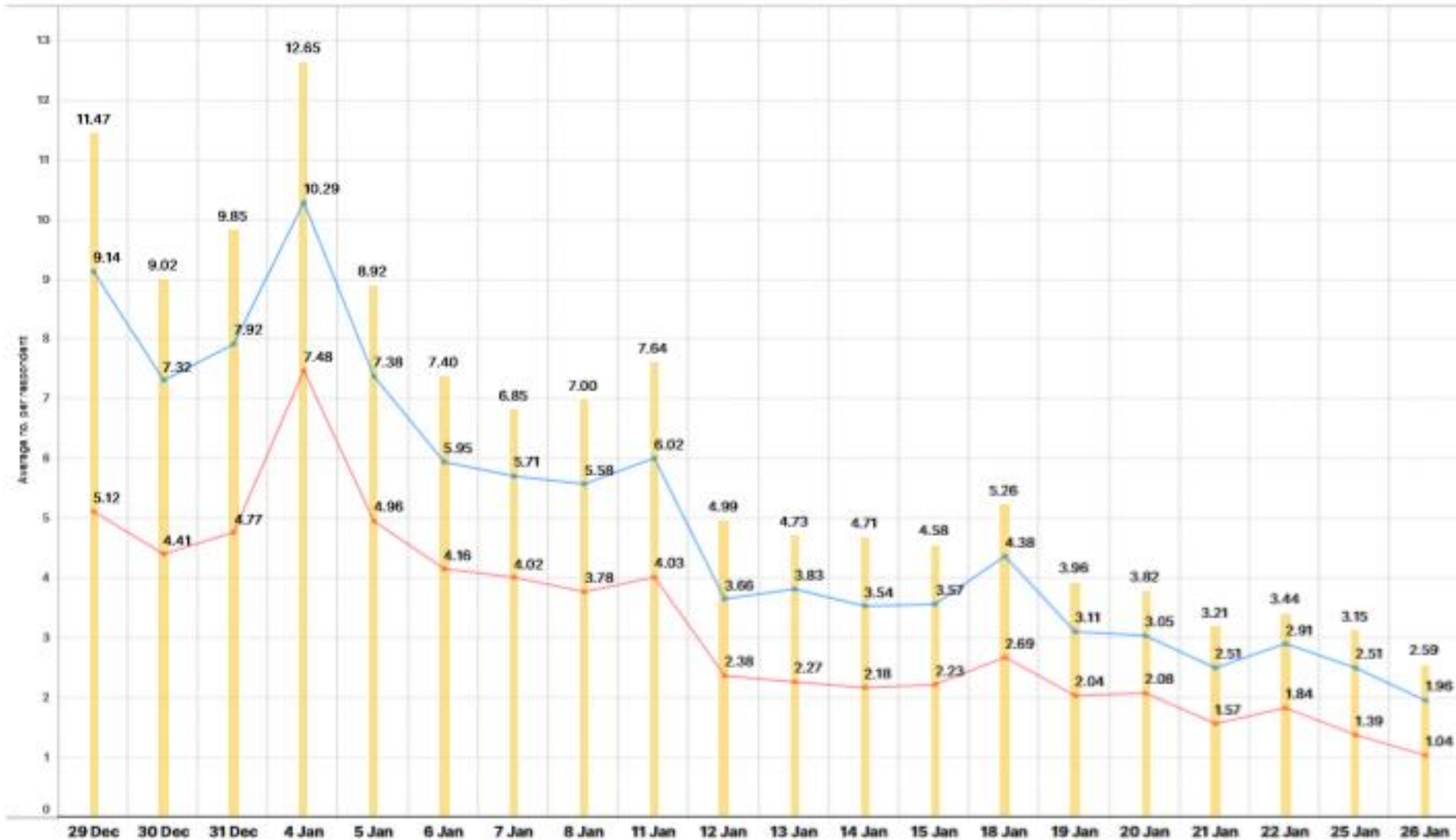
Percentages refer to week on week % change, i.e. this Monday vs last Monday, etc.



Number of cases that met testing criteria, clinically likely COVID-19

Average per respondent

Met Testing Criteria
Clinically likely Covid19
Calls about COVID-19
Number of survey responses



Source:

COVID-19
GP Community Tracker

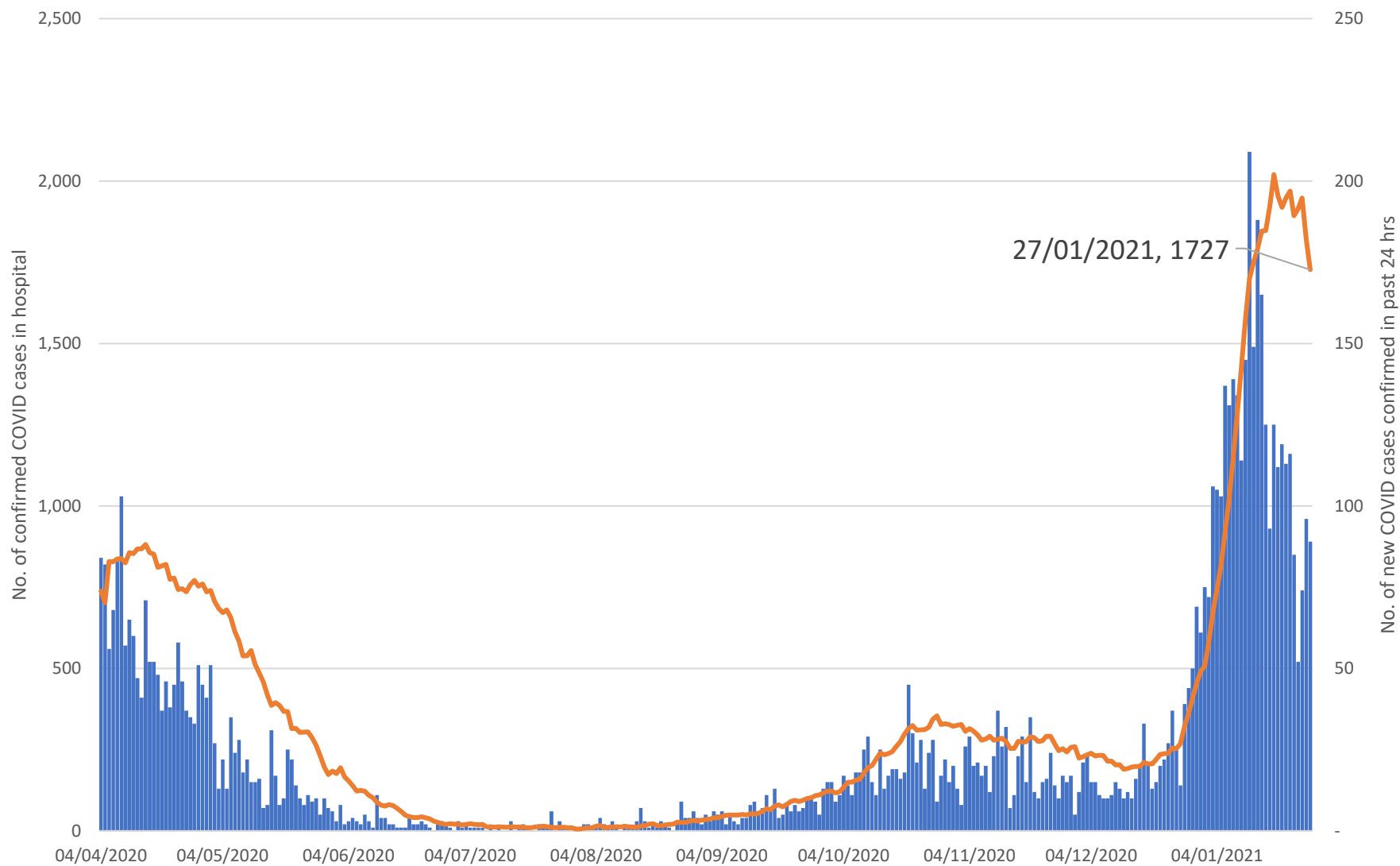


21st December 2020

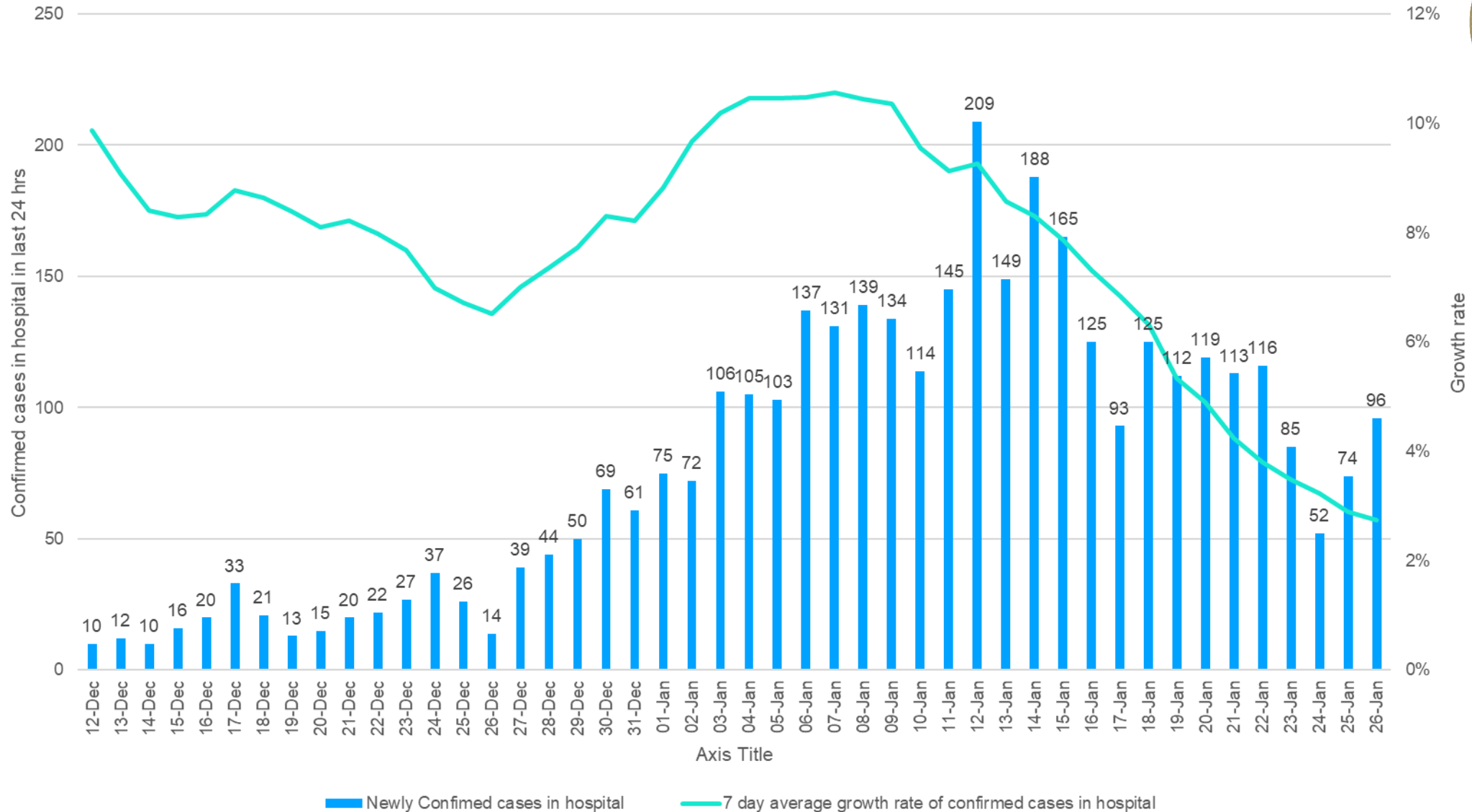


Hospital & ICU Data

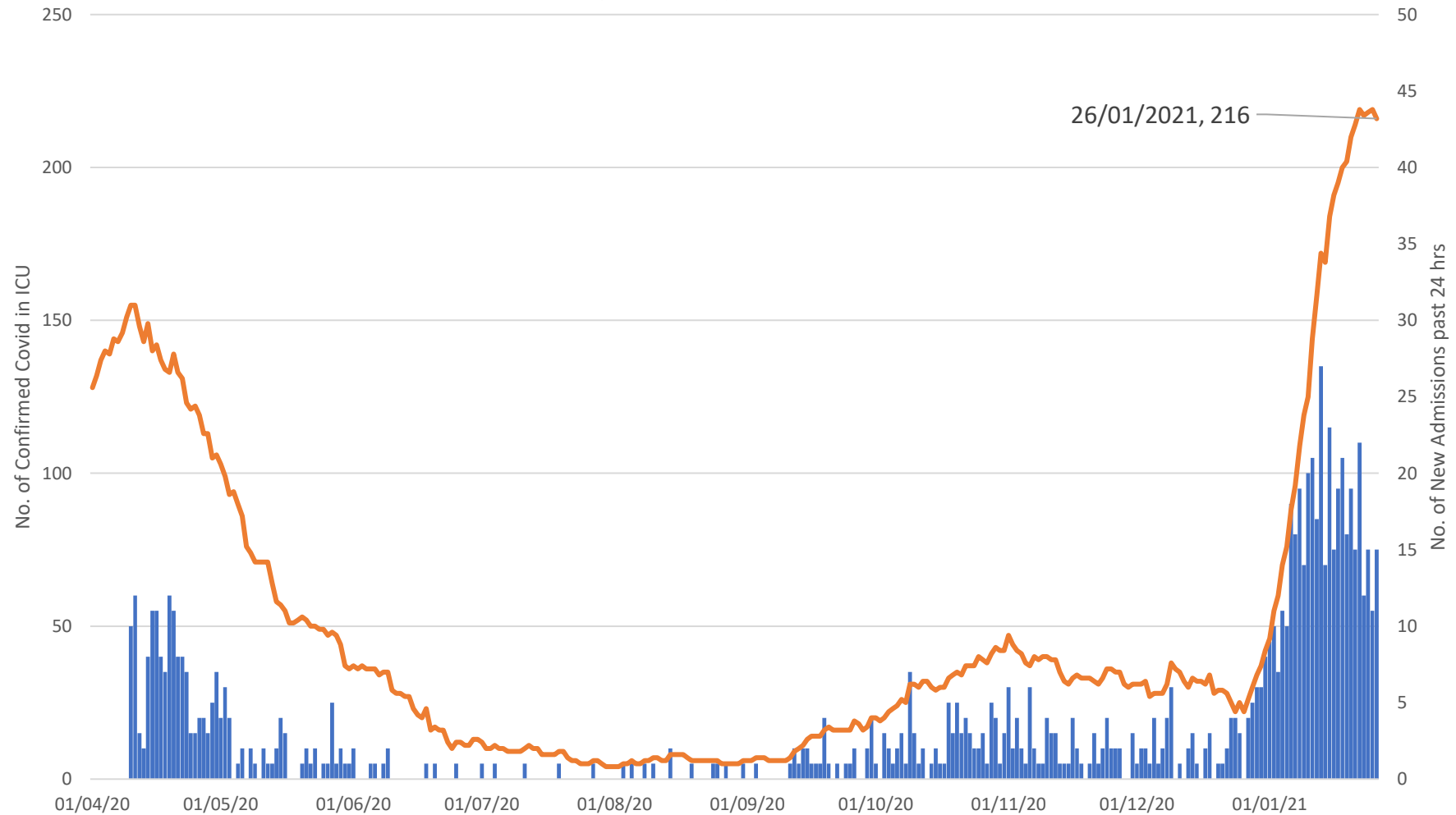
Total No. of Confirmed Covid Cases in Hospital at 8AM & No. of New Confirmed Covid Cases in Past 24 hrs



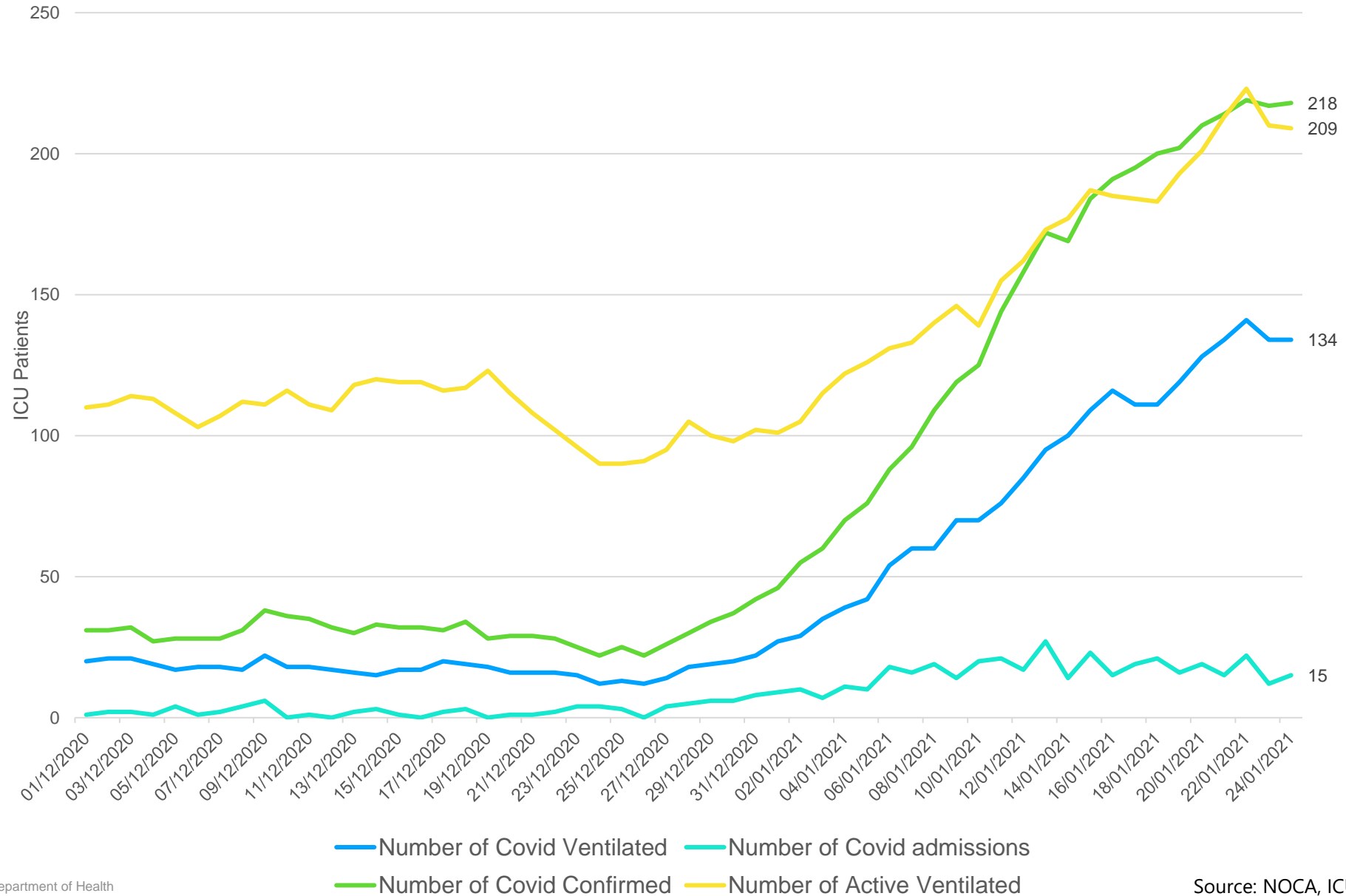
Confirmed cases in hospital and growth rate (7 day average)



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)*



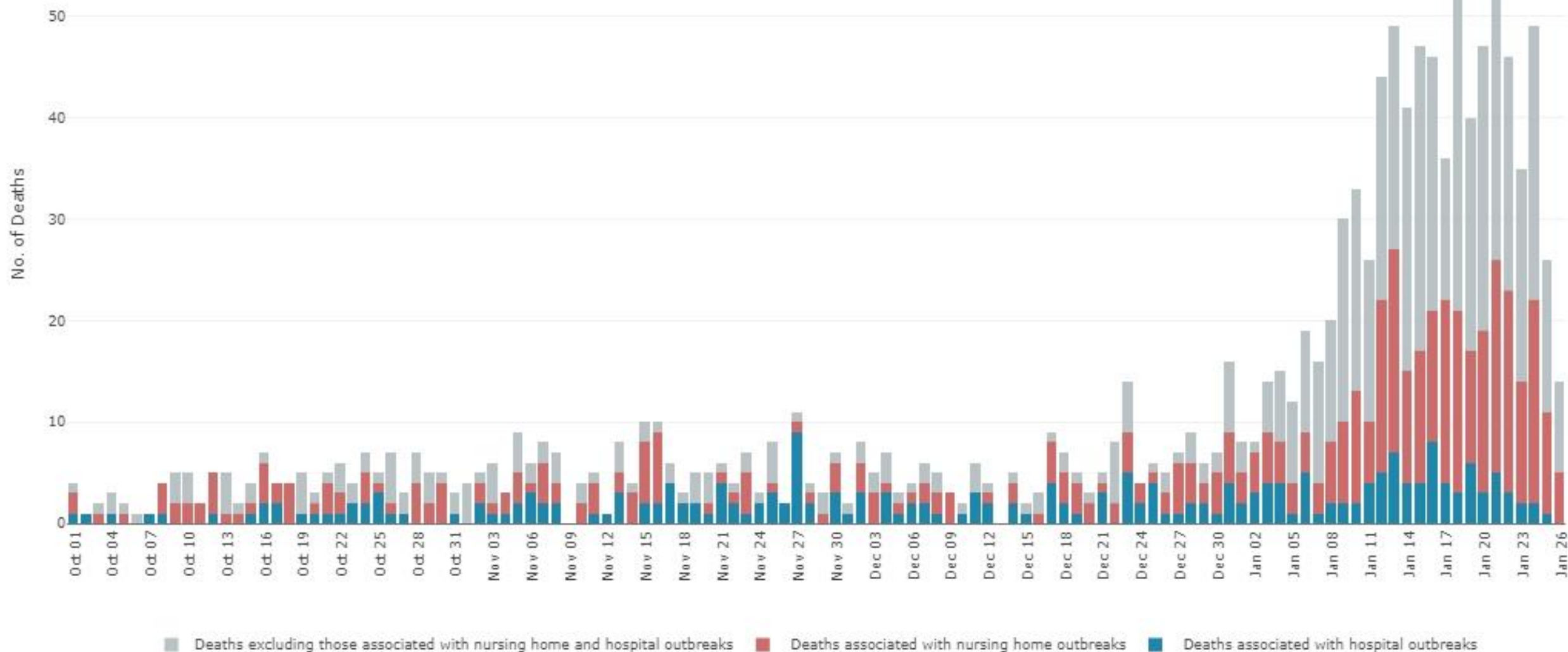
Total Ventilated in ICU, Total Covid in ICU, Covid Ventilated & New Covid Admissions





Deaths

Deaths by Date of Death





Outbreaks & Clusters

COVID-19 outbreaks by key outbreak locations, week 3 2021 and overall, 2020-2021 Ireland

Note: Due to the recent surge in case numbers, the number of linked cases in week 3 are likely an underestimate

- Since March 1st 2020, 11,539 outbreaks have been notified to CIDR
- In week 3 2021, 268 outbreaks were notified

Key outbreak locations	Week 3	Weeks 10-47	Weeks 48-3
Workplace	36	292	160
Direct Provision Centre	2	37	15
Vulnerable groups*	15	102	55
Prisons	0	9	3
Nursing Home/Community Hospital	32	380	193
Acute hospitals	20	178	139
Schools^	9	79	115
Childcare facility	28	200	77

*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 January 26th 2020 – data to midnight 25/01/2021

Weekly Summary

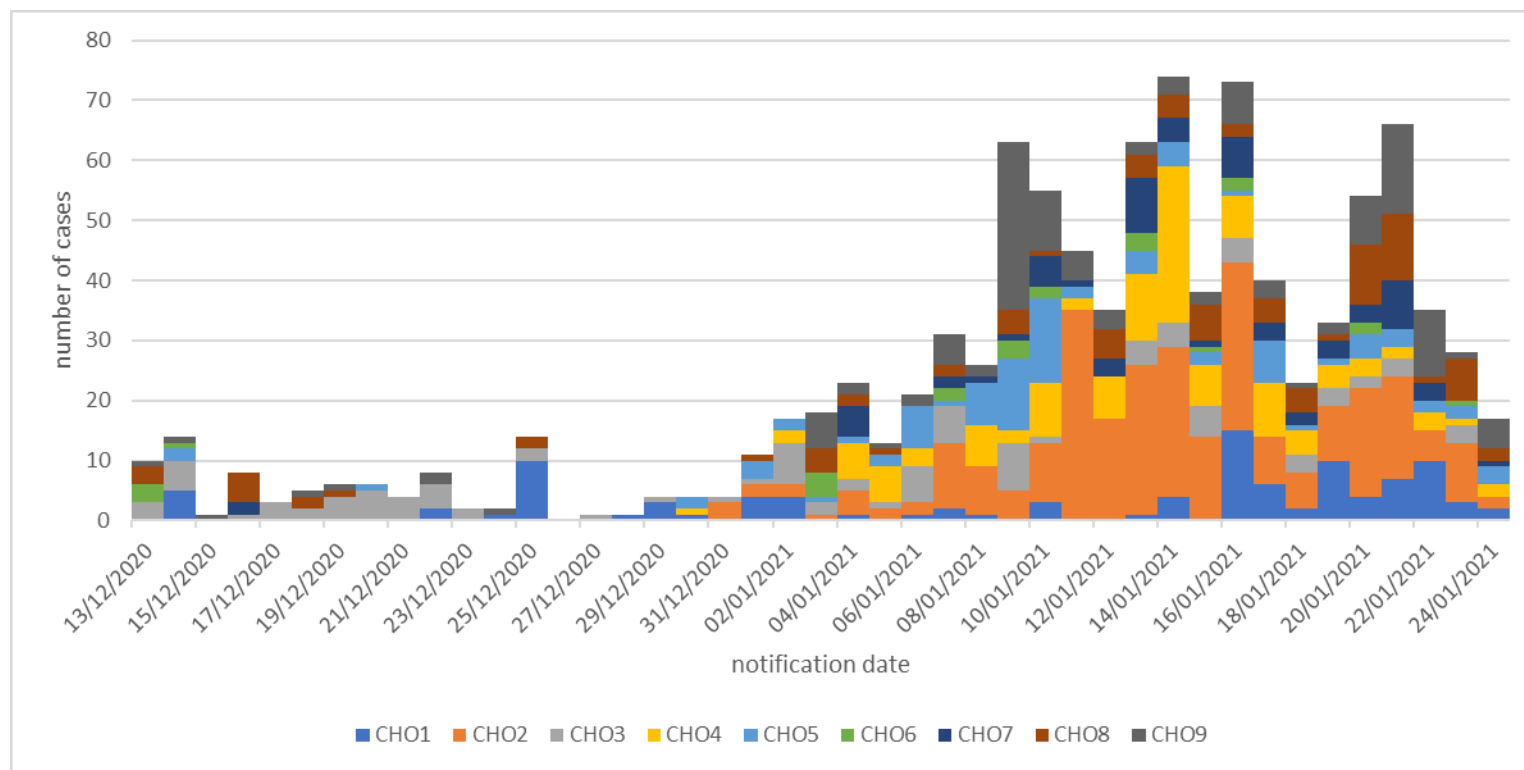


- **Total** number of outbreaks week 3, 2021 n=268 compared with week 2, 2021 n=293
- **Vulnerable groups**
 - Irish Traveller outbreaks
 - Since last report, 13 new outbreaks, 112 linked cases
 - Since Mon 25th – 4 new outbreaks already
 - 8 new outbreaks DPCs since last weeks report - 81 linked cases
 - 30 cases linked to DPC outbreak
 - 1 new outbreak in homeless population – 3 cases
 - 3 new outbreaks addiction services -10 linked cases
- **Workplace outbreaks**
 - 8 new food industry outbreaks since last week's report – with 61 linked cases (range 1-28)
 - Meat factory outbreak -108 linked cases
- **Residential institution outbreaks**
 - 401 outbreaks in residential institutions with 2142 linked cases
 - 169 outbreaks are 'open' with 825 linked cases
 - 35 new outbreaks since last week's report with 103 linked cases
- **Home care Teams**
 - 29 open outbreaks with 75 linked cases
- **Nursing Homes & Community Hospitals**
 - 189/573 outbreaks remain open with 4182 linked cases
 - 32 new outbreaks in week 3 with 268 linked cases since last week's report
 - One new outbreak has 57 linked cases already – 4 others have >30 linked cases
 - Since August 1st, 398 deaths
- **Acute hospitals**
 - 129 open outbreaks involving 43 hospitals, 1499 linked cases (range 1-138)
 - 19 new outbreaks since last week's report with 86 linked cases
 - Since August 1st 2020, 224 deaths have occurred in cases linked to acute hospitals outbreaks
- **Schools**
 - 8 new outbreaks since last week's report with 16 linked cases (range 1-3)
- **Childcare facilities**
 - 21 new outbreaks since last week's report with 82 linked cases (range 2-11)
 - Largest outbreak (n=11) – 8 staff/3 child cases

Key points

- The volume and size of nursing home outbreaks continues to be of concern
 - Both new and several ongoing outbreaks
 - 13 open outbreaks >70 cases
 - Considerable mortality – 398 deaths since August 1st
- Steep rise in the number of residential institutions recently – 169 open outbreaks – 825 linked cases
- Large number of acute hospital outbreaks continue to occur – 19 since last report
- Eight new food production/processing outbreaks – one existing outbreak 108 linked cases
- Increase in outbreaks in vulnerable groups
 - 8 DPC outbreaks
 - 15 Irish Traveller outbreaks between weeks 3 and 4 to date
- 21 CCF outbreaks this week – largest 11 cases, mix of staff and children

COVID-19 infections among Irish Travellers – December 13th 2020 –midnight January 25th 2021



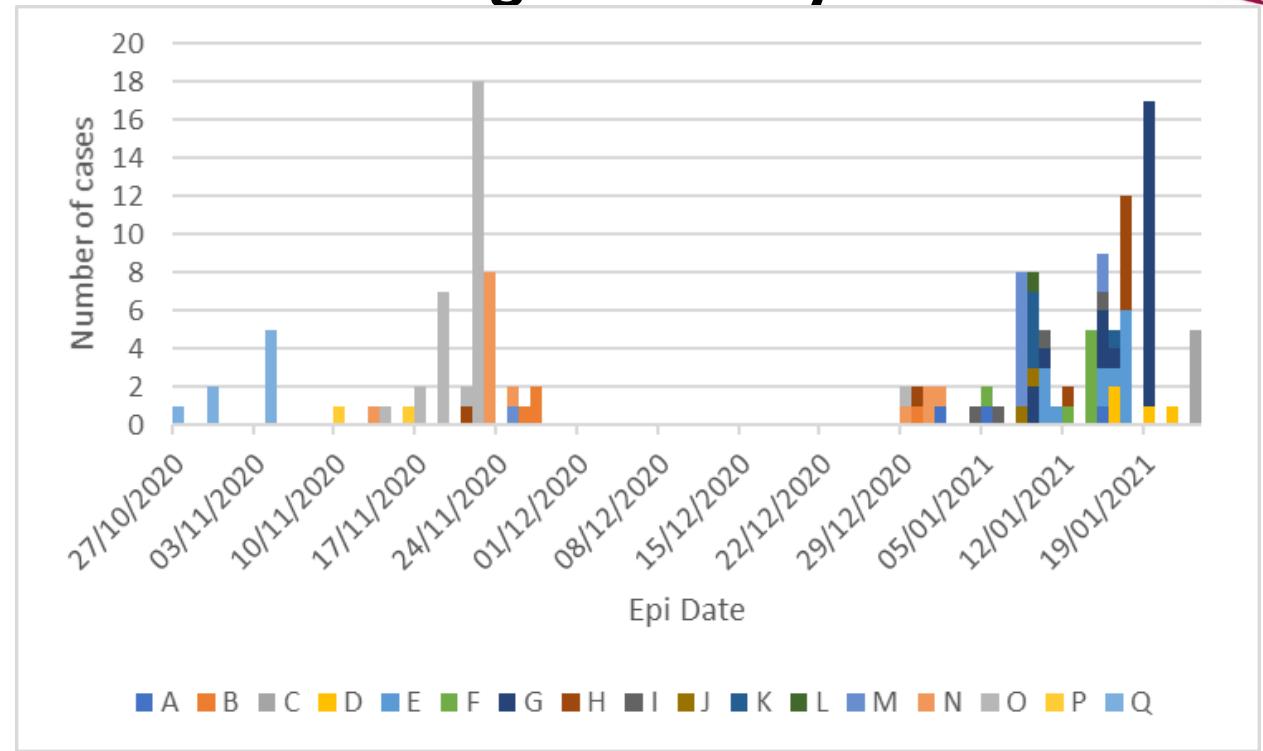
- 999 confirmed cases
- 48% (483/999) male
- Median age 24 years
- 2.7% hospitalised, four ICU admissions and two deaths
- Among 39 outbreaks, 8 had >15 linked cases
- **Thirteen new outbreaks since last report, with 112 cases between them**

Inclusion criteria

Cases linked to outbreaks reported as affecting Irish Travellers OR whose ethnicity is reported as Irish Traveller, December 13th 2020 to midnight January 25th 2021

Data source: CIDR January 26th 2021 – data to midnight 25rd January 2021

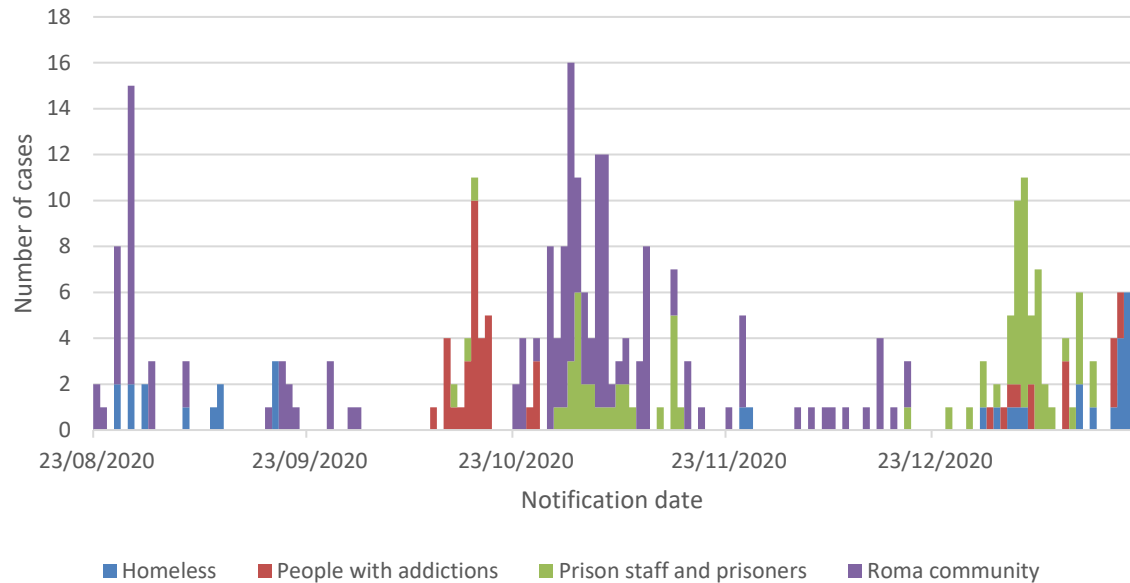
Direct Provision Centre Outbreaks as of midnight January 25th 2021



- To date, total of 534 confirmed cases linked to 56 notified outbreaks in DPCs
- Seventeen DPC outbreaks notified since July 1st remain 'open'
- 153 confirmed cases linked to the 17 'open' outbreaks
- Among the 153 cases, there are two hospitalisations and no ICU admissions or deaths
- There were eight new outbreaks since last report with 81 confirmed lined cases (range 2-30)

Data source: CIDR January 26th 2021– data to midnight 23/01/2021

Outbreaks linked with Roma, Homeless, Addiction Services and Prisons: August 1st to January 25th 2021



Since August 1st

- 34 outbreaks with 314 associated cases
- 18% (55/311) are <15 years and all are Roma)
- Thirteen outbreaks are 'open' (two in prisons, seven in people with addictions and four in the homeless population)
- Since last update, four new outbreaks occurred, one in homeless populations (n=3) and three in people with addictions (n=10)

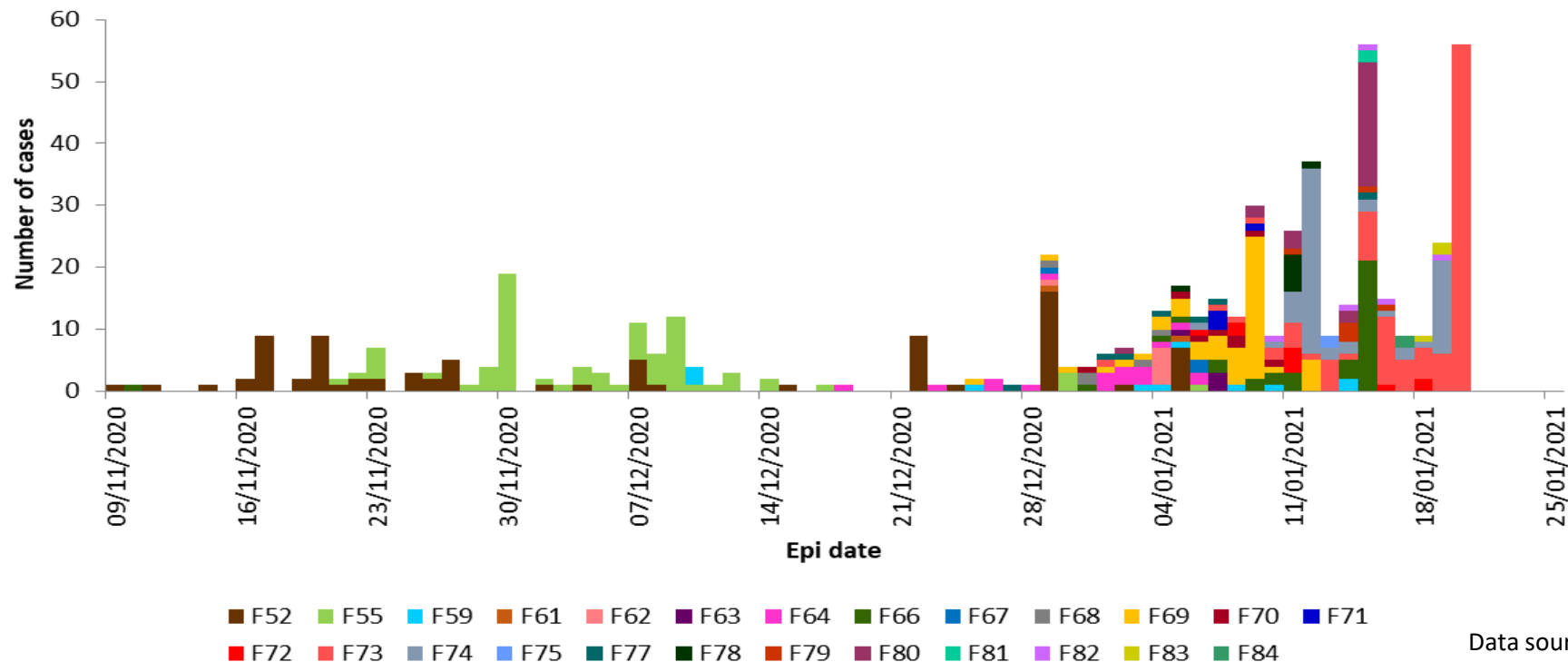
Vulnerable group	Outbreak	Linked confirmed cases			
	Number of outbreaks	Number of cases	Number hospitalised	Number admitted to ICU -	Number who died
Homeless	11	34	2	2	
People with addictions	9	53	3		
Prison staff and prisoners	5	78			
Roma community	9	149	9	3	
Total	34	314	14	5	

Data source: CIDR January 26th 2021– data to midnight 23/01/2021

Workplace outbreaks – Food production/processing: Oct 1st 2020-Jan 25th 2021



- 555 cases are linked to 25 **open** outbreaks in this sector (range: 0-108 linked confirmed cases)
- 8 new outbreaks were reported this week (61 confirmed cases linked to these outbreaks (range: 2-28 linked confirmed cases)
- 129 additional cases were linked to previously reported outbreaks
- The largest outbreak, with 108 linked cases and epi dates range from the 1st to 20th Jan
- Overall, 192 cases linked to outbreaks in this sector have an epi date within the last 14 days; and 56 within the last 7 days



Data source: CIDR January 26th 2021
 *Data to midnight 25/01/2021

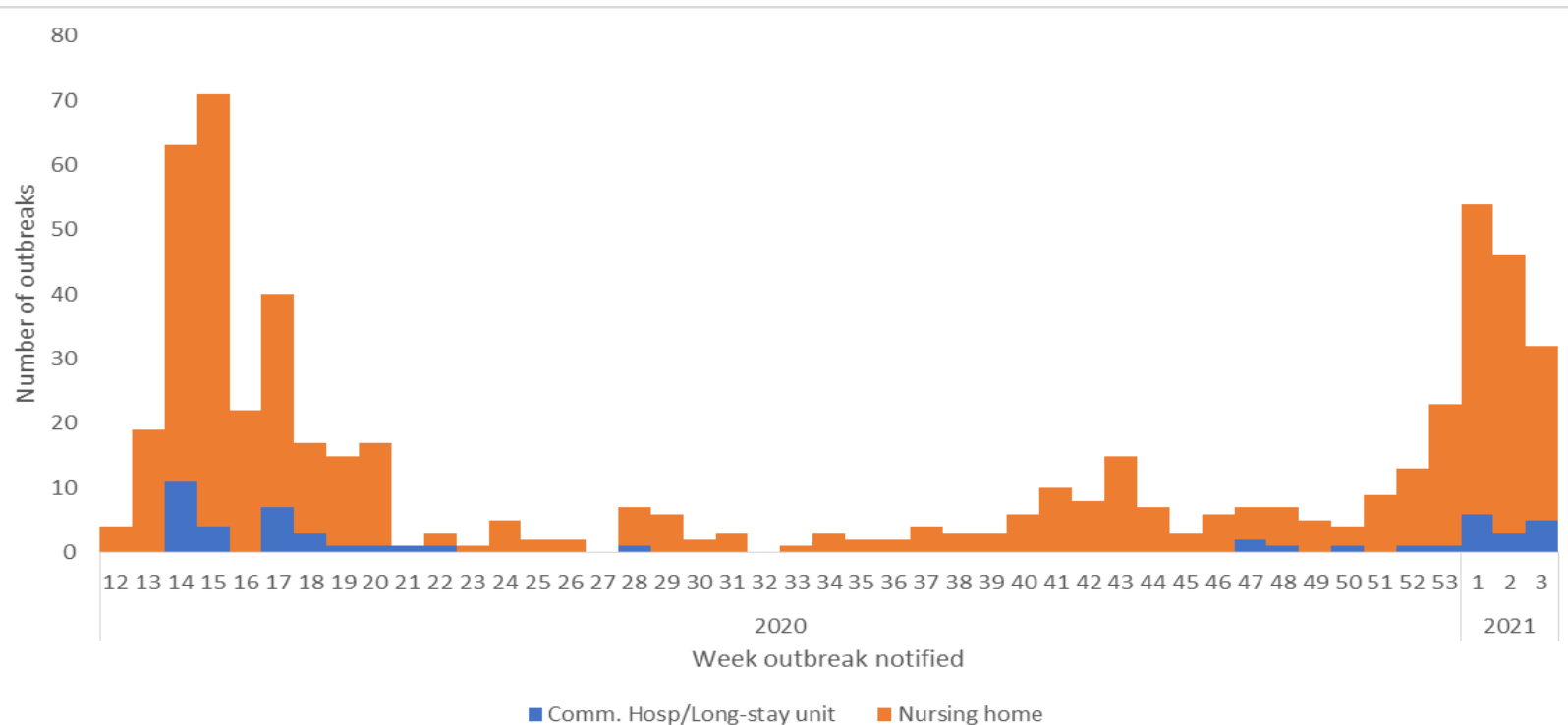
Nursing Homes and Community Hospital/Long Stay Units: to midnight January 23rd 2021



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	50	902	81	2	15	85
Nursing home	523	11,144	696	18	234	1,202
Total	573	12,046	777	20	249	1,287

March 2020 –January 23rd 2021

- 573 outbreaks in Nursing Homes and Community Hospital/Long Stay Units
- 27 new Nursing Home and 5 new Community Hospital/Long-stay Unit outbreaks notified in week 3 2021



Data source: CIDR January 25th 2021 – data to midnight 23rd January 2021

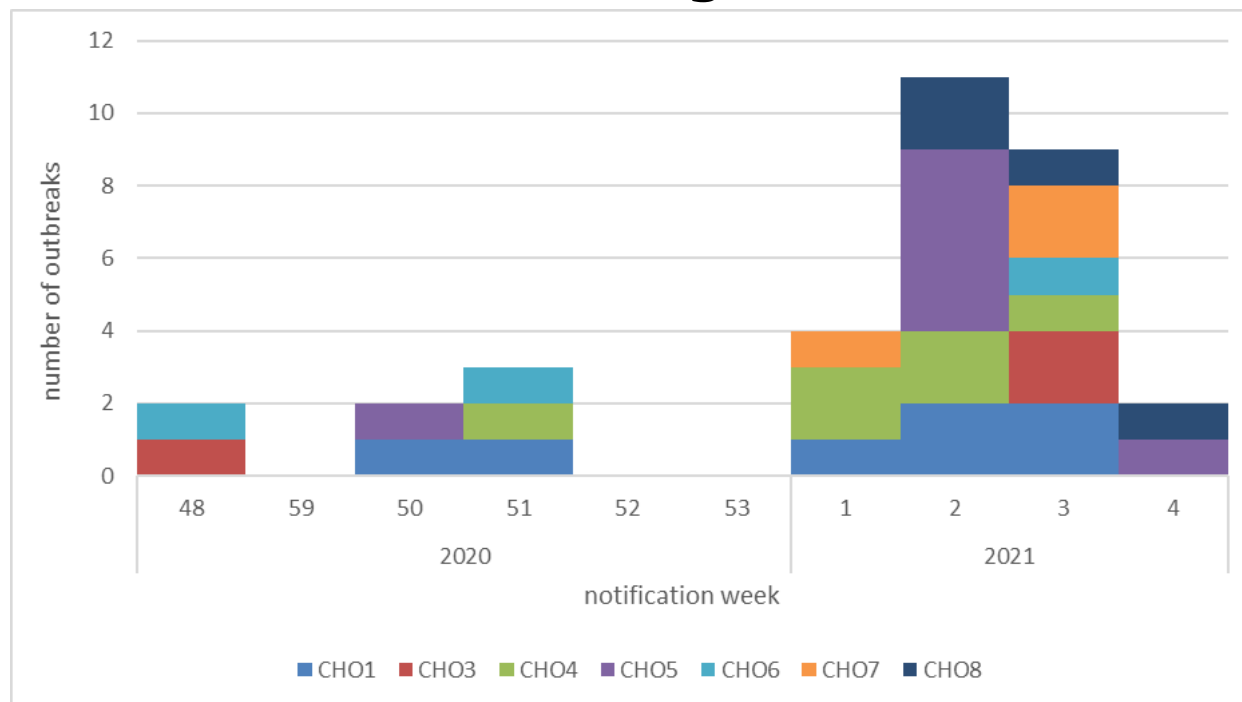
Focus on 189 'OPEN' Nursing Homes and Community Hospital/Long Stay Units to midnight January 23rd 2021

- 4,182 associated cases (1,574 HCW/staff cases, 1,965 client cases, 594 cases HCW status unknown, of which 190 were <65 years)
- 15 outbreaks include only HCW/staff cases, 129 include both HCW/staff cases and client cases, 5 outbreaks includes client cases only, for 21 outbreaks the mix of cases is unclear, and for 19* outbreaks, there were no linked cases
- 27 new NH outbreaks since last week's report – 268 linked cases
 - One new outbreak – 57 linked cases
 - Four new outbreaks > 30 linked cases each
- 94 previously notified 'open' outbreaks – 1,226 additional cases since last week's report
- 62 previously notified 'open' outbreaks – no additional cases since last week's report

*For 18 of 19 outbreaks with no linked cases, aggregate data on the number of associated cases suggest that there should be an additional 214 linked cases

Data source: CIDR January 25th 2021 – data to midnight 23rd January 2021

Summary of outbreaks associated with home help/home care services week starting 22/11/2020 to midnight 25/01/2021 (n=33)



Overview

- Since 22/11/2020 there have been 33 outbreaks associated with home help services in 7 CHOs
- 29 Outbreaks remain 'open'
- There are 75 confirmed cases linked to these outbreaks, median 3 (range (1-8))
 - 36 HCW cases
 - 6 deaths among cases
 - 8 hospitalised with no ICU admissions
- Since the last report there have been a further 11 outbreaks with 12 linked cases

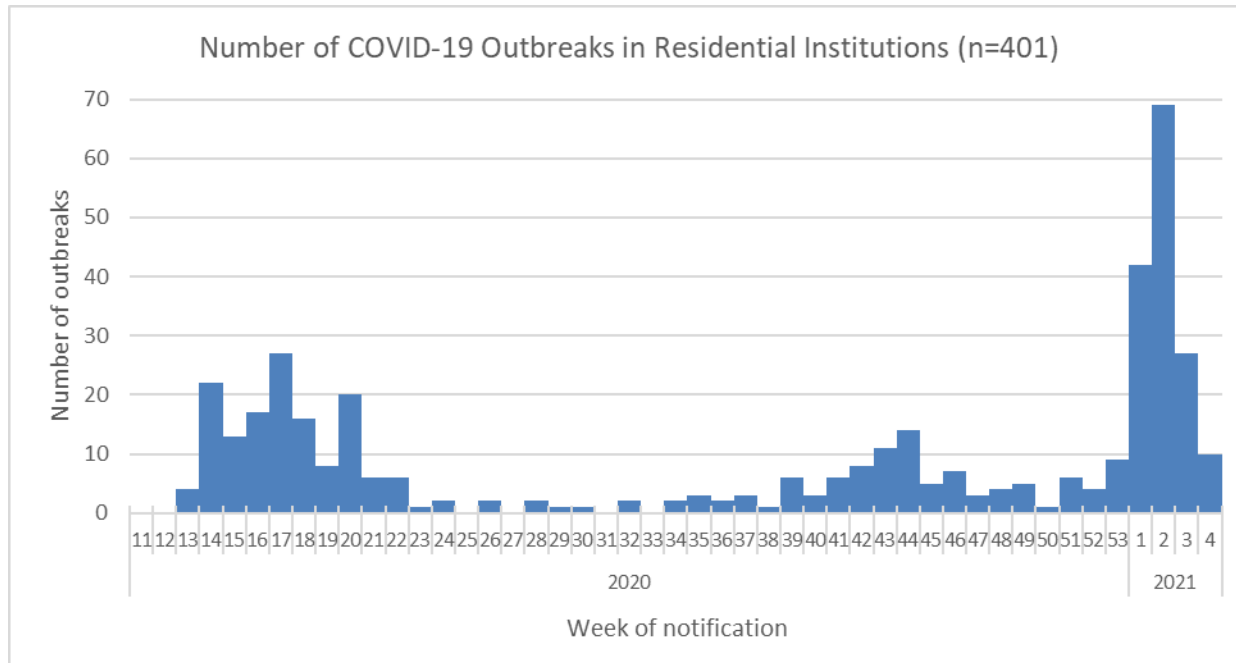
Area	Number of Outbreaks	Number of linked confirmed cases	Number of lab confirmed cases
CHO1	7	20	17
CHO3	3	2	1
CHO4	6	23	24
CHO5	6	12	13
CHO7	3	9	13
CHO8	4	9	60
Total	29	75	128

Data source: CIDR January 26th 2021 – data to midnight 25th January 2021

Residential Institution outbreaks March 2020 to midnight 25th January 2021 (n=401)



	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
Residential Facilities - Total	401	2142	169	825	37	2	14
Centre for disabilities	261	1178	107	477	19	1	7
Centre for older people	28	397	13	112			1
Children's / TUSLA residential centre	27	59	12	30			
Mental health facility	41	276	15	81	15	1	
Other	21	114	4	20	1		2
Not Specified	23	118	18	105	2		4



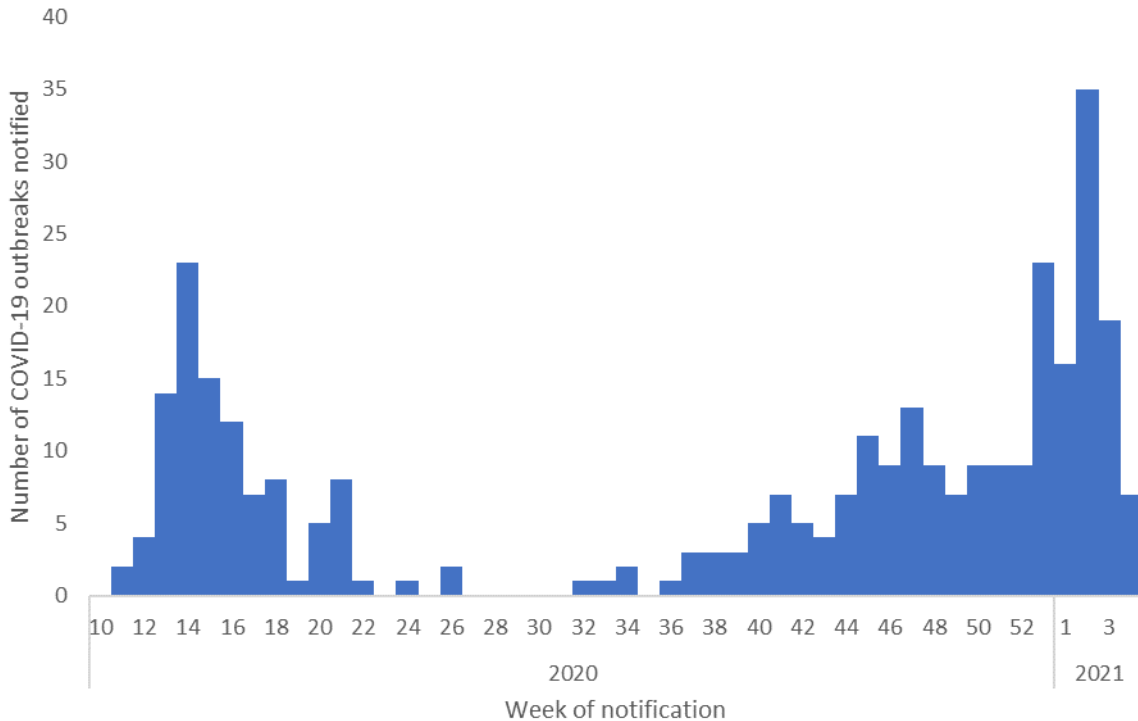
Overview

- 401 outbreaks in residential institutions with 2,142 linked confirmed cases
- 169 outbreaks remain open with 825 linked confirmed cases
 - Range in number of cases 0 to 38; median 4
 - 107 of 'open' outbreaks in centres for disabilities
- 35 new outbreaks since last week's report with 103 linked cases

Data source: CIDR January 26th 2021 – data to midnight 25th January 2021

Acute Hospital outbreaks to midnight 25th January 2021 (n=321)

Number of COVID-19 Outbreaks in Hospitals (n=321)



Overview

- **321** outbreaks in acute hospitals
- **129** 'open' acute hospital outbreaks (all occurring since 1st September 2020)
- 1499 confirmed cases linked to 129 of the open outbreaks (range 1-138)
- The 129 open outbreaks correspond to outbreaks in **43** Acute Hospitals

Update

- 19 new outbreaks in week 3 2021
- 86 confirmed cases linked to these 19 outbreaks (range 1-17)
- A total of 57 additional cases were linked to 25 previously reported open hospital outbreaks
- Fourteen outbreaks were closed since last week

Data source: CIDR January 26th 2021– data to midnight 23/01/2021

Outbreak status	Number of outbreaks	Confirmed linked cases	Number admitted to ICU	Number Died	Number HCWs
All	321	3647	82	334	1743
Open	129	1499	30	136	596

Outbreaks associated with childcare facilities to midnight 25th January 2021 (n=163)

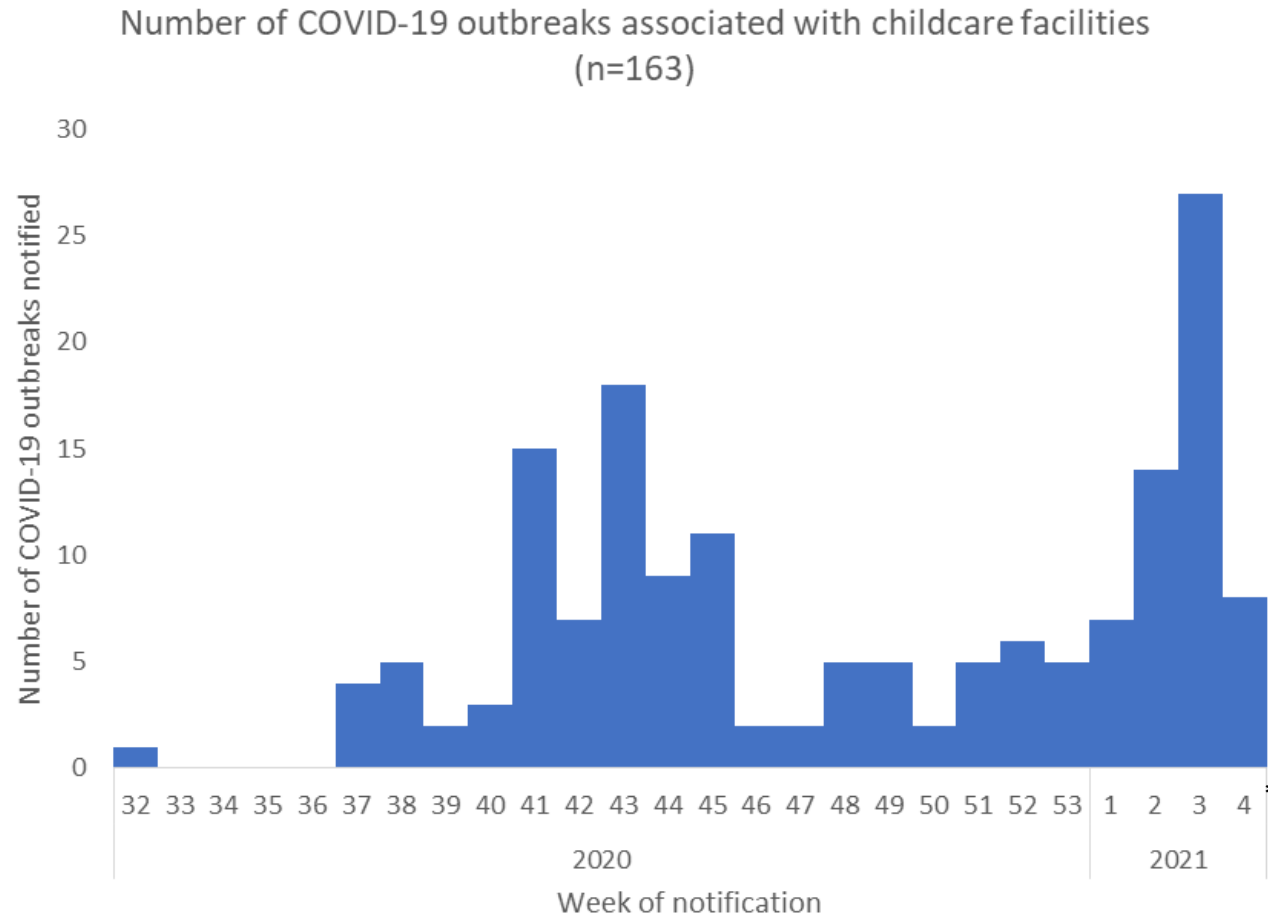


Overview

- 163 outbreaks associated with children and staff in childcare facilities notified
- 769 linked events in total
- 147 outbreaks have ≥ 2 linked confirmed cases (range 2-39)
- 85 outbreaks have been closed; 78 remain open

Update

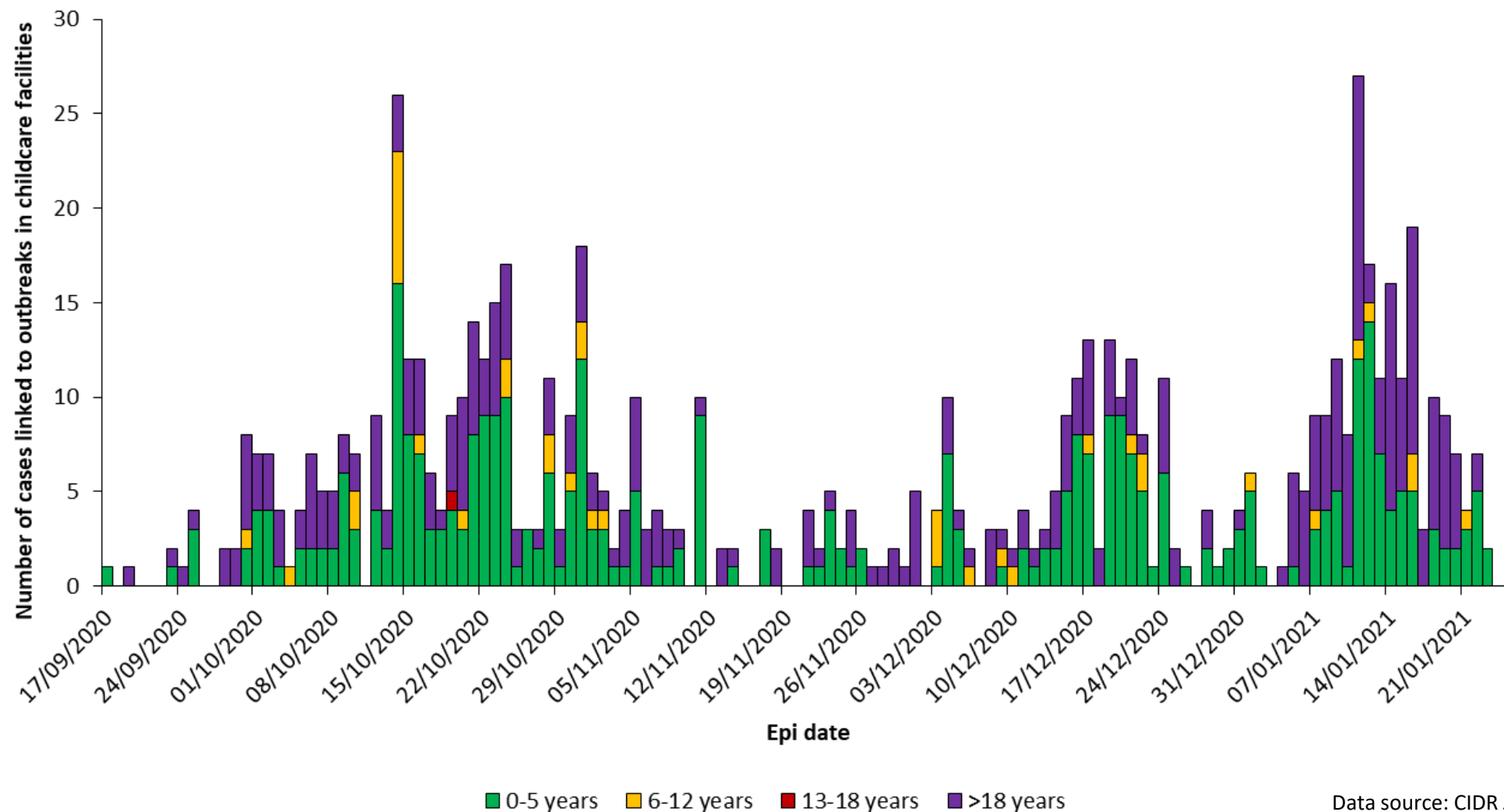
- 21 new outbreaks reported since last week
- 82 confirmed cases linked to these outbreaks (range 2-11)
- The most notable outbreak, with 11 linked cases among a mixture of children and adults
- Since last week, 32 cases were linked to a previously reported outbreak (a total of 32 cases among adults and children linked to this outbreak)
- 1 outbreak was closed since last week



Data source: CIDR January 26th 2021

*Data to midnight 25/01/2021

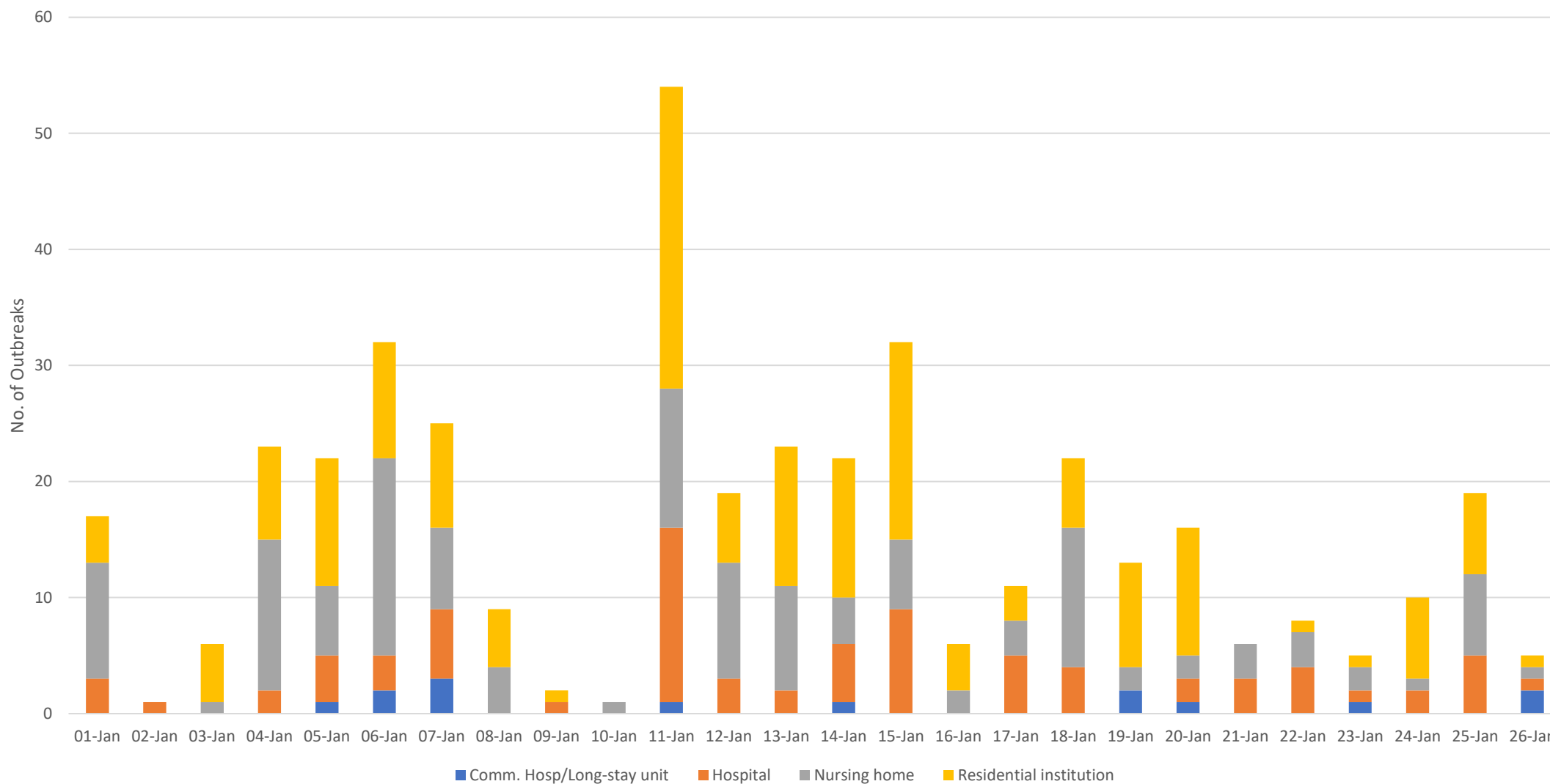
Epidemic curve of cases linked to outbreaks associated with childcare facility outbreaks Oct 1st 2020 – Jan 25th 2021 (n=710) by age group and epi date



Data source: CIDR January 26th 2021
 *Data to midnight 25/01/2021

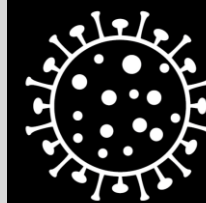
Acute Hospitals and Residential Care Facilities

No. of new outbreaks created by date outbreak created in January

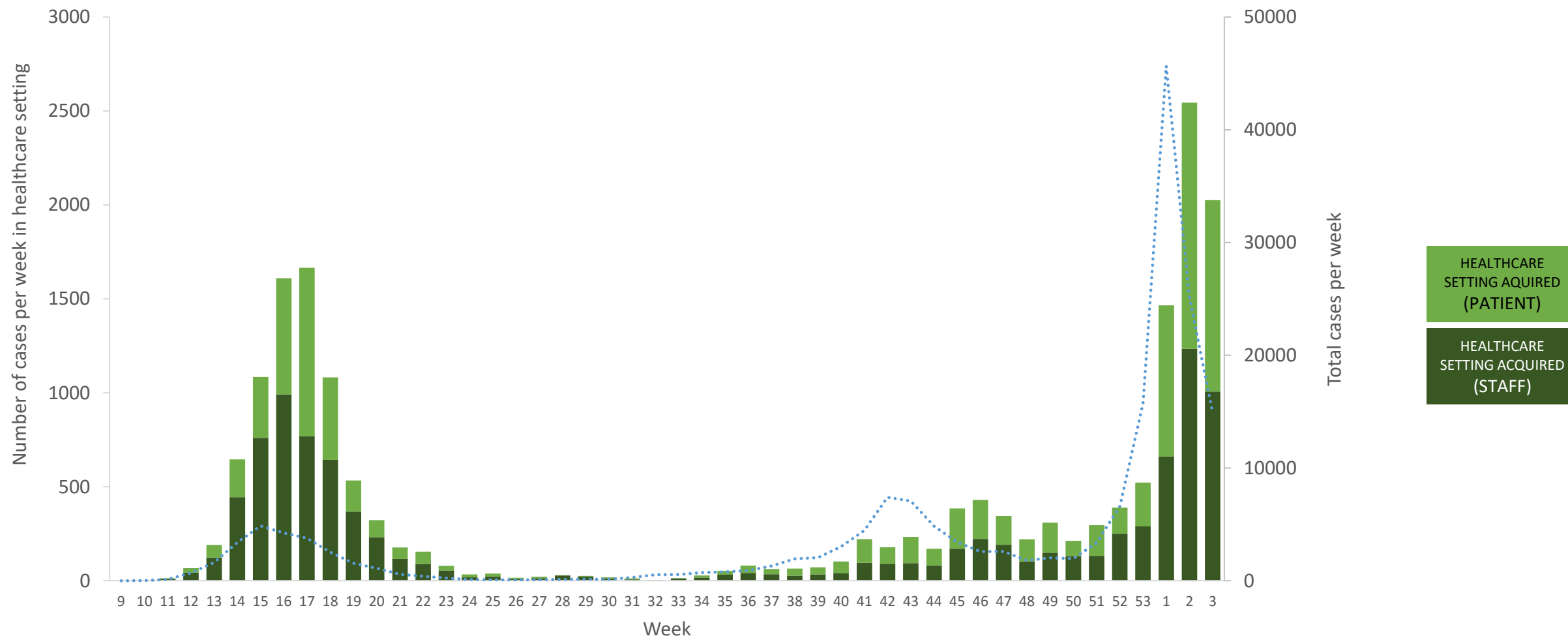


Infections in the healthcare setting

The number of healthcare-setting-acquired infections had decreased from the peak in October, but is now very high. Nonetheless, when compared to the total burden of disease in the community (total cases per week) the level of infection in healthcare settings is significantly less than in April-May 2020



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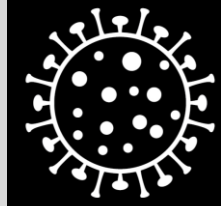
Number of cases per week recorded in CIDR as 'healthcare setting acquired' (bars) compared to the total number of cases per week (dotted line, referred to the secondary y-axis). Cases dated by event date. Tests outsourced to German laboratory in April backdated, using the specimen collection date, to the date they would have been confirmed if tested in a timely manner.



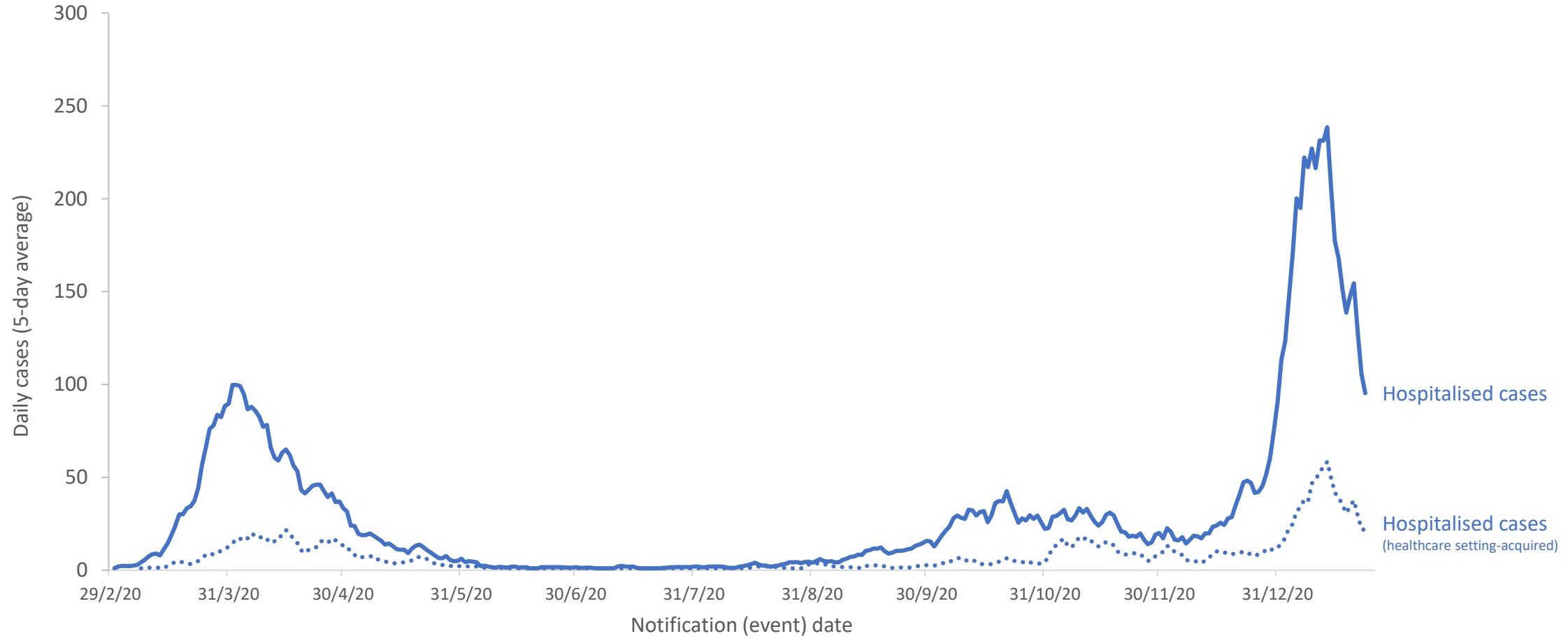
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Hospital-acquired infection

The daily average number of cases that are hospitalised, and the daily average number of hospitalised cases that are notified as having been acquired in a healthcare setting. Hospital-acquired infections occur in the latter part of each surge of disease, and in each of the three surges hospital-acquired infections account for 20-30% of hospitalised cases.



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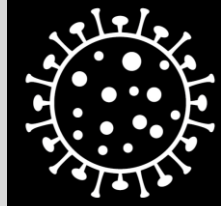
The daily average number of cases that are hospitalised (solid line), and the daily average number of hospitalised cases where the infection is notified as having been acquired by the patient in a healthcare setting (dotted line). Cases dated by notification (event) date. Tests outsourced to German laboratory in April backdated, using the specimen collection date, to the date they would have been confirmed if tested in a timely manner.



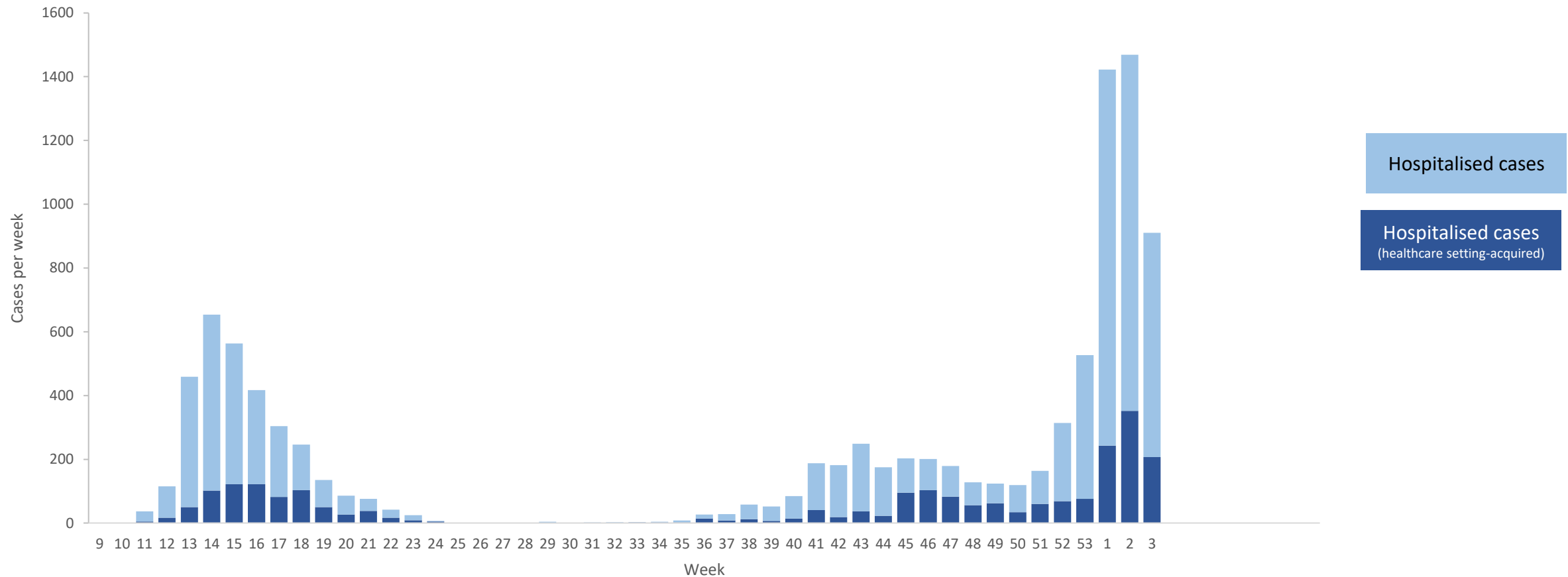
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Hospital-acquired infection

The number of cases that are hospitalised, and the number of hospitalised cases that are notified as having been acquired in a healthcare setting. Hospital-acquired infections account for 20-30% of hospitalised cases.



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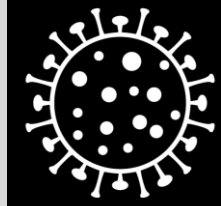
The weekly number of cases that are hospitalised (light blue), and the weekly number of hospitalised cases where the infection is notified as having been acquired by the patient in a healthcare setting (dark blue). Cases dated by notification (event) date. Tests outsourced to German laboratory in April backdated, using the specimen collection date, to the date they would have been confirmed if tested in a timely manner.



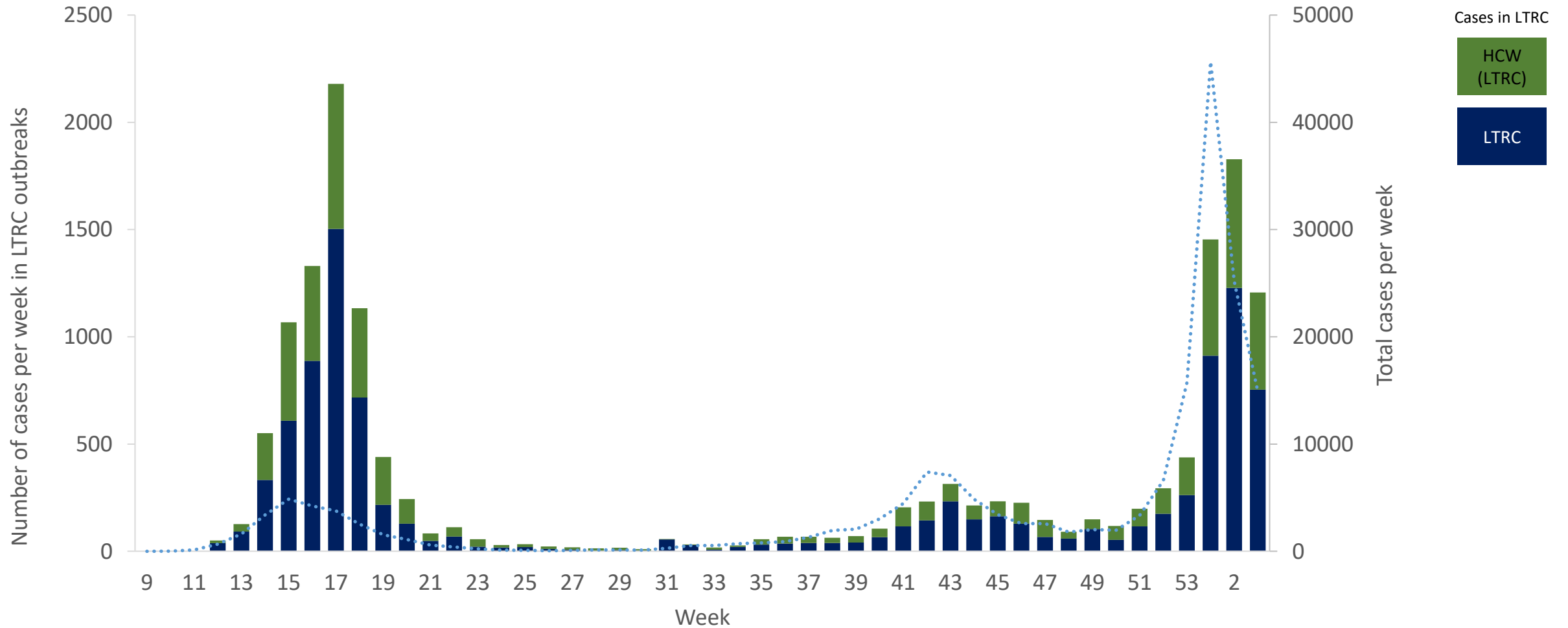
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Cases in long-term residential settings

The number of cases in LTRC was less in the second wave compared to the first; however, the number of cases linked to outbreaks in LTRC, following the unprecedented levels of infection in the community, is now very high, similar to the numbers seen in April and May 2020. Nonetheless, when compared to the total burden of disease in the community (total cases per week) the level of infection in LTRC is significantly less than in April-May 2020



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Number of cases per week linked to outbreaks in long-term residential care (bars) compared to the total number of cases per week (dotted line, referred to the secondary y-axis). LTRC: cases amongst residents in outbreaks in long-term residential settings.

HCW (LTRC): Cases in healthcare workers associated with outbreaks in LTRC.



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Test & Trace Update

Testing/sampling and contact tracing NPHET update

Sampling



Over the past seven days, 20th-26th Jan, there has been approximately 138,772 swabs taken for COVID-19 testing.

Of these:

- 57,102 (41%) of these were taken in the community
- 47,913 (35%) swabs were taken in acute settings.
- 33,757 (24%) swabs taken were taken as part of the Serial Testing programmes of staff in residential care facilities and staff in food production facilities.

Contact Tracing

As of 27th January, of those tested with close contacts, the average number of close contacts per case was 2.8.

From Friday, 29th January, the HSE reports it will recommence automatic testing of close contacts (one test on Day 5 initially) and recommence the three call structure which enables the gathering of enhanced data.

Turnaround Times (20th– 26th Jan)

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 **1.4 days**.
- The median turnaround time for time, from referral to communication of a **detected result** by SMS, in community settings was **1.7 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: 26 hours in Acute , 24 hours in Serial Testing, 27 hours in Community

Referral to appointment

In the community, the median time from referral to appointment was 0.1 days.

94.2% of GP 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 5.1 hours and 2.7 hours, respectively.

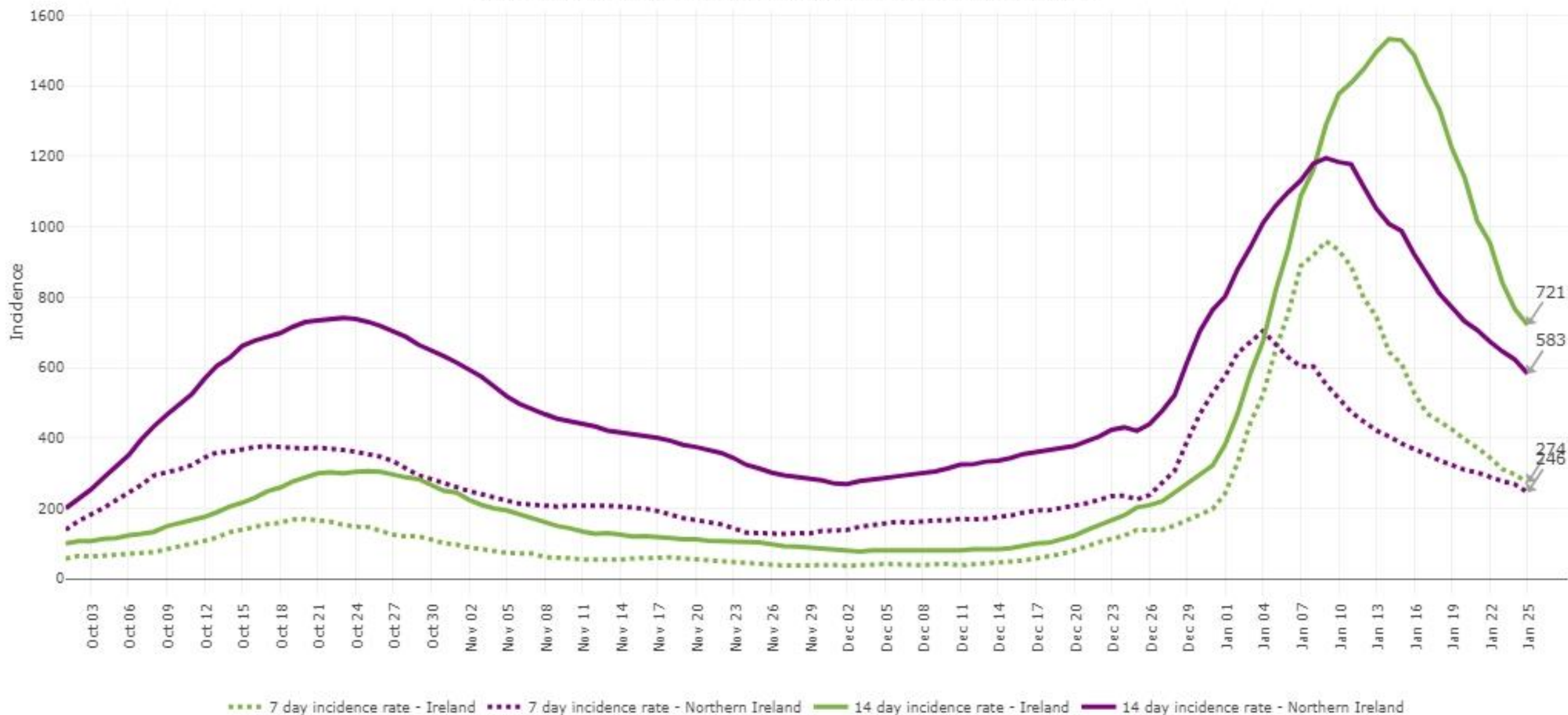
CMP close contact update (week ending 24th Jan)



- The number of close contacts captured during the week ending January 24th was 23,700, a decrease of 37% compared to the previous week.
- In total, 23,043 (93%) of the contacts created between the 18th and 24th of January have been informed of their close contact status at the time of report preparation.
- The number of complex contact episodes decreased by 25% to 4,969.

Source: HSE – CMP report

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 270121 and health-ni.gov.uk daily data 26/01/20.

Age specific sentinel GP ILI consultation rates per 100,000 population by week and age specific thresholds



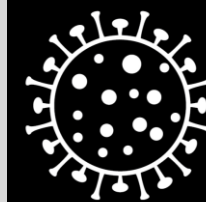
Sentinel GP ILI consultation/100,000 pop.	Week of Consultation																
	40	41	42	43	44	45	46	47	48	49	50	51	52	53	1	2	3
All Ages	21.9	33.5	31.4	35.3	15.7	16.8	15.6	17.7	19.2	21.6	28.1	41.9	42.7	63.0	120.4	70.2	42.5
<15 yrs	17.6	24.5	26.4	30.2	9.5	15.2	23.5	17.7	26.6	23.6	31.3	39.0	29.3	18.8	37.1	21.4	26.5
15-64 yrs	23.8	40.1	35.2	38.6	17.9	18.0	12.7	18.8	18.2	21.3	27.3	44.3	46.2	73.9	155.7	89.4	49.8
≥65 yrs	19.4	15.5	20.9	27.6	15.0	13.4	17.3	12.7	12.4	19.9	27.2	34.5	46.2	79.2	78.9	53.1	32.0
Number of reporting practices (N=60)	51	55	55	56	57	54	58	57	58	58	58	58	58	58	56	58	57

MEM Threshold Levels	Below Baseline	Low	Moderate	High	Extraordinary
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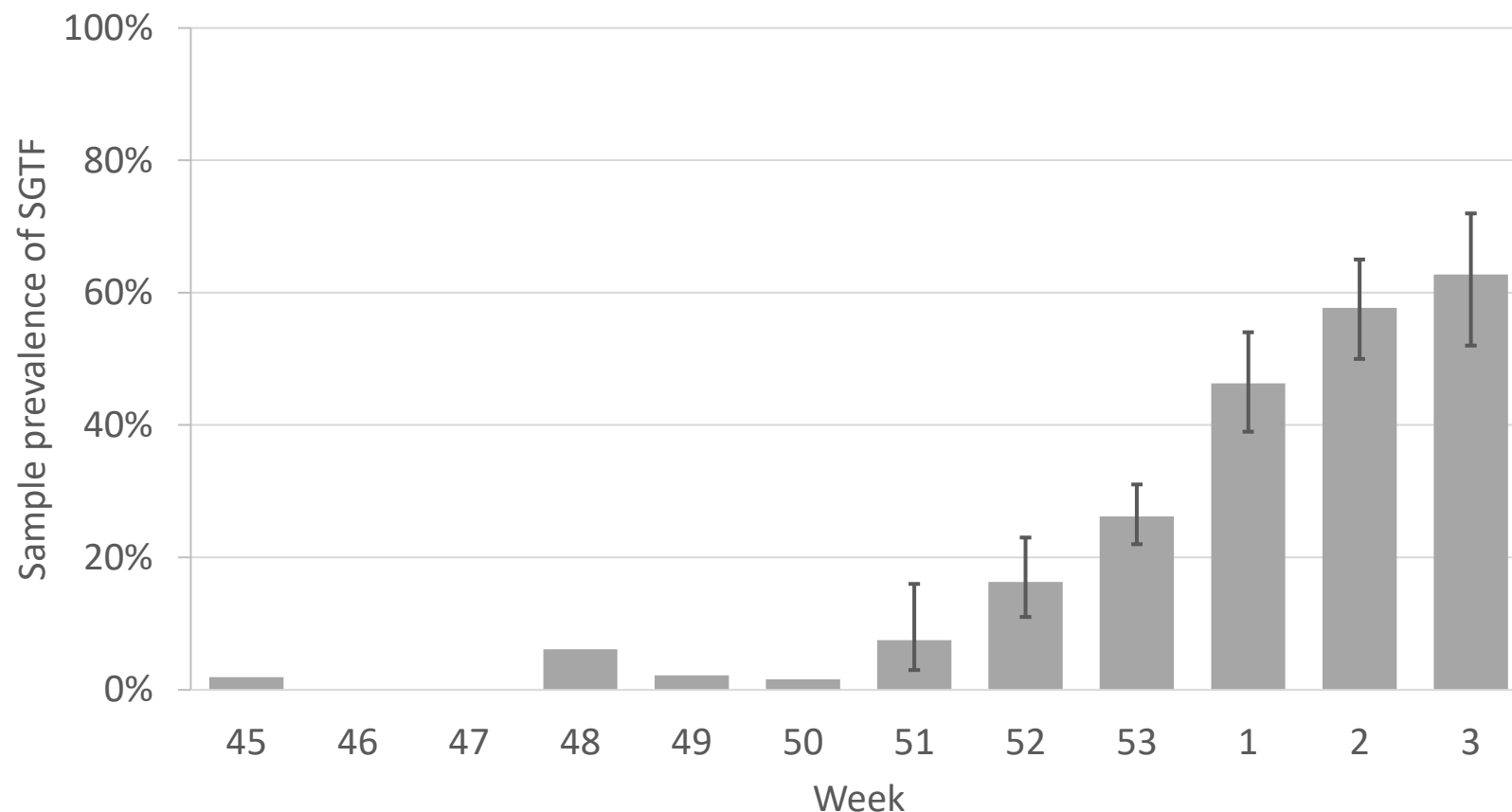
- Moving Epidemic Method (MEM) threshold levels are colour coded – the MEM method is recommended internationally and by ECDC to establish thresholds for influenza-like illness (ILI)/influenza*

New (B.1.1.7) variant – S gene target failure

S gene target failure (SGTF) is a marker for the new B.1.1.7 variant. The data are compatible with this variant being introduced, with a number of separate introductions in November and December, and spreading rapidly in late December, at which point it is likely to have begun to contribute to increased transmission. The current suppression may have slowed the path to dominance of the variant.



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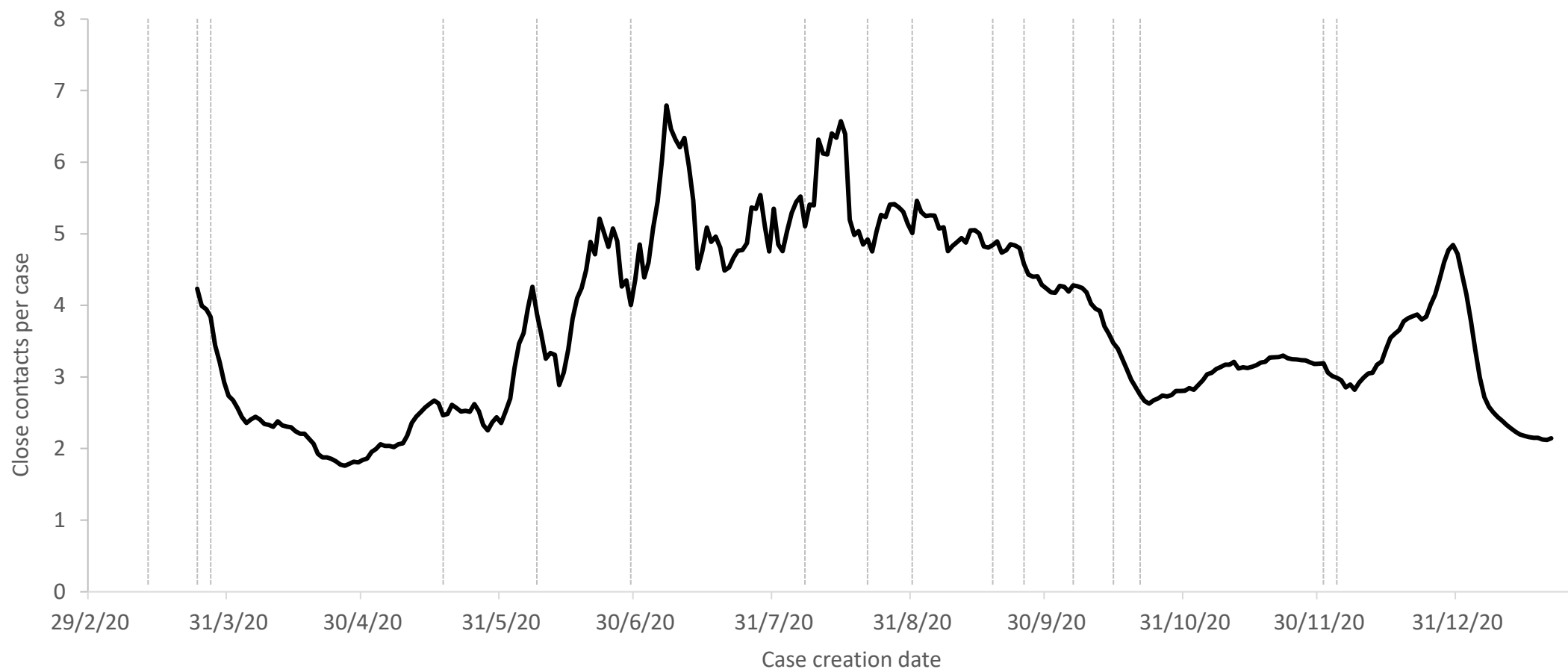
WEEK	SGTF	SAMPLE	SAMPLE PREVALENCE
45	1	52	2%
46	0	35	0%
47	0	32	0%
48	3	49	6%
49	1	46	2%
50	2	128	2%
51	6	80	8%
52	29	178	16%
53	111	424	26%
1	87	188	46%
2	90	156	58%
3	59	94	63%



Growth in Cases & R number

Close contacts of adult confirmed cases

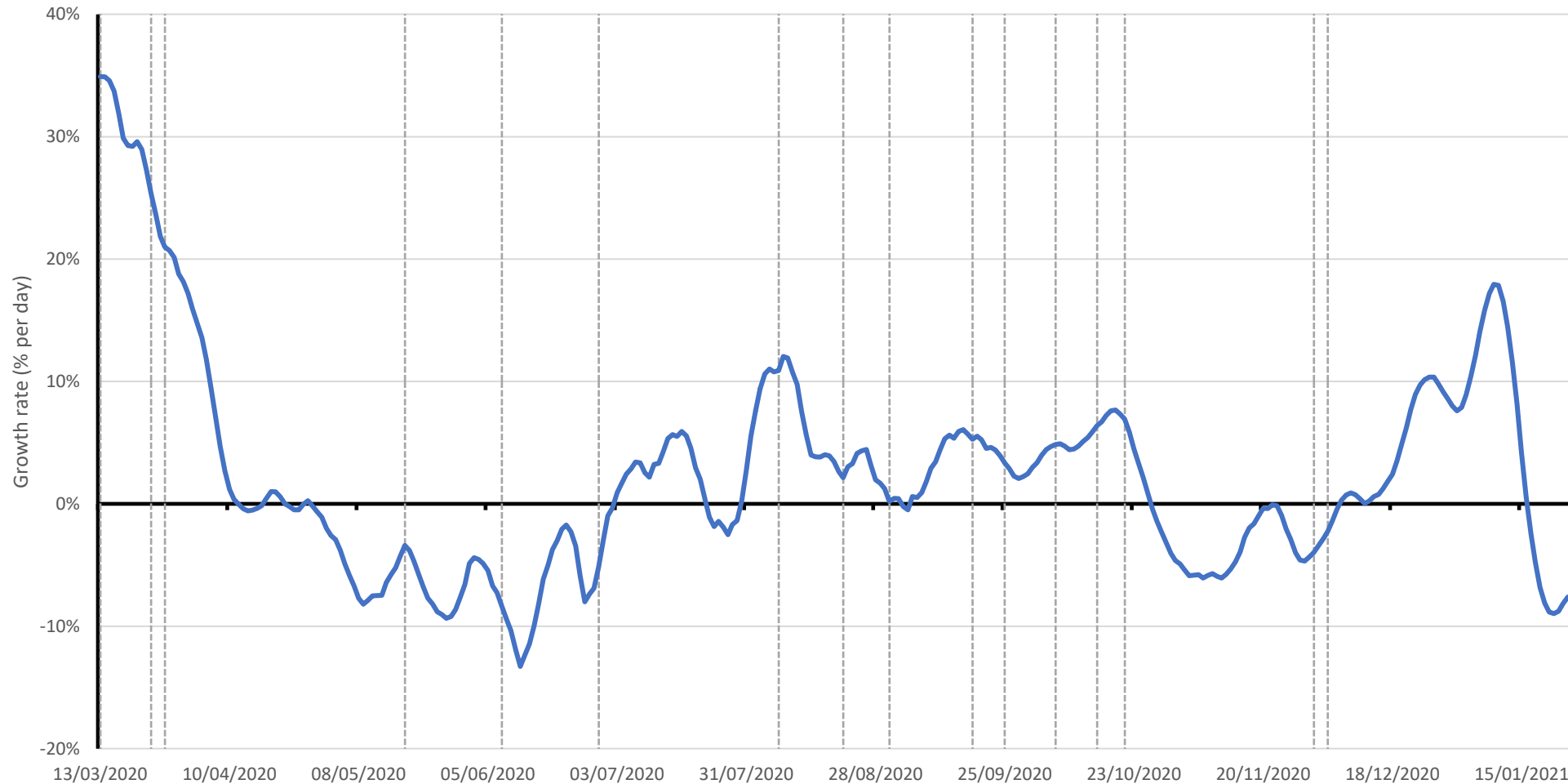
The mean number of close contacts per confirmed case. The number of contacts was very low (2 or less) during April, but increased to 5-6 per case during the summer. The progressive escalation of public health measures during October was associated with a progressive reduction in close contacts, to below 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 is now at a very low level (2.1 contacts)



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

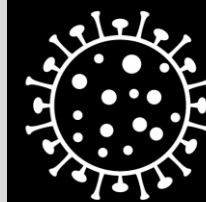
Growth rate peaked at almost 18% per day over the 14-day period up to 10 January 2021; case numbers are now decreasing at -7% to -9% per day



Growth rate calculated as the average growth rate over a 14-day trailing window; cases dated by notification (event) date.

Estimates of effective reproduction number (R)

Reproduction number is below 1.0, estimated at 0.4 – 0.7



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Method	Estimate	95% confidence interval
SEIR model-inferred	0.26	0.07 – 0.46
Bayesian model	0.43	0.23 – 0.93
Time-dependent R	0.68	0.63 – 0.73
GAM estimate 12 Jan 2021	0.77	0.64 – 0.91
GAM estimate 19 Jan 2021	0.54	0.41 – 0.68

Estimates generated 28 January 2021, refer to IEMAG technical notes for methodology. Estimates are unreliable when case numbers are low or variable. SEIR-inferred estimate is slow to respond to changes in R. The time-dependent R estimate lags behind other estimates. These R estimates relate to viral transmissions and infections that occurred approximately 7-14 days ago. The estimate of R is influenced by different patterns of transmission in large outbreaks, smaller clusters, and individual transmission.



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Situation analysis 28 January 2021



- **Incidence** is falling but remains **high**
- Cases (5-day average) **1252 cases per day**; 14-day incidence **674 per 100,000**
 - Incidence high across **all age groups, exceptionally high in those aged 85 and older**
- We, collectively, have achieved suppression of transmission
 - Rate of decline continues at -7 to -9%, halving time 8-10 days
 - **R estimated at 0.4 – 0.7**
- **Numbers in hospital decreasing, numbers in ICU plateaued**
 - New admissions decreasing
- **Very high incidence in long-term care settings and vulnerable groups**
- **High mortality**
- We are maintaining an extraordinary effort but still we have a long way to go: we need to **maintain full suppression for several weeks** to protect each other from serious illness, and to protect our health services and healthcare workers, and to give ourselves strategic options for the future.



European Data

EU/UK ranked by 14 day percentage change (26th January)

EU/EEA and the UK	14 day incidence	Previous 14 day incidence	% change in 14 day incidence
Spain	1053.6	521.3	102%
Portugal	1542.9	946.9	63%
France	420.0	357.3	18%
Finland	74.2	64.8	14%
Belgium	253.0	223.6	13%
Malta	505.1	504.6	0%
Estonia	542.2	592.1	-8%
Latvia	591.0	694.6	-15%
Austria	258.8	316.2	-18%
Luxembourg	266.9	334.4	-20%
Greece	69.1	86.8	-20%
Italy	302.2	390.0	-23%
Slovenia	876.7	1168.0	-25%
Romania	200.0	280.2	-29%
Germany	233.6	329.7	-29%
Netherlands	435.5	621.5	-30%
Poland	229.7	336.0	-32%
United Kingdom	776.3	1153.9	-33%
Slovakia	497.1	756.3	-34%
Czechia	953.8	1490.3	-36%
Sweden	489.4	775.6	-37%
Bulgaria	94.1	149.5	-37%
Hungary	171.1	277.2	-38%
Lithuania	609.3	994.1	-39%
Croatia	207.5	350.4	-41%
Ireland	693.8	1360.0	-49%
Denmark	209.9	438.6	-52%
Cyprus	268.9	751.5	-64%

- As of 16th 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 incidence (26th January)

EU/EEA and the UK	14 day incidence	Previous 14 day incidence	% change in 14 day incidence
Portugal	1542.9	946.9	63%
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United Kingdom	776.3	1153.9	-33%
Ireland	693.8	1360.0	-49%
Lithuania	609.3	994.1	-39%
Latvia	591.0	694.6	-15%
Estonia	542.2	592.1	-8%
Malta	505.1	504.6	0%
Slovakia	497.1	756.3	-34%
Sweden	489.4	775.6	-37%
Netherlands	435.5	621.5	-30%
France	420.0	357.3	18%
Italy	302.2	390.0	-23%
Cyprus	268.9	751.5	-64%
Luxembourg	266.9	334.4	-20%
Austria	258.8	316.2	-18%
Belgium	253.0	223.6	13%
Germany	233.6	329.7	-29%
Poland	229.7	336.0	-32%
Denmark	209.9	438.6	-52%
Croatia	207.5	350.4	-41%
Romania	200.0	280.2	-29%
Hungary	171.1	277.2	-38%
Bulgaria	94.1	149.5	-37%
Finland	74.2	64.8	14%
Greece	69.1	86.8	-20%

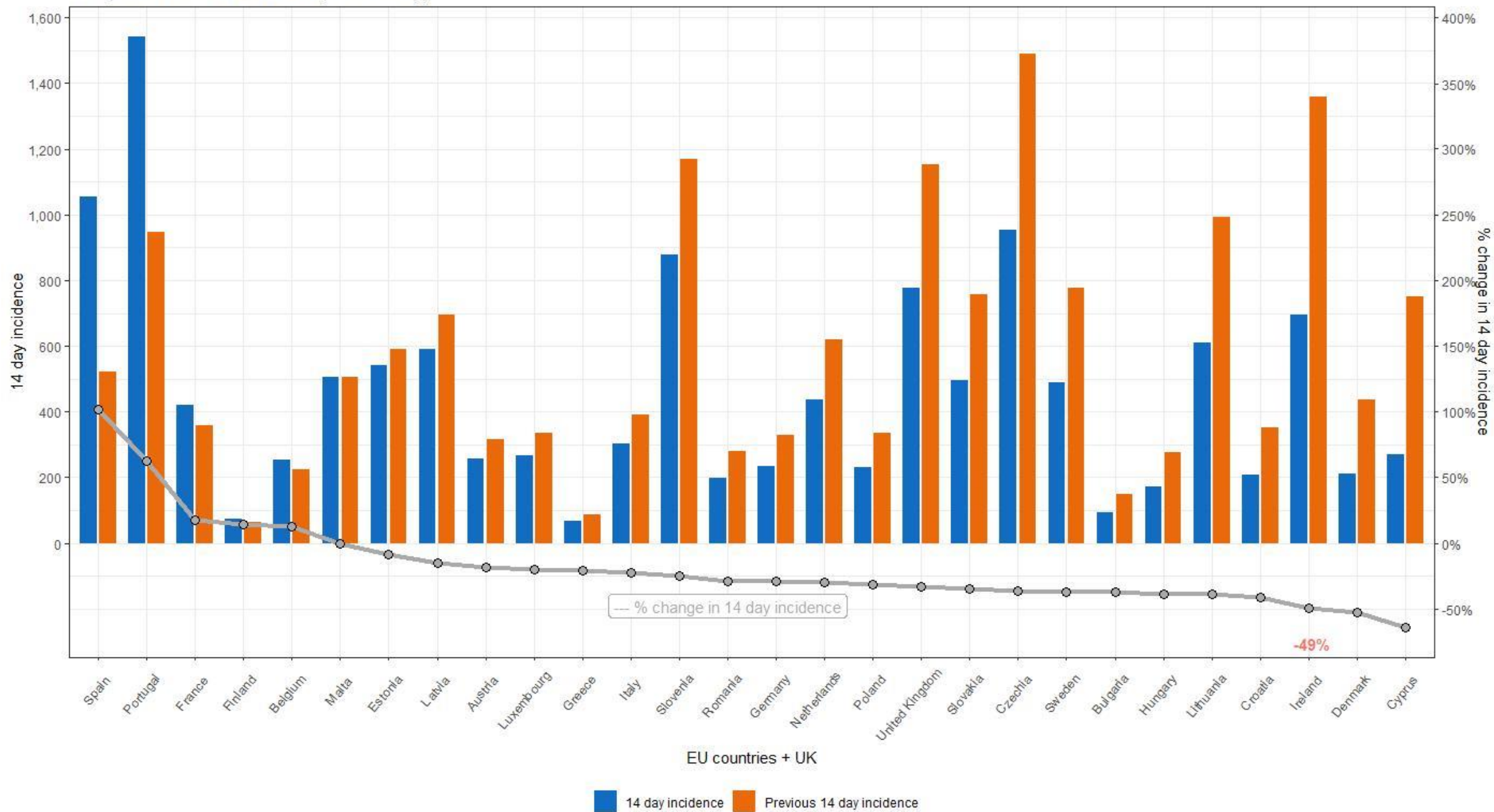
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EU/UK ranked by 7 day percentage change (26th January)

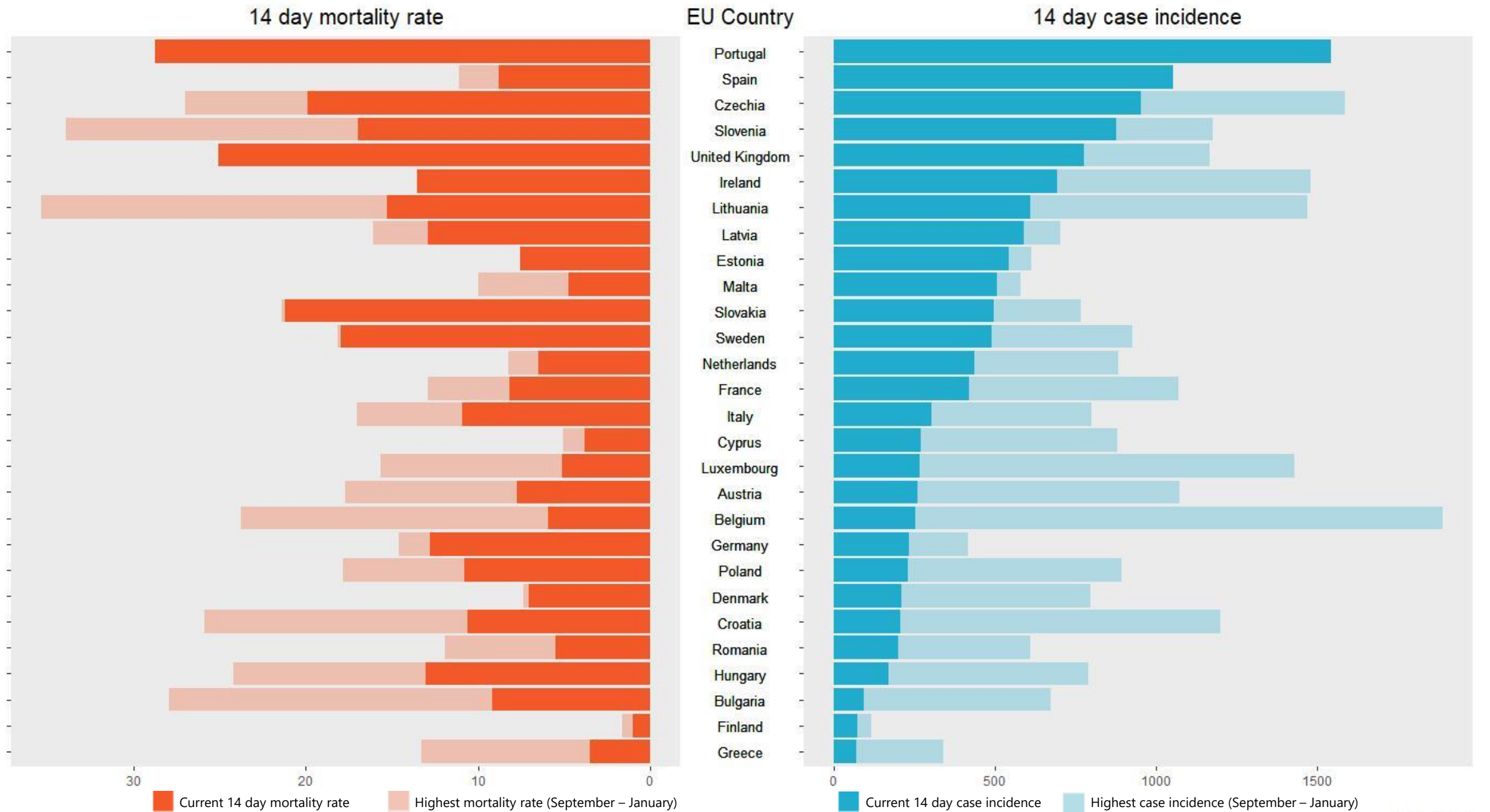
EU/EEA and the UK	7 day incidence	Previous 7 day incidence	% change in 7 day incidence
Finland	43.3	30.9	40%
Lithuania	338.9	270.4	25%
Portugal	852.4	690.5	23%
Bulgaria	50.2	43.8	15%
Spain	554.1	499.5	11%
Belgium	132.8	120.2	11%
Luxembourg	140.1	126.8	10%
Greece	36.1	33.0	9%
France	217.1	202.9	7%
Netherlands	208.1	227.4	-8%
Slovenia	417.3	459.4	-9%
Malta	239.4	265.7	-10%
Germany	110.3	123.3	-11%
Estonia	255.5	286.7	-11%
Italy	141.2	161.0	-12%
Latvia	275.9	315.1	-12%
Sweden	228.0	261.4	-13%
Czechia	443.0	510.8	-13%
Hungary	78.7	92.4	-15%
Austria	119.0	139.8	-15%
Romania	91.2	108.8	-16%
Slovakia	225.7	271.4	-17%
Croatia	93.9	113.7	-17%
Poland	102.8	126.9	-19%
Denmark	92.1	117.8	-22%
United Kingdom	329.2	447.1	-26%
Cyprus	109.4	159.5	-31%
Ireland	263.5	430.3	-39%

- As of 16th 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>

European 14 incidence rates (26 January)



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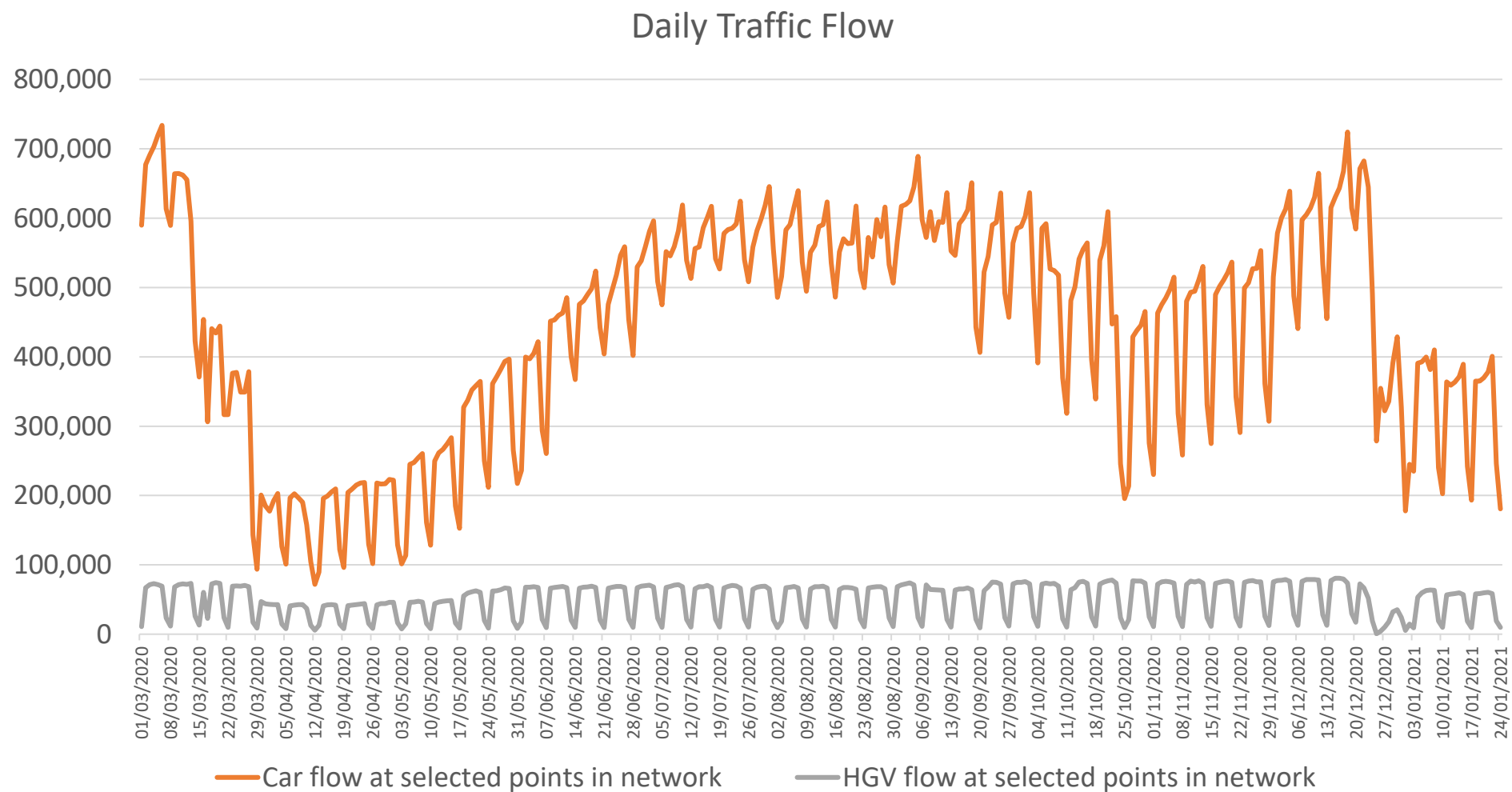


Updated 26 January

- As of 16th 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>

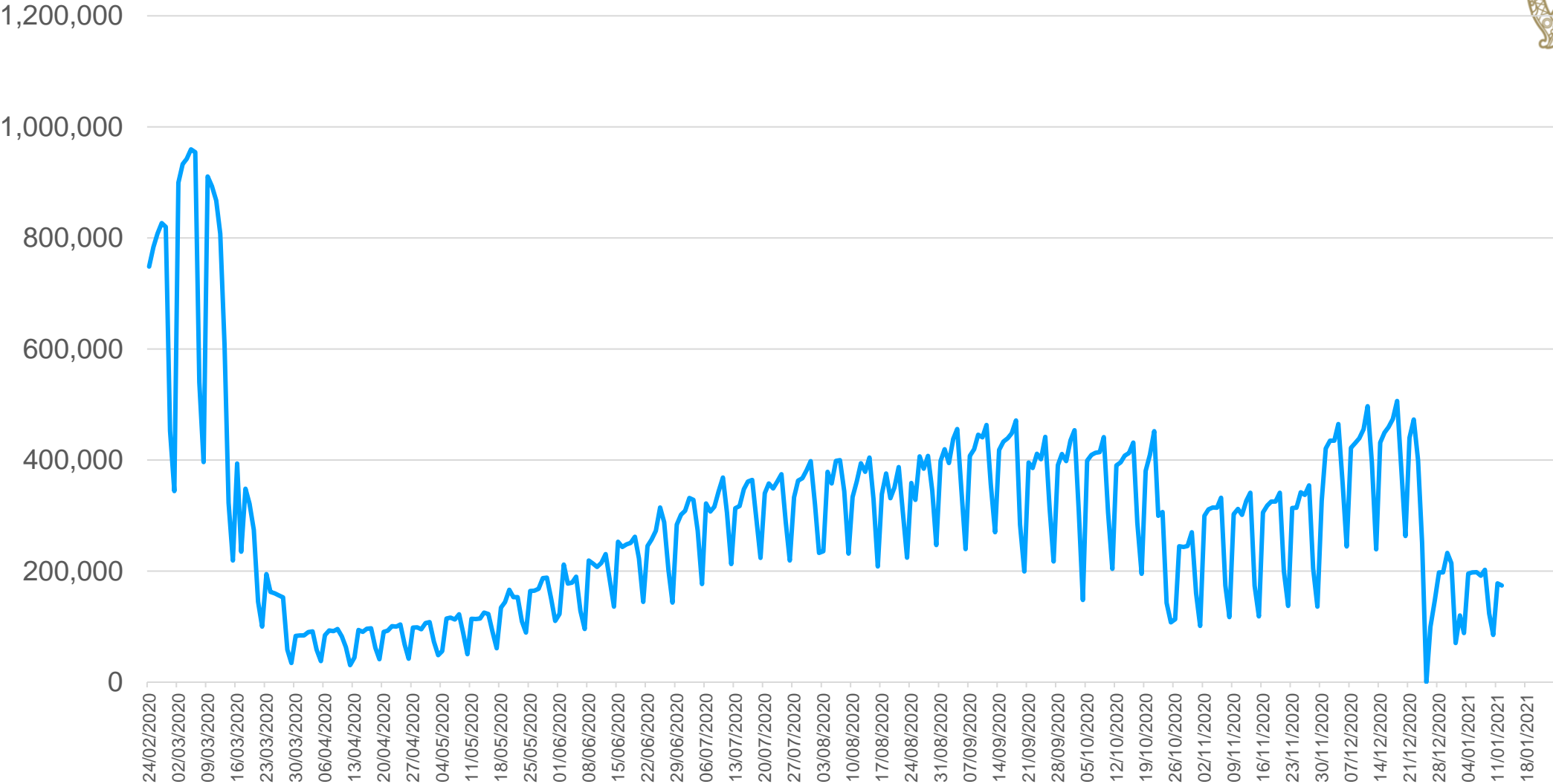


Compliance Data

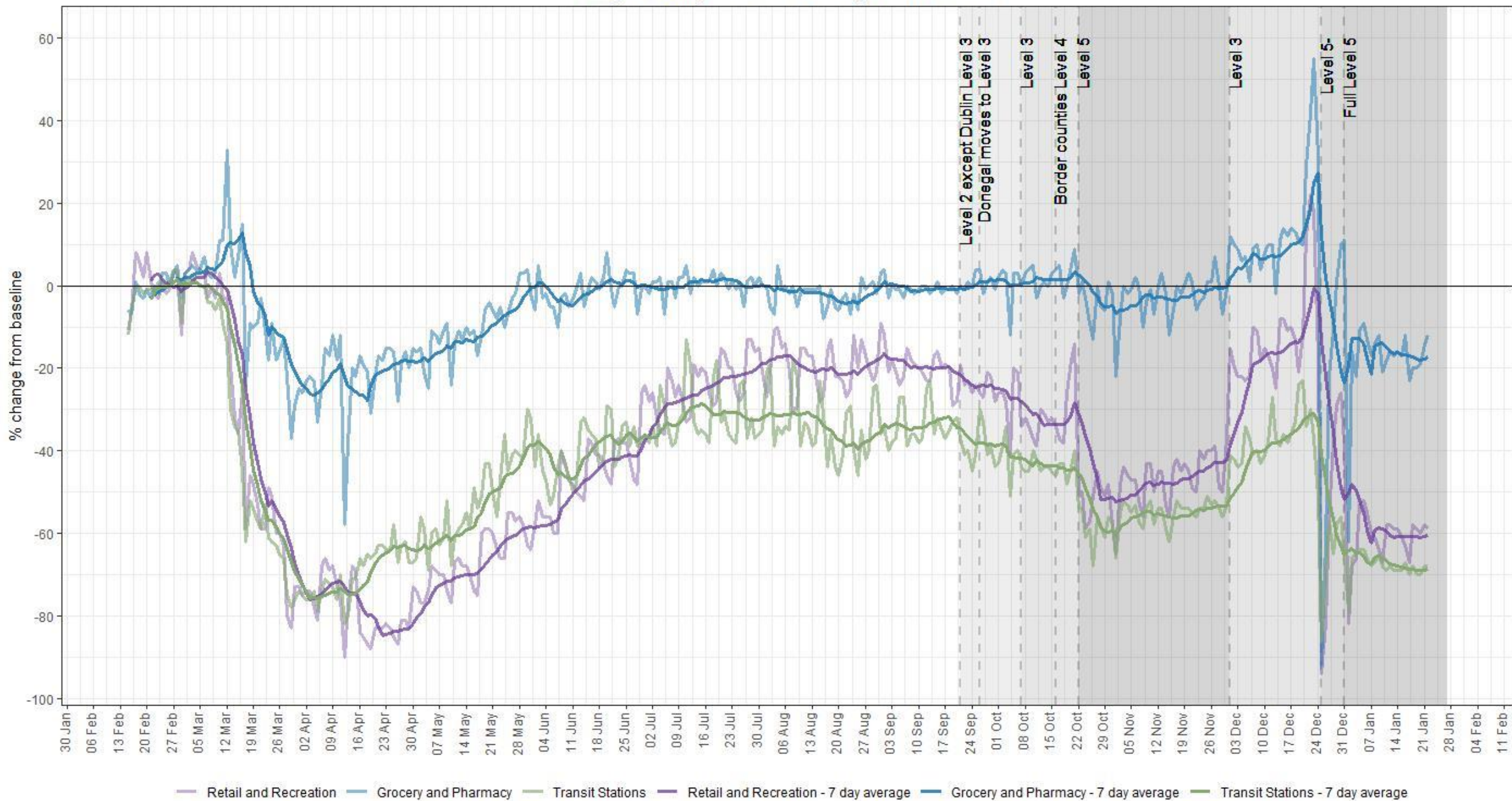




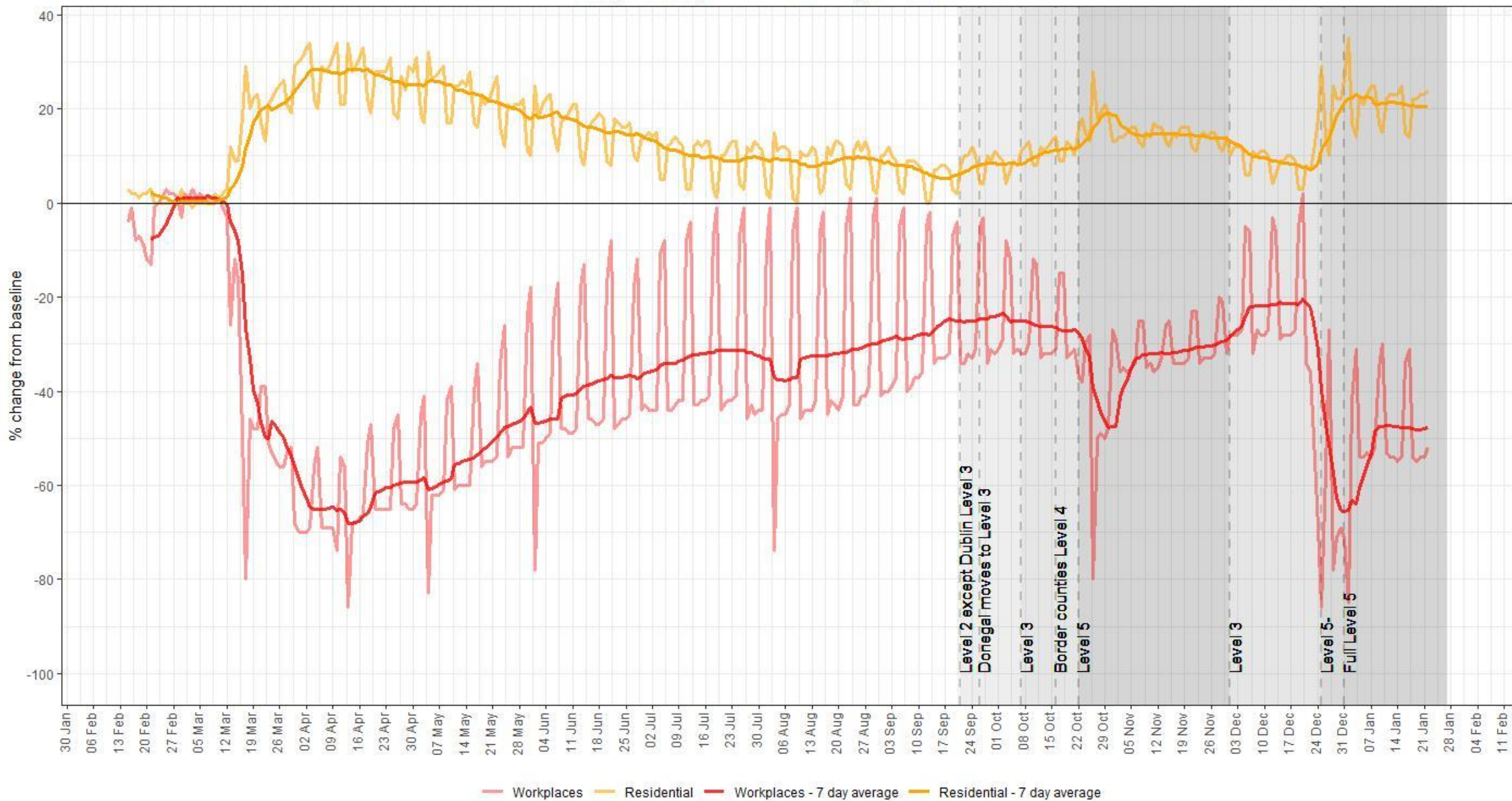
Overall Public Transport daily passengers



Google Mobility Ireland - % change from baseline



Google Mobility Ireland - % change from baseline



Apple Mobility Ireland - % change from baseline

