



An Roinn Sláinte
Department of Health

NPHET COVID Update 14th January 2021

Current situation



	01-Oct	26-Oct (2 nd wave peak 14 day inc.)	01-Dec	24-Dec	28-Dec	01-Jan	05-Jan	09-Jan	13-Jan
14-day incidence	96.12	306.29	86.94	166.01	220.02	321.16	673.58	1161.52	1448.80
5-day average cases	407.2	920.0	261.0	862.8	948.0	1479.4	4302.6	6543.6	4658.8
Total weekly cases	2608	7003	1894	5420	6646	9434	24851	43778	38051

	01-Oct	26-Oct (2 nd wave peak 14 day inc.)	01-Dec	24-Dec	28-Dec	01-Jan	05-Jan	09-Jan	13-Jan
No. Hospital (8.A.M)	122	344	224	255	360	508	817	1285	1750
No. in ICU (6.30 P.M)	22	40	30	23	27	42	75	107	160

	01-Oct	26-Oct (2 nd wave peak 14 day inc.)	01-Dec	25-Dec	29-Dec	02-Jan	06-Jan	10-Jan	13-Jan
Positivity rate (7 day average)	3.0%	6.1%	2.7%	5.3%	8.0%	14.3%	20.8%	21.9%	17.5%

	September	October	November	December	January
Total Deaths	37	126	163	170	182
Deaths associated with Nursing Home outbreaks	12	51	52	58	38
Deaths associated with Hospital outbreaks	7	25	59	48	23

Cases, numbers in hospital and intensive care

Case numbers have risen very rapidly. The number of people in hospital and ICU, and the number of admissions per day, is also increasing very quickly. The number of deaths per day is increasing.



	16 Apr	24 Jun	29 Jul	21 Oct	9 Dec	16 Dec	23 Dec	31 Dec	6 Jan	13 Jan	Daily count 13 Jan
Cases confirmed per day	547	10	18	1160	266	330	711	1243	4420	5436	3569
14-day incidence <i>per 100,000 population</i>	157	4.0	5.6	288	79	88	153	297	818	1449	
Hospital in-patients	858	42	11	279	288	198	222	365	676	1414	1750
<i>Hospital admissions per day</i>	56	2	2	23	14	14	22	43	94	146	148
ICU confirmed cases	147	15	5	32	30	33	29	31	63	133	172
<i>ICU admissions per day</i>	8	< 1	< 1	3	3	1	2	5	11	20	27
Deaths confirmed per day	32	< 1	< 1	5	4	5	6	7	11	23	62

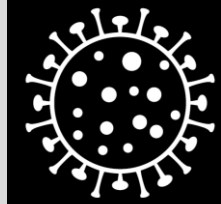
Data are 7-day averages (the indicated day and the preceding 6 days, rounded to the nearest whole number) with the exception of 14 day cumulative incidence, which is the total number of cases in the preceding 14 days per 100,000 population. NPHET monitors 5-day moving average and 14-day cumulative incidence 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.



Cases, Incidence Rates & Testing

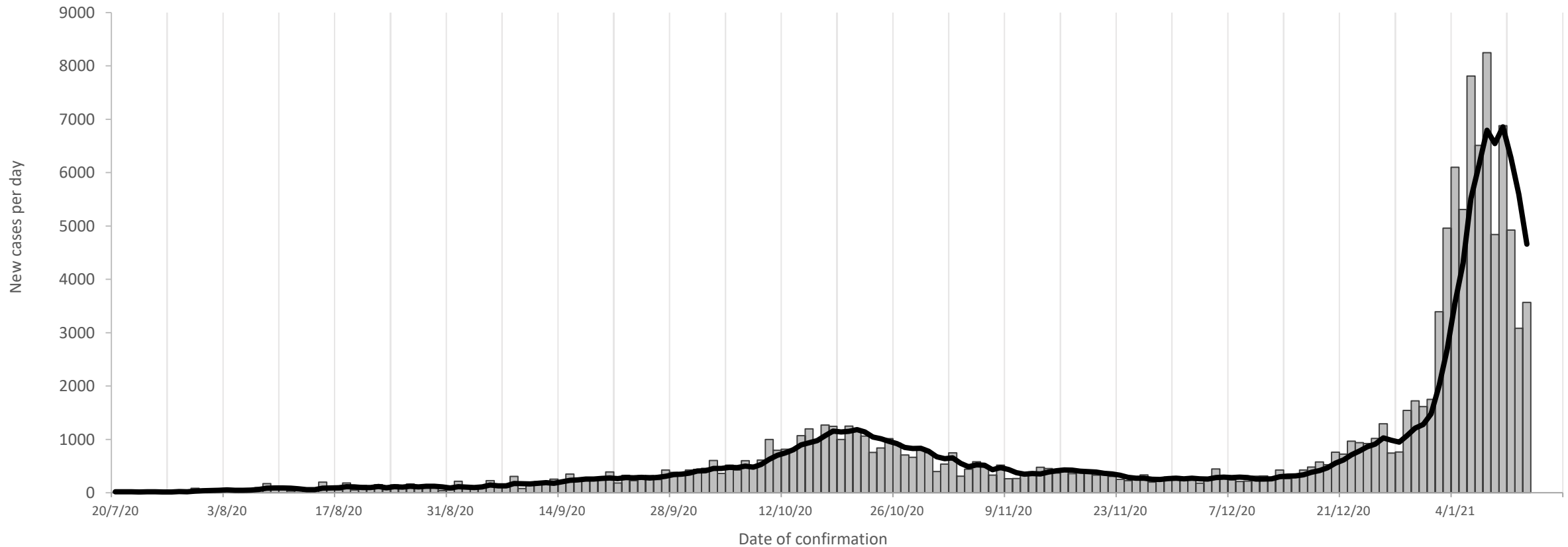
Confirmed cases each day

Daily and weekly count and 5-day rolling average. Case counts are much lower than in late October. The 5-day average peaked at 1186 on 21 October, reached a low of 251 on 28 November, and is now **4956**



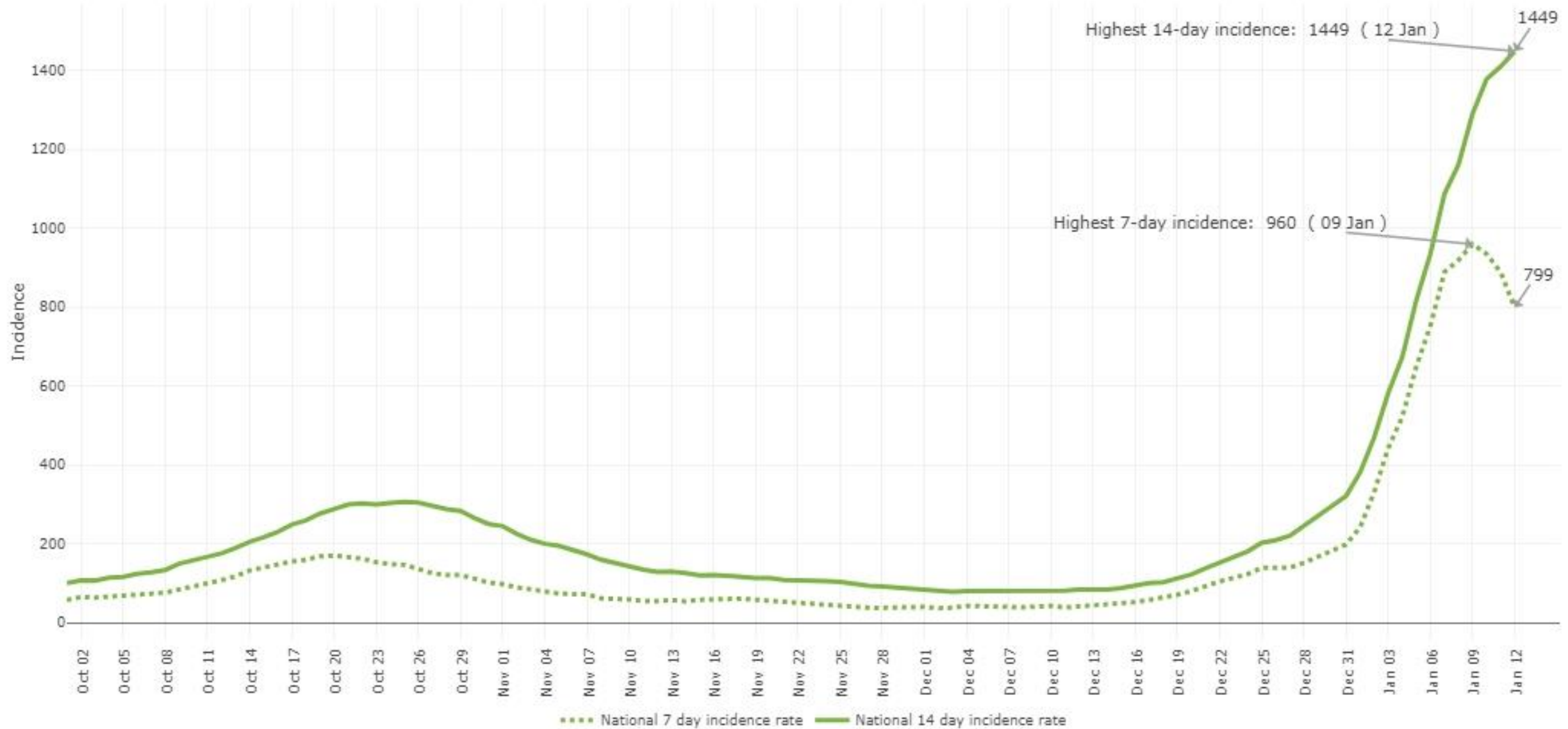
Coronavirus
COVID-19
Public Health
Advice

Cases per week	119	284	540	546	711	796	912	1303	1947	2060	3031	4458	7397	7073	4838	3424	2583	2580	1799	2028	1966	3368	6609	15671
----------------	-----	-----	-----	-----	-----	-----	-----	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-------

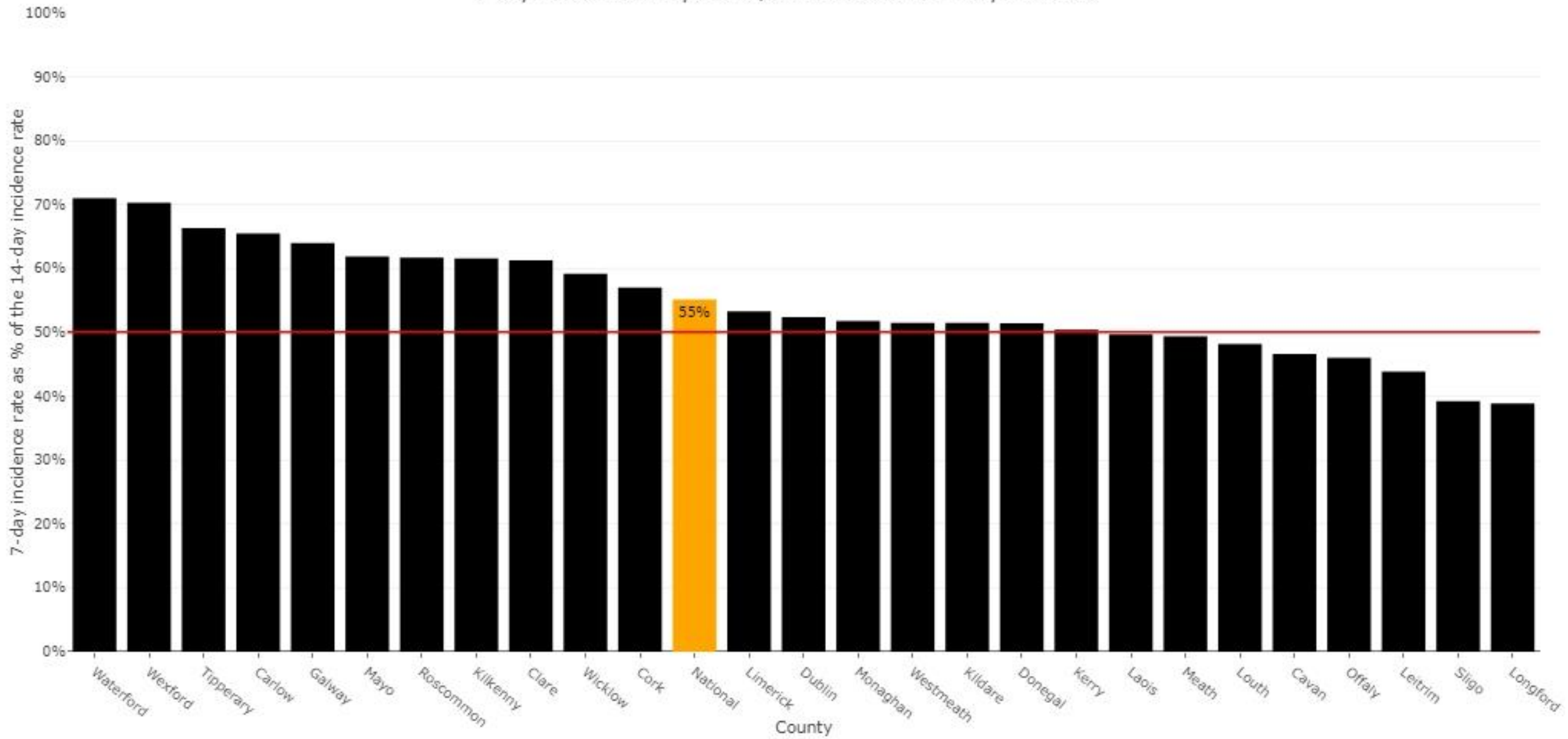


Daily count (bars) 5-day average (line) and weekly counts of the number of laboratory confirmed new cases by date on which they were confirmed by HPSC. Case counts may change due to denotification of cases. Weekly case counts are by event date from midnight Saturday to midnight Saturday.

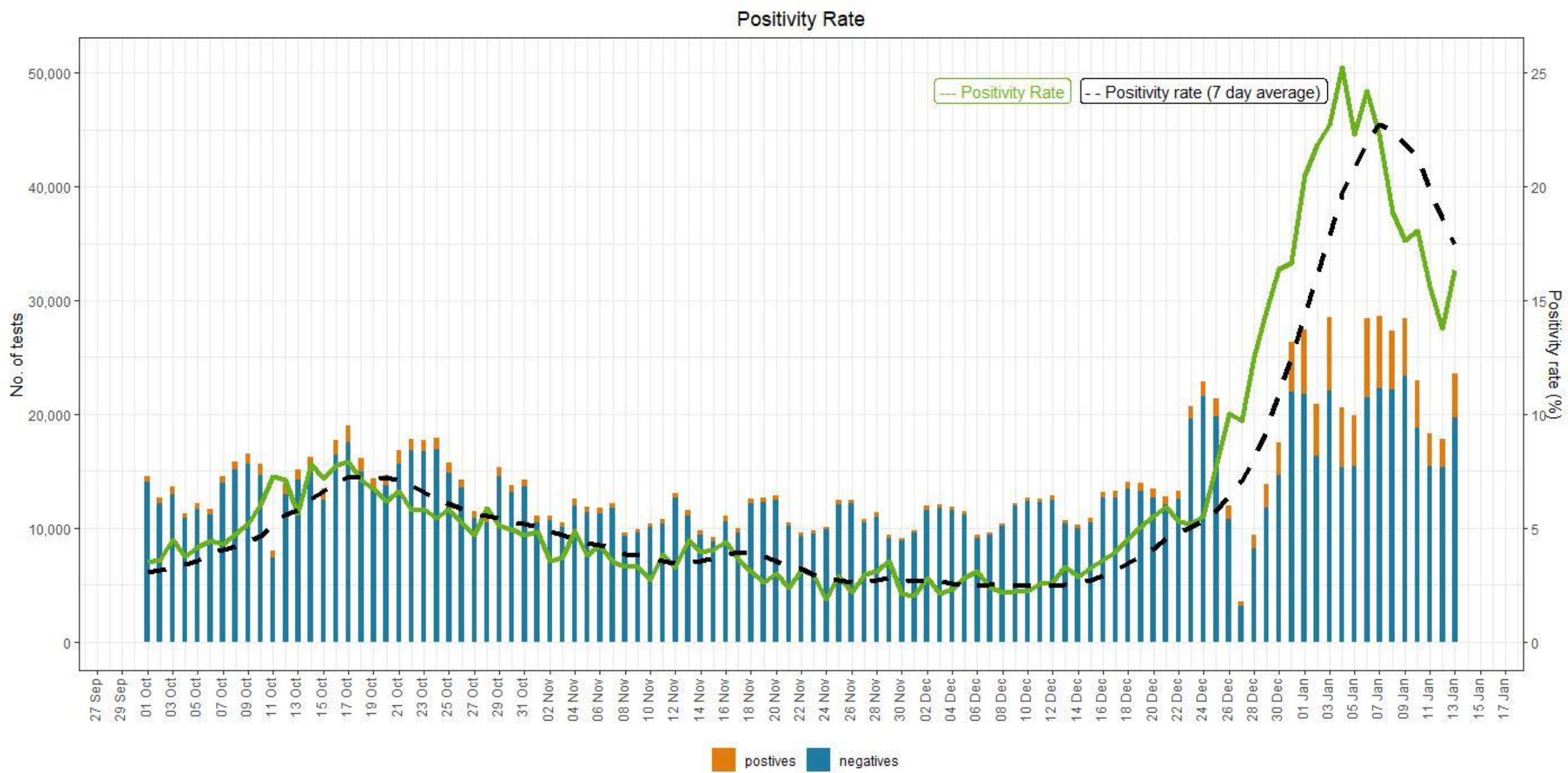
National 7 and 14 day Incidence rates



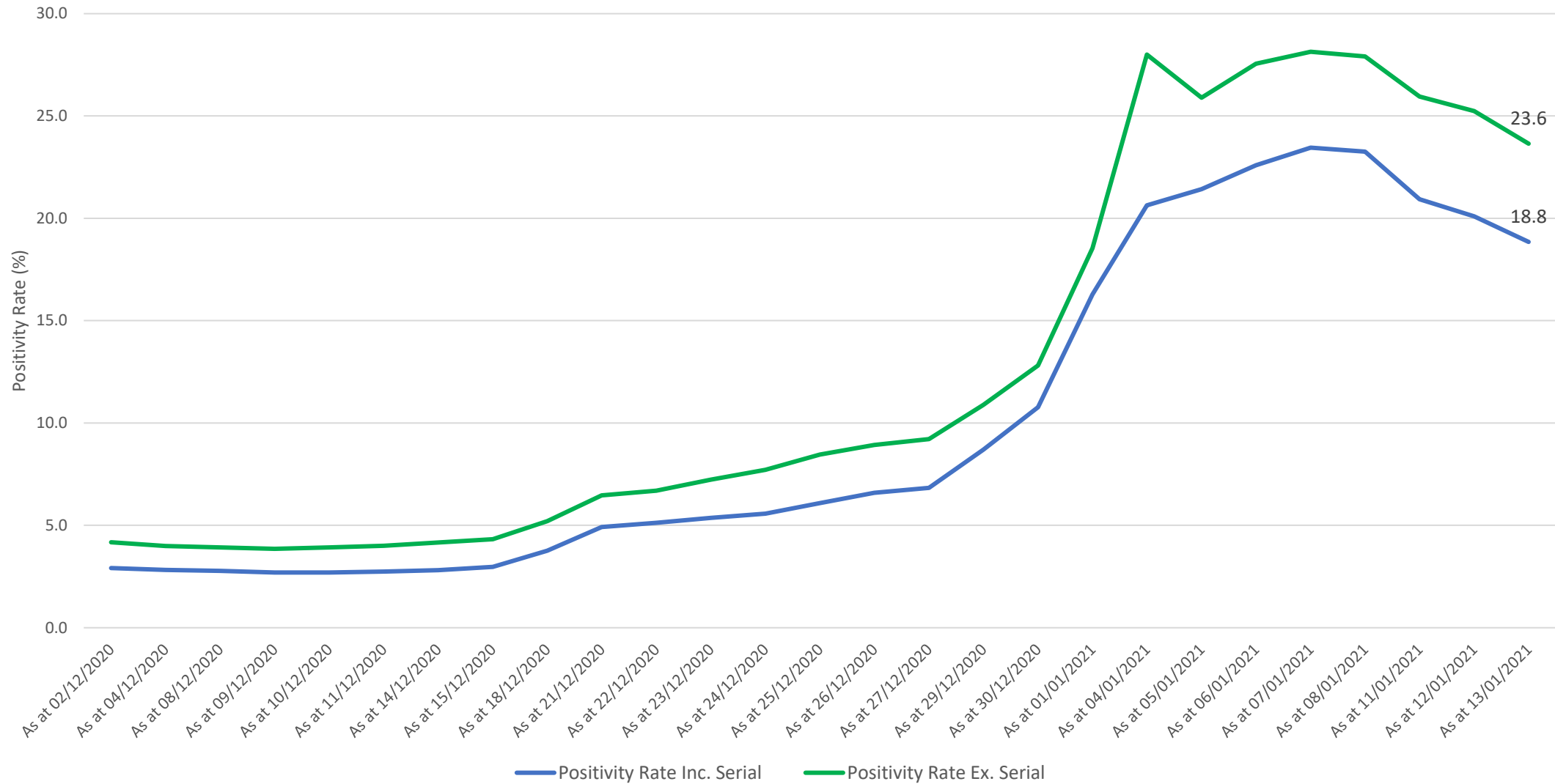
7-day incidence rate per 100,000 as % of the 14-day incidence



Recent trend in positivity rate

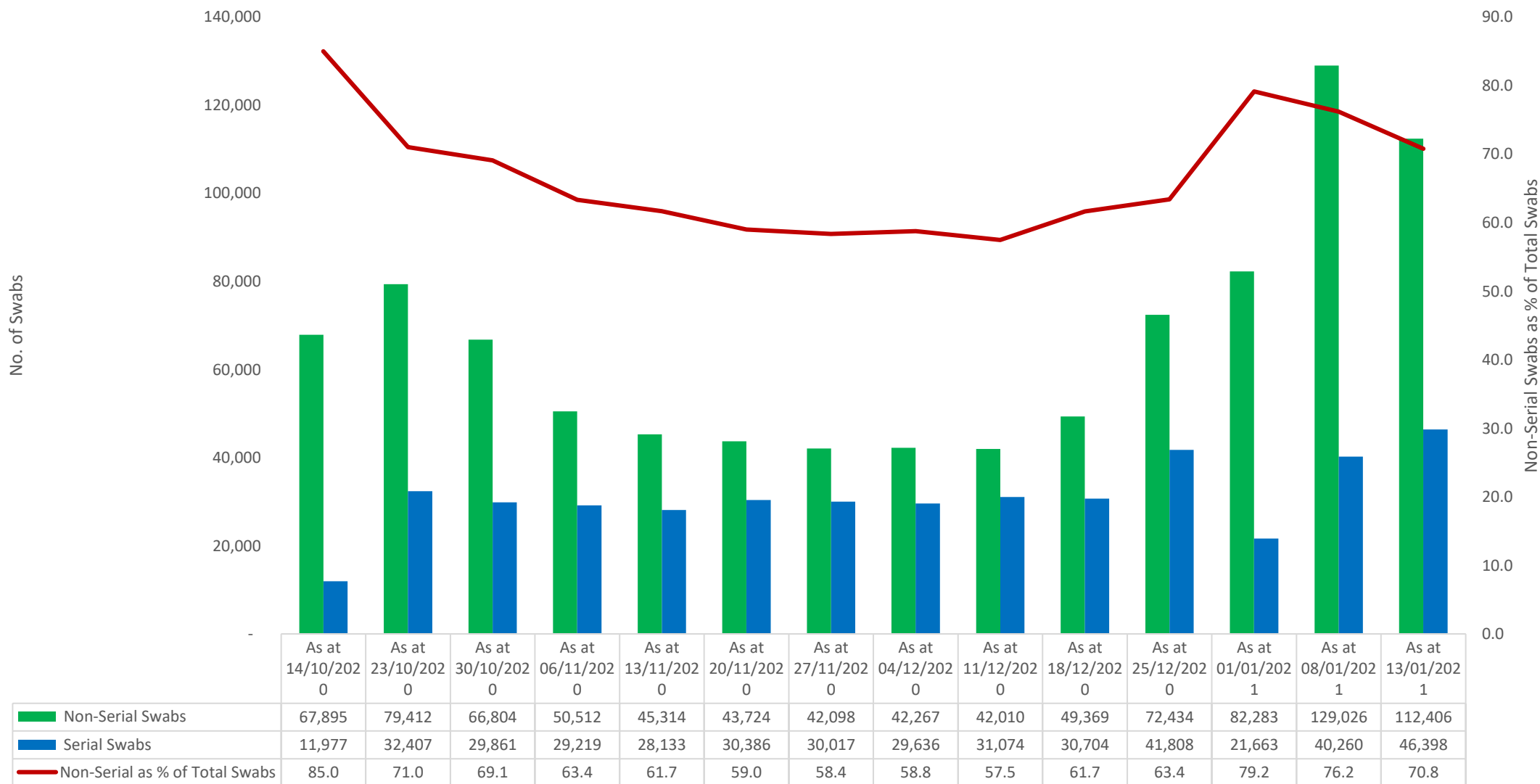


% Positivity Rate in Past 7 Days inc./ex. Serial Testing
(data not provided every day)

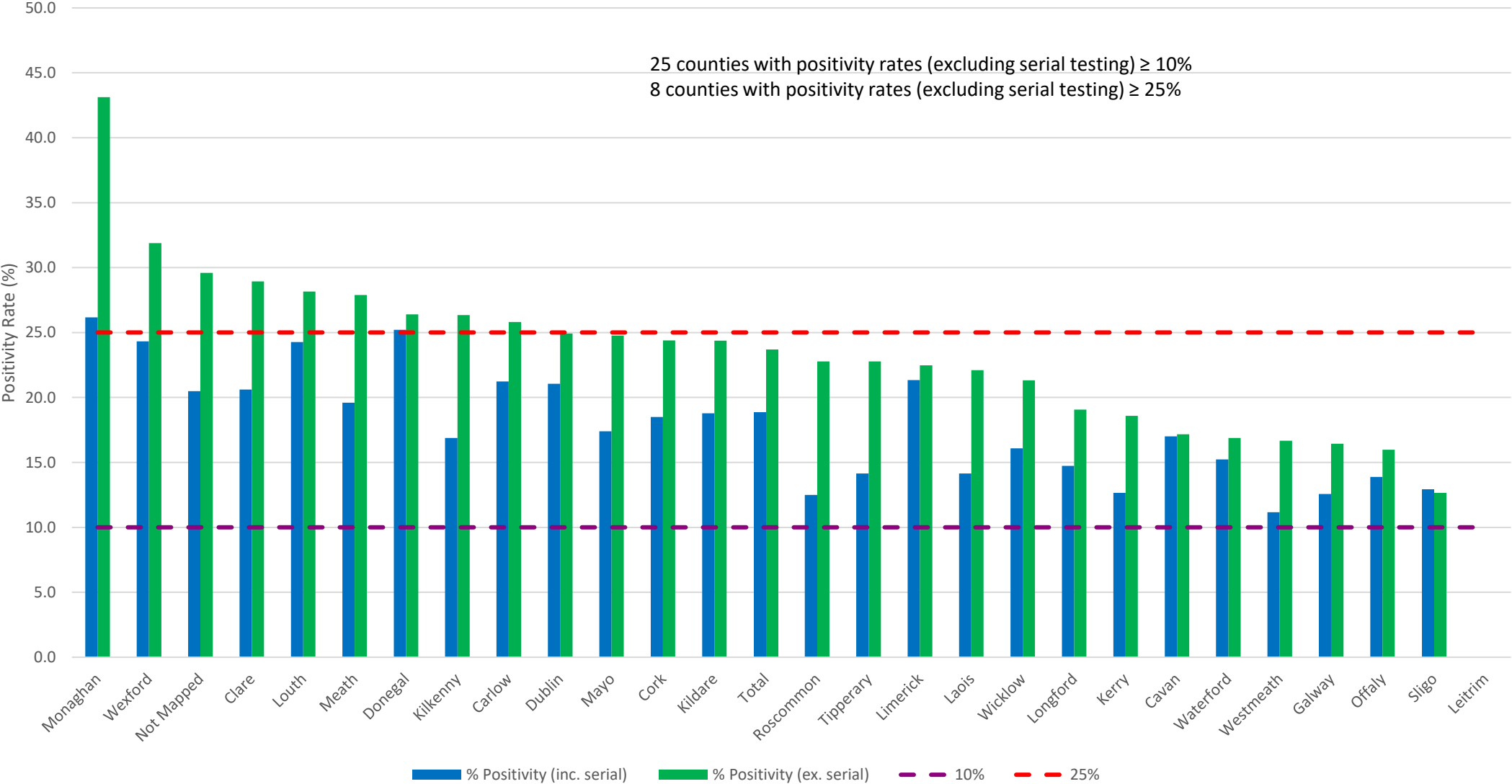




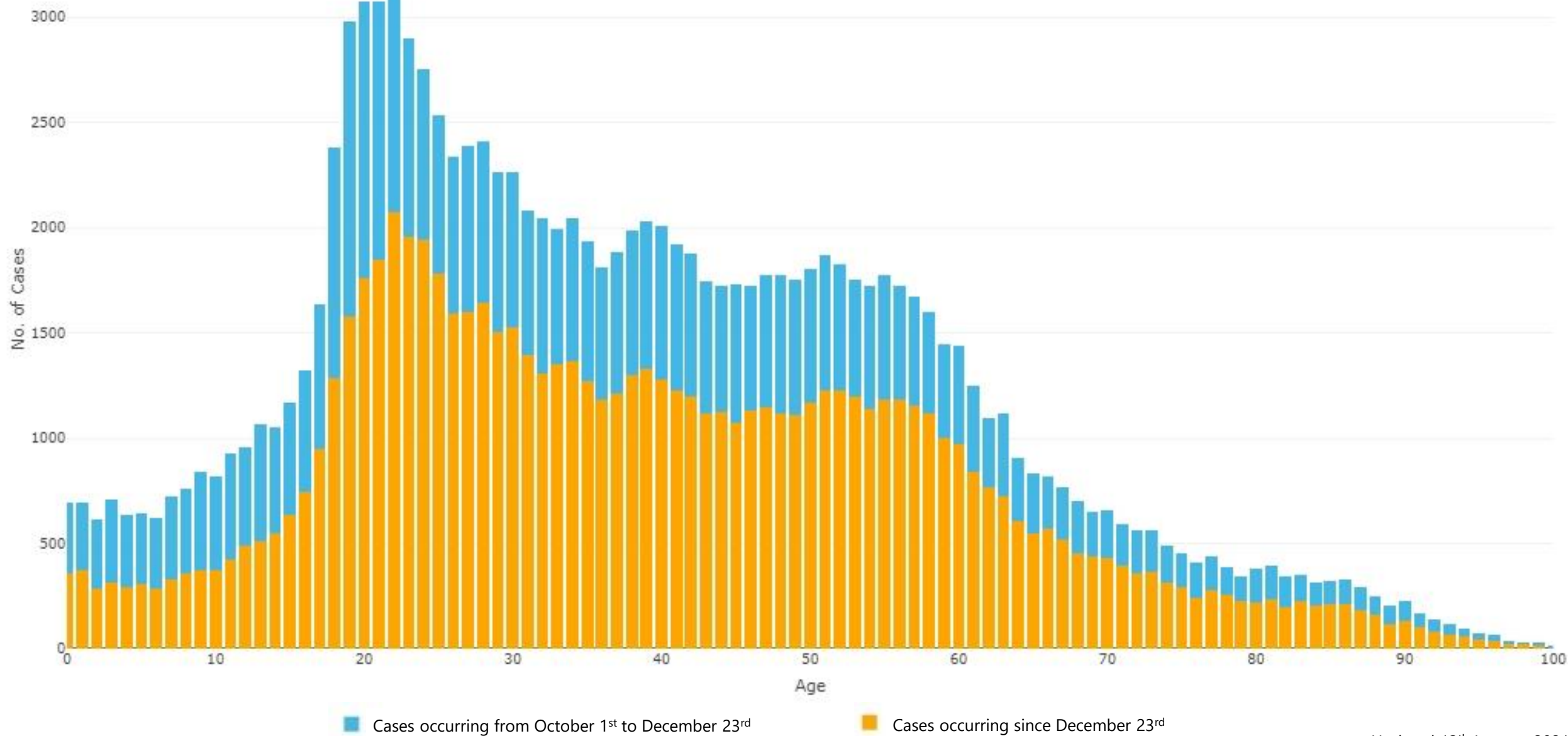
No. of Non-Serial and Serial Swabs in Past 7 Days and Non-Serial as a % of Total Swabs
(Friday of each week and latest date)



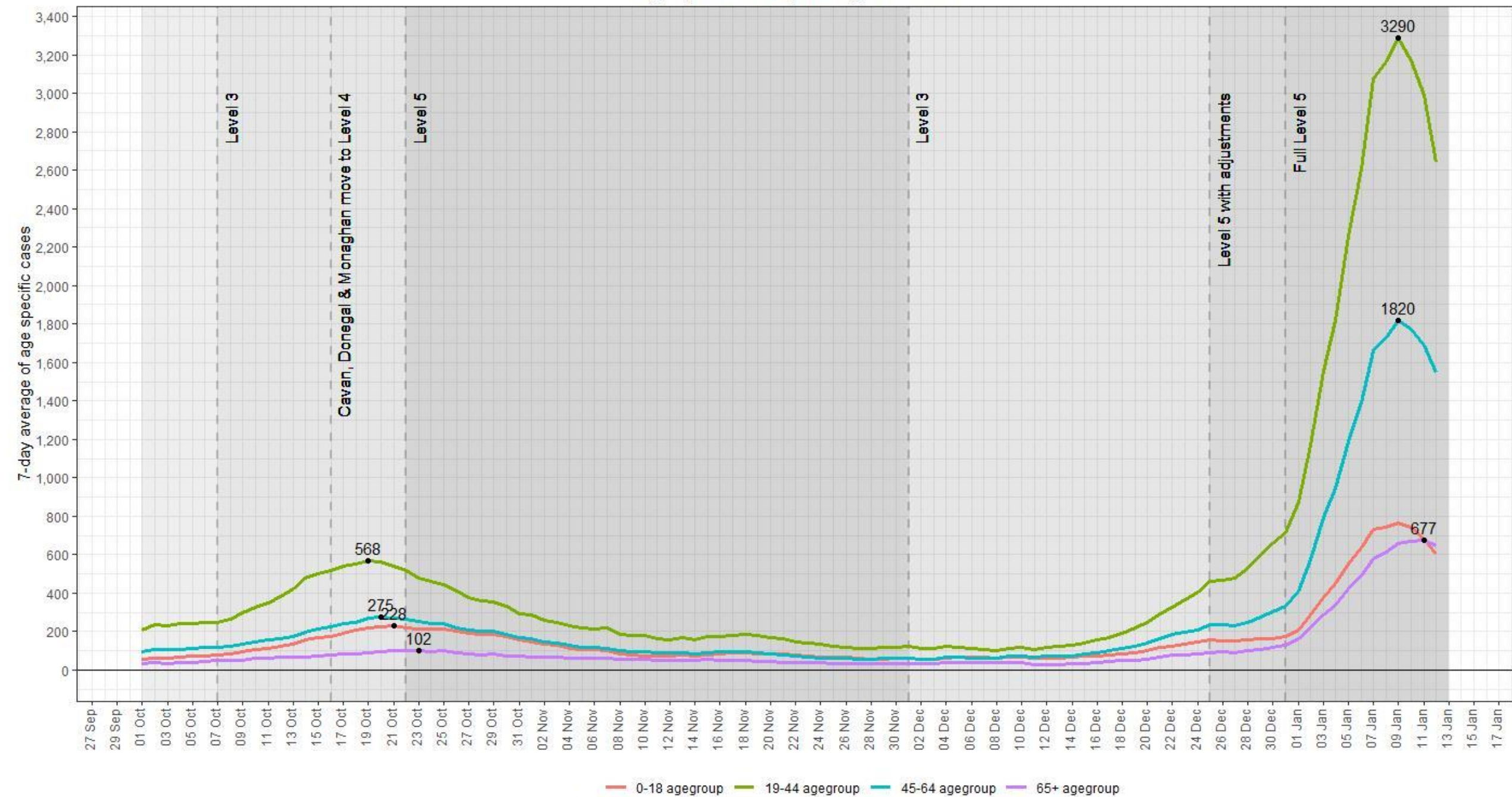
% Positivity Rate Past 7 Days (inc./ex. serial testing) by County as at 13/01/21 (data provided by HSE Contact and Tracing Team)



Age Distribution of Cases since October

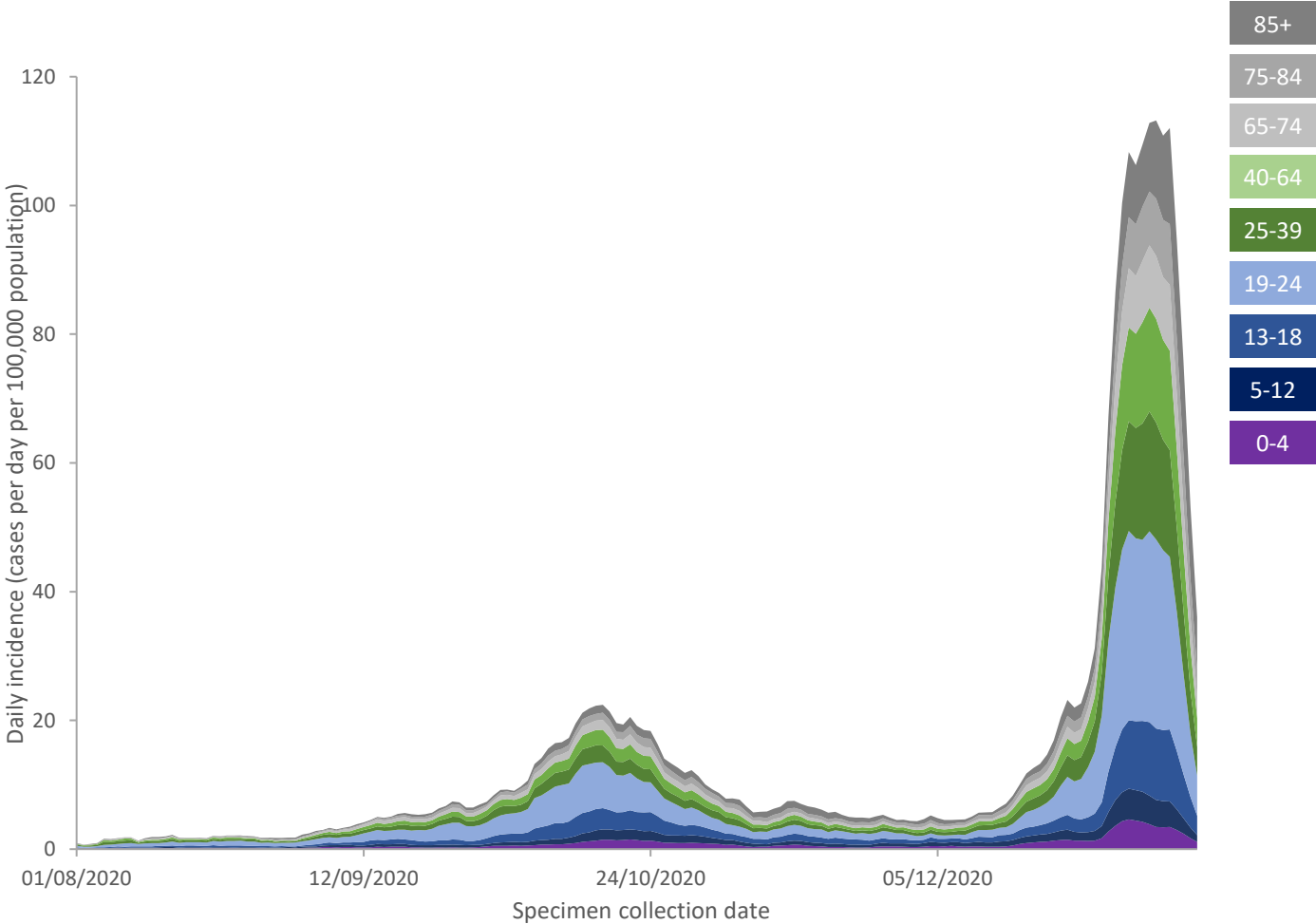


Age-specific 7-day average of cases



Incidence across different age groups (excluding HCW and LTRC)

Incidence is very high across all age groups in all age groups, with a very concerning level of disease in those aged 65 and older, where incidence continues to rise. A number of cases in those aged 65 and older will be linked in the coming days to outbreaks in LTRC.



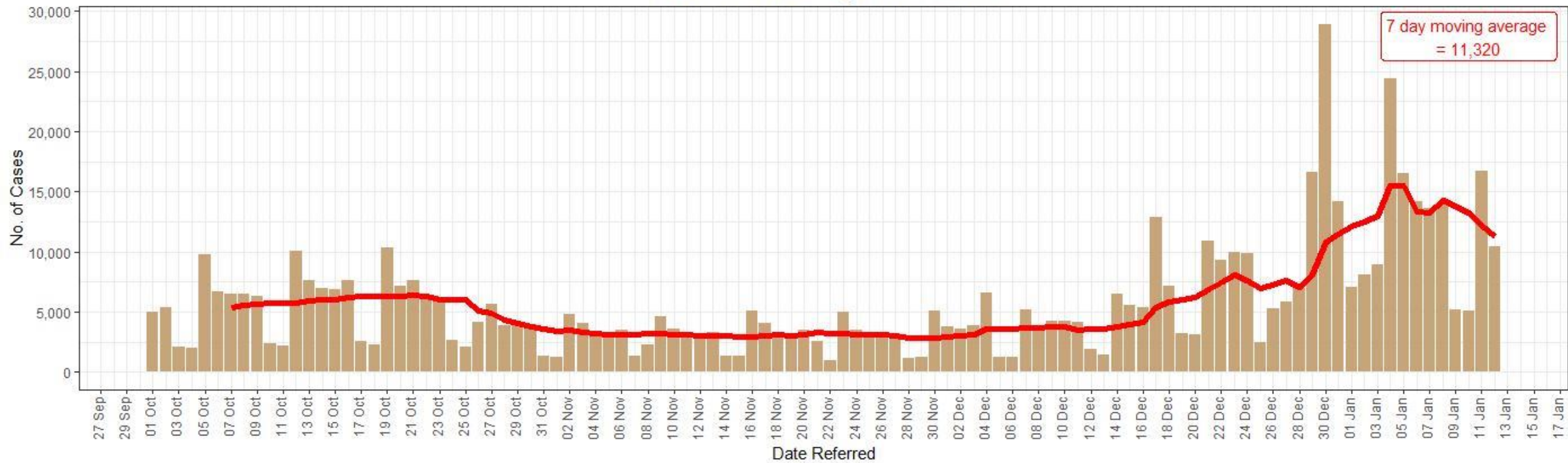
Week	Age band								
	0-4	5-12	13-18	19-24	25-39	40-64	65-74	75-84	85+
26	0.6	0.2	0.3	1.8	1.5	0.7	0.8	1.5	3.0
27	1.5	0.4	0.3	1.8	1.9	0.9	0.0	1.0	0.0
28	0.9	1.1	1.1	10.9	2.0	1.1	1.9	1.0	3.0
29	1.2	0.4	0.8	3.0	3.3	1.9	2.4	1.5	3.0
30	1.8	0.5	1.6	3.6	4.3	0.9	1.9	0.0	1.5
31	4.8	2.6	7.3	11.2	8.6	4.6	2.1	2.5	1.5
32	4.5	3.8	6.7	19.9	16.7	10.9	4.8	2.5	3.0
33	6.6	10.4	12.9	28.7	20.5	12.5	8.6	2.5	5.9
34	6.6	6.9	16.7	34.4	15.3	10.5	5.6	5.1	1.5
35	6.0	9.5	13.2	36.2	17.9	10.7	4.8	8.7	5.9
36	13.3	13.7	17.8	48.6	22.6	13.9	11.0	12.2	14.8
37	17.5	17.5	29.9	64.3	28.3	24.5	22.5	8.7	7.4
38	21.4	26.2	44.1	90.3	44.3	34.8	32.9	19.8	14.8
39	12.4	22.8	42.8	148.2	50.1	42.0	33.2	31.0	17.8
40	29.9	28.6	63.2	167.3	67.8	57.7	34.3	26.0	19.2
41	44.0	47.4	134.8	322.2	116.6	91.6	62.1	51.9	53.3
42	78.1	90.9	196.7	430.8	155.2	142.6	91.8	67.7	57.7
43	82.7	93.5	175.5	304.9	122.7	121.6	84.6	82.9	69.6
44	54.0	66.9	93.9	152.8	74.4	76.5	54.3	54.5	45.9
45	34.4	39.7	57.9	83.9	58.0	46.1	42.8	44.3	41.4
46	41.9	37.2	65.9	89.7	45.5	45.2	32.7	43.3	57.7
47	22.0	34.1	59.5	79.7	34.8	33.2	28.6	39.2	54.8
48	23.2	31.5	45.5	66.7	33.9	29.8	22.2	36.1	31.1
49	28.4	36.6	37.7	40.5	33.3	30.0	25.4	30.0	32.6
50	21.4	39.7	44.1	57.4	40.1	35.2	22.5	31.0	17.8
51	51.6	58.5	74.5	128.6	88.4	81.9	54.9	55.5	45.9
52	77.2	76.7	120.0	331.8	183.8	142.1	98.3	100.8	103.6
53	217.5	234.7	510.2	1468.3	821.7	699.2	441.0	373.0	429.3
1	184.0	209.6	572.9	1395.2	866.4	797.7	522.9	500.2	703.1

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). 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 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.



GP referrals

GP Referrals excluding Close Contacts



Dec

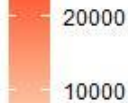
		1 3,818 referrals (+9%)	2 3,555 referrals (+18%)	3 3,881 referrals (+25%)	4 6,644 referrals (+121%)	5 1,222 referrals (+5%)
6 1,219 referrals (-3%)	7 5,203 referrals (+2%)	8 3,926 referrals (+3%)	9 4,274 referrals (+20%)	10 4,261 referrals (+10%)	11 4,153 referrals (-37%)	12 1,937 referrals (+59%)
13 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 28,939 referrals (+182%)	31 14,228 referrals (+45%)		
Sun	Mon	Tue	Wed	Thu	Fri	Sat

Jan

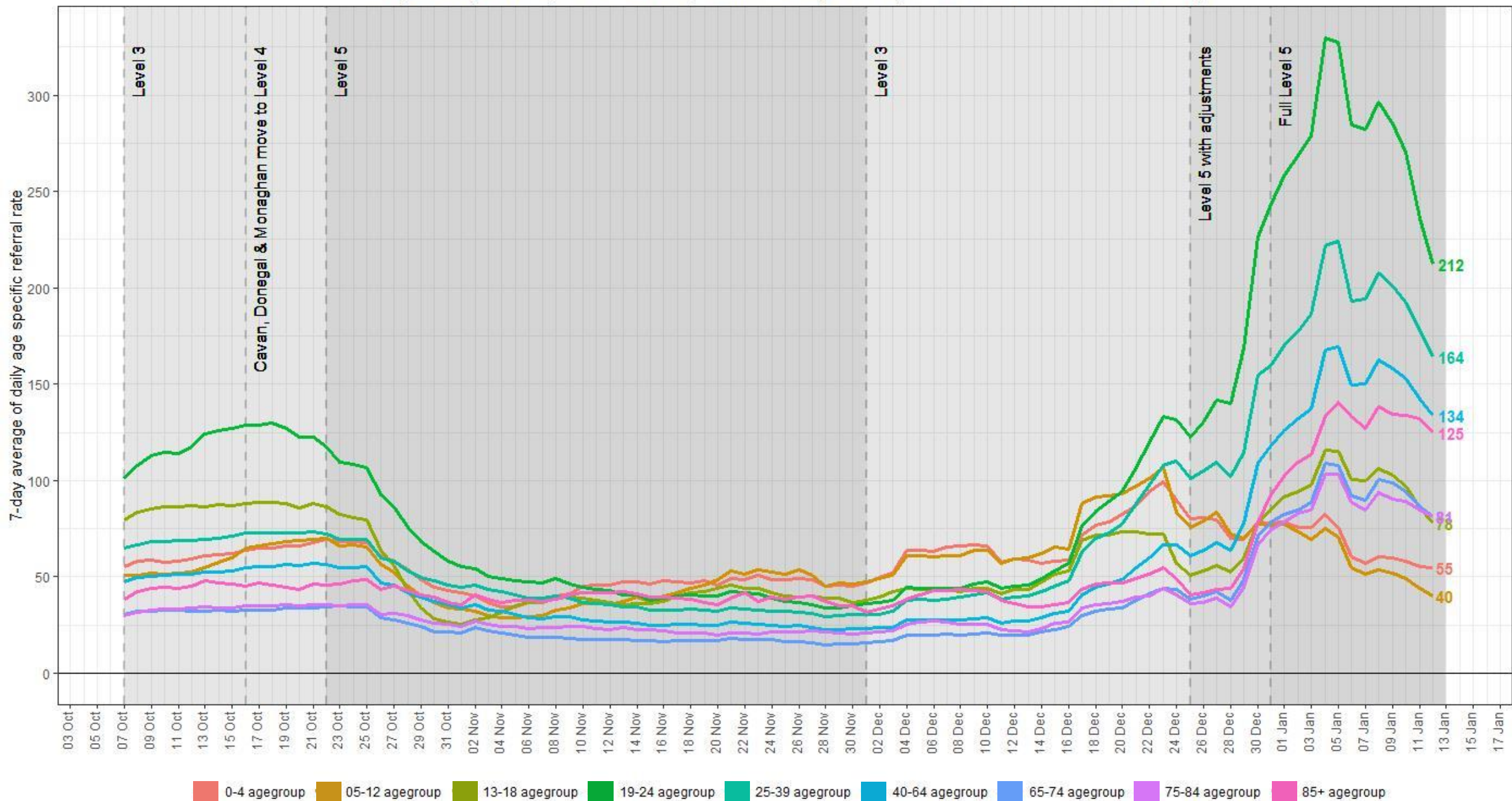
Percentages refer to week on week % change, i.e. this Monday vs last Monday, etc.

					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 10,430 referrals (-37%)	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						
Sun	Mon	Tue	Wed	Thu	Fri	Sat

No. of GP Referrals (excl. C.C.)

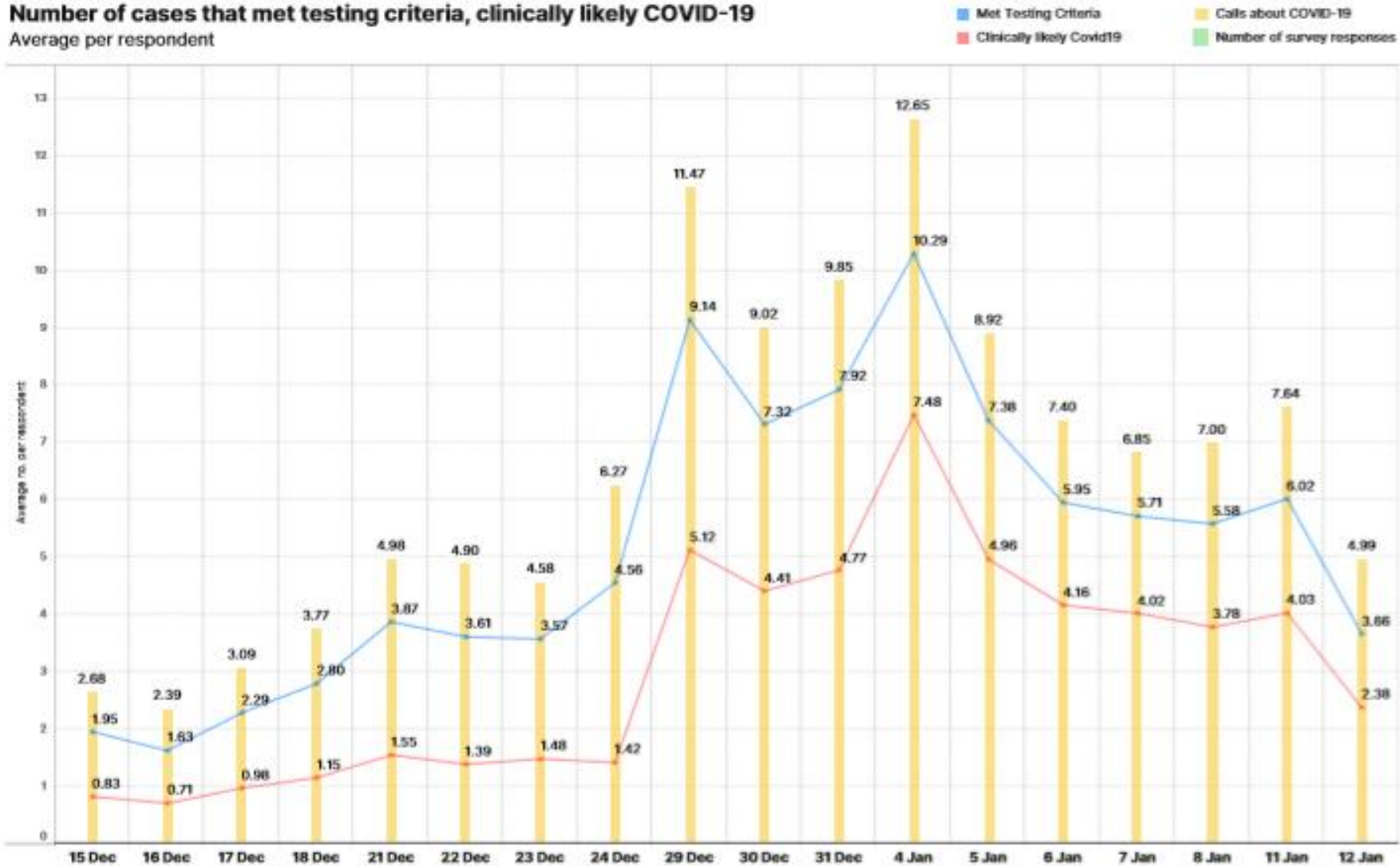


7-day Average of Daily Referral Rate per 100,000 Population (GP Referrals excl. Close Contacts)



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

Average per respondent



Source:

COVID-19

GP Community Tracker



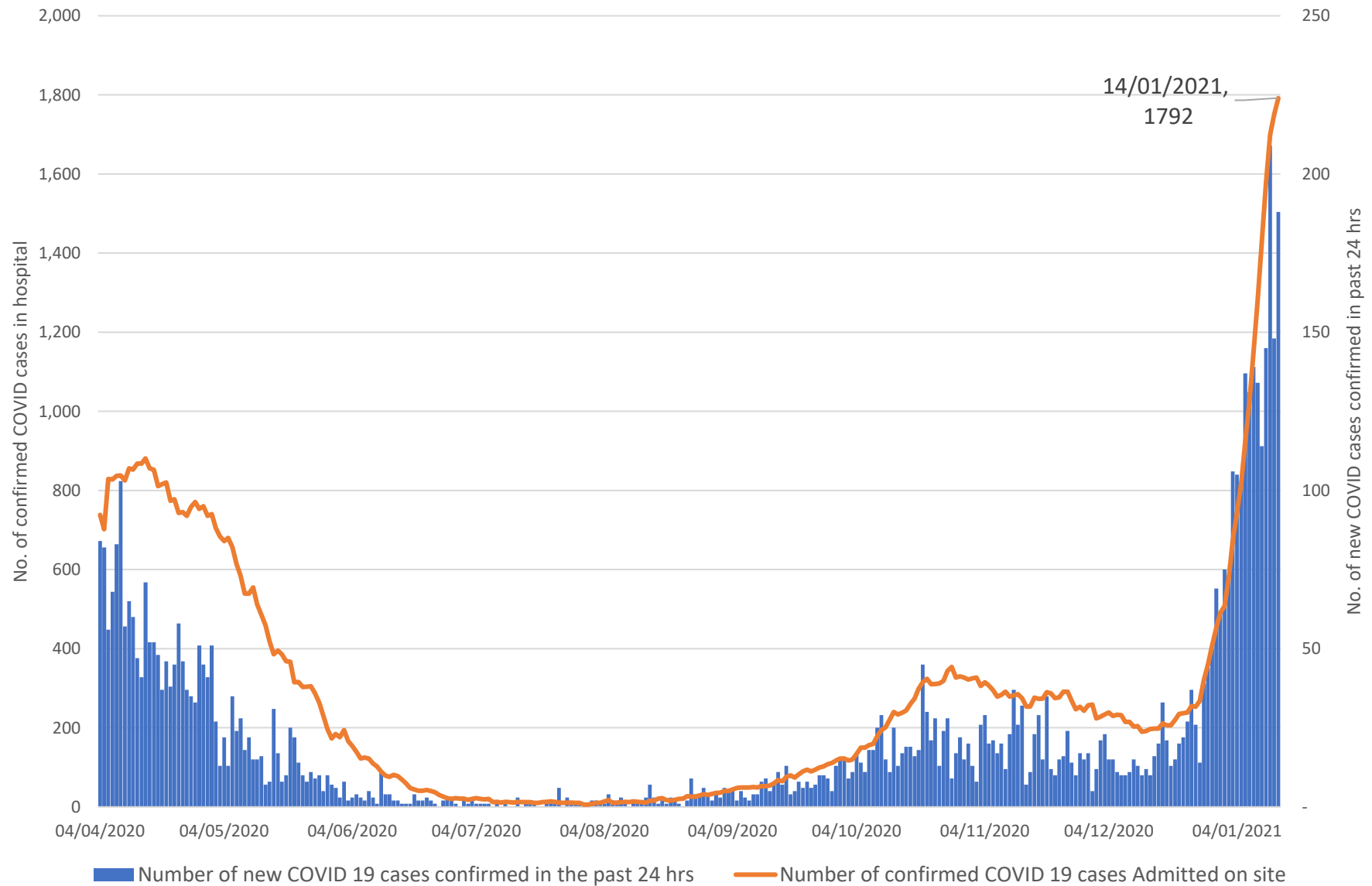
21st December 2020

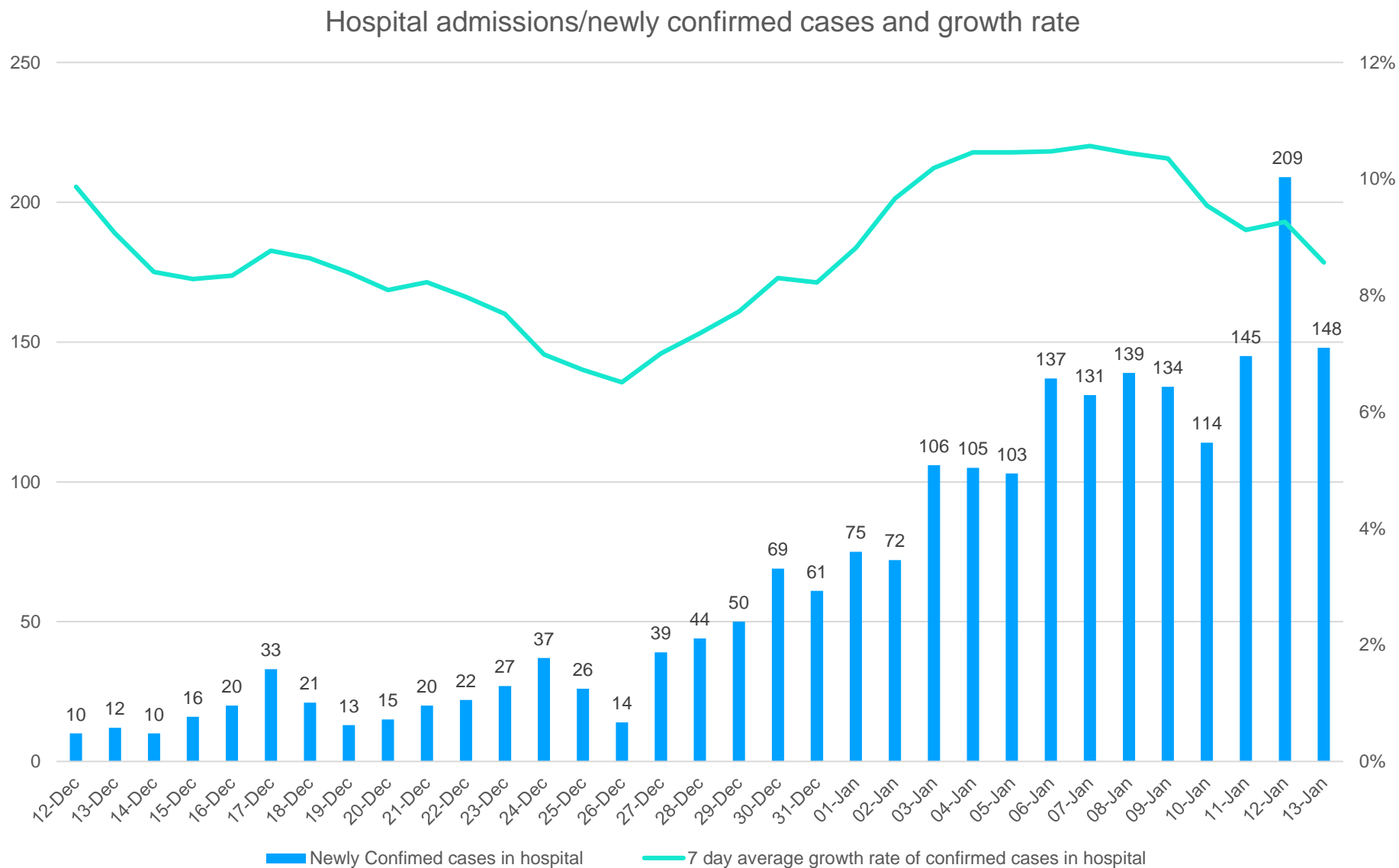
Date range: 23rd November to 18th December 2020 (last 4 weeks)



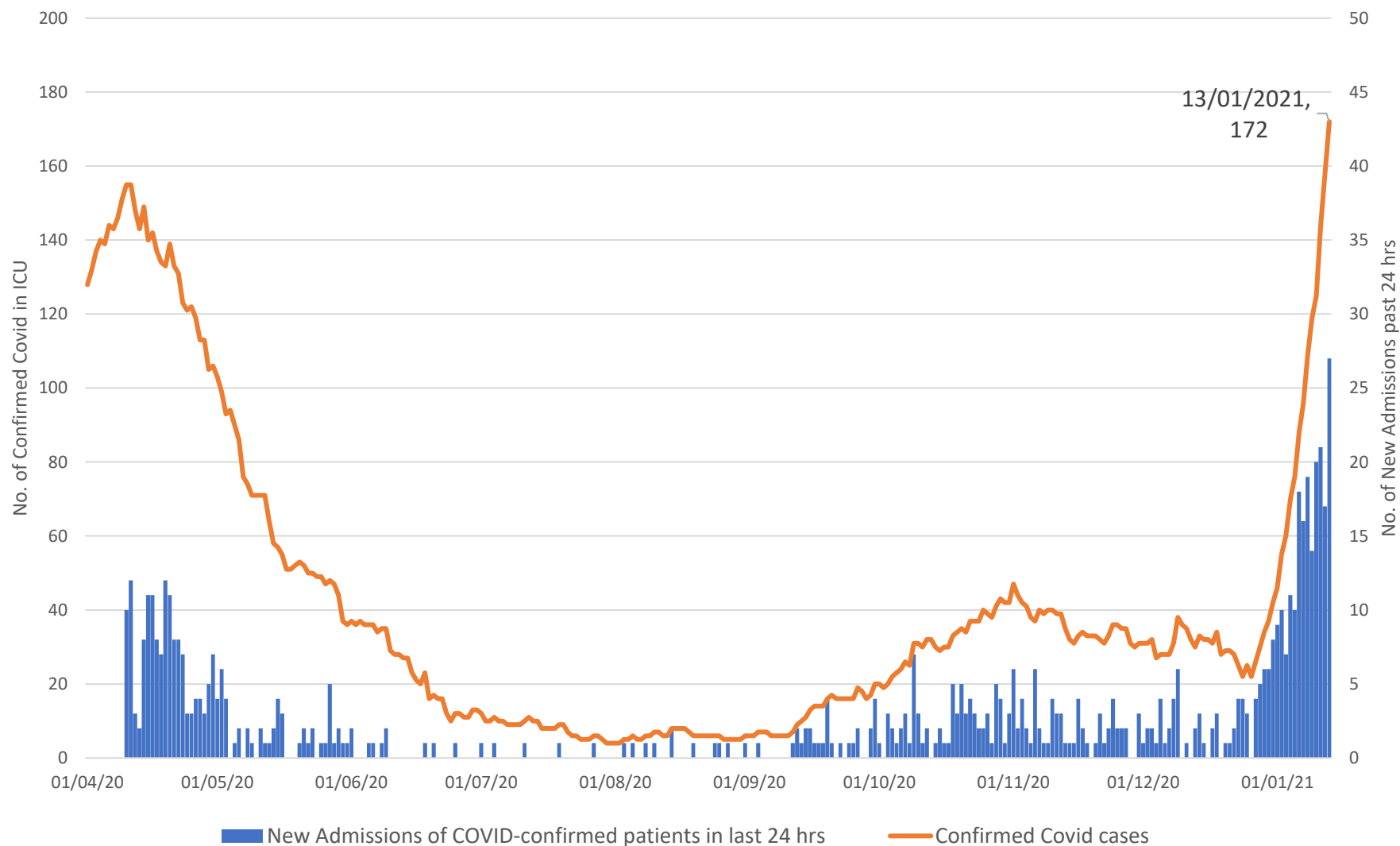
Hospital & ICU Data

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

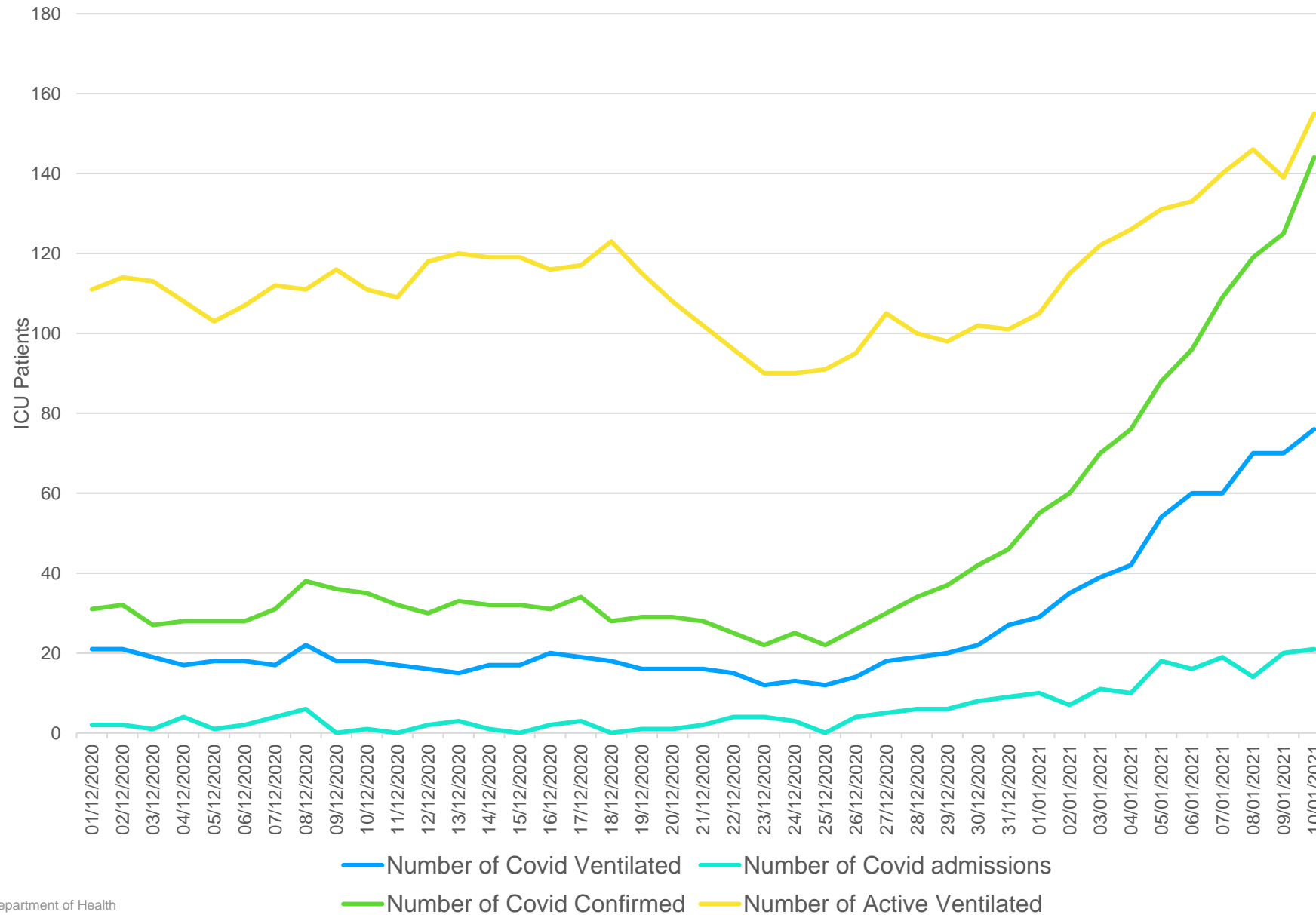




Total No. of Confirmed Covid Cases in ICU at 11.30AM &
No. of New Confirmed Covid Admissions to ICU in past 24 hrs
*(includes all reporting public & private hospitals and may differ from no. reported by HSE in
public hospital ICU)*



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



Confirmed Covid Cases as % of Total ICU Occupied Beds
Confirmed Covid Ventilated as a % of Total Ventilated

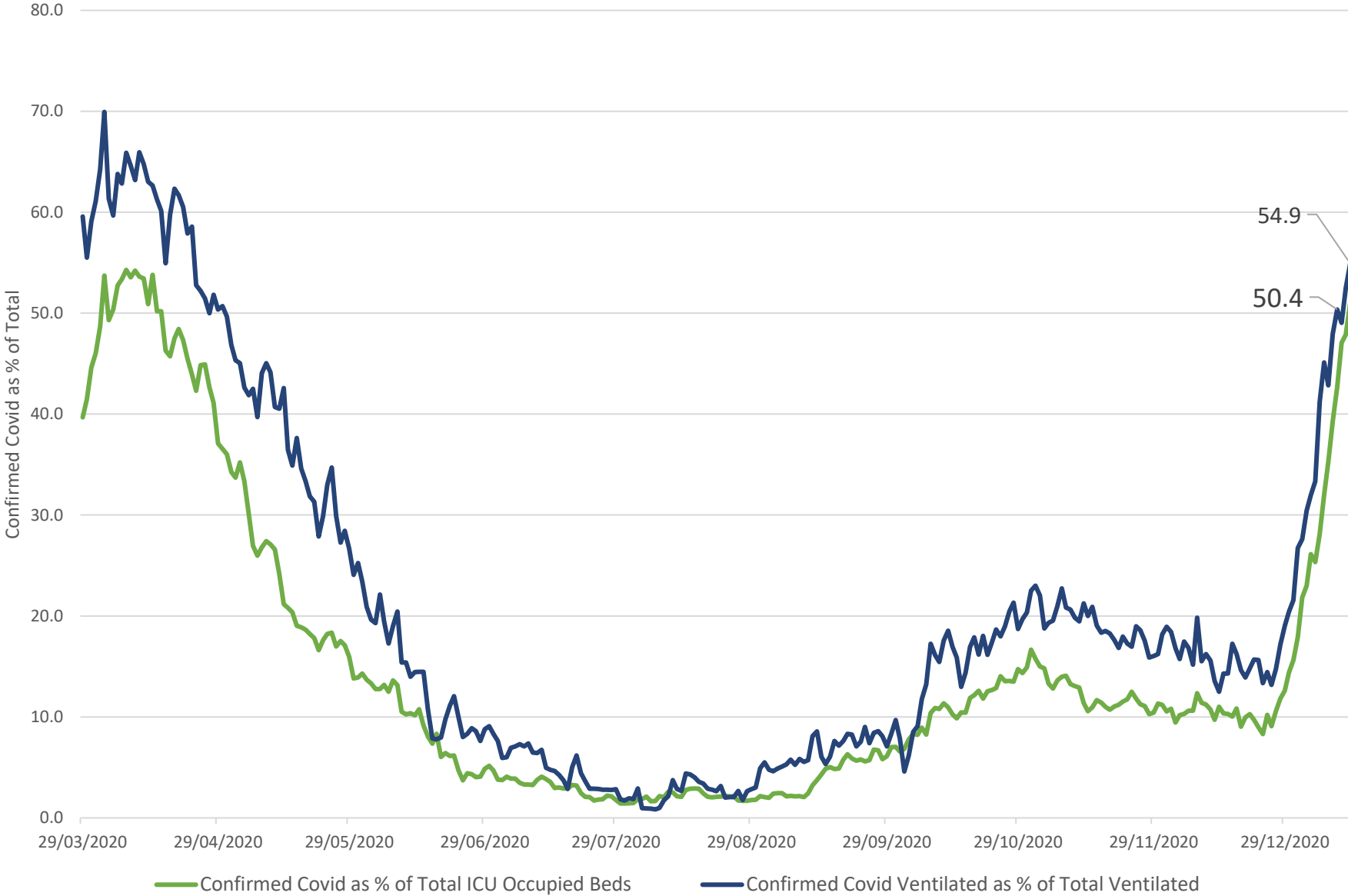




Table 2. Time between admission to hospital and admission to ICU for adult cases of COVID-19 (01.08.2020 to 09.01.2021)

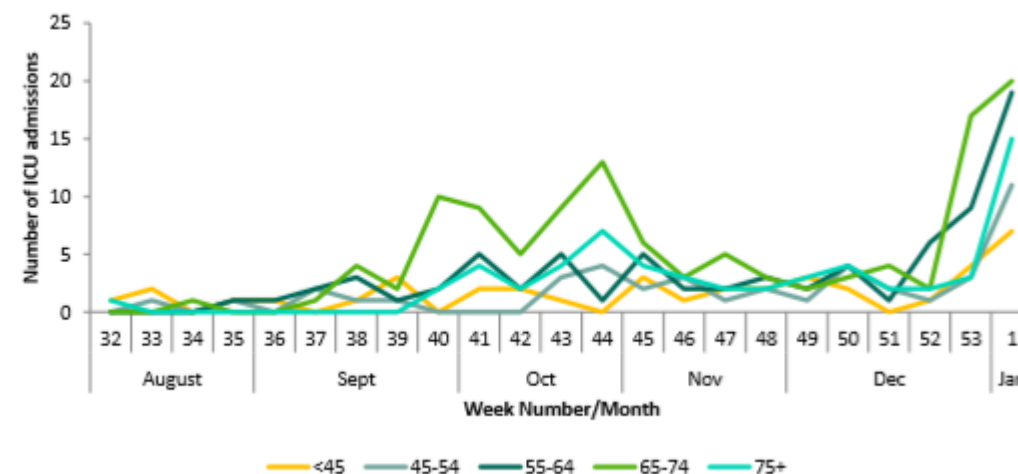
	n (data available)	Median time (days)	Mean	IQR (days)	Range (days)
All cases	336	2	5.4	0, 5	0, 288
Cases with time between admission to hospital and admission to ICU of \geq 1 day	245	3	7.3	1, 7	1, 288

Table 3 describes the sex and age distribution of adult cases of COVID-19 admitted to ICU. Figure 2 shows a graph of adult cases of COVID-19 admitted to ICU by week of ICU admission, stratified by age group.

Table 3: Adult cases of COVID-19 admitted to ICU by sex and age group, Ireland (01.08.2020 to 09.01.2021)

Age group (years)	Female		Male		Total		
	n	%	n	%	n	%	Rate per 100,000 population
15-24	1	0.9	3	1.3	4	1.2	0.7
25-34	5	4.5	3	1.3	8	2.4	1.2
35-44	10	8.9	16	7.1	26	7.7	3.5
45-54	16	14.3	27	11.9	43	12.7	6.9
55-64	26	23.2	51	22.6	77	22.8	15.1
65-74	29	25.9	90	39.8	119	35.2	31.9
75-84	22	19.6	35	15.5	57	16.9	29.0
≥ 85	3	2.7	1	0.4	4	1.2	5.9
Total	112	100.0	226	100.0	338	100.0	9.0

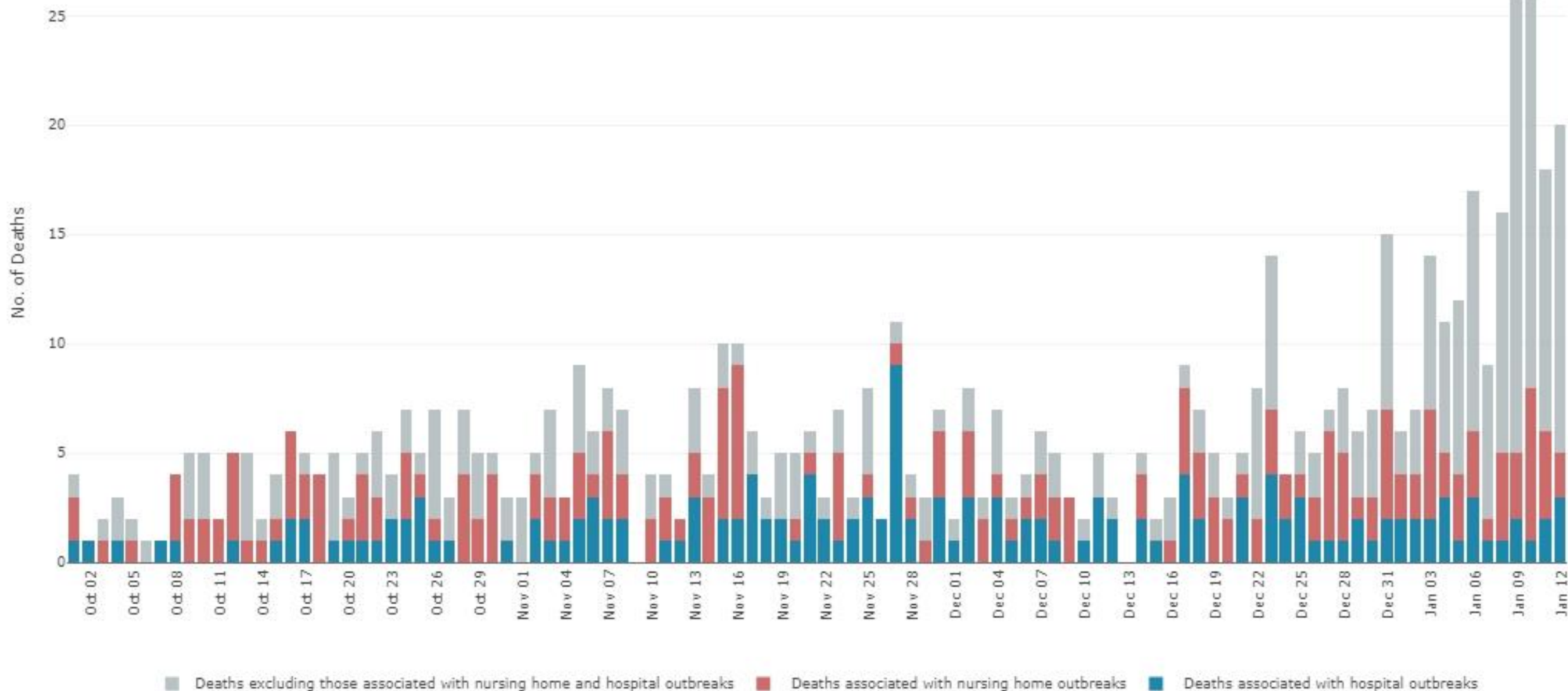
Figure 2. Adult cases of COVID-19 admitted to ICU by week of admission in Ireland, stratified by age group⁷ (01.08.2020 to 09.01.2021)



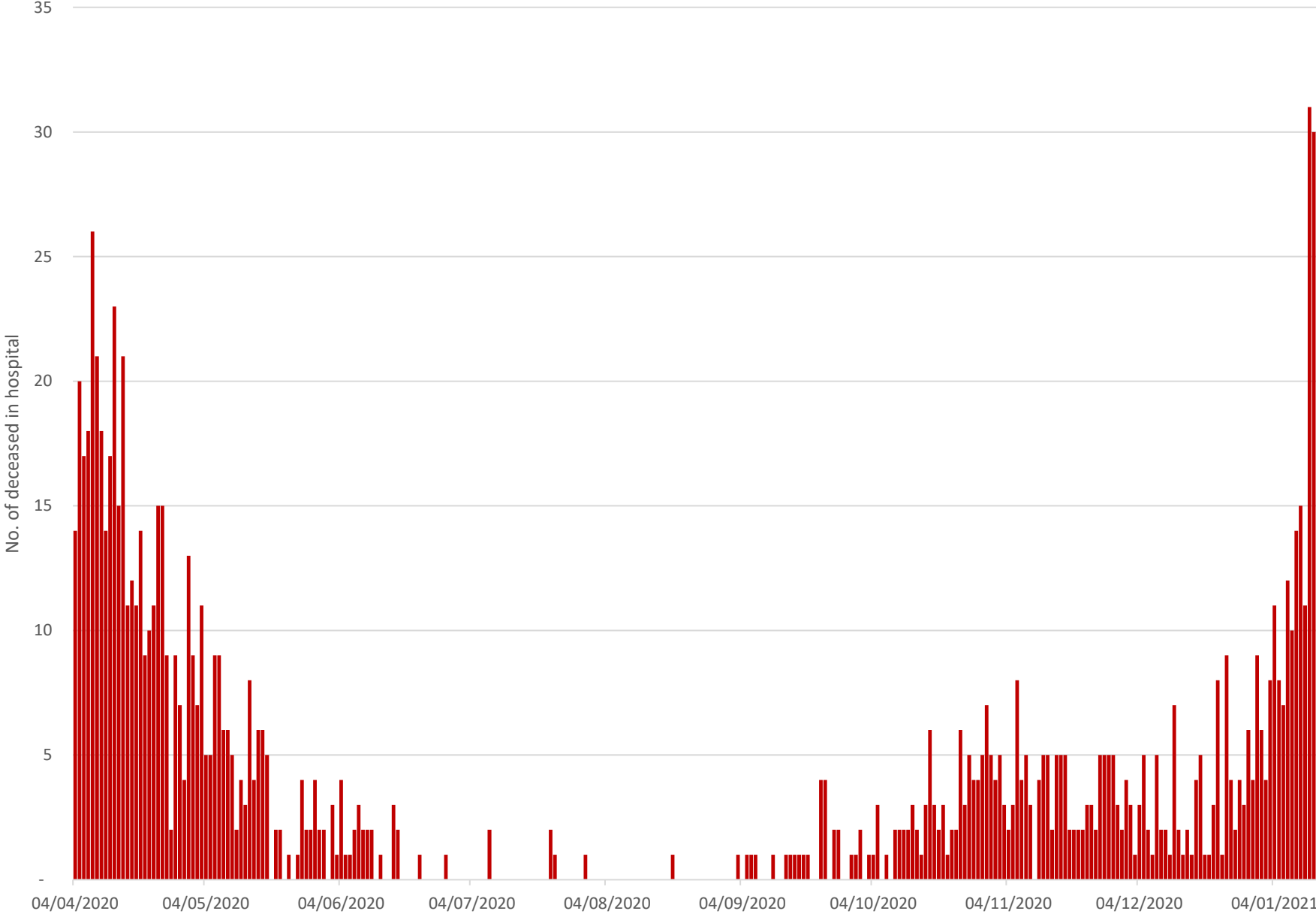


Deaths

Deaths by Date of Death



No. Deceased COVID19 Positive in Acute Hosptials previous 24hrs



Data source :SDU



Outbreaks & Clusters

COVID-19 outbreaks by key outbreak locations, week 1 and overall, 2020-2021 Ireland



Note: Due to the recent surge in case numbers, the number of outbreaks and linked cases in week 53 are likely an underestimate

- Since March 1st 2020, 10,988 outbreaks have been notified to CIDR
- In week 1, 2021 226 outbreaks were notified; 20 in private houses, 206 in other locations

Key outbreak locations	Week 1	Weeks 10-31	Weeks 32-1
Workplace	26	51	329
Direct Provision Centre	0	21	21
Vulnerable groups*	7	19	105
Prisons	3	6	6
Nursing Home/Community Hospital	58	301	199
Acute hospitals	17	103	158
Schools^	3	0	298
Childcare facility	7	0	114

*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 11th 2020 – data to midnight 09/01/2021

Weekly Summary



Note: Due to the recent surge in case numbers, the number of outbreaks and linked cases in week 53 are likely an underestimate

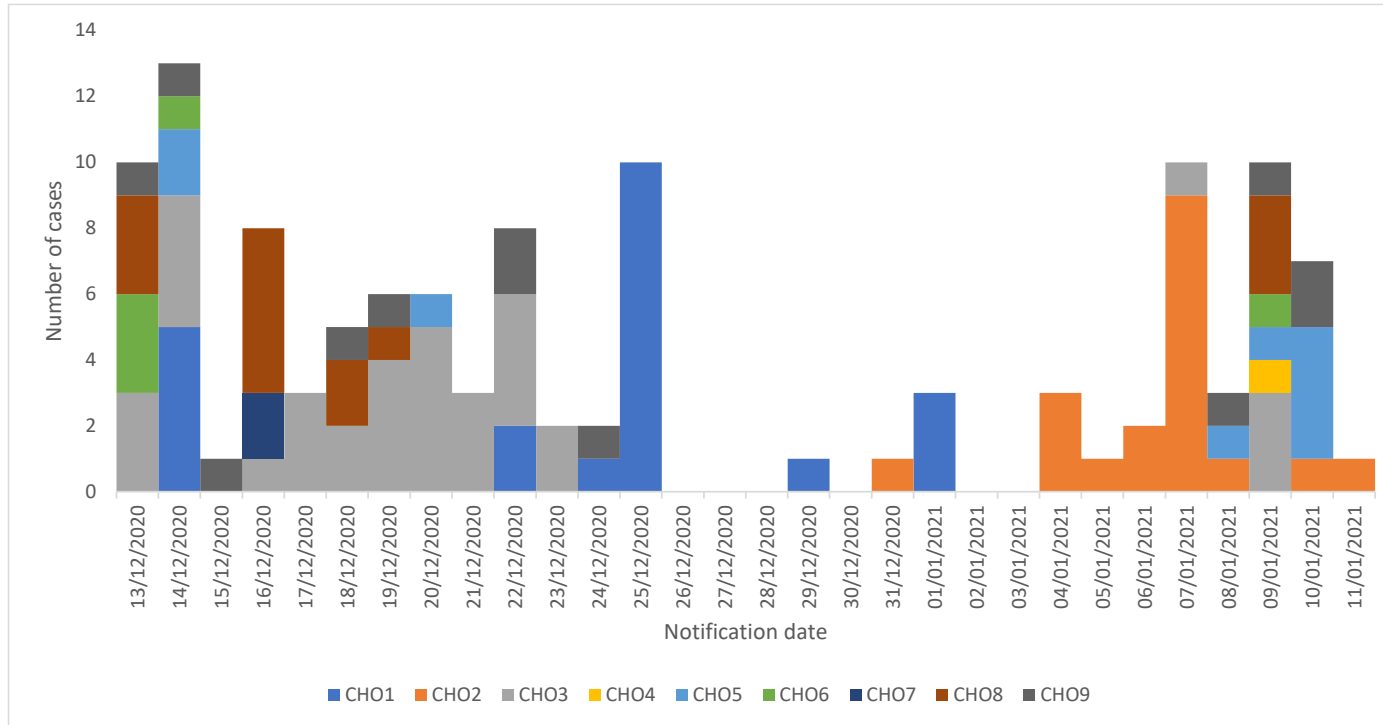
- **Total** number of outbreaks week 1, 2021 n=226 compared with week 53 n=154
- **Vulnerable groups**
 - Irish Traveller outbreaks (since 13/12/2020)
 - 11 outbreaks, 119 cases in total
 - 3 new outbreaks in week 1- 20 linked cases
 - 4 new outbreaks in addiction services - 11 cases
 - 3 new prison outbreaks – 9 linked cases
 - One new outbreak in a DPC with 0 linked cases to date
- **Workplace outbreaks**
 - Five new food industry outbreaks since last week's report – with 10 linked cases
 - 41 additional cases linked to 2 meat/poultry factory outbreaks (now n=83, n=76)
- **Residential institution outbreaks**
 - 322 outbreaks in residential institutions with 1,559 linked cases
 - 95 outbreaks are 'open' with 275 linked cases
 - 69 new outbreaks since last week's report with 145 linked cases
- **Nursing Homes & Community Hospitals**
 - 123/500 outbreaks remain open with 1398 linked cases
 - 52 new outbreaks with 307 linked cases since last week's report
 - One new outbreak has 53 linked cases already
 - Since August 1st, 194 deaths have occurred in cases linked to NH/CH outbreaks
- **Acute hospitals**
 - 98 open outbreaks involving 39 hospitals, 1118 linked cases (range 1-138)
 - 32 new outbreaks since last week's report with 98 linked cases
 - Since August 1st, 153 deaths have occurred in cases linked to acute hospitals outbreaks
- **Schools**
 - 3 new outbreaks since last week's report with 7 linked cases (range 1-4)
- **Childcare facilities**
 - 12 new outbreaks since last week's report with 27 linked cases (range 2-7)
- **Third level institutions**
 - 90 outbreaks since 01/09/2020 – 1006 linked cases
 - No new outbreaks since week 51

All data in this slide-set is CIDR data to midnight 11/01/2021 unless otherwise stated

Key points

- The volume and size of nursing home outbreaks continues to be of concern
 - Both new and several ongoing outbreaks
 - Considerable mortality – 194 deaths since August 1st
- Steep rise in the number of residential institutions recently – maybe related to clients returning from Christmas at home in the community
- Large number of acute hospital outbreaks continue to occur
- Two large meat/poultry processing outbreaks continue with 41 cases added this week
- Due to the recent large volume of cases and delays in reporting to CIDR, the number of outbreaks and cases linked this week is likely an underestimate.

COVID-19 infections among Irish Travellers – Wave 3 (December 13th 2020 – January 11th 2021)



Data source: CIDR January 12th 2021 – data to midnight 11th January 2021

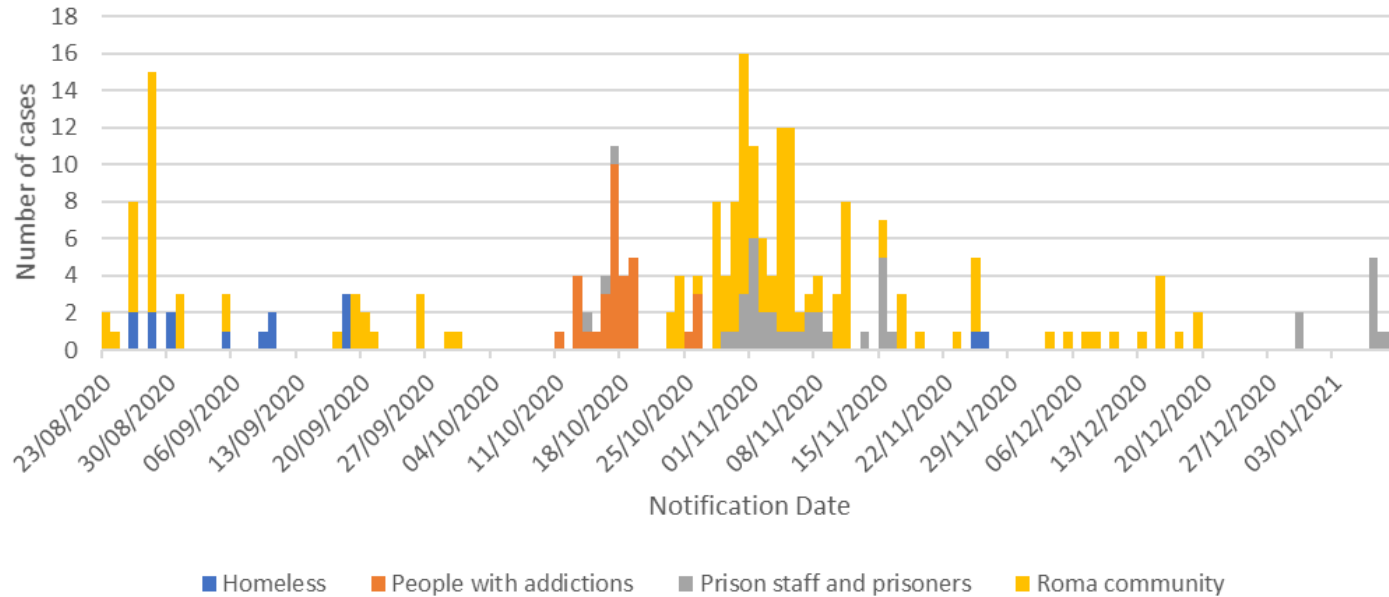
Inclusion criteria

Cases linked to outbreaks reported as affecting Irish Travellers OR whose ethnicity is reported as Irish Traveller, December 13th 2020 to midnight January 11th 2021

- 119 confirmed cases
- 51% (60/119) male
- Median age 24 years
- 4.5 % hospitalised, no ICU admissions or deaths
- Among 11 associated outbreaks, 1 had >20 linked cases
- **Three new outbreaks in week 1, with 20 cases between them**
- **Two new outbreaks already in week 2, 2021**

Data source: CIDR January 12th 2021 – data to midnight 11th January 2021

Outbreaks linked with Roma, Homeless, Addiction Services and Prisons: August 1st to January 11th 2021



Since August 1st

- 28 outbreaks with 239 associated cases
- 23% (54/239) are <15 years and all are Roma)
- Sixteen outbreaks are 'open' (4 in prisons, 7 in the Roma population, four in people with addictions and one in the homeless population)
- Since last report, 7 new outbreaks occurred, 4 in people with addictions -11 cases (aggregate data), and 3 in prison staff and prisoners -9 linked cases

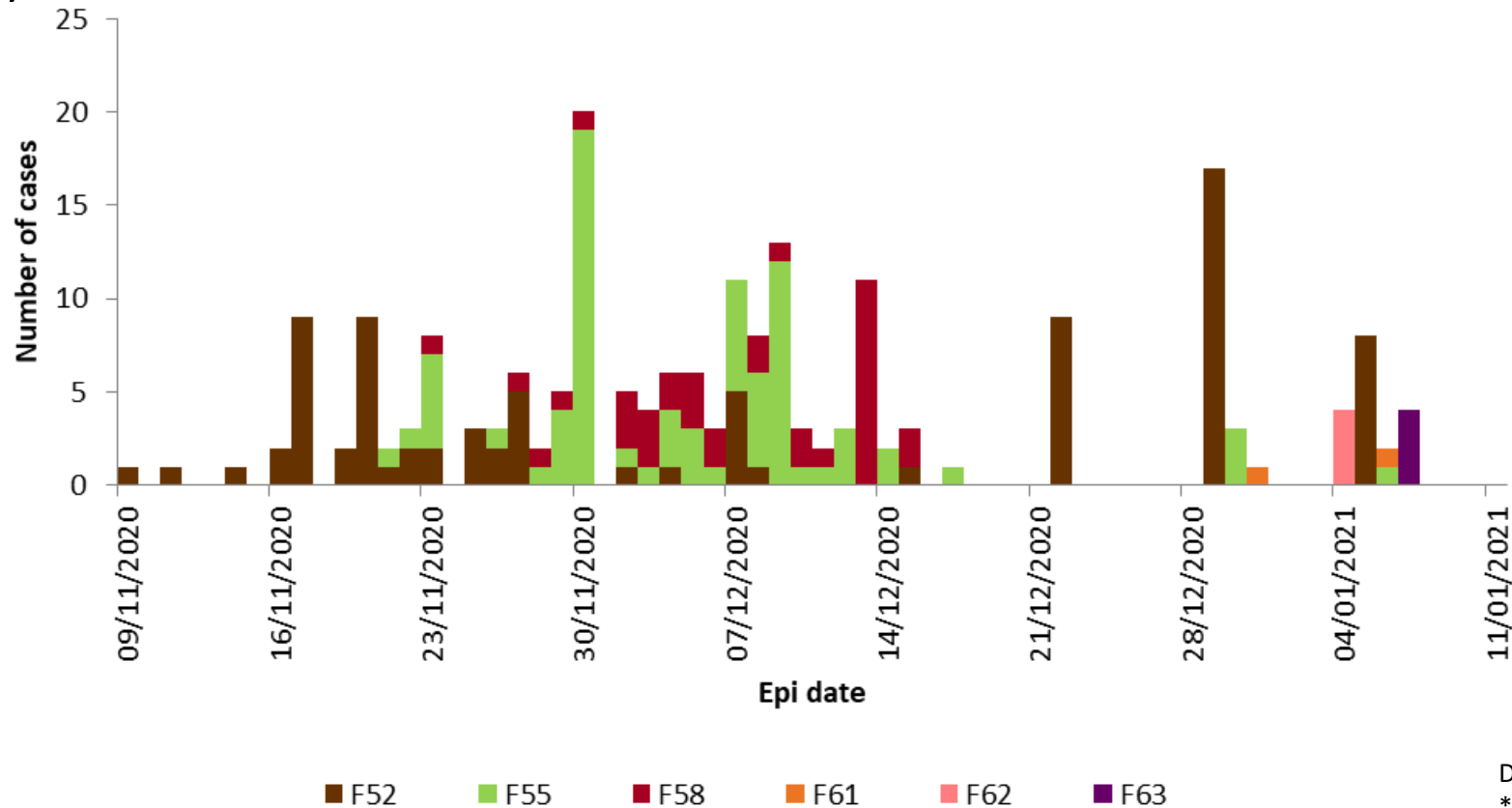
Vulnerable group	Outbreak	Linked confirmed cases			
	Number of outbreaks	Number of cases	Number hospitalised	Number admitted to ICU -	Number who died
Homeless	7	15	1	1	
People with addictions	6	33			
Prison staff and prisoners	6	42			
Roma community	9	149	9	3	
Total	28	239	10	4	

Data source: CIDR January 12th 2021 – data to midnight 11th January 2021

Workplace outbreaks – Food production/processing: Oct 1st 2020-Jan 11th 2021



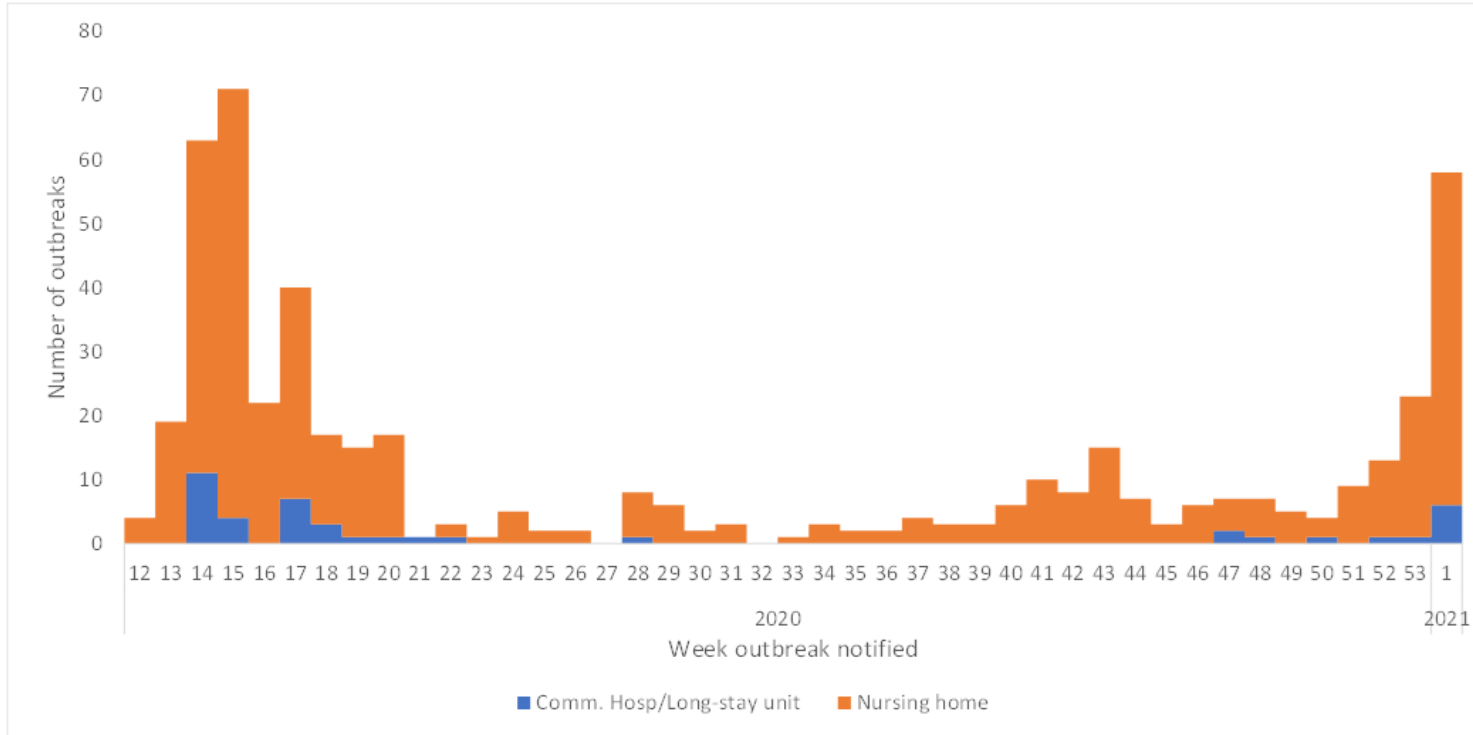
- 206 cases are linked to 8 open outbreaks in this sector (range: 4-83 linked confirmed cases)
- Two large outbreaks with 37 and 4 additional cases this week: now n=83 and n=76, respectively
- Five new outbreaks were reported this week (10 confirmed cases linked to 3 of the outbreaks (range: 2-4 linked confirmed cases) and 2 outbreaks with no cases linked yet)
- Overall, 21 cases linked to outbreaks in this sector have an epi date within the last 14 days; and 14 within the last 7 days



Data source: CIDR January 12th 2021
*Data to midnight 11/01/2021

Nursing Homes and Community Hospital/Long Stay Units: to midnight January 9th 2020

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	42	594	37	1	11	73
Nursing home	458	8514	598	16	208	1009
Total	500	9108	635	17	219	1082



March 2020 –January 9th 2021

- 500 outbreaks in Nursing Homes and Community Hospital/Long Stay Units
- Fifty-two new Nursing Home and six new Community Hospital/Long-stay Unit outbreaks notified in week 1 2021

Data source: CIDR January 11th 2021 – data to midnight 9th January 2021

Focus on 123 'OPEN' Nursing Homes and Community Hospital/Long Stay Units to midnight January 9th 2021

- 1398 associated cases (371 HCW/staff cases, 418 client cases, 609 cases HCW status unknown, of which 273 were <65 years)
- 8 outbreaks include only HCW/staff cases, 34 include both HCW/staff cases and client cases, one outbreak includes client cases only, for forty-four outbreaks the mix of cases is unclear, and for thirty-six* outbreaks, there were no linked cases
- 52 new outbreaks since last week's report – 307 linked cases
- 22 previously notified 'open' outbreaks – 209 additional cases since last week's report
- 43 previously notified 'open' outbreaks – no additional cases since last week's report

For 32 of 36 outbreaks with no linked cases, aggregate data on the number of associated cases suggest that there should be an additional 283 linked cases

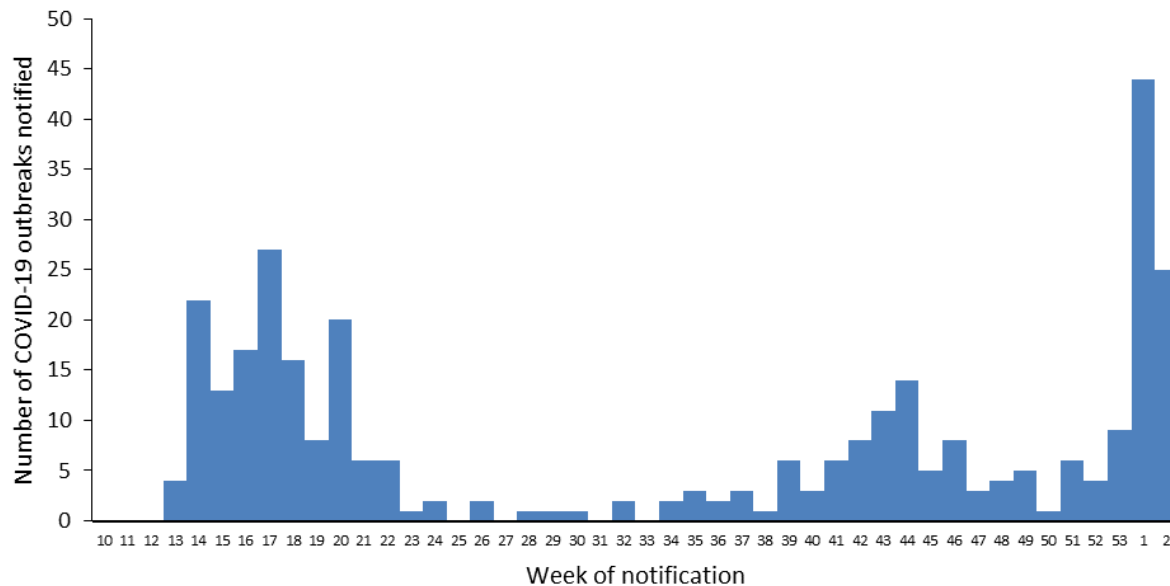
Data source: CIDR January 11th 2021 – data to midnight 9th January 2021

Residential Institution outbreaks to midnight 11th January 2021 (n=322)



	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	322	1559	96	275	7	0	4
Centre for disabilities	197	833	47	159	5	0	3
Centre for older people	21	294	6	9	0	0	0
Children's / TUSLA residential centre	25	44	10	15	0	0	0
Mental health facility	30	195	4	0	0	0	0
Other	20	106	5	22	1	0	1
Not Specified	29	87	24	70	1	0	0

Number of COVID-19 Outbreaks in Residential Institutions (n=322)



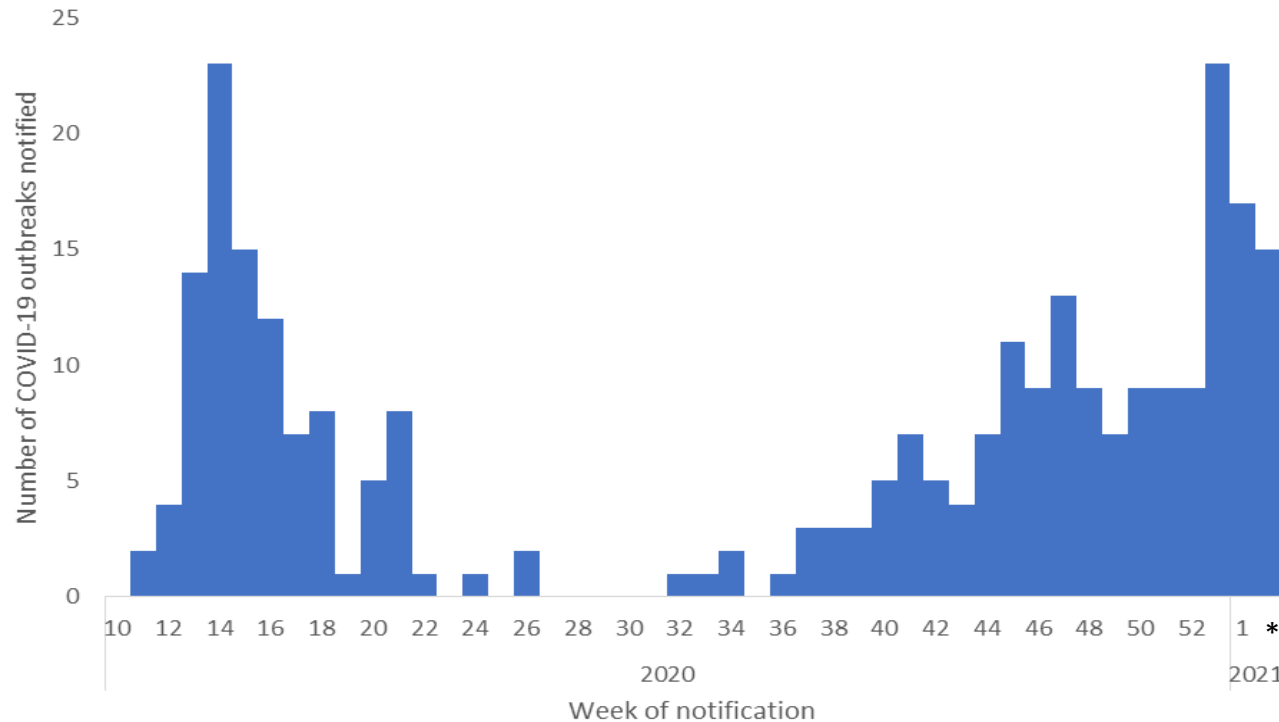
Overview

- 322 outbreaks in residential institutions with 1,559 linked confirmed cases
- 96 outbreaks remain open with 275 linked confirmed cases
 - Range in number of cases 1 to 38; median 4
 - 47 of 'open' outbreaks in centres for disabilities
- 69 new outbreaks since last week's report with 145 linked cases

Data source: CIDR January 12th 2021 – data to midnight 11th January 2021

Acute Hospital outbreaks to midnight 11th January 2021 (n=276)

Number of COVID-19 Outbreaks in Hospitals (n=276)



Overview

- **276** outbreaks in acute hospitals
- **98** 'open' acute hospital outbreaks (all occurring since 1st September 2020)
- 1,118 confirmed cases linked to 74 of the open outbreaks (range 1-138)
- The 98 open outbreaks correspond to outbreaks in **39** Acute Hospitals

Update

- 32 new outbreaks since reporting on 05/01/2021
- 98 confirmed cases linked to 15 of these outbreaks (range 2-20)
- A total of 60 additional cases were linked to 11 previously reported open hospital outbreaks
- 10 outbreaks were closed since last week

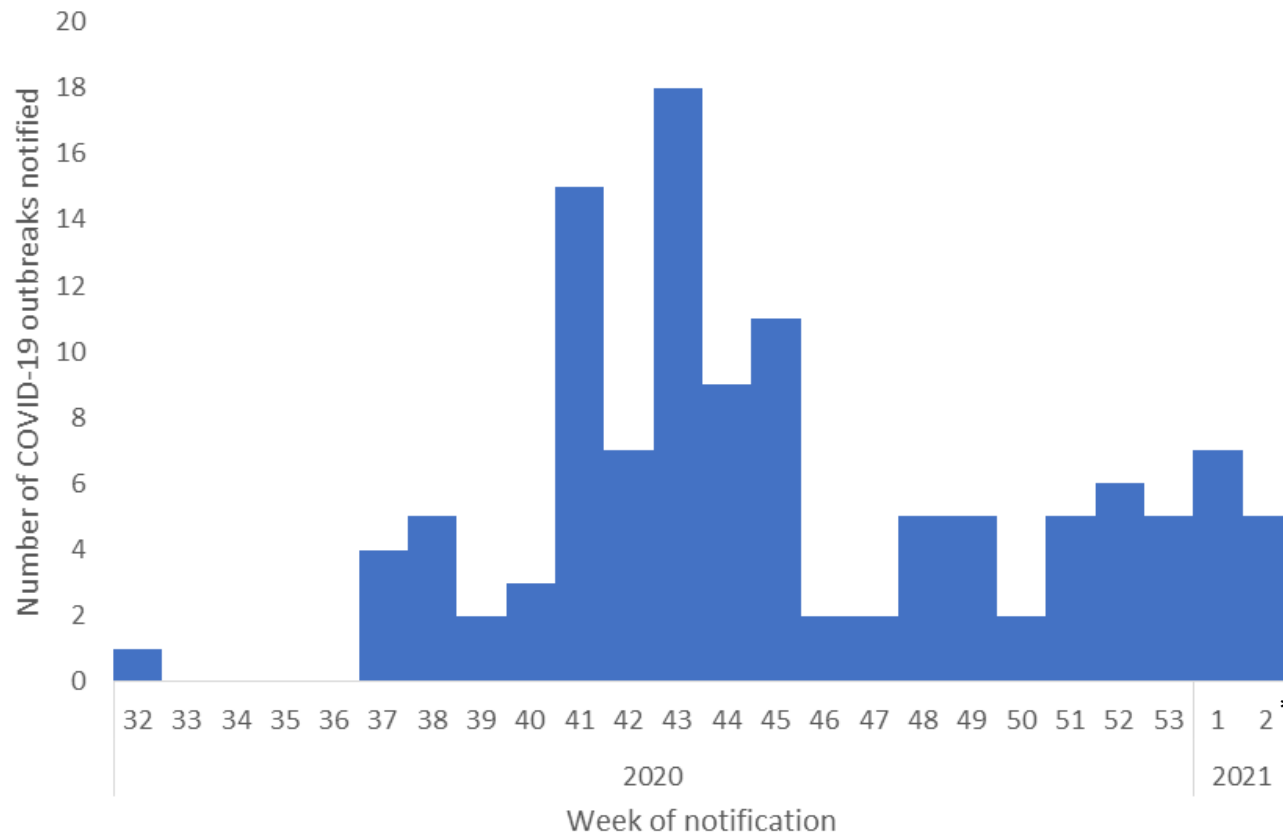
Outbreak status	Number of outbreaks	Confirmed linked cases	Number admitted to ICU	Number Died	Number HCWs
All	276	3,003	69	256	1,510
Open	98	1,118	18	83	460

Data source: CIDR January 12th 2021
 *Data to midnight 11/01/2021

Outbreaks associated with childcare facilities to midnight 11th January 2021 (n=119)



Number of COVID-19 outbreaks associated with childcare facilities
(n=119)



Overview

- 119 outbreaks associated with children and staff in childcare facilities notified
- 559 linked events in total
- 104 outbreaks have ≥ 2 linked confirmed cases (range 2-39)
- 82 outbreaks have been closed; 37 remain open

Update

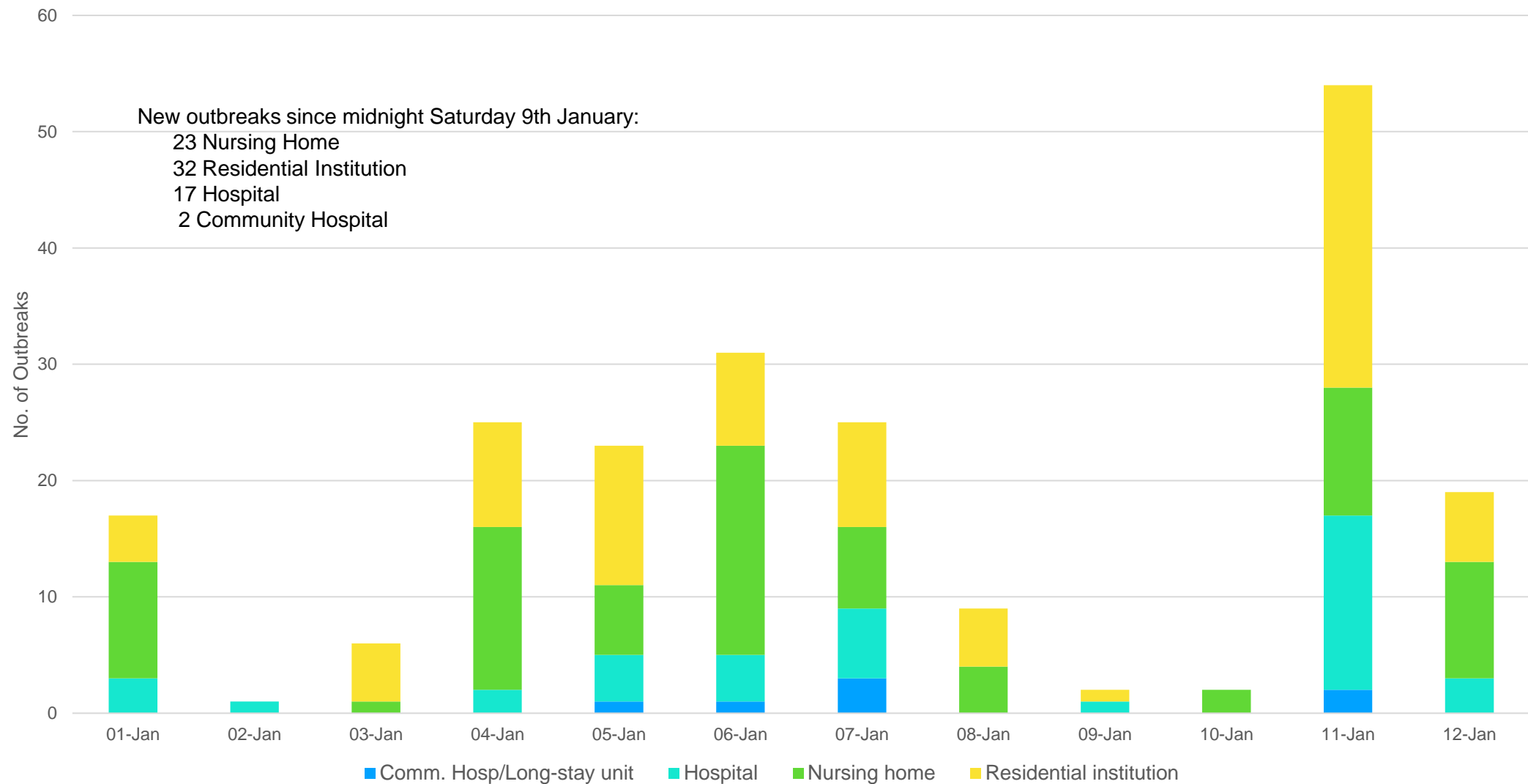
- 12 new outbreaks reported since last week
- 27 confirmed cases linked to 8 of these outbreaks
- 8 of these outbreaks have ≥ 2 linked confirmed cases (range 2-7)
- 5 outbreaks were closed since last week

Data source: CIDR January 12th 2021

*Data to midnight 11/01/2021

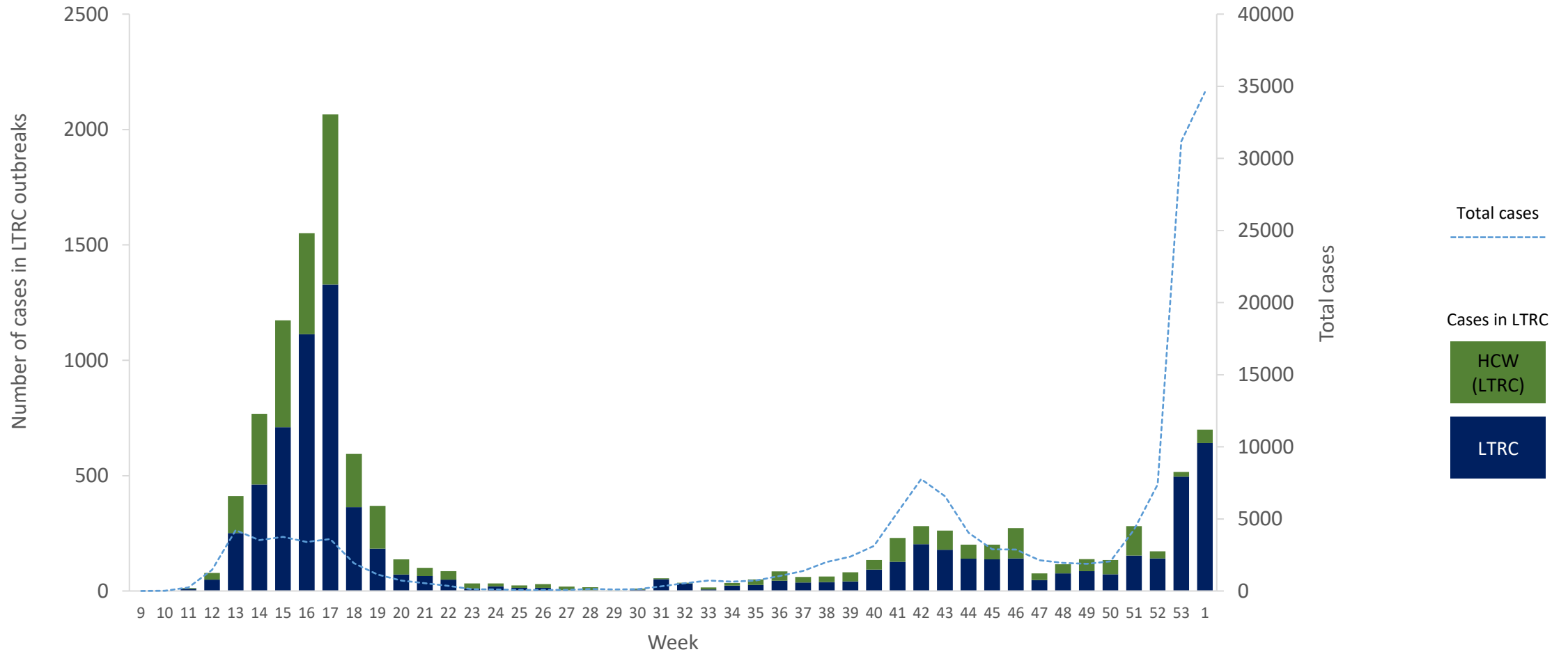
Acute Hospitals and Residential Care Facilities

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



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 is now increasing rapidly following the unprecedented levels of infection in the community



Weekly cases by setting. LTRC: cases amongst residents of long-term residential settings where outbreaks have occurred. HCW (LTRC): Cases in healthcare workers associated with outbreaks in LTRC. The dashed blue line shows the total number of newly confirmed cases each week, referred to the secondary y-axis



HSE staff absence due to COVID-19

HG/ CHO / Service	Medical & Dental	Nursing & Midwifery	Health & Social Care Professionals	Management & Administrative	General Support	Patient & Client Care	TOTAL COVID-19
	210	1,029	257	232	240	556	2,524

- Of these, 1,699 were in acute services and 816 were in community

Source: HSE, as of Wed 6th Jan



Test & Trace Update

Testing and contact tracing NPHET update

Testing



Over the past seven days, 6th-12th Jan, there has been approximately 156,903 swabs taken for COVID-19 testing.

Of these:

- 97,320 (62%) of these were taken in the community
- 33,259 (21%) swabs were taken in acute settings.
- 26,324 (17%) 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

From 6th– 12th Jan, a total of 39,382 calls were made in the Contact Tracing Centres. Over the past seven days, the average number of close contacts per case was 3, compared to 4.8 in the previous week.

Turnaround Times (6th– 12th 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 **1.8 days**.
- The median turnaround time for time, from referral to communication of a **detected result** by SMS, 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 **2 days**.

Overall Swab to laboratory result communicated – Medians: 28 hours in Acute , 34 hours in Serial Testing, 28 hours in Community

Referral to appointment

In the community, the median time from referral to appointment was 0.3 days.

92.5% of GP referrals are provided with a COVID-19 test appointment within 24 hours.

Contact Tracing:

The median time to complete all calls is currently 0.9 days.

CMP close contact update (week ending 10th Jan)



- The number of close contacts during week ending 10th Jan was 83,514, an increase of just 2% compared to the previous week ending 3rd Jan.
- In total, 80,871 (97%) of these contacts had been informed of their close contact status by time of CMP report preparation.
- The number of complex contact setting contacts increased by 75% to 7,310 for the week ending 10th Jan

Source: HSE – CMP report



**SARS-CoV-2 PCR test referrals for individuals who recently travelled to Ireland from UK
(22/12/2020-12/01/2021)**

Total referrals	No lab <u>result</u> matched to referral	Detected	Not detected	Detected %
8,070	1,119	352	6,599	5.3

Source: HSE – data as of 13/01/2021

**SARS-CoV-2 PCR test referrals for individuals who recently travelled to Ireland from South Africa
(11/01/2021-12/01/2021)**

Total referrals	No lab <u>result</u> matched to referral	Detected	Not detected	Detected %
21	13	1	7	12.5%

Source: HSE – data as of 13/01/2021

Variants of concern update

Growth Rate

Retrospective analysis of Irish specimens dating from prior to the notification of the VOC by the UK authorities on the 21st December 2020 indicates that the VOC was first detected in Ireland in early November (week 45 in the surveillance year). In that week, a single VOC was identified (retrospectively) in 52 specimens tested. Further detections were identified (retrospectively [n=353] and prospectively [n=764]) as follows;

Testing for SGTF

Week 45	1/52	
Week 46	0/36	
Week 47	0/32	
Week 48	3/50	
Week 49	1/62	
Week 50	2/141	1.4%
Week 51	6/70	8.6%
Week 52	29/178	16.3%
Week 53	111/424	26.2%
Week 1 2021	43/94	45.7%

- Plotting the detection rate of the VOC in recent weeks demonstrates a significant increase in the second half of December.
- Of note, the detection rate of the UK variant in those individuals tested positive and known to have recently travelled from the UK over that time period (weeks 51-53) is significantly higher, at 48% (61/127).

Source: NVRL

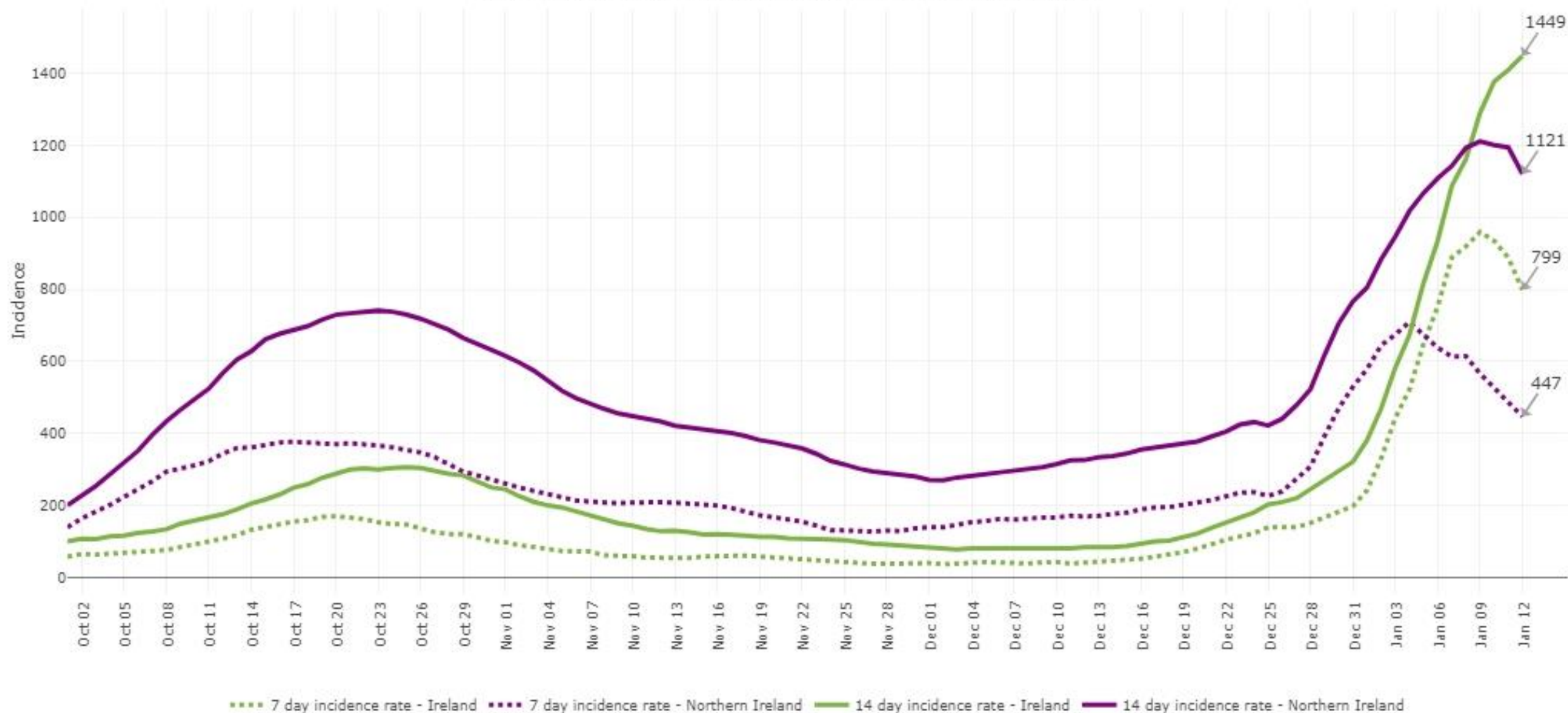
Whole Genome Sequencing of VOC

- The NVRL has reported that it has completed **whole genome sequencing of 51 suspected variants** of concern taken in the Republic of Ireland between December 21st, 2020 and January 3rd, 2021.

Based on these analyses:

- The presence of both UK (B.1.1.7) (n=48 cases identified) and South African (501.V2) SARS-CoV-2 lineages (n=3 cases identified) has been confirmed by whole-genome sequencing in the Republic of Ireland.
- The clustering of the Irish sequences with multiple clades in the B.1.1.7 lineage suggests multiple differentiable introductions to Ireland.
- The three samples of the B.1.351 lineage clustered together suggesting recent divergence.

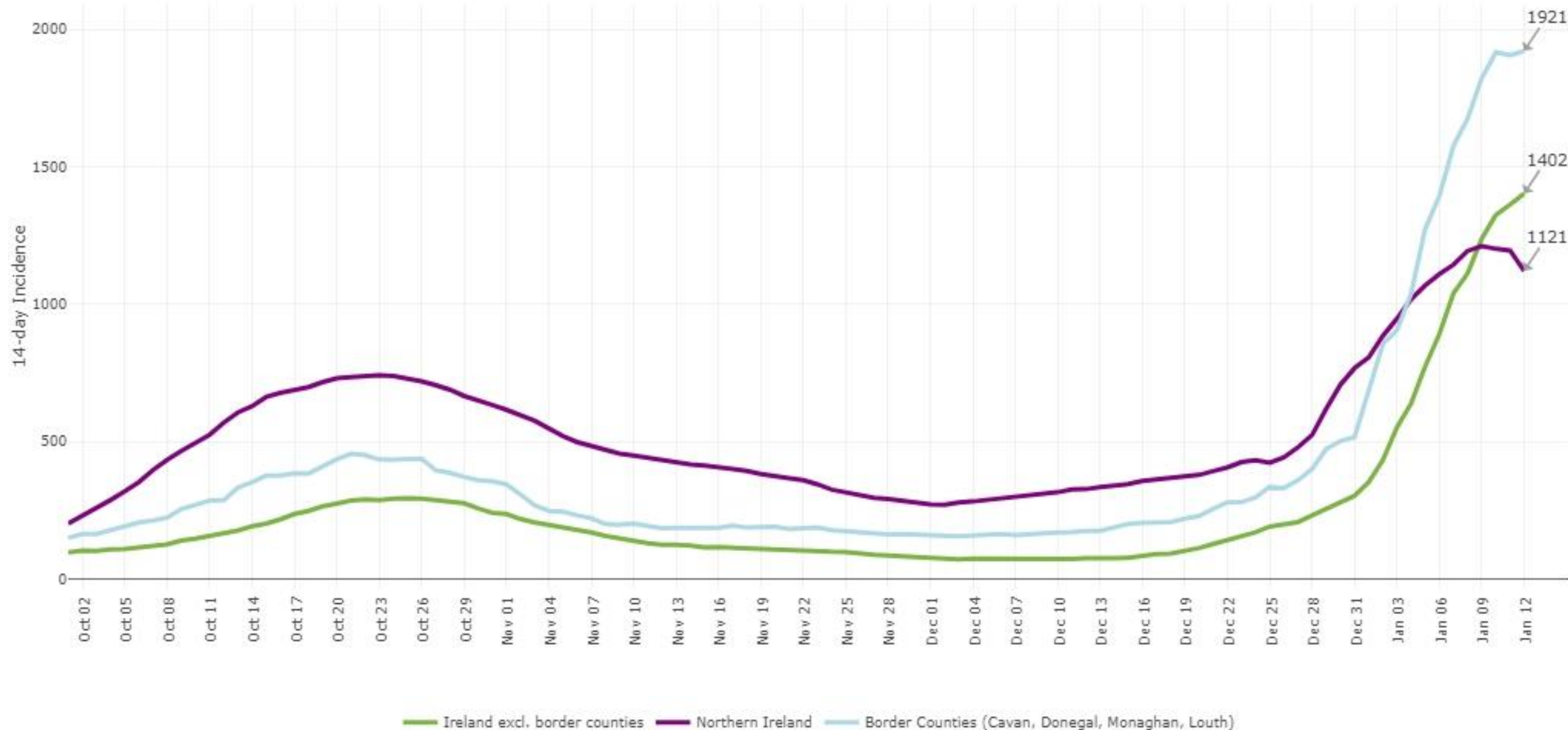
7 and 14 day Incidence rates for Ireland and Northern Ireland



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

Source: HPSC CIDR Extract 130121 and health-ni.gov.uk daily data 13/01/21

14 day Incidence rates for Ireland (excl border counties), Northern Ireland, and Border Counties (Cavan, Donegal, Monaghan & Louth)



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

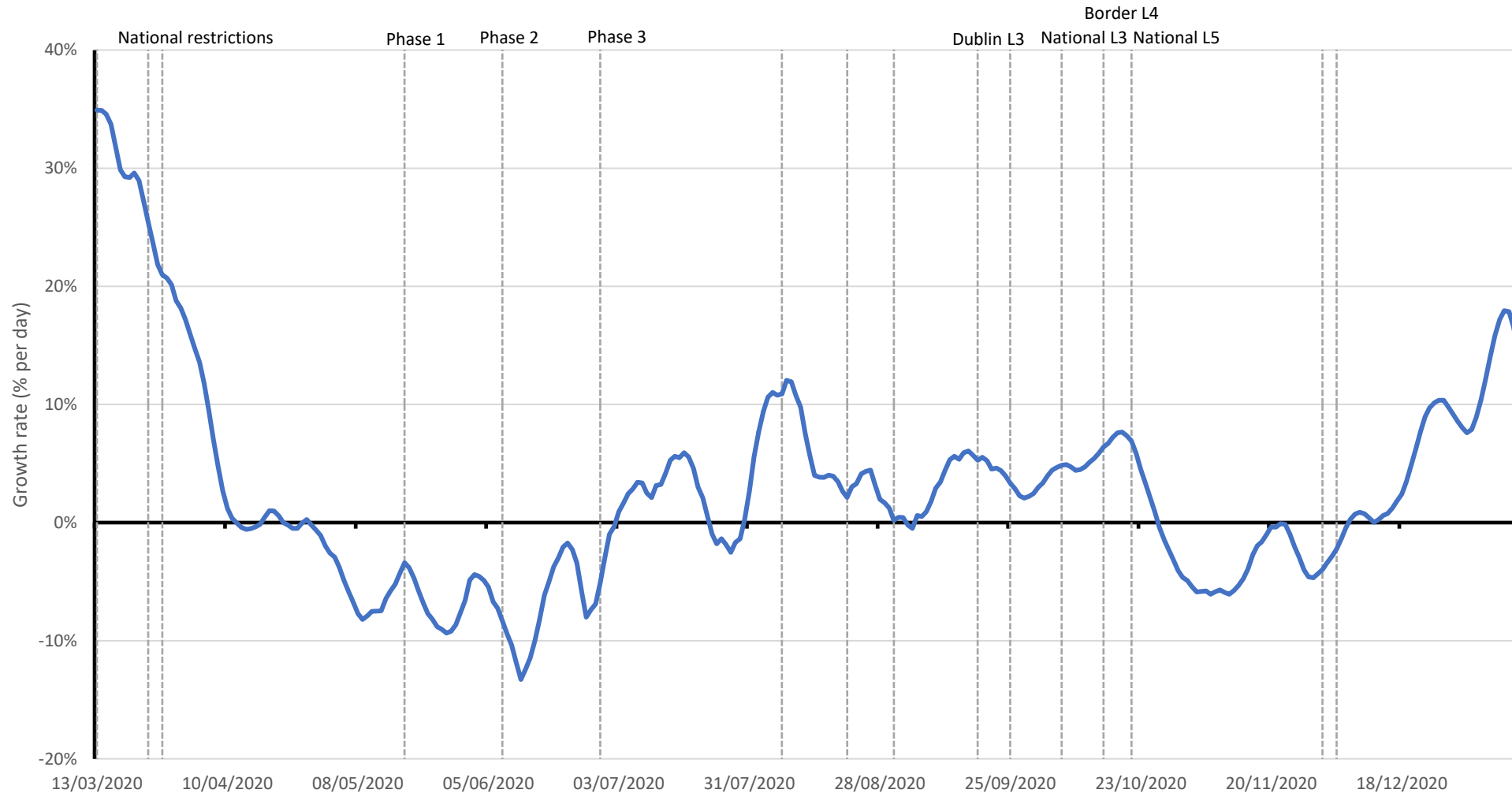
Source: HPSC CIDR Extract 130121 and health-ni.gov.uk daily data 13/01/21.



Growth in Cases & R number

Growth rate for case numbers

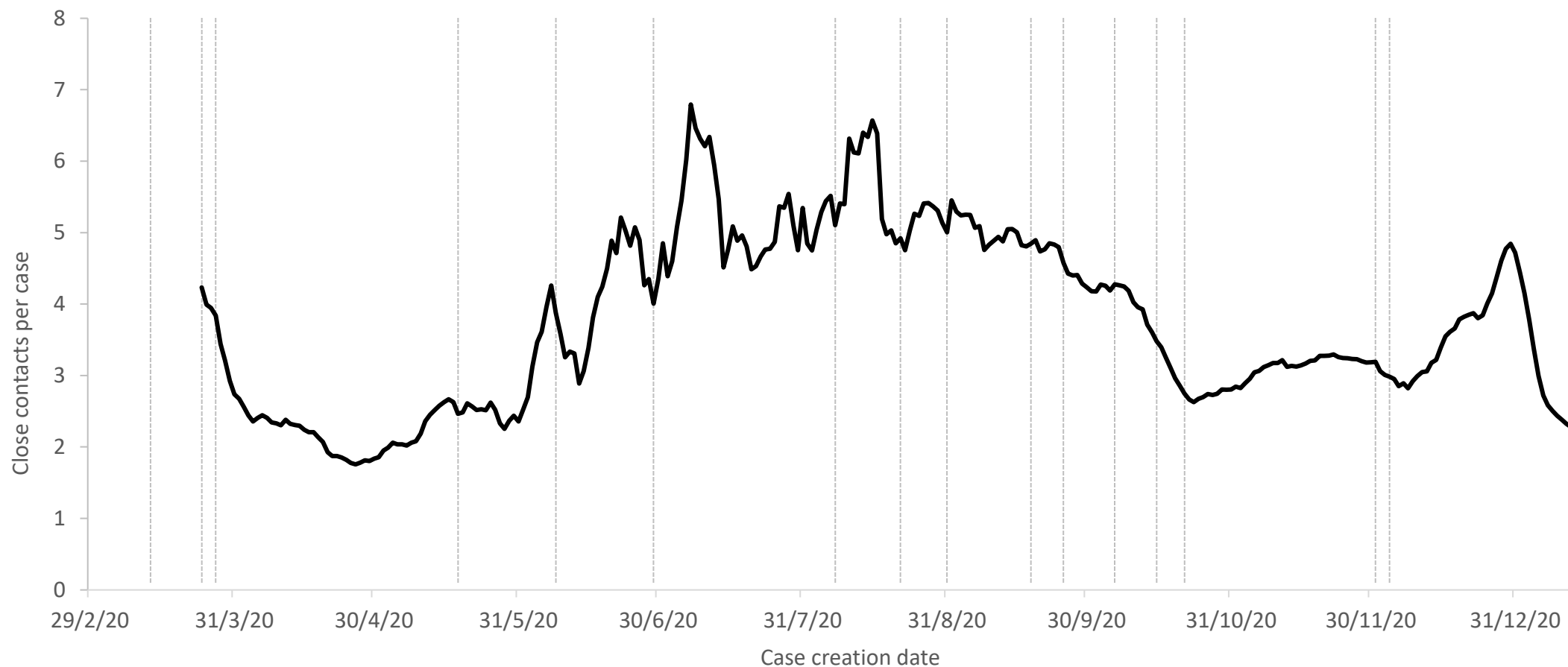
Growth rate peaked at almost 18% per day over the 14-day period up to 10 January 2021, and is now starting to decrease



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

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 decreasing rapidly; it is currently 2.3



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.

Situation analysis 14 January 2021



- Incidence is **exceptionally high** (20 times that in early December) but is **starting to fall**
 - Cases (5-day average) **4956 cases per day**; 14-day incidence **1449 per 100,000**
 - Incidence very high across **all age groups, especially young adults**
 - Incidence in those 65 and older continues to increase and a cause for concern
 - Incidence in those aged 18 and younger remains at or below population average
 - Growth rate starting to decrease, R close to 1
- **Numbers in hospital and ICU continue to increase**
- **Rapidly increasing incidence in long-term care settings and vulnerable groups**
- **Mortality increasing**: there will be a large number of deaths in the coming weeks
- Scenario models suggest of 2200 - 2500 people in hospital, and 200-400 people in ICU by mid-January, if we do not act to radically reduce transmission and incidence
- There is some evidence that the rate of growth may be slowing
 - The average number of close contacts of adult confirmed cases peaked at 4.7 on 28 December and is now falling rapidly (2.3 on 12 Jan)
 - The test positivity rate and the number of positive tests per day is decreasing
 - Average daily case counts have peaked at 7000 per day and should now start to fall
- This is a signal to maintain and redouble our efforts: we have some way to go, and we **must suppress transmission** to protect each other from serious illness, and to protect our health services and healthcare workers.



European Data

EU/UK ranked by 14 day percentage change (12th January)

EU/EEA and the UK	14 day incidence	Previous 14 day incidence	% change in 14 day incidence
Ireland	1359.96	236.2	476%
Portugal	946.87	455.3	108%
Spain	521.27	280.81	86%
Malta	504.6	280.38	80%
Czechia	1490.31	924	61%
United Kingdom	1153.89	731.41	58%
Slovenia	1168	915.09	28%
France	357.34	281.44	27%
Italy	389.96	325.68	20%
Slovakia	756.31	634.91	19%
Cyprus	751.46	630.89	19%
Latvia	694.57	594	17%
Poland	335.95	320.21	5%
Estonia	592.14	572.99	3%
Austria	316.23	307.26	3%
Romania	280.19	297.89	-6%
Germany	329.68	359.28	-8%
Finland	64.81	71.49	-9%
Sweden	775.63	866.44	-10%
Belgium	223.57	258.76	-14%
Greece	86.77	101.74	-15%
Hungary	277.23	329.26	-16%
Lithuania	994.13	1389.75	-28%
Netherlands	621.45	876.91	-29%
Bulgaria	149.53	218.81	-32%
Denmark	438.56	732.67	-40%
Luxembourg	334.36	613.12	-45%
Croatia	350.43	654.72	-46%

- 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 (12th January)

EU/EEA and the UK	14 day incidence	Previous 14 day incidence	% change in 14 day incidence
Czechia	1490.31	924	61%
Ireland	1359.96	236.2	476%
Slovenia	1168	915.09	28%
United Kingdom	1153.89	731.41	58%
Lithuania	994.13	1389.75	-28%
Portugal	946.87	455.3	108%
Sweden	775.63	866.44	-10%
Slovakia	756.31	634.91	19%
Cyprus	751.46	630.89	19%
Latvia	694.57	594	17%
Netherlands	621.45	876.91	-29%
Estonia	592.14	572.99	3%
Spain	521.27	280.81	86%
Malta	504.6	280.38	80%
Denmark	438.56	732.67	-40%
Italy	389.96	325.68	20%
France	357.34	281.44	27%
Croatia	350.43	654.72	-46%
Poland	335.95	320.21	5%
Luxembourg	334.36	613.12	-45%
Germany	329.68	359.28	-8%
Austria	316.23	307.26	3%
Romania	280.19	297.89	-6%
Hungary	277.23	329.26	-16%
Belgium	223.57	258.76	-14%
Bulgaria	149.53	218.81	-32%
Greece	86.77	101.74	-15%
Finland	64.81	71.49	-9%

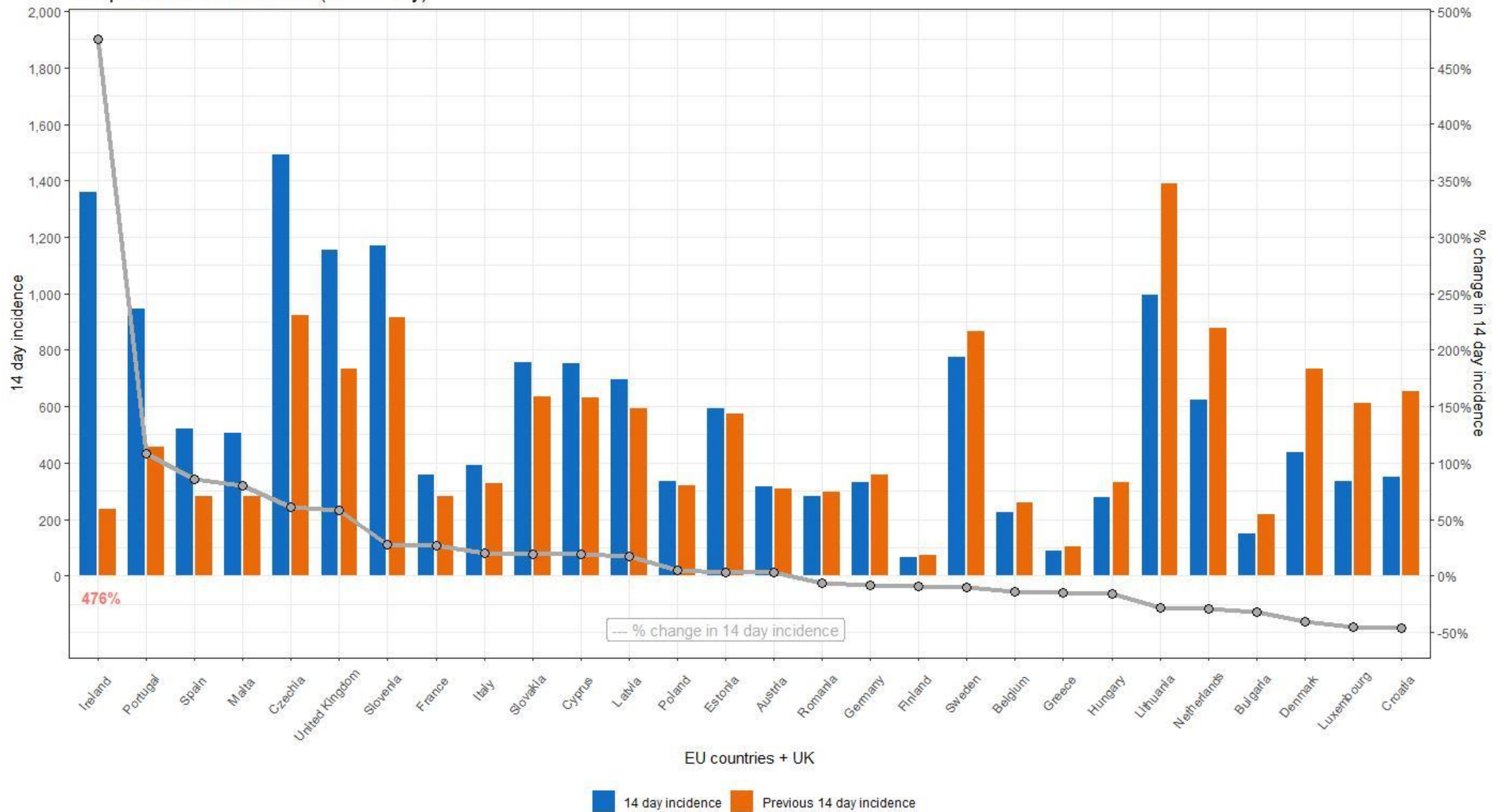
- As of 16th Dec, this daily data is now sourced from Our World In Data (OWID) instead of ECDC as they have switched to weekly reporting (Thursday evenings).
- OWID source their confirmed cases and deaths data from the COVID-19 Data Repository by the Center for Systems Science and Engineering (CSSE)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

EU/UK ranked by 7 day percentage change (12th January)

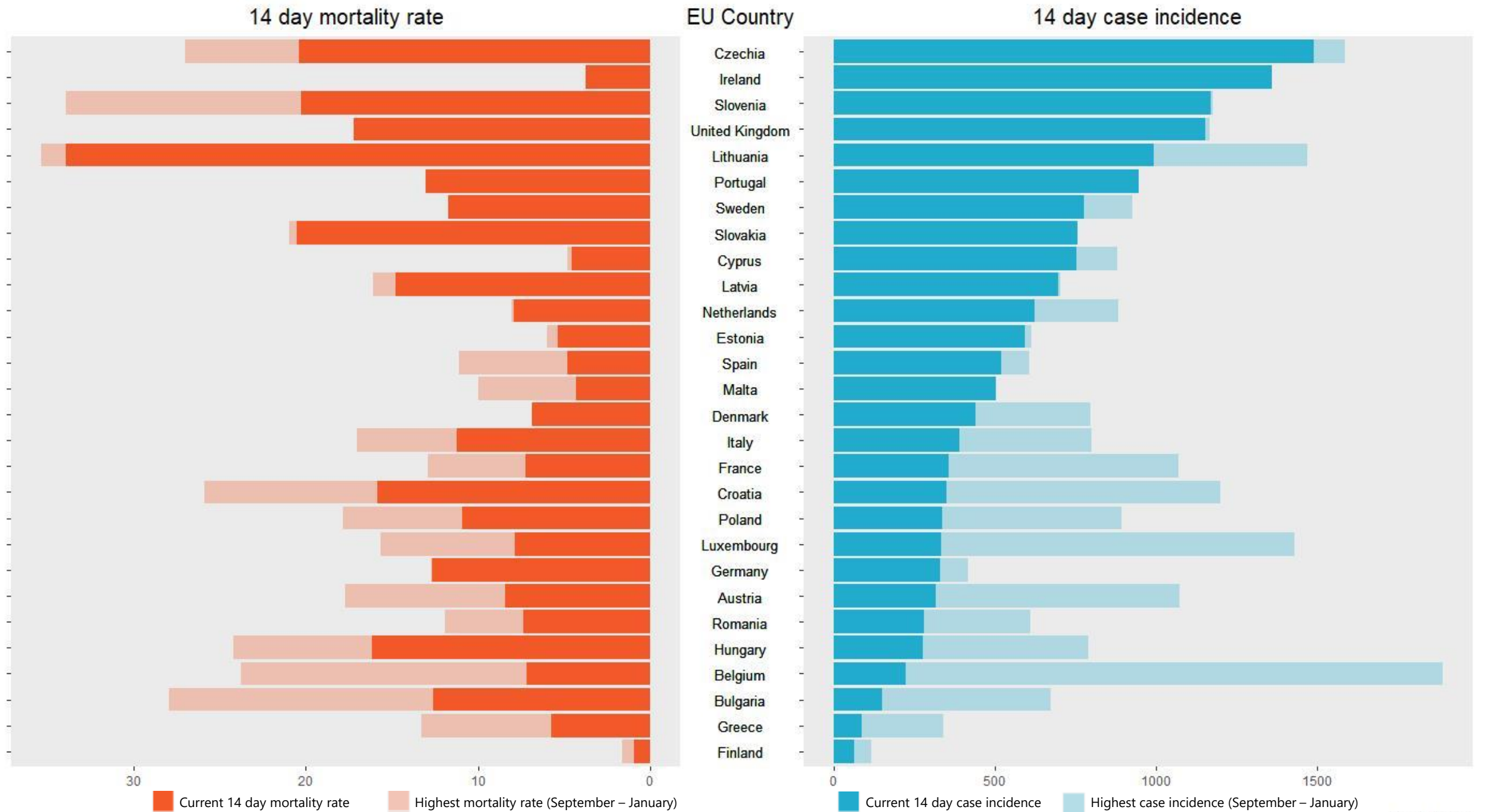
EU/EEA and the UK	7 day incidence	Previous 7 day incidence	% change in 7 day incidence
Spain	330.82	190.44	74%
Ireland	856.03	503.93	70%
Portugal	588.16	358.71	64%
Malta	312.77	191.83	63%
Belgium	125.86	97.71	29%
Germany	183.52	146.16	26%
Hungary	151.45	125.77	20%
Slovenia	635.76	532.24	19%
France	193.76	163.58	18%
Czechia	795.26	695.05	14%
Estonia	315.71	276.43	14%
Romania	149.08	131.11	14%
Latvia	362.37	332.2	9%
Italy	201.19	188.77	7%
Poland	172.37	163.58	5%
Greece	43.82	42.95	2%
Finland	32.36	32.45	0%
United Kingdom	575.35	578.54	-1%
Austria	156.69	159.54	-2%
Slovakia	373.49	382.83	-2%
Luxembourg	164.86	169.5	-3%
Sweden	367.53	408.1	-10%
Netherlands	290.17	331.27	-12%
Croatia	160.57	189.85	-15%
Lithuania	435.33	558.79	-22%
Denmark	190.65	247.9	-23%
Bulgaria	64.63	84.9	-24%
Cyprus	307	444.46	-31%

- 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 (12 January)



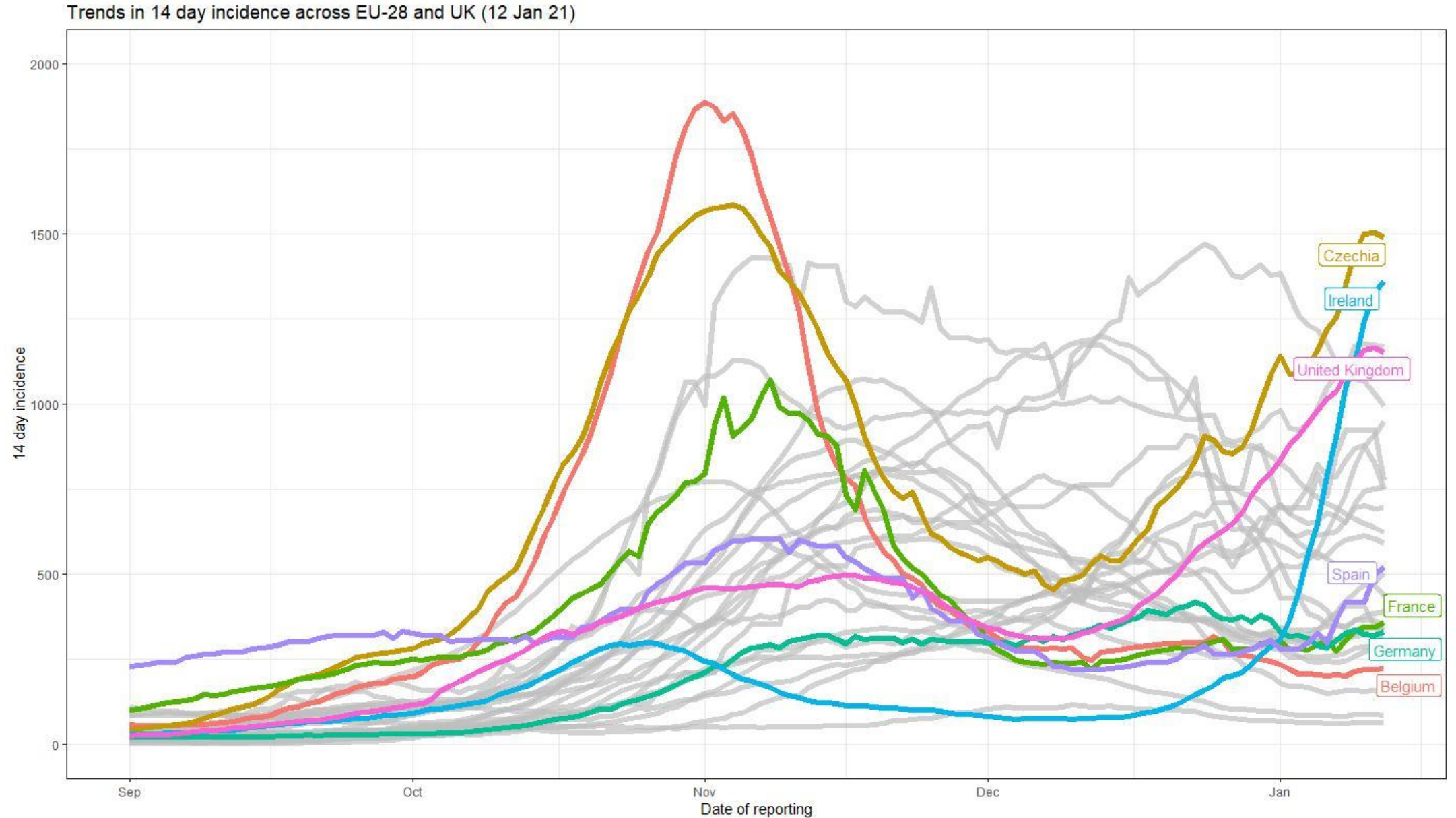
- As of 16th Dec, this daily data is now sourced from Our World In Data (OWID) instead of ECDC as they have switched to weekly reporting (Thursday evenings).
- OWID source their confirmed cases and deaths data from the COVID-19 Data Repository by the Center for Systems Science and Engineering (CSSE)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



Updated 12 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>

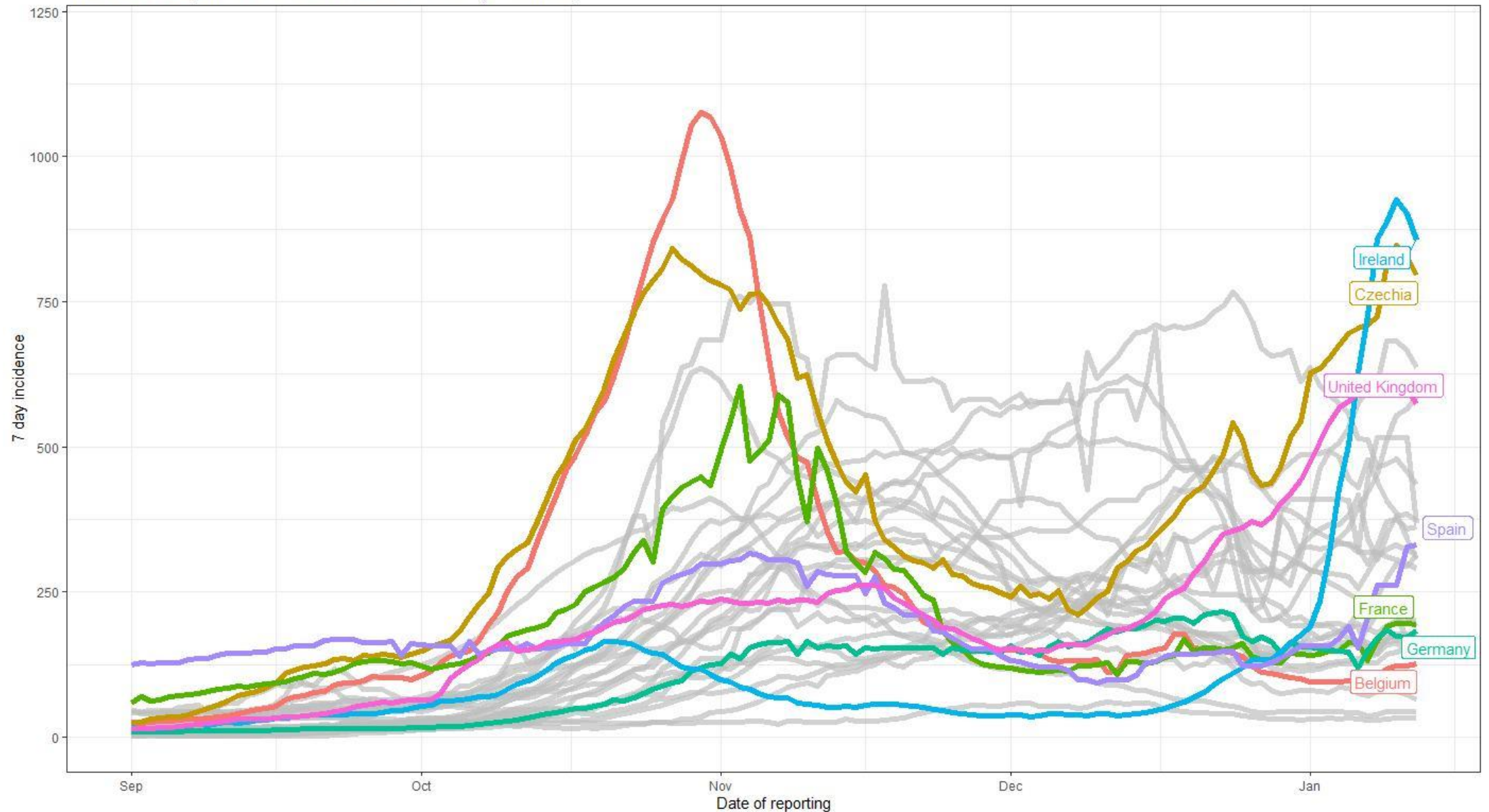
European trends since start September (14 day incidence)



- 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 trends since start September (7 day incidence)

Trends in 7 day incidence across EU-28 and UK (12 Jan 21)



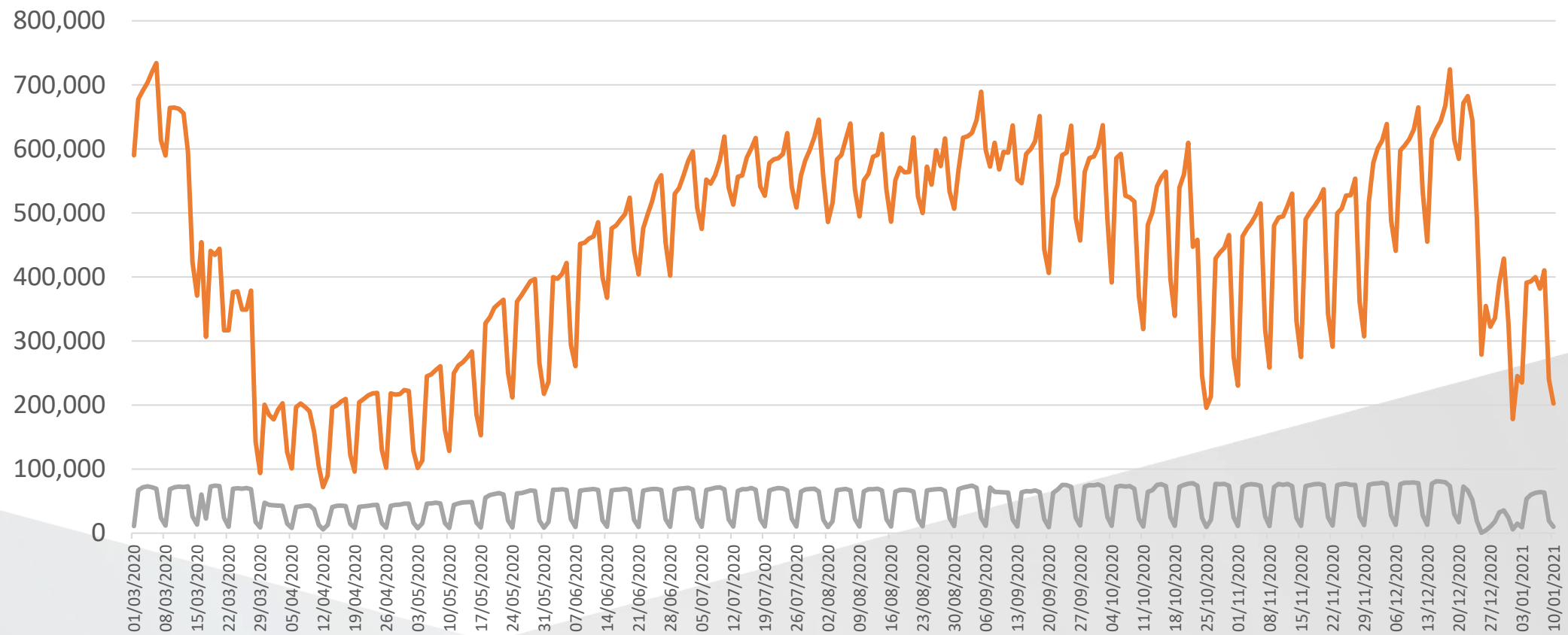
- As of 16th Dec, this daily data is now sourced from Our World In Data (OWID) instead of ECDC as they have switched to weekly reporting (Thursday evenings).
- OWID source their confirmed cases and deaths data from the COVID-19 Data Repository by the Center for Systems Science and Engineering (CSSE)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



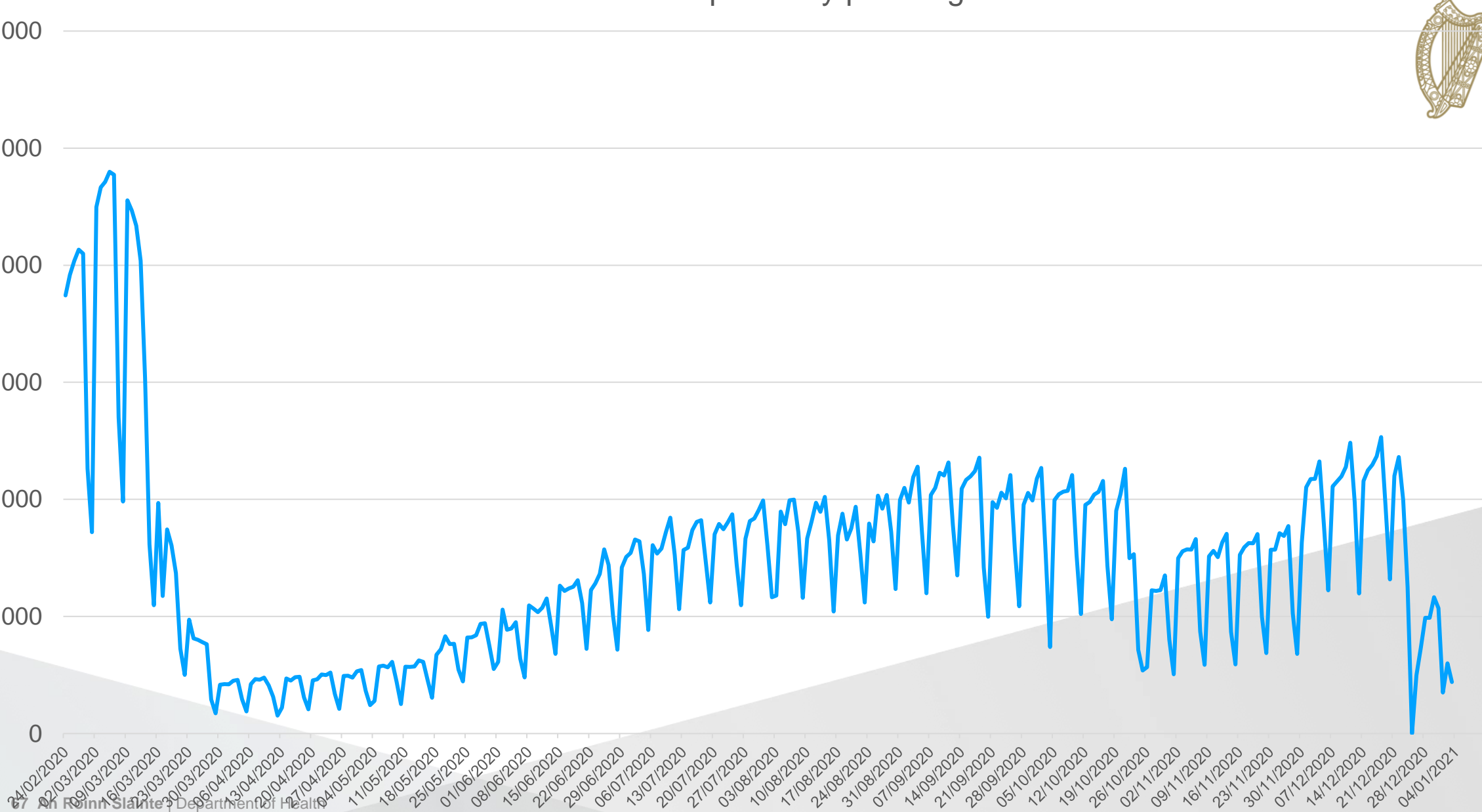
Compliance Data



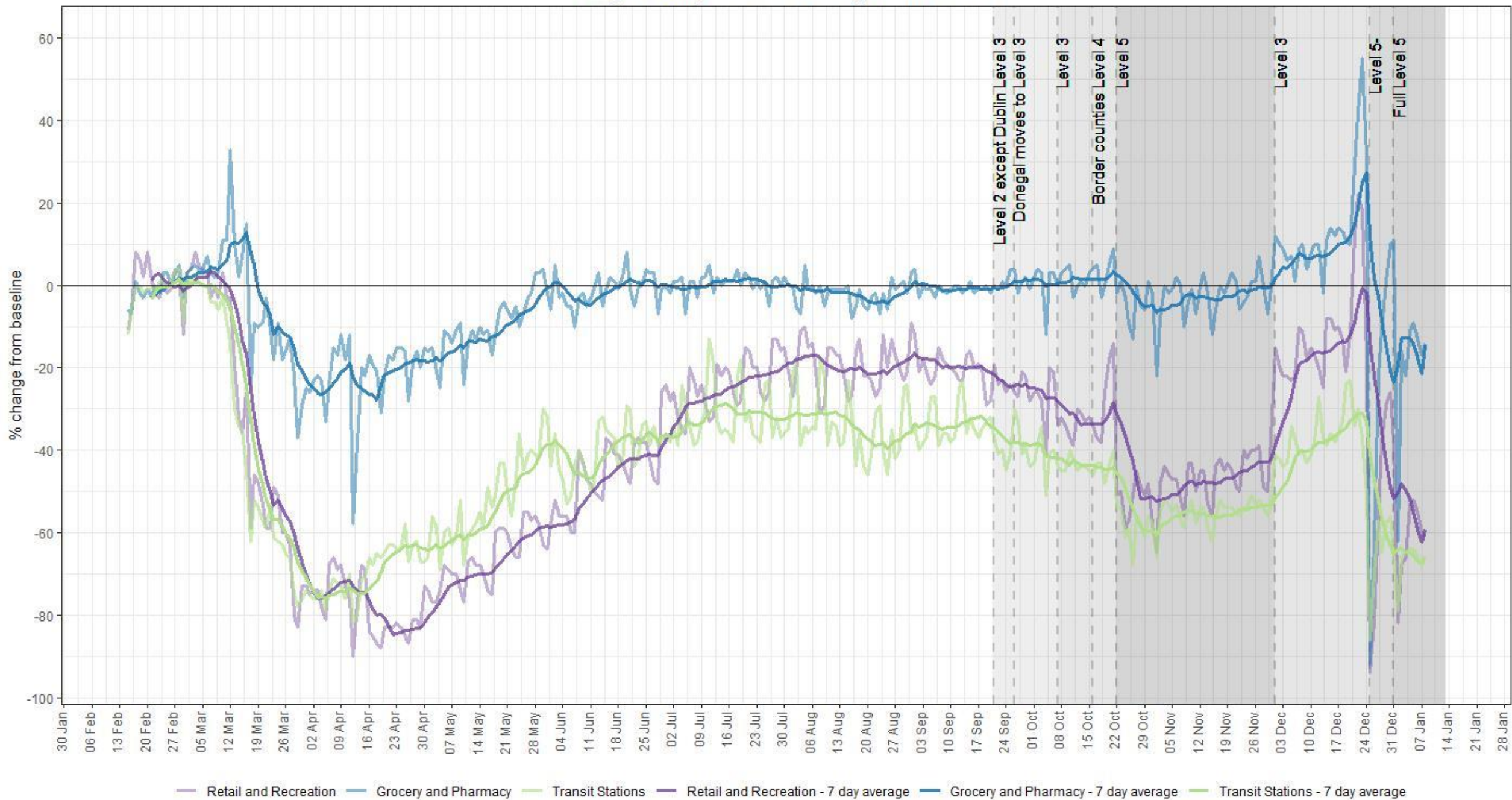
Daily Traffic Flow



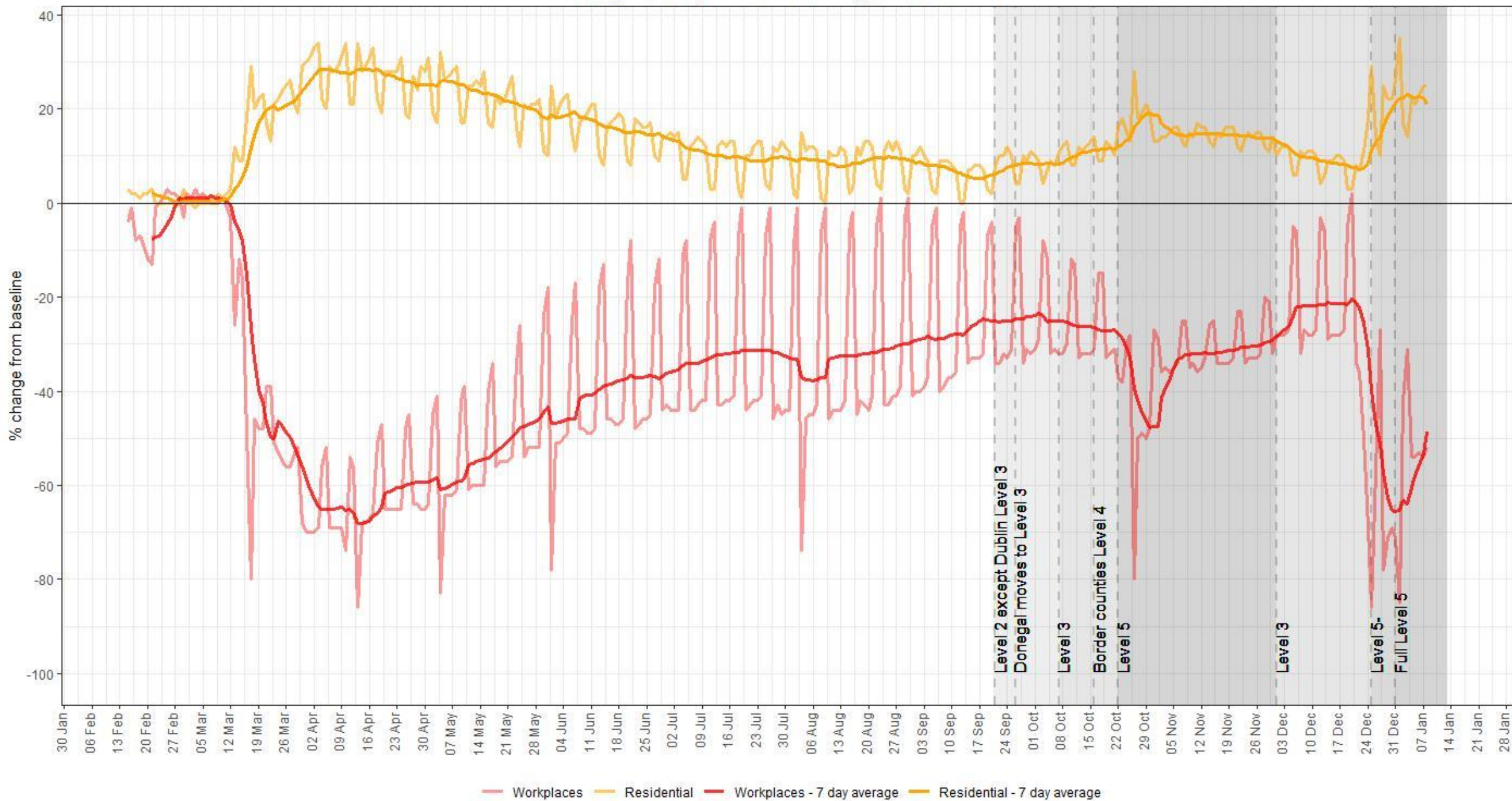
Overall Public Transport daily passengers



Google Mobility Ireland - % change from baseline



Google Mobility Ireland - % change from baseline



Apple Mobility Ireland - % change from baseline

