



An Roinn Sláinte
Department of Health

NPHET COVID Update 11th February 2021

Current situation



	01-Oct	26-Oct (2 nd wave peak 14 day inc.)	01-Dec	01-Jan	14-Jan (3 rd wave peak 14 day inc.)	29-Jan	02-Feb	06-Feb	10-Feb
14-day incidence	96.08	306.29	86.92	320.82	1495.55	573.93	453.62	345.41	312.08
5-day average cases	407.0	920.0	261.0	1477.6	4464.0	1266.0	1157.2	1014.8	848.0
Total weekly cases	2607	7003	1893	9422	35402	9611	8579	7379	6600

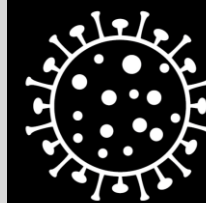
	01-Oct	26-Oct (2 nd wave peak 14 day inc.)	01-Dec	01-Jan	14-Jan (3 rd wave peak 14 day inc.)	29-Jan	02-Feb	06-Feb	10-Feb
No. Hospital (8.A.M)	122	344	224	508	1792	1552	1418	1199	1032
No. in ICU (6.30 P.M)	22	40	30	42	176	214	204	181	178

	01-Oct	26-Oct (2 nd wave peak 14 day inc.)	01-Dec	01-Jan	14-Jan (3 rd wave peak 14 day inc.)	29-Jan	02-Feb	06-Feb	10-Feb
Positivity rate (7 day average)	3.0%	6.1%	2.7%	12.5%	17.0%	7.6%	6.5%	6.1%	5.8%

	October	November	December	January	February
Total Deaths	127	169	182	1220	292
Deaths associated with Nursing Home outbreaks	52	53	64	472	129
Deaths associated with Hospital outbreaks	25	59	61	149	21

Cases, numbers in hospital and intensive care

Case numbers remain high. The number of people in hospital is decreasing, and the number in ICU is starting to fall.
The number of deaths per day remains very high.



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	Apr 2020	Summer 2020	Oct 2020	Dec 2020	Jan 2021	13 Jan	20 Jan	27 Jan	3 Feb	10 Feb	Daily count 10 Feb
Cases confirmed per day	859 18-04	8.7 25-06	1158 21-10	262 12-12	6520 10-01	5436	2891	1699	1188	943	829
14-day incidence <i>per 100,000 population</i>	212 19-04	3.0 04-07	306 26-10	79 09-12	1532 15-01	1449	1223	674	424	312	
Hospital in-patients	862 17-04	9 02-08	333 01-11	198 16-12	1949 24-01	1414	1901	1889	1499	1188	1032
<i>Hospital admissions per day</i>	85 04-04	<1 10-07	27 26-10	11 13-12	158 15-01	146	132	89	68	52	40
ICU confirmed cases	150 14-04	4 04-08	43 04-11	26 27-12	217 28-01	133	194	217	209	179	173
<i>ICU admissions per day</i>	14 31-03	<1 03-06	4 03-11	1 16-12	20 17-01	20	19	15	11	6	9
Deaths confirmed per day	46 22-04	<1 30-07	7 01-12	4 17-12	57 03-02	23	44	50	57	41	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. 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.



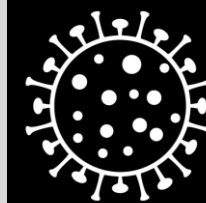
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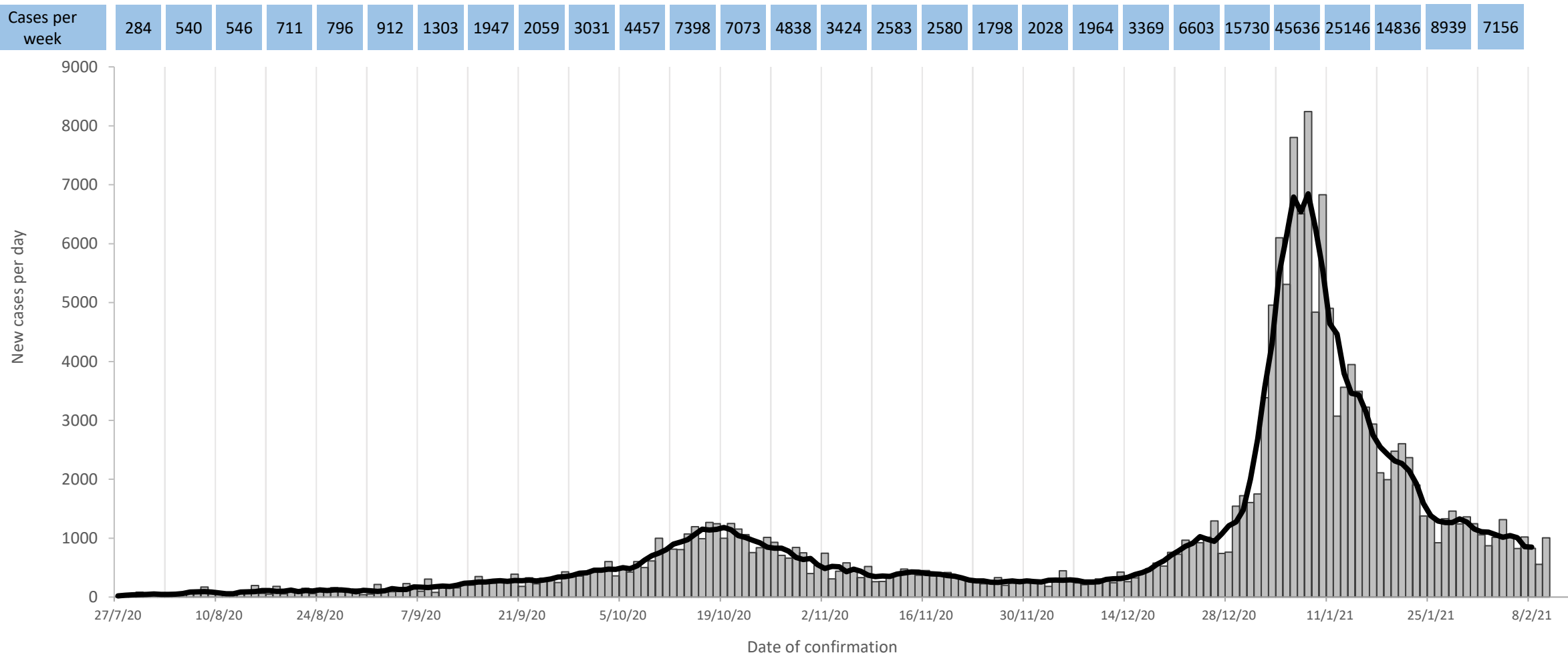
Cases, Incidence Rates & Testing

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 **848**



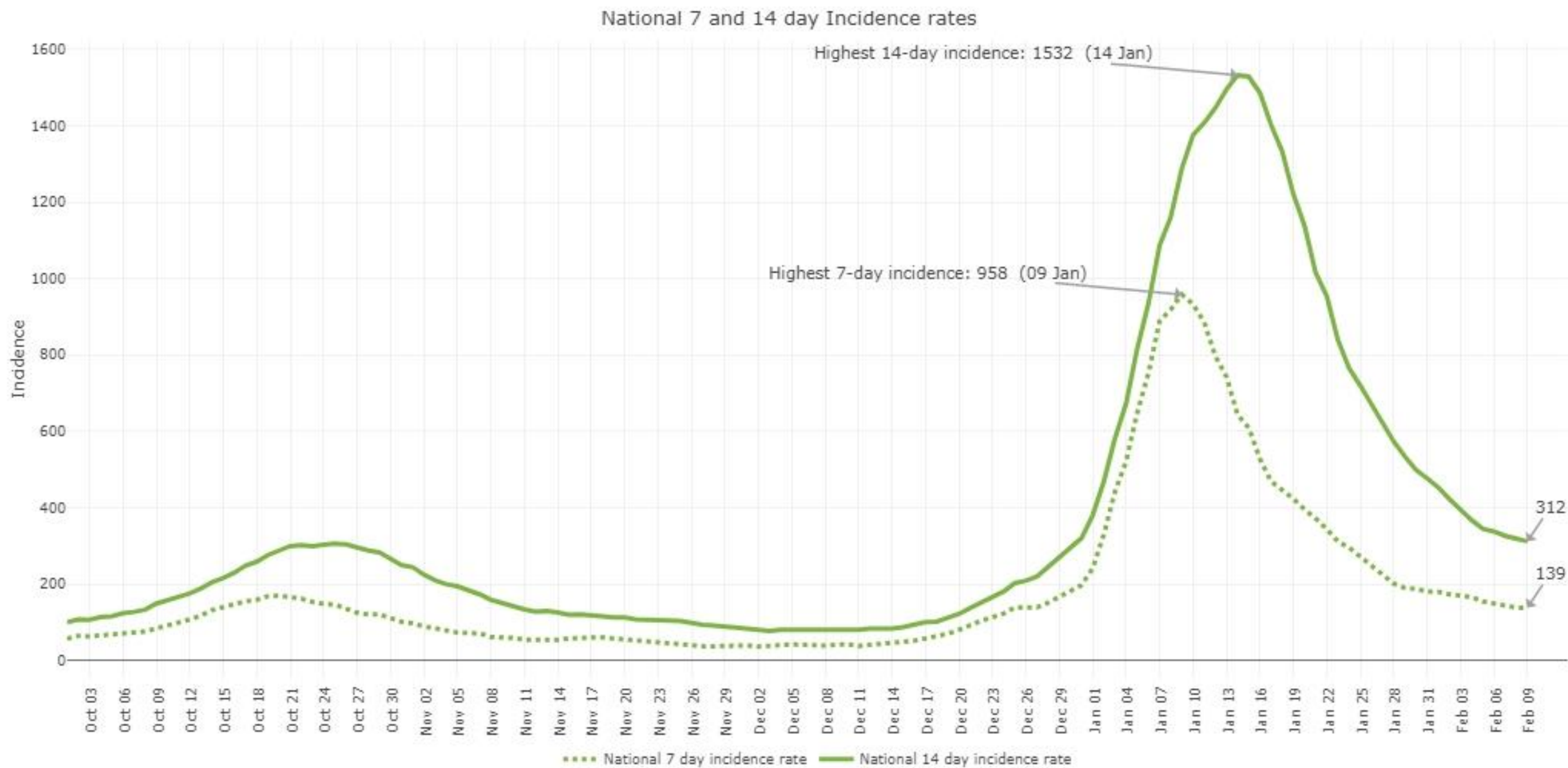
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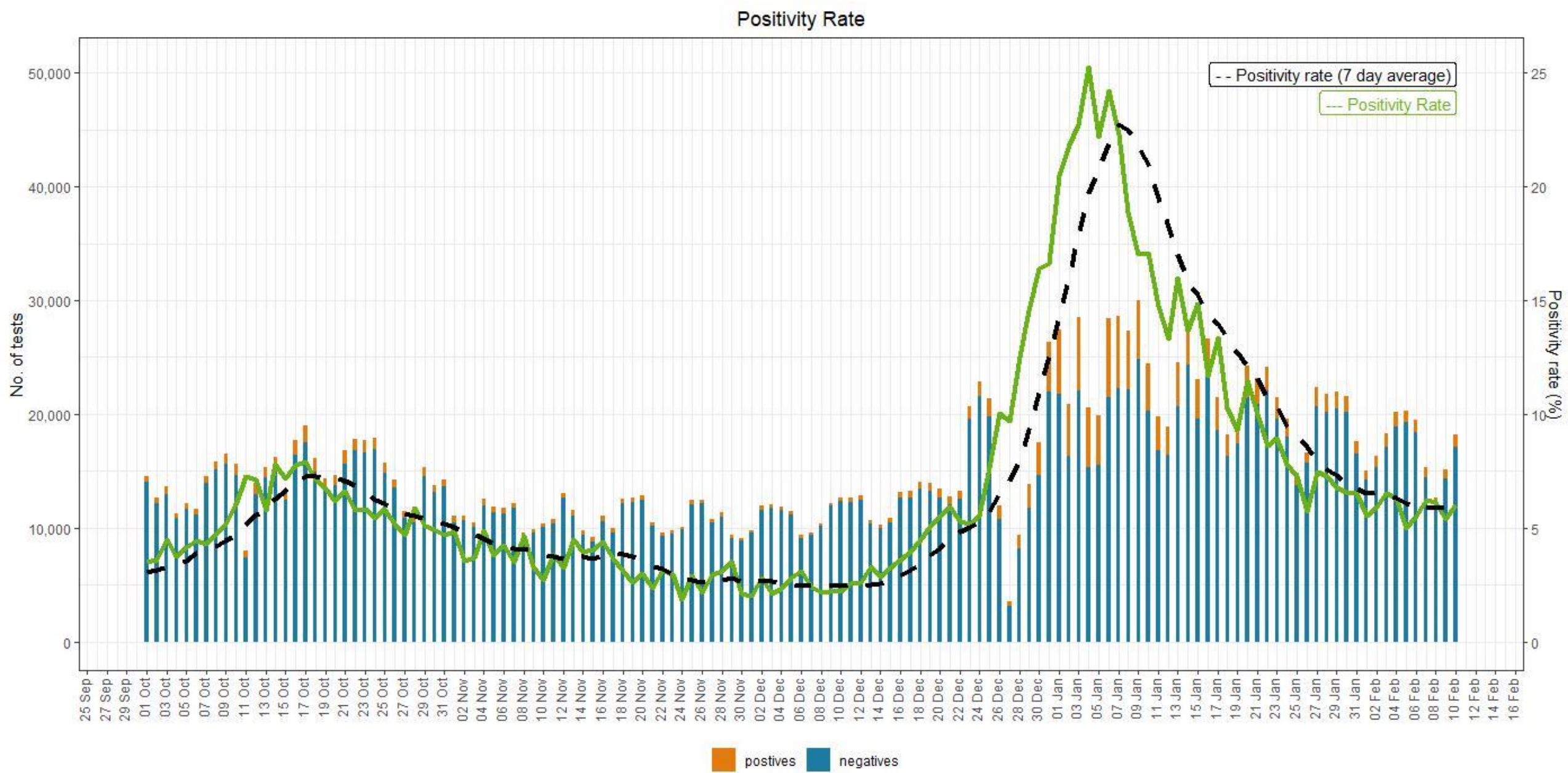
Daily count (bars) 5-day average (line) and weekly counts of the number of laboratory confirmed new cases by date on which they were confirmed by HPSC. Case counts may change due to denotification of cases. Weekly case counts are by notification (event date) and standard epidemiological week.



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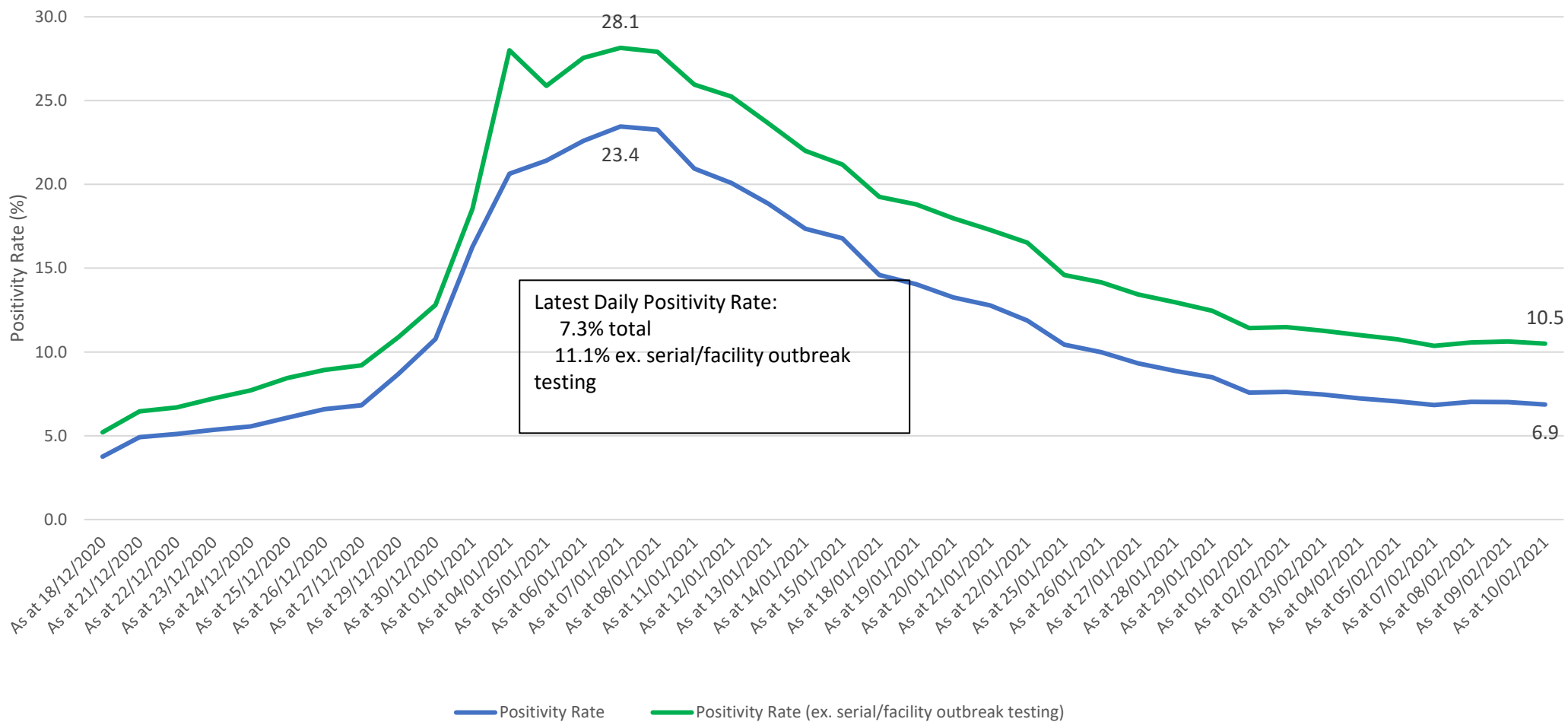
Recent trend in positivity rate



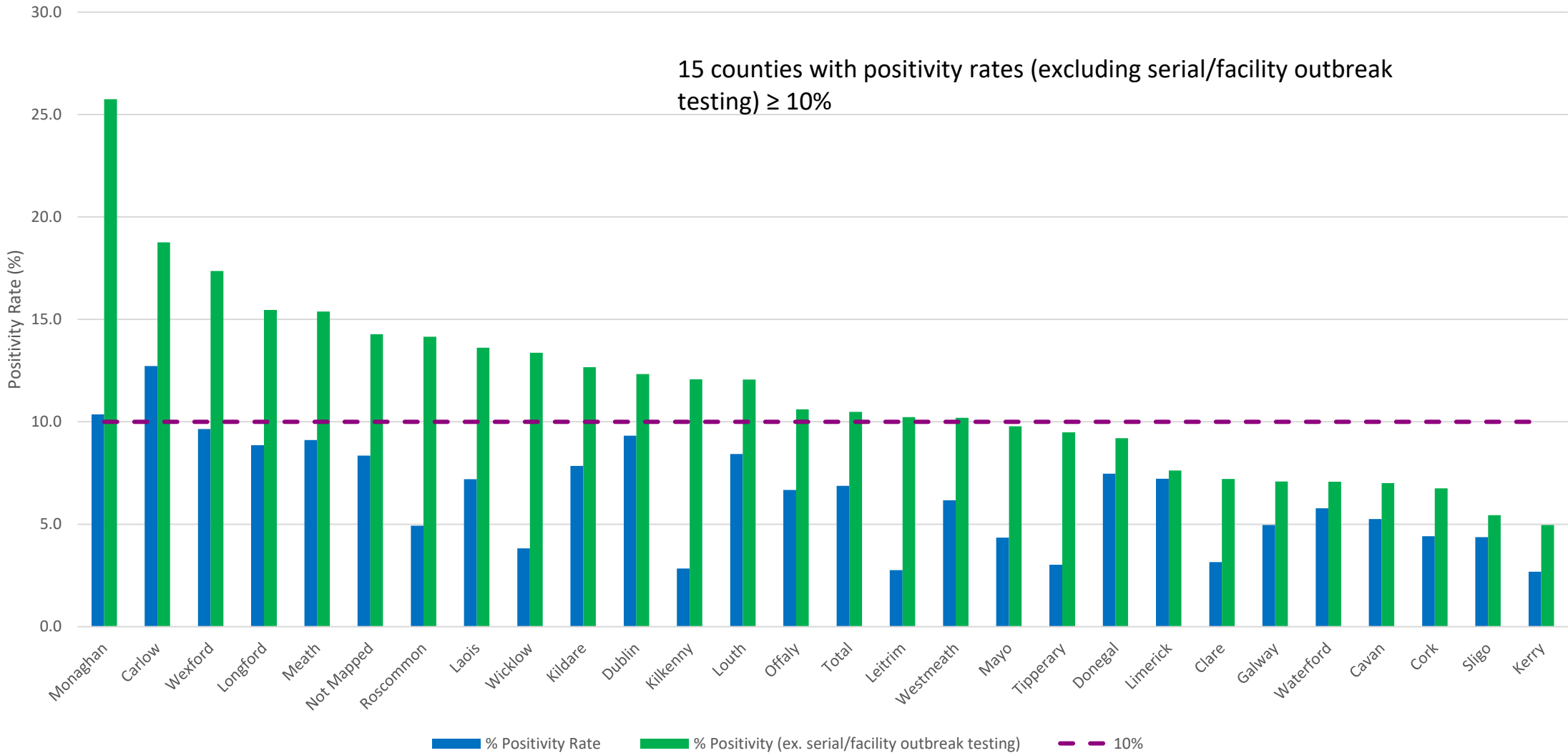


% Positivity Rate in Total Tests over Preceding 7 Days inc./ex. Serial/Facility Outbreak Testing

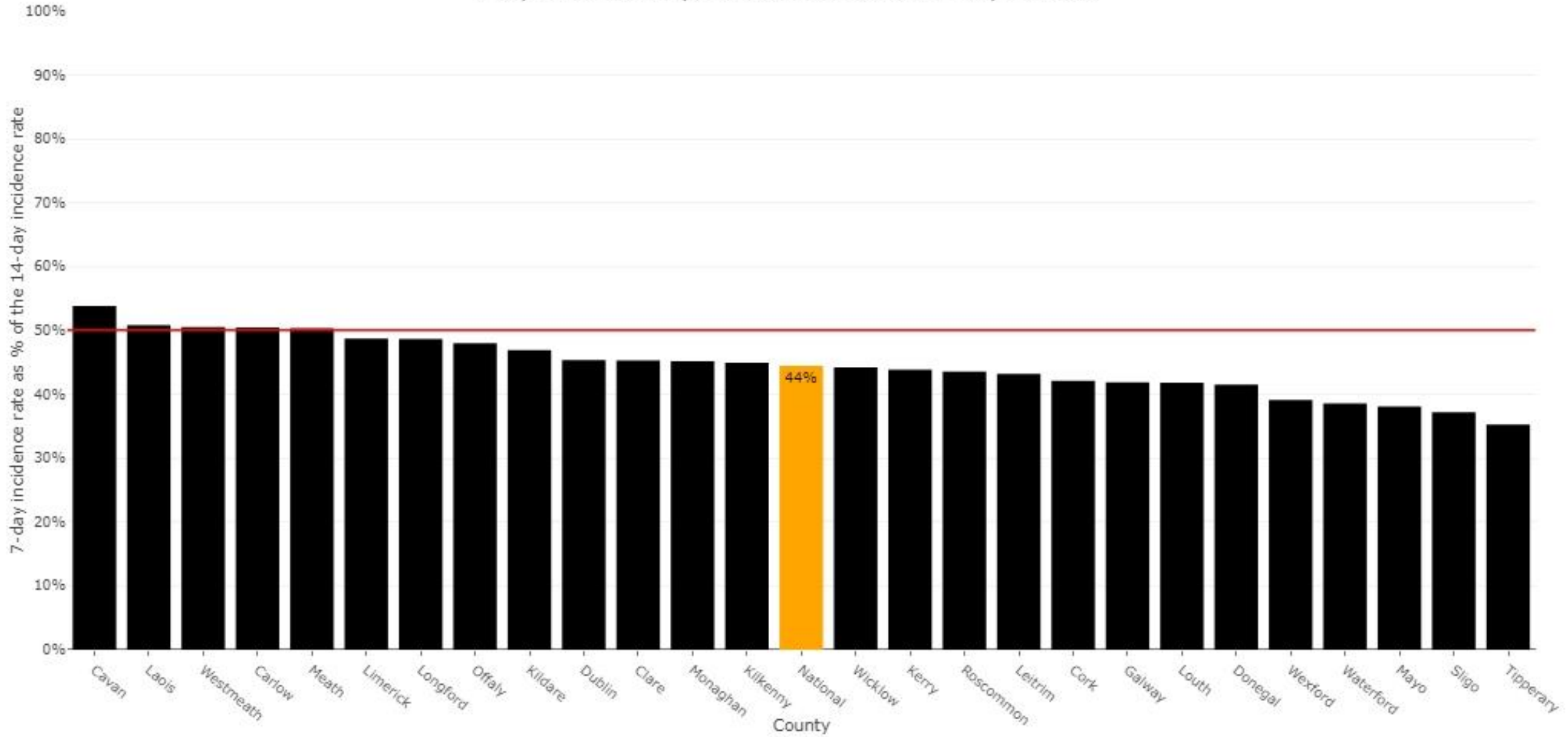
(Data provided by HSE Contact Tracing Team and may differ from daily positivity rate data from Cumulative Lab)



% Positivity Rate Past 7 Days (inc./ex. serial/facility outbreak testing) by County as at 10/02/21
(Data provided by HSE Contact Tracing Team and may differ from daily positivity rate data from Cumulative Labs Report)

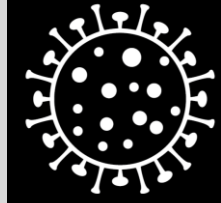


7-day incidence rate per 100,000 as % of the 14-day incidence

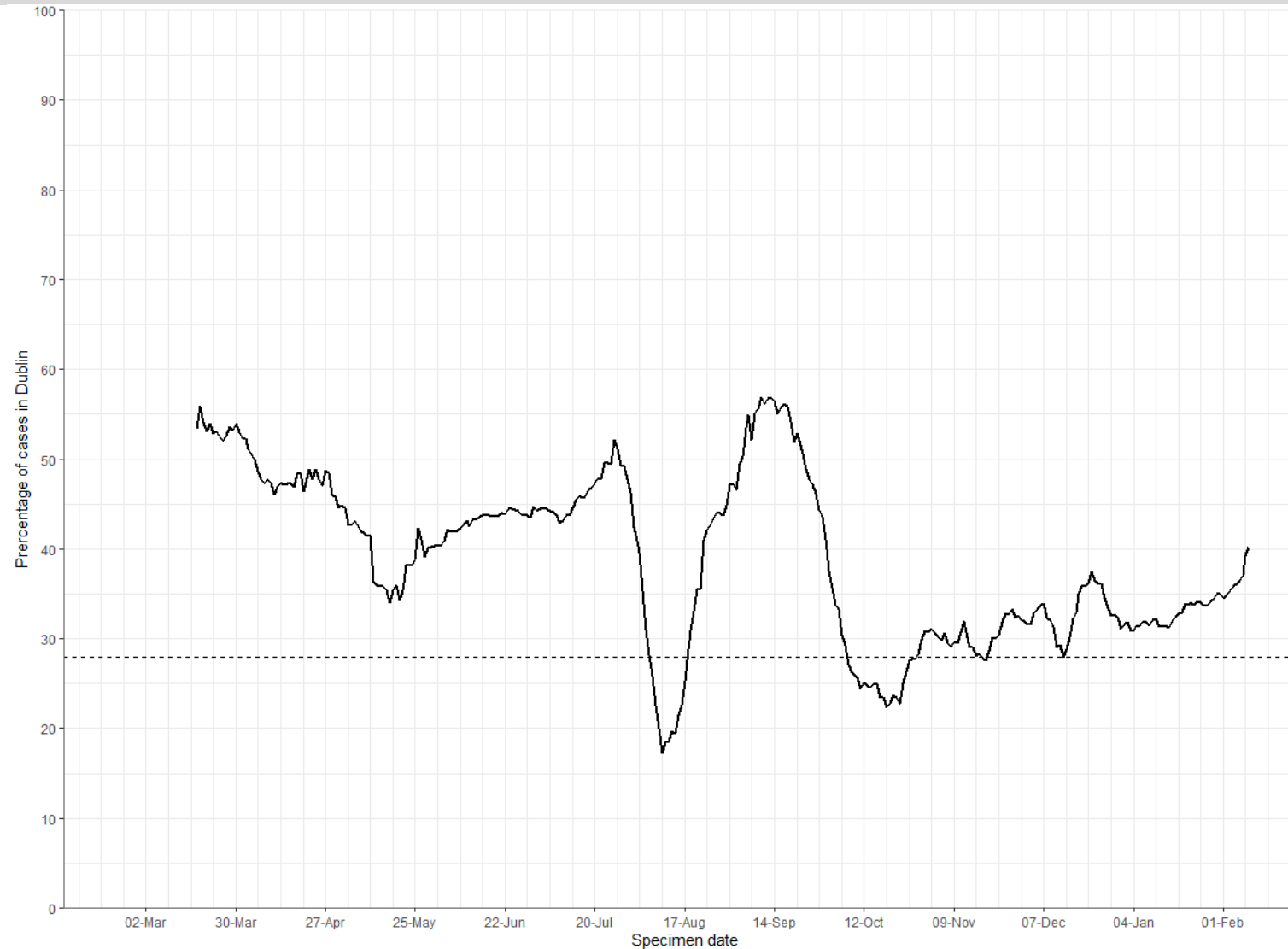


Proportion of cases in Dublin

The proportion of cases in Dublin has been increasing



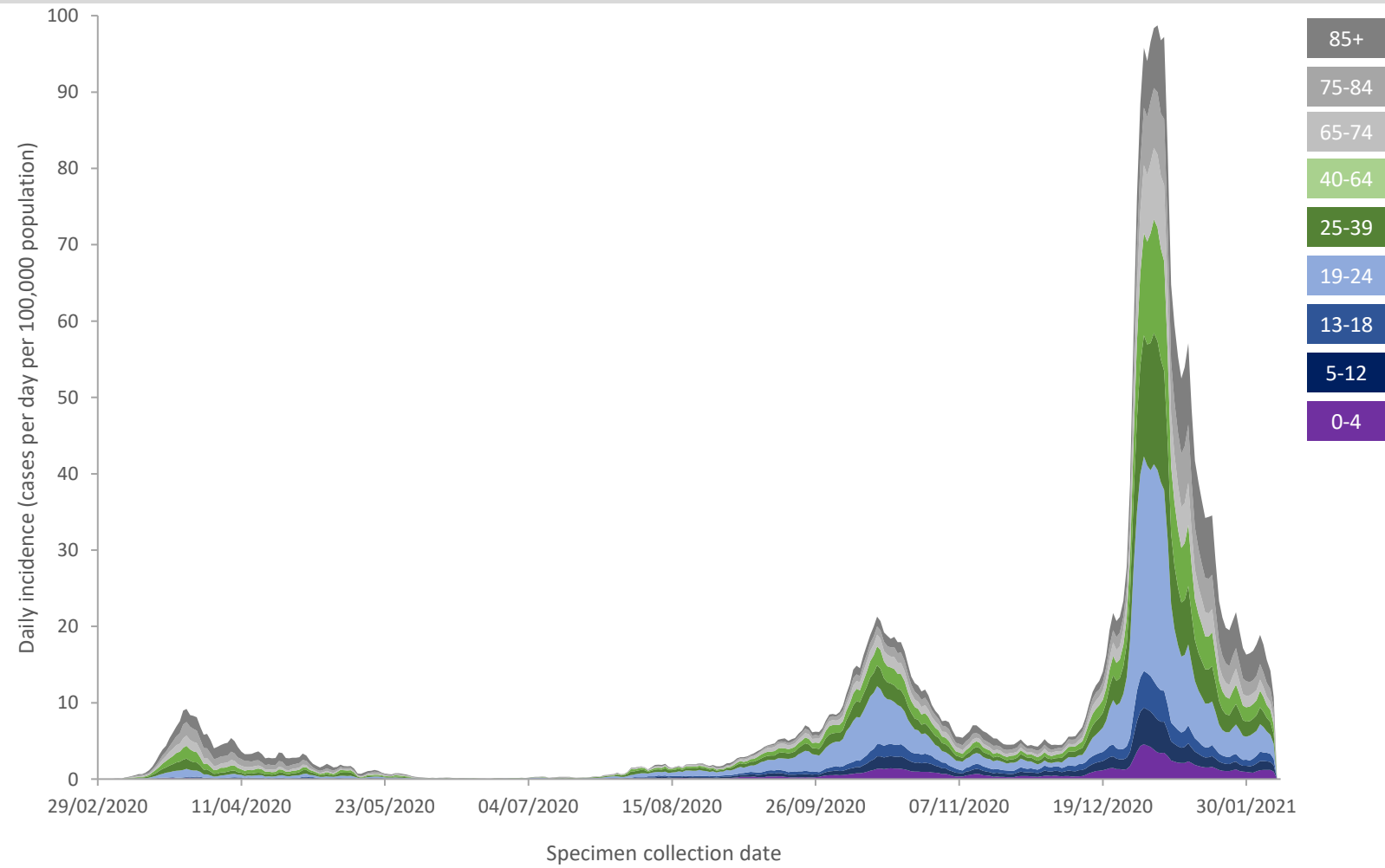
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Incidence across different age groups (excluding HCW and LTRC)

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.

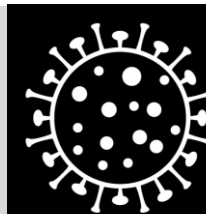


Week	Age band								
	0-4	5-12	13-18	19-24	25-39	40-64	65-74	75-84	85+
9	0.0	0.0	0.3	0.0	0.1	0.1	0.0	0.0	0.0
10	0.0	0.2	0.3	0.0	0.2	0.7	0.5	1.0	0.0
11	0.6	0.2	0.5	5.4	5.0	4.4	4.6	6.6	7.4
12	4.5	2.4	7.5	22.9	27.8	31.1	25.2	24.9	37.0
13	6.9	4.2	14.5	58.3	73.3	86.5	72.6	88.5	94.7
14	4.5	4.4	6.7	28.1	40.1	50.9	50.9	91.1	125.8
15	5.7	5.6	9.1	31.4	29.2	47.4	46.9	71.8	118.4
16	3.0	5.3	10.8	19.3	20.8	32.2	29.2	50.9	75.5
17	3.3	4.2	7.8	21.1	23.6	26.5	21.2	50.4	77.0
18	4.5	6.4	9.4	20.2	26.0	21.0	18.7	37.7	53.3
19	2.1	2.7	4.8	13.3	15.2	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	0.7	1.9	1.6	5.6	3.0
24	2.7	0.7	1.3	1.5	1.4	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	8.5	4.6	2.1	2.5	3.0
32	4.5	3.6	6.7	18.4	16.3	10.5	4.6	2.5	3.0
33	6.0	10.0	12.1	27.2	19.7	12.1	8.0	2.5	7.4
34	7.2	7.5	17.5	37.4	16.5	11.4	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	13.3	17.0	47.4	21.9	13.3	10.7	11.2	14.8
37	17.2	17.7	29.9	63.4	28.1	24.4	22.8	9.2	10.4
38	21.7	26.2	44.7	91.2	44.4	34.8	32.9	19.8	19.2
39	12.1	22.6	42.8	147.3	49.9	41.9	32.9	31.0	20.7
40	29.6	28.8	63.2	168.2	68.1	58.0	34.5	26.0	20.7
41	42.8	46.7	133.5	317.0	115.1	89.8	61.6	51.9	60.7
42	78.1	90.6	196.7	434.2	154.6	142.7	90.8	67.2	69.6
43	81.7	93.9	174.7	302.5	123.4	121.9	85.4	82.4	84.4
44	55.8	67.6	96.1	156.4	75.6	77.5	55.2	55.5	59.2
45	34.7	39.7	57.9	83.9	58.1	46.3	42.8	44.3	47.4
46	41.9	37.2	65.1	89.7	45.4	45.2	32.1	42.7	69.6
47	22.0	34.1	60.3	79.4	34.7	33.1	29.2	39.7	62.2
48	23.2	31.3	45.5	66.4	33.8	29.6	22.2	36.1	40.0
49	28.4	37.0	37.7	40.5	33.2	30.1	25.4	29.5	42.9
50	21.4	39.9	44.1	57.4	39.9	35.0	22.2	31.0	22.2
51	51.9	58.5	74.5	128.0	88.1	81.5	54.9	55.0	51.8
52	77.2	77.1	120.3	325.8	176.9	136.0	96.9	96.2	121.4
53	216.9	235.3	511.0	1399.7	760.9	637.9	424.1	349.6	389.3
1	182.8	208.7	569.2	1334.2	793.6	726.3	500.9	447.8	569.9
2	130.9	127.0	303.8	582.7	421.1	426.7	305.7	422.9	612.8
3	93.8	80.9	168.2	332.7	261.2	250.2	174.3	264.6	476.6
4	73.0	61.1	128.1	233.4	157.5	151.8	124.8	167.4	303.5
5	77.5	72.9	127.3	216.8	132.2	128.6	88.9	126.2	248.7

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 across most adult age groups, and while it remains high in those aged 85 and older it is decreasing. The incidence in those aged 18 and under has stabilised or increased with increased detection of asymptomatic infections in close contacts.



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Week	Age band								
	0-4	5-12	13-18	19-24	25-39	40-64	65-74	75-84	85+
48	23.2	31.3	45.5	66.4	33.8	29.6	22.2	36.1	40.0
49	28.4	37.0	37.7	40.5	33.2	30.1	25.4	29.5	42.9
50	21.4	39.9	44.1	57.4	39.9	35.0	22.2	31.0	22.2
51	51.9	58.5	74.5	128.0	88.1	81.5	54.9	55.0	51.8
52	77.2	77.1	120.3	325.8	176.9	136.0	96.9	96.2	121.4
53	216.9	235.3	511.0	1399.7	760.9	637.9	424.1	349.6	389.3
1	182.8	208.7	569.2	1334.2	793.6	726.3	500.9	447.8	569.9
2	130.9	127.0	303.8	582.7	421.1	426.7	305.7	422.9	612.8
3	93.8	80.9	168.2	332.7	261.2	250.2	174.3	264.6	476.6
4	73.0	61.1	128.1	233.4	157.5	151.8	124.8	167.4	303.5
5	77.5	72.9	127.3	216.8	132.2	128.6	88.9	126.2	248.7

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.

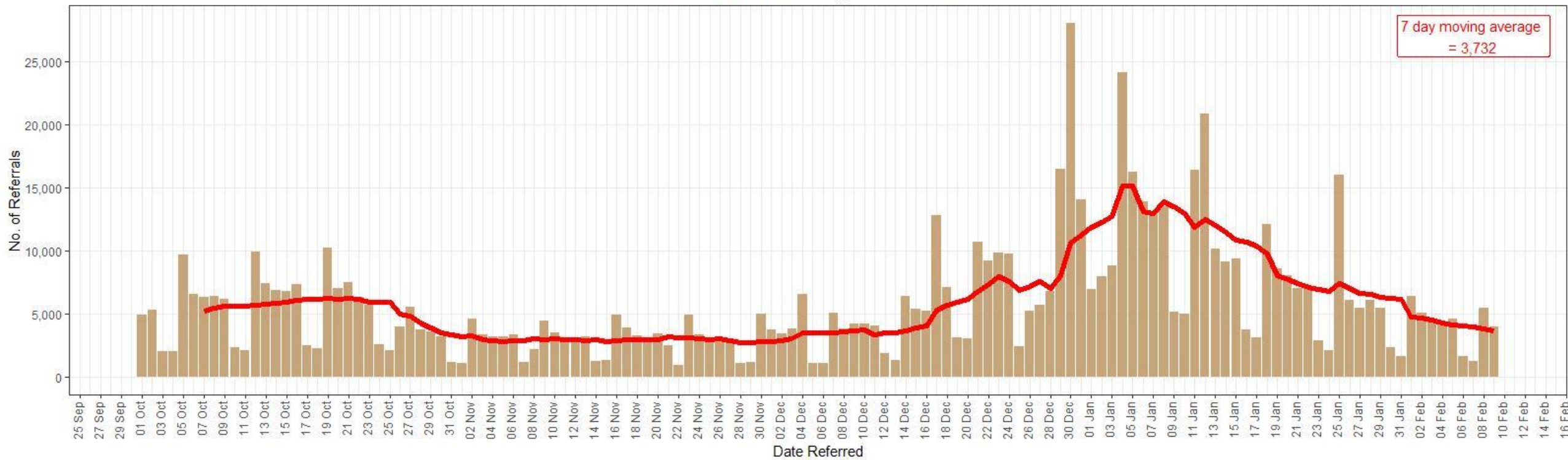


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GP referrals

GP Referrals excluding Close Contacts



Jan

							1 6,967 referrals (+187%)	2 7,965 referrals (+52%)
3 8,809 referrals (+54%)	4 24,102 referrals (+253%)	5 16,239 referrals (-1%)	6 13,899 referrals (-50%)	7 12,937 referrals (-8%)	8 13,516 referrals (+94%)	9 5,143 referrals (-35%)		
10 5,058 referrals (-43%)	11 16,408 referrals (-32%)	12 20,882 referrals (+29%)	13 10,194 referrals (-27%)	14 9,138 referrals (-29%)	15 9,413 referrals (-30%)	16 3,741 referrals (-27%)		
17 3,190 referrals (-37%)	18 12,085 referrals (-26%)	19 8,595 referrals (-59%)	20 8,094 referrals (-21%)	21 7,078 referrals (-23%)	22 7,140 referrals (-24%)	23 2,897 referrals (-23%)		
24 2,103 referrals (-34%)	25 15,993 referrals (+32%)	26 6,141 referrals (-29%)	27 5,526 referrals (-32%)	28 6,090 referrals (-14%)	29 5,524 referrals (-23%)	30 2,410 referrals (-17%)		
31 1,657 referrals (-21%)								
Sun	Mon	Tue	Wed	Thu	Fri	Sat		

Feb

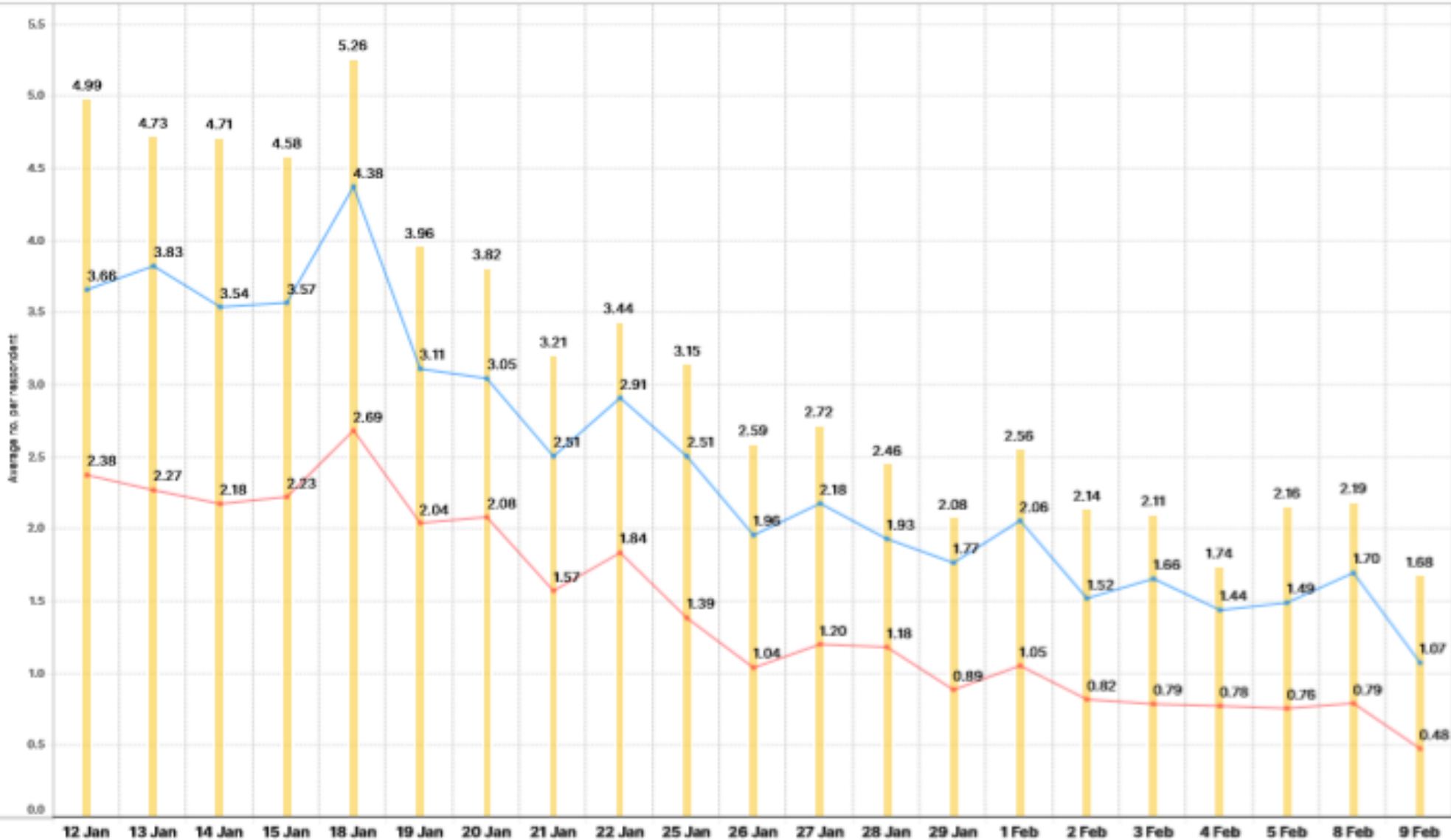
							1 6,437 referrals (-60%)	2 5,094 referrals (-17%)	3 4,563 referrals (-17%)	4 4,408 referrals (-28%)	5 4,648 referrals (-16%)	6 1,680 referrals (-30%)
7 1,289 referrals (-22%)	8 5,513 referrals (-14%)	9 4,026 referrals (-21%)	10	11	12	13						
14	15	16	17	18	19	20						
21	22	23	24	25	26	27						
28												
Sun	Mon	Tue	Wed	Thu	Fri	Sat						

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

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

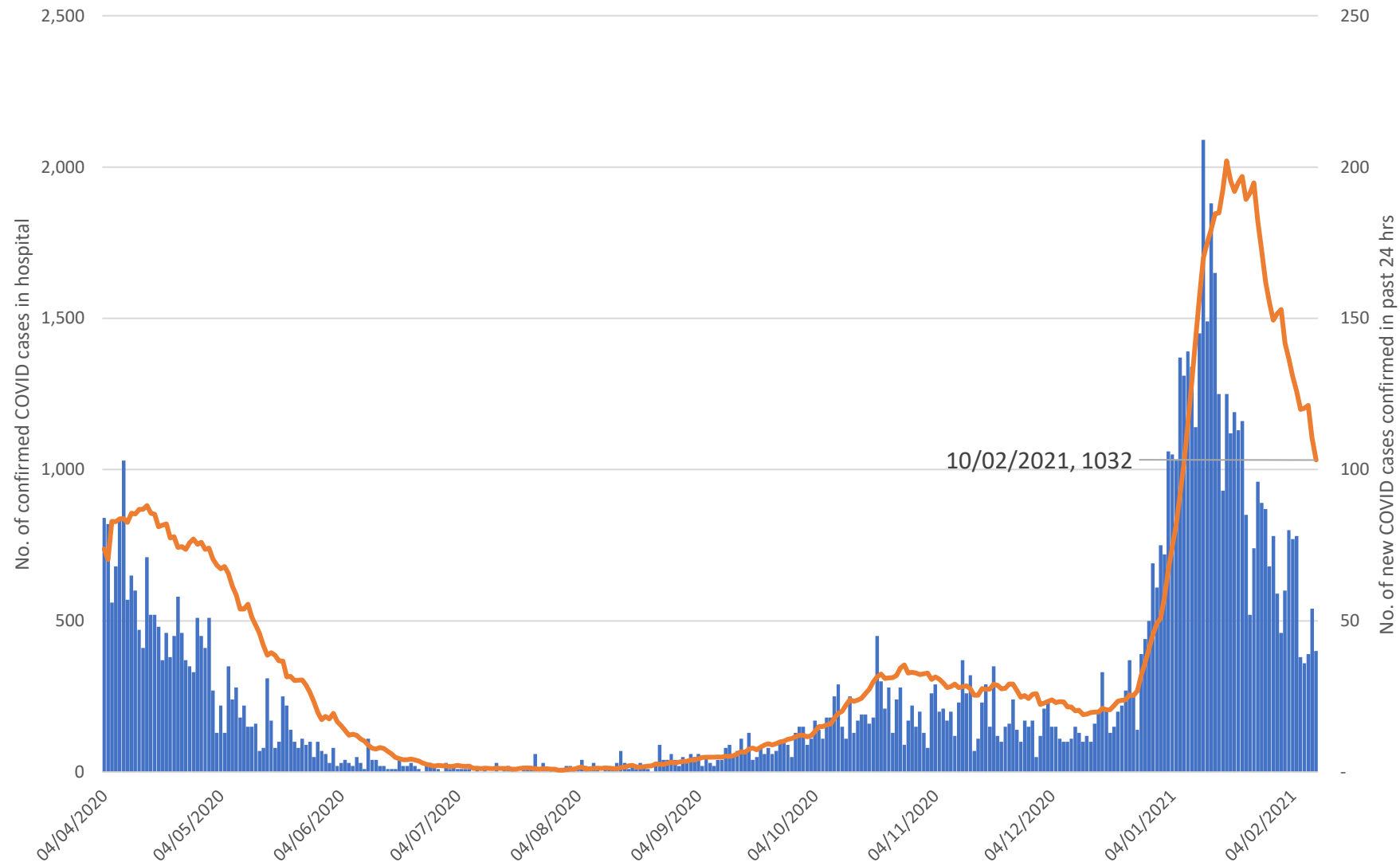
- Met Testing Criteria
- Calls about COVID-19
- Clinically likely Covid19
- Number of survey responses





Hospital & ICU Data

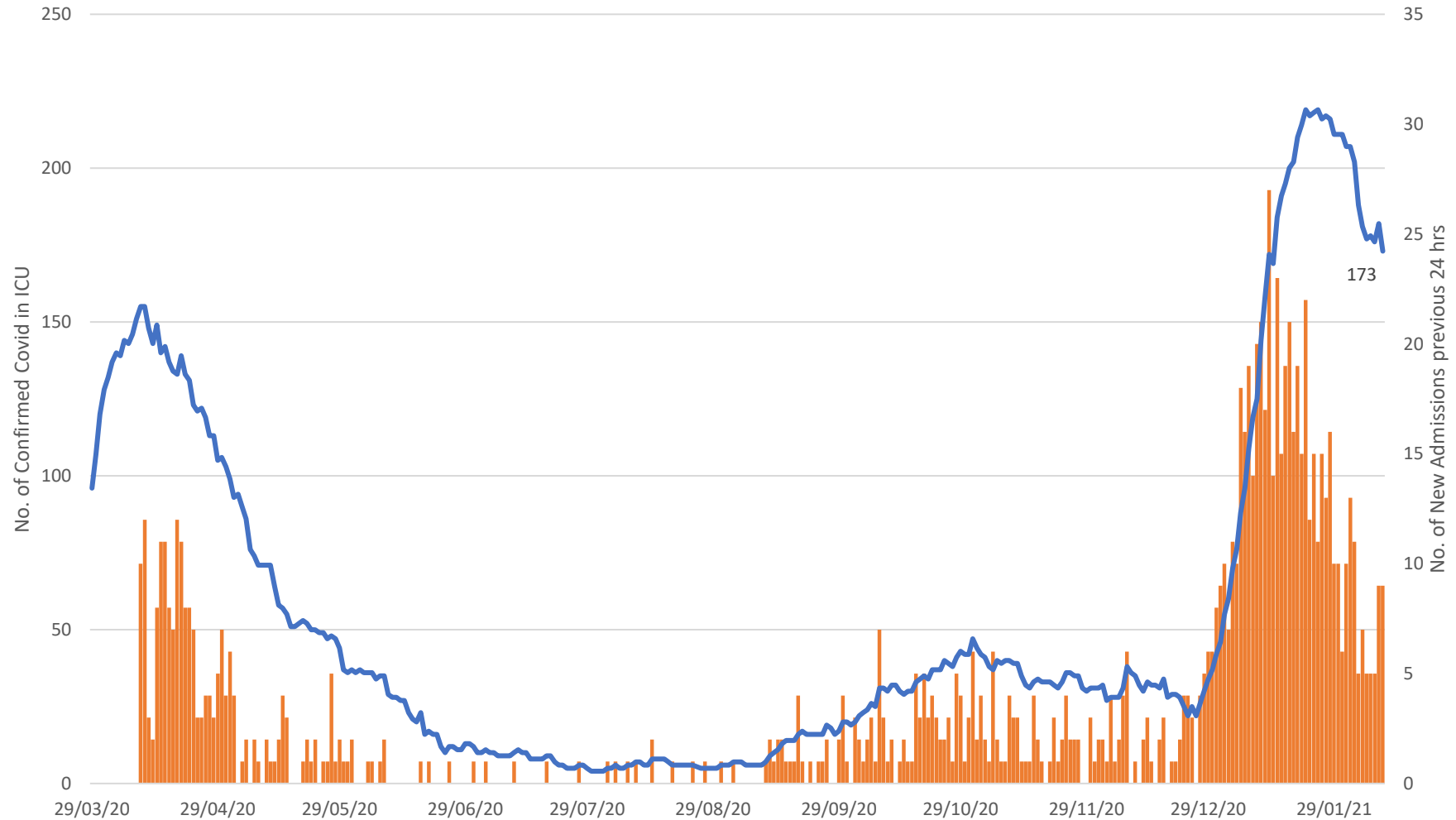
Total No. of Confirmed Covid Cases in Hospital at 8AM & No. of New Confirmed Covid Cases in Past 24 hrs



■ Number of new COVID 19 cases confirmed in the past 24 hrs

— Number of confirmed COVID 19 cases Admitted on site

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)*



% (N) of adult cases of COVID-19 at time of first admission to ICU with one or more underlying conditions

Wave 1 (16.02.20-01.08.20) = 87.6% (N=382)

Wave 2 (02.08.20-21.11.20) = 92.3% (N=156)

Wave 3 (22.11.20-06.02.21) = 87.2% (N=484)

Table 5. Underlying medical conditions in adult cases of COVID-19 at time of first admission to ICU, Ireland⁹ (22.11.2020 to 06.02.2021)

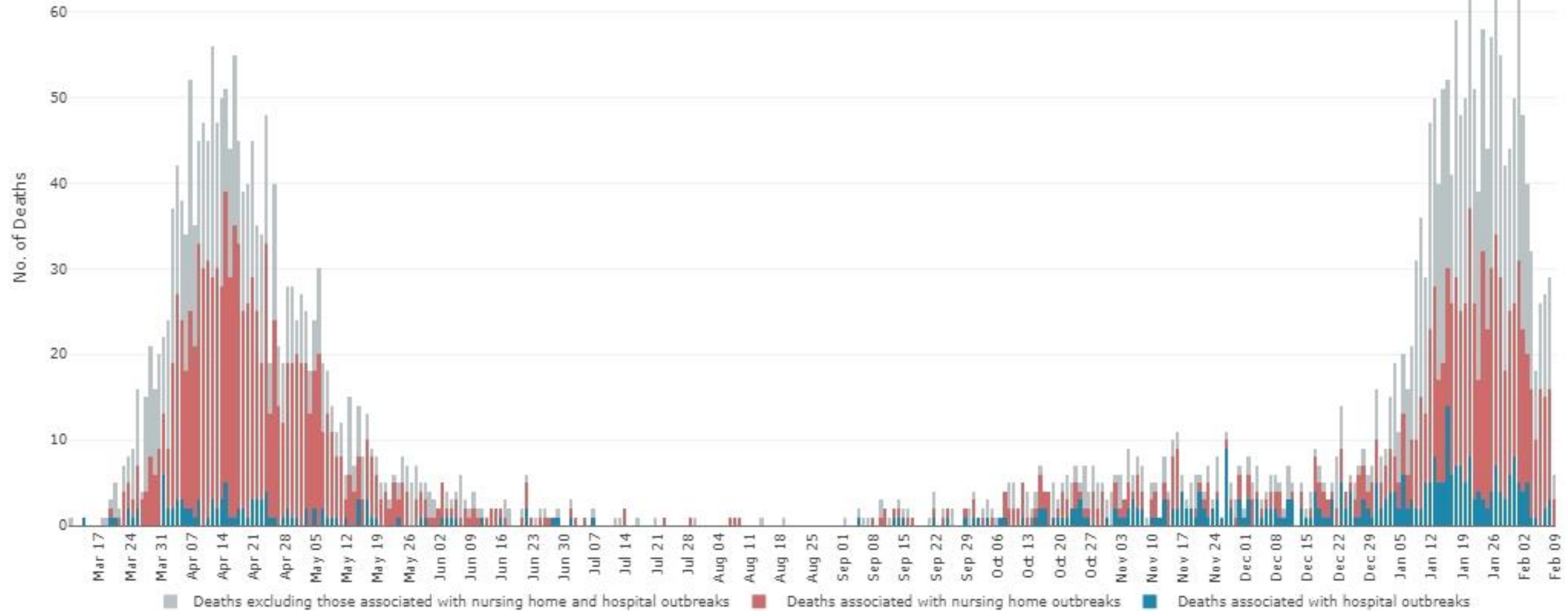
Underlying Conditions	Number	% Total admissions
One or more underlying conditions	484	87.2
No underlying conditions	71	12.8
	Number	% Those with underlying illness
Chronic heart disease	188	38.4
Hypertension	232	47.9
Chronic kidney disease	48	9.5
Chronic liver disease	18	3.7
Chronic neurological disease	38	7.4
Cancer/malignancy	71	14.7
Immunodeficiency, incl HIV	43	8.9
Chronic respiratory disease	173	35.7
Chronic obstructive pulmonary disease	98	19.8
Bronchiectasis	5	1.0
Cystic fibrosis	1	0.2
Interstitial lung fibrosis	3	0.6
Asthma (requiring medication)	72	14.9
Severe Asthma	4	0.8
Mild to Moderate Asthma	38	7.4
Pregnant	8	1.7
<=6 weeks post-partum	2	0.4
Obesity (BMI >=40)	52	10.7
Diabetes mellitus	138	28.5
Type I	17	3.5
Type II	102	21.1
Type unspecified	19	3.9
Haemoglobinopathy	3	0.6
Alcohol related disease	14	2.9
Other underlying medical conditions	295	61.0

⁹More than one option can be selected for underlying condition so percentages will add to greater than 100%



Deaths

Deaths by Date of Death since March





Outbreaks & Clusters

COVID-19 outbreaks by key outbreak locations, week 5 2021 and overall, 2020-2021 Ireland



- Since March 1st 2020, 11,921 outbreaks have been notified to CIDR
- In week 5, 2021 210 outbreaks were notified

Key outbreak locations	Week 5	Weeks 10-47	Weeks 48-5
Workplace	29	292	207
Direct Provision Centre	4	37	25
Vulnerable groups*	29	102	124
Prisons	0	9	3
Nursing Home/Community Hospital	12	380	226
Acute hospitals	15	178	163
Schools^	1	79	116
Childcare facility	13	200	103

*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 February 9th 2021 – data to midnight February 6th 2021

Weekly Summary

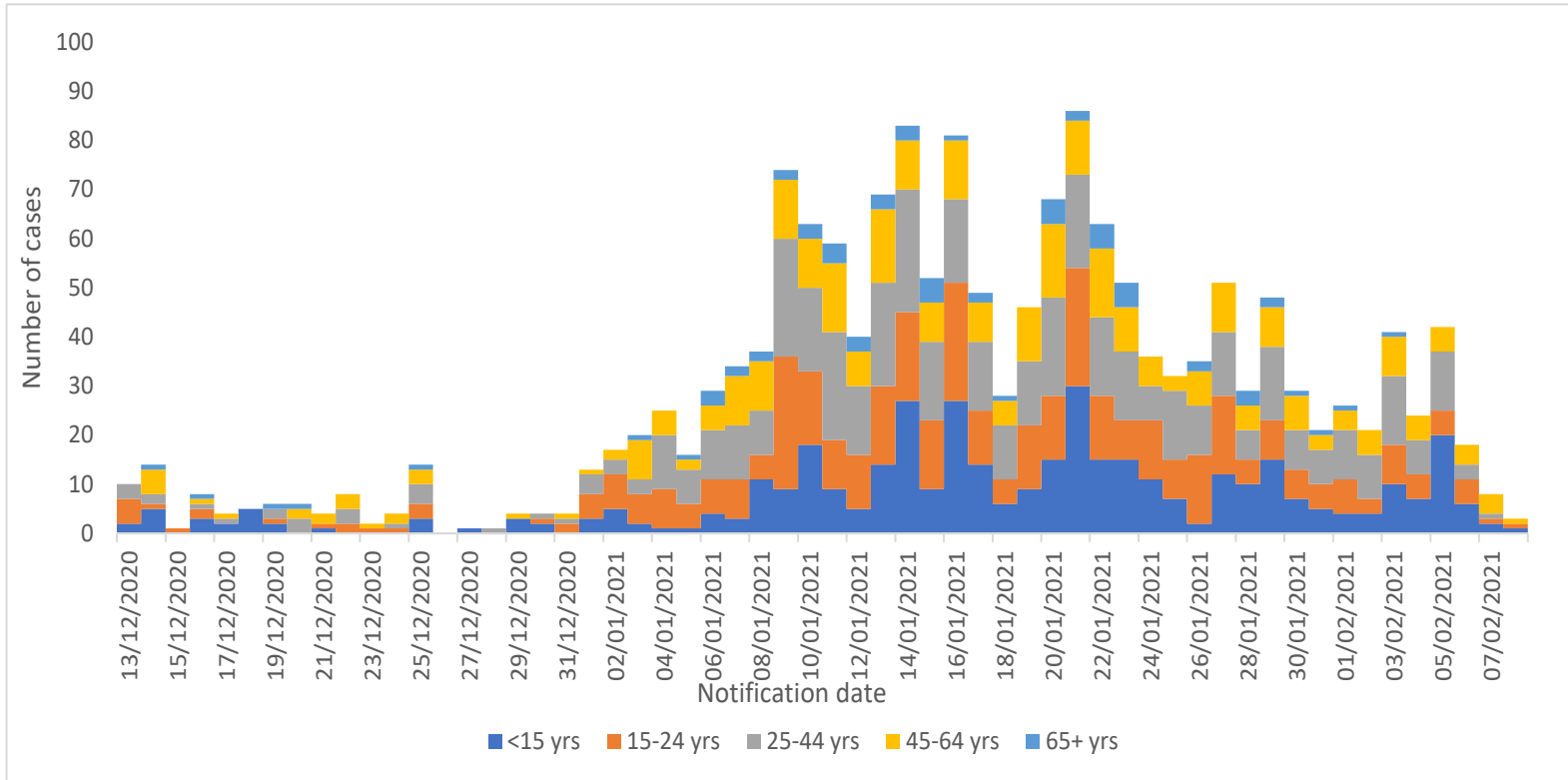


- **Total** number of outbreaks week 5, 2021 n=210 compared with week 4, 2021 n=196
- **Vulnerable groups**
 - Irish Traveller outbreaks
 - Week 5 – 22 new outbreaks, 108 linked cases
 - Week 6 – 4 new outbreaks already – 67 linked cases
 - 21 open DPC outbreaks - 187 linked cases
 - 3 new DPC outbreaks since last week – 14 linked cases
 - 3 new outbreaks in homeless population – 11 linked cases
 - 1 new outbreak in addiction services – 17 linked cases
- **Workplace outbreaks**
 - 7 new food industry outbreaks since last week's report – 64 linked cases
 - 129 cases linked to 16 previously notified food industry outbreaks
 - Four largest food industry outbreak, 89, 94, 102, 121 linked cases
 - Two new construction outbreaks – 11 linked cases
- **Residential institution outbreaks**
 - 168 outbreaks are 'open' with 1236 linked cases (range 0-45)
 - 11 new outbreaks since last week's report with 35 linked cases
- **Home care Teams**
 - 33 open outbreaks – 96 linked cases
 - Since last report – 2 outbreaks with 4 linked cases
- **Nursing Homes & Community Hospitals**
 - 206/606 outbreaks remain open with 6246 linked cases
 - 12 new outbreaks with 79 linked cases since last week's report
 - 3 open outbreaks with new cases linked in the past week have >100 cases each
 - Since August 1st, 738 deaths
- **Acute hospitals**
 - 134 open outbreaks involving 45 hospitals, 2005 linked cases (range 1-150)
 - One outbreak 150 cases with 22 deaths
 - 15 new outbreaks since last week's report with 96 linked cases (0-18)
 - Since August 1st 2020, 321 deaths have occurred in cases linked to acute hospitals outbreaks
- **Schools**
 - One new outbreak since last week's report. – late notification from December 2020
 - 28 additional cases linked to a previous outbreak (now n=44)
- **Childcare facilities**
 - 14 new outbreaks since last week's report with 74 linked cases (range 2-19)
- **Third-level students/University/college**
 - Four new outbreaks with 13 linked cases.

Key points

- The volume and size of nursing home outbreaks continues to be of concern
 - Three open NH outbreaks with cases in the past week > 100 cases each
 - Considerable mortality – 738 deaths since August 1st (increase of 156 since last week)
- Large number of acute hospital outbreaks continue to occur – currently 133 open outbreaks across 48 acute hospitals
 - One hospital outbreak – 150 linked cases with 22 deaths
- 32 open food production/processing outbreaks – two with > 100 cases each
- Increase in number outbreaks in vulnerable groups
 - 21 DPC open outbreaks – 187 linked cases
 - 36 Irish Traveller outbreaks between weeks 5 and 6 to date

COVID-19 infections among Irish Travellers – December 13th 2020 –February 8th 2021



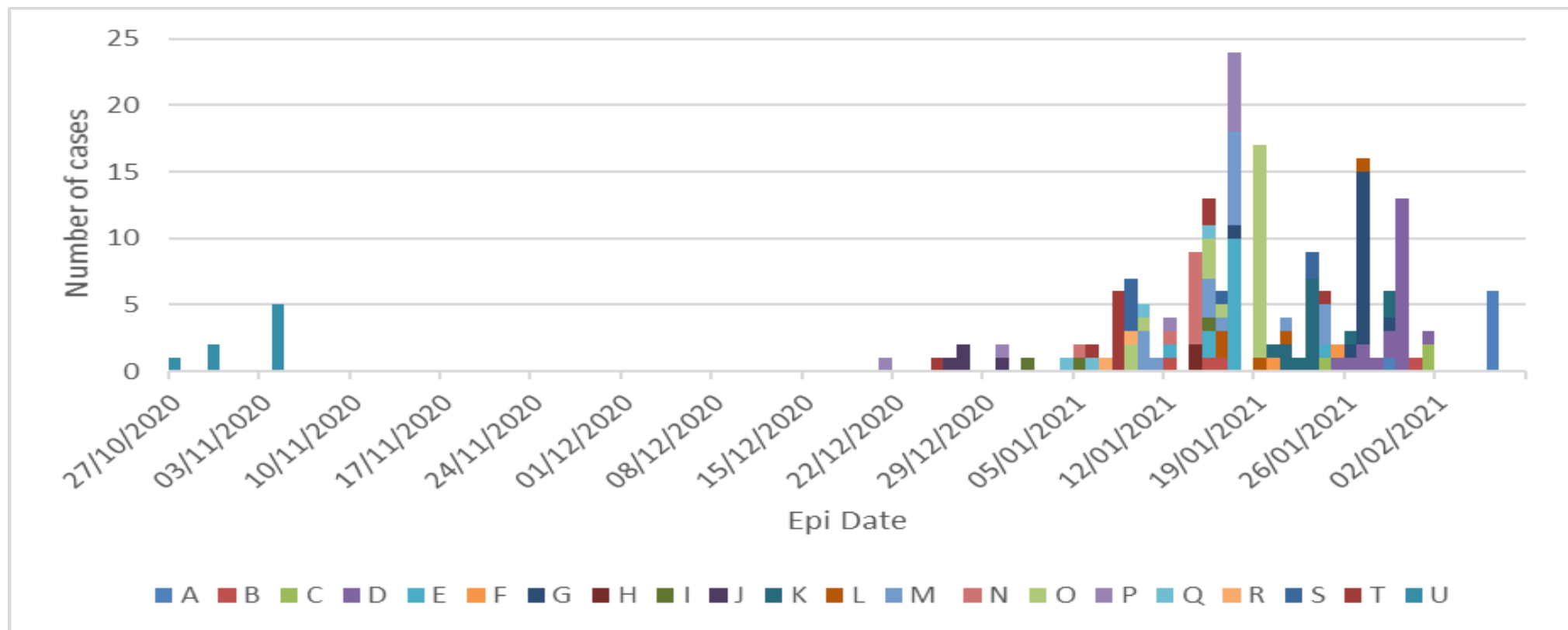
- 1667 confirmed cases
- 47% (787/1667) male
- Median age 25 years
- 4.4% hospitalised, six ICU admissions and four deaths
- Among 89 outbreaks, 15 had >20 linked cases
- **22 new outbreaks in week 5, with 108 cases between them**
- **Four new outbreaks already in week 6, 2021 – 67 linked cases**

Inclusion criteria

Cases linked to outbreaks reported as affecting Irish Travellers OR whose ethnicity is reported as Irish Traveller, December 13th 2020 to midnight February 8th 2021

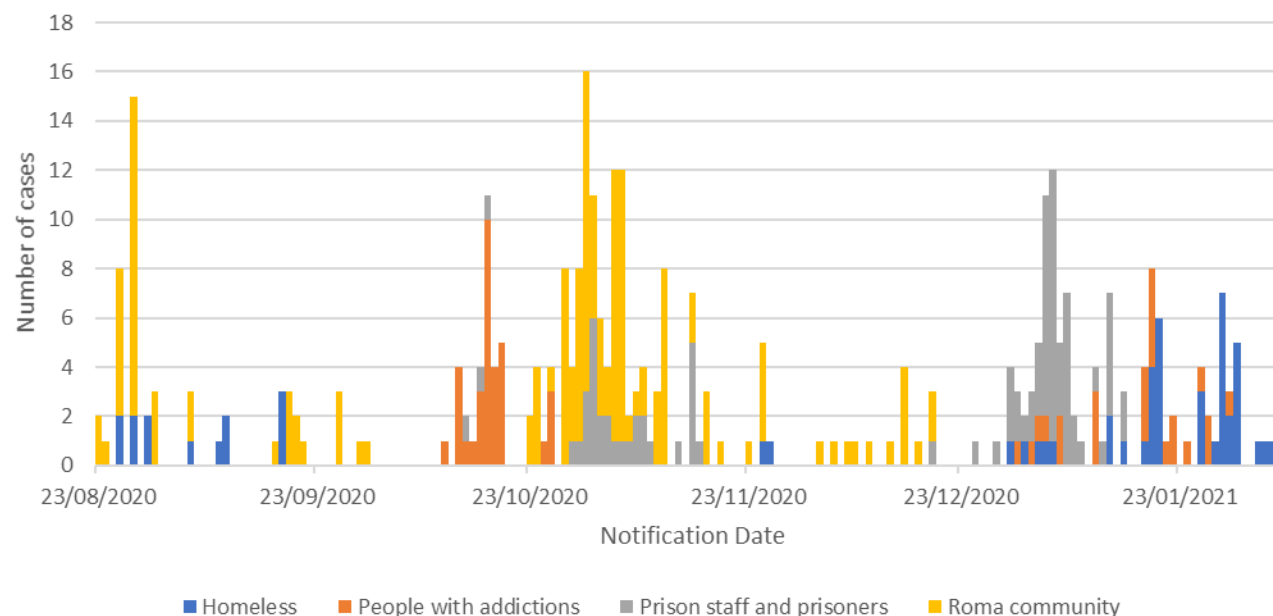
Data source: CIDR February 9th 2021 – data to midnight 8th February 2021

Direct Provision Centre Outbreaks as of midnight February 8th 2021



- To date, total of 614 confirmed cases linked to 63 notified outbreaks in DPCs
- There were three new outbreaks since last report – 14 linked cases
- Twenty-one DPC outbreaks notified since November 1st remain 'open'
- 187 confirmed cases linked to the 21 'open' outbreaks
- Among the 187 cases, there are two hospitalisations and no ICU admissions or deaths

Outbreaks linked with Roma, Homeless, Addiction Services and Prisons: August 1st to February 8th 2021



Since August 1st 2020

- 40 outbreaks with 361 associated cases
- 16% (57/350) are <15 years; 54 are Roma and three are homeless)
- Seventeen outbreaks are 'open' (two in prisons, seven in people with addictions and eight in the homeless population)
- Since last update, four new outbreaks occurred, three in homeless populations with 11 linked cases and one in people with addictions with 17 linked cases

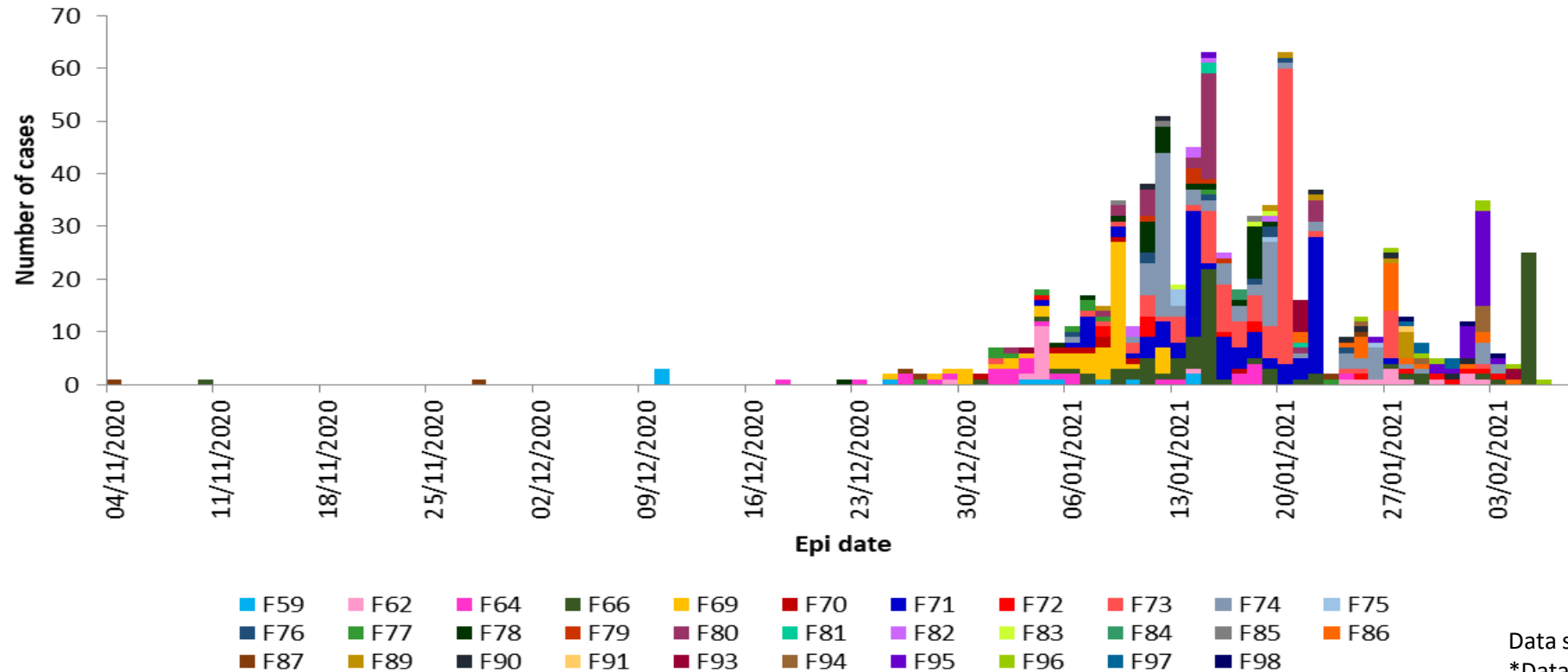
Vulnerable group	Outbreak	Linked confirmed cases			
	Number of outbreaks	Number of cases	Number hospitalised	Number admitted to ICU -	Number who died
Homeless	15	51	2	2	
People with addictions	11	75	3		1
Prison staff and prisoners	5	86			
Roma community	9	149	9	3	
Total	40	361	14	5	1

Data source: CIDR February 9th 2021 8:35 am

Workplace outbreaks – Food production/processing: Nov 1st 2020-Feb 8th 2021



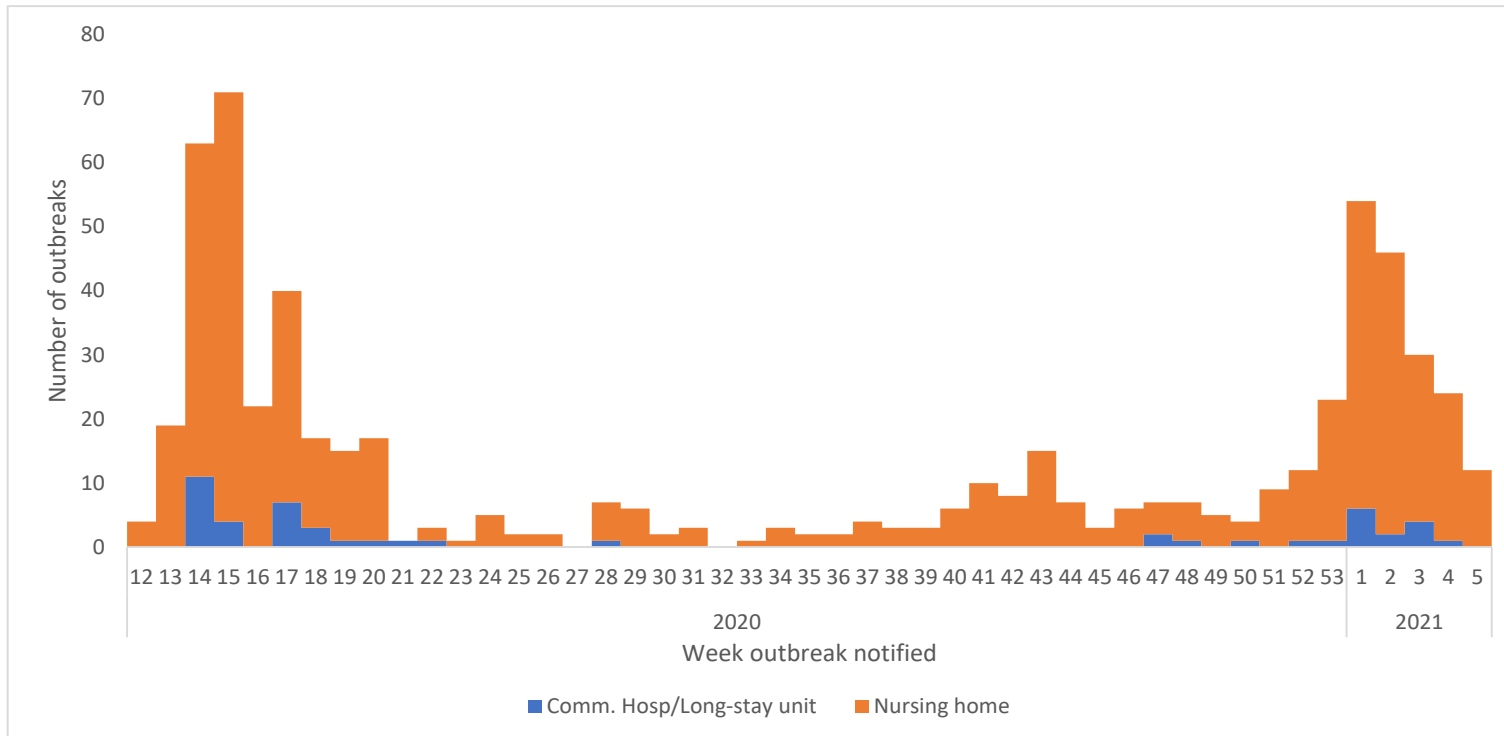
- 776 cases are linked to 33 **open** outbreaks in this sector (range: 0-121 linked confirmed cases)
- 7 new outbreaks were reported this week (64 confirmed cases linked to these outbreaks (range: 2-30 linked confirmed cases; one of these outbreaks was a late notification and outbreak status is now “closed”)
- 129 additional cases were linked to 16 previously reported outbreaks
- The largest outbreak has 121 linked cases, and epi dates range from the 1st Jan to 2nd Feb
- Overall, 140 cases linked to outbreaks in this sector have an epi date within the last 14 days; and 36 within the last 7 days



Data source: CIDR February 9th 2021
 *Data to midnight 08/02/2021

Nursing Homes and Community Hospital/Long Stay Units: to midnight February 6th 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	49	1017	102	2	20	97
Nursing home	557	13413	832	22	279	1525
Total	606	14430	934	24	299	1622



March 2020 – February 6th 2021

- 606 outbreaks in Nursing Homes and Community Hospital/Long Stay Units
- 12 new Nursing Home and no new Community Hospital/Long-stay Unit outbreaks notified in week 5 2021

Data source: CIDR February 8th – data to midnight February 6th 2021

Focus on 206 'OPEN' Nursing Homes and Community Hospital/Long Stay Units to midnight February 6th 2021

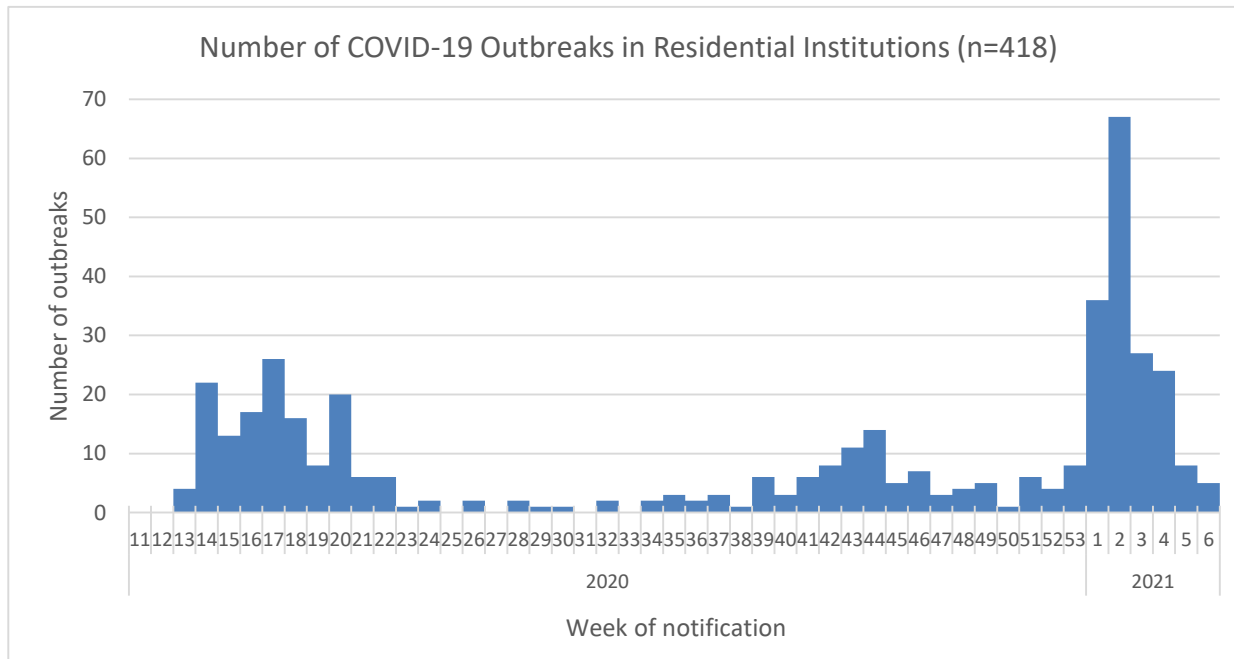
- 6,246 associated cases (2,431 HCW/staff cases, 3,082 client cases, 733 cases HCW status unknown)
- 11 outbreaks include only HCW/staff cases, 167 include both HCW/staff cases and client cases, 7 outbreaks includes client cases only, for 9 outbreaks the mix of cases is unclear, and for 12* outbreaks, there were no linked cases
 - 12 new outbreaks since last week's report – 79 linked cases
 - 96 previously notified 'open' outbreaks – 904 additional cases since last week's report
 - 98 previously notified 'open' outbreaks – no additional cases since last week's report

*For 11 of 12 outbreaks with no linked cases, aggregate data on the number of associated cases suggest that there should be an additional 56 linked cases

Data source: CIDR February 8th – data to midnight February 6th 2021

Residential Institution outbreaks 1st March 2020 to midnight 8th February 2021 (n=418)

	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	418	2632	168	1236	54	3	28
Centre for disabilities	276	1564	112	812	35	2	15
Centre for older people	26	430	9	139	2		2
Children's / TUSLA residential centre	27	71	8	29		1	
Mental health facility	45	311	19	116	15		2
Other	22	128	5	34	1		3
Not Specified	22	128	15	106	1		6

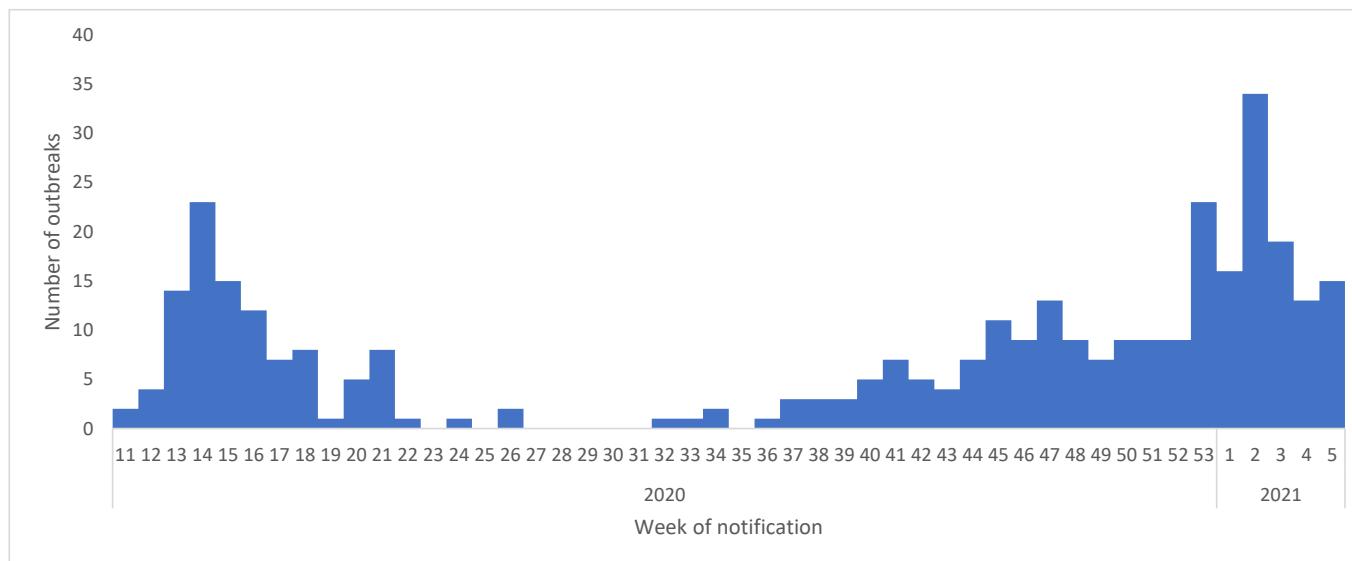


Overview

- 418 outbreaks in residential institutions with 2,632 linked confirmed cases
- 168 outbreaks remain open, 1,236 linked confirmed cases
 - Range in number of cases 0 to 45; median 2
 - 112 of 'open' outbreaks in centres for disabilities
- 11 new outbreaks since last week's report with 35 linked cases (11 outbreaks de-notified/re-categorised since previous report)

Data source: CIDR February 9th 2021 – data to midnight 8th February 2021

Acute Hospital outbreaks to midnight February 6th 2021 (n=341)



Overview

- 341 outbreaks in acute hospitals
- 134 'open' acute hospital outbreaks (all occurring since 1st September 2020)
- 2005 confirmed cases linked to 134 of the open outbreaks (range 1-150)
- The 133 open outbreaks correspond to outbreaks in 45 Acute Hospitals

Update

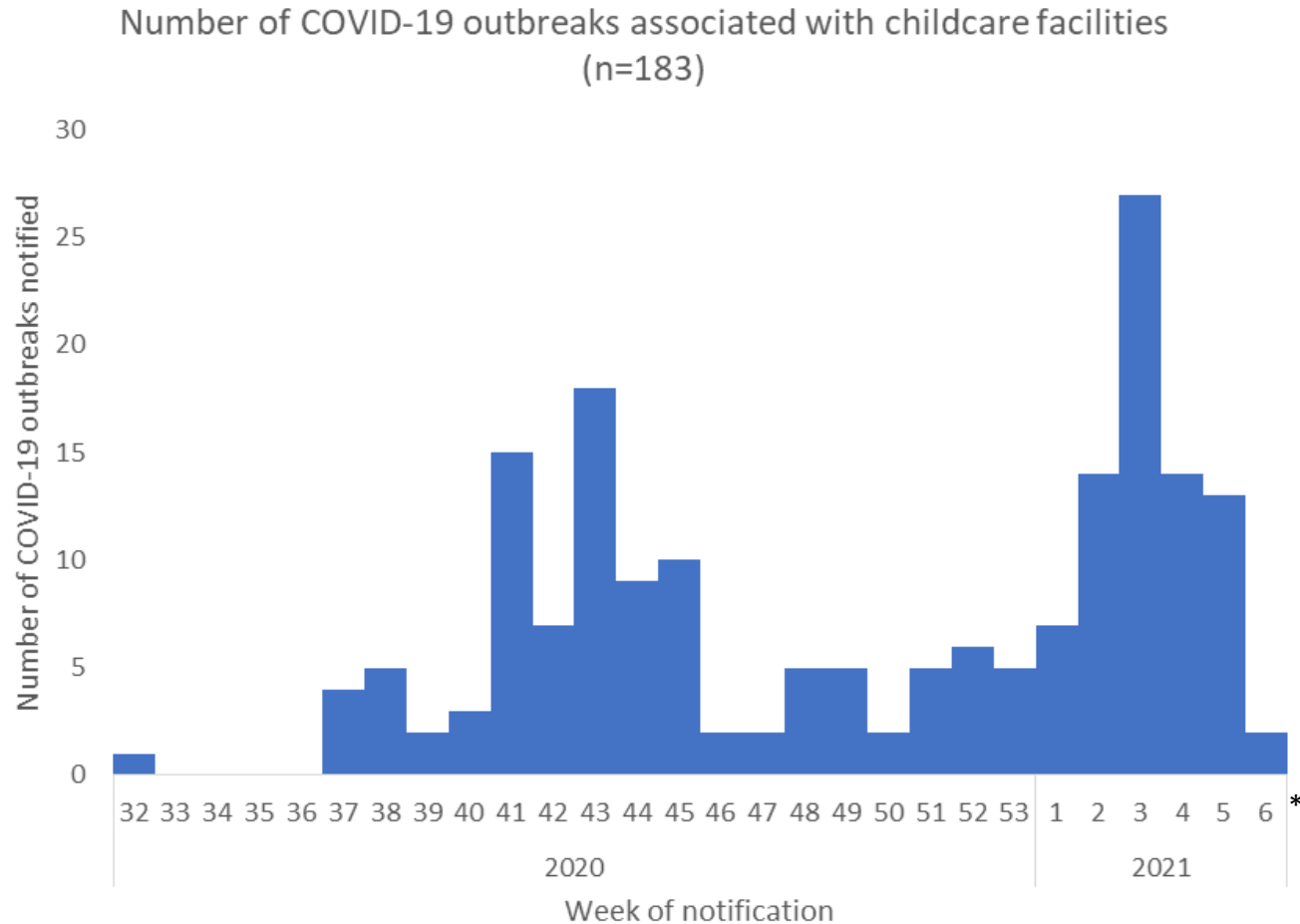
- 15 new outbreaks in week 5 2021
- 96 confirmed cases linked to these 15 outbreaks (range 0-18)
- A total of 374 additional cases were linked to 25 previously reported open hospital outbreaks
- Fourteen outbreaks were closed since last week

*

Outbreak status	Number of outbreaks	Confirmed linked cases	Number admitted to ICU	Number Died	Number HCWs
All	341	4306	95	423	1983
Open	134	2005	38	201	803

Data source: CIDR February 9th – data to midnight February 6th 2021

Outbreaks associated with childcare facilities to midnight 8th February 2021 (n=183)



Overview

- 183 outbreaks associated with children and staff in childcare facilities notified
- 915 linked events in total
- 169 outbreaks have ≥ 2 linked confirmed cases (range 2-39)
- 96 outbreaks have been closed; 87 remain open

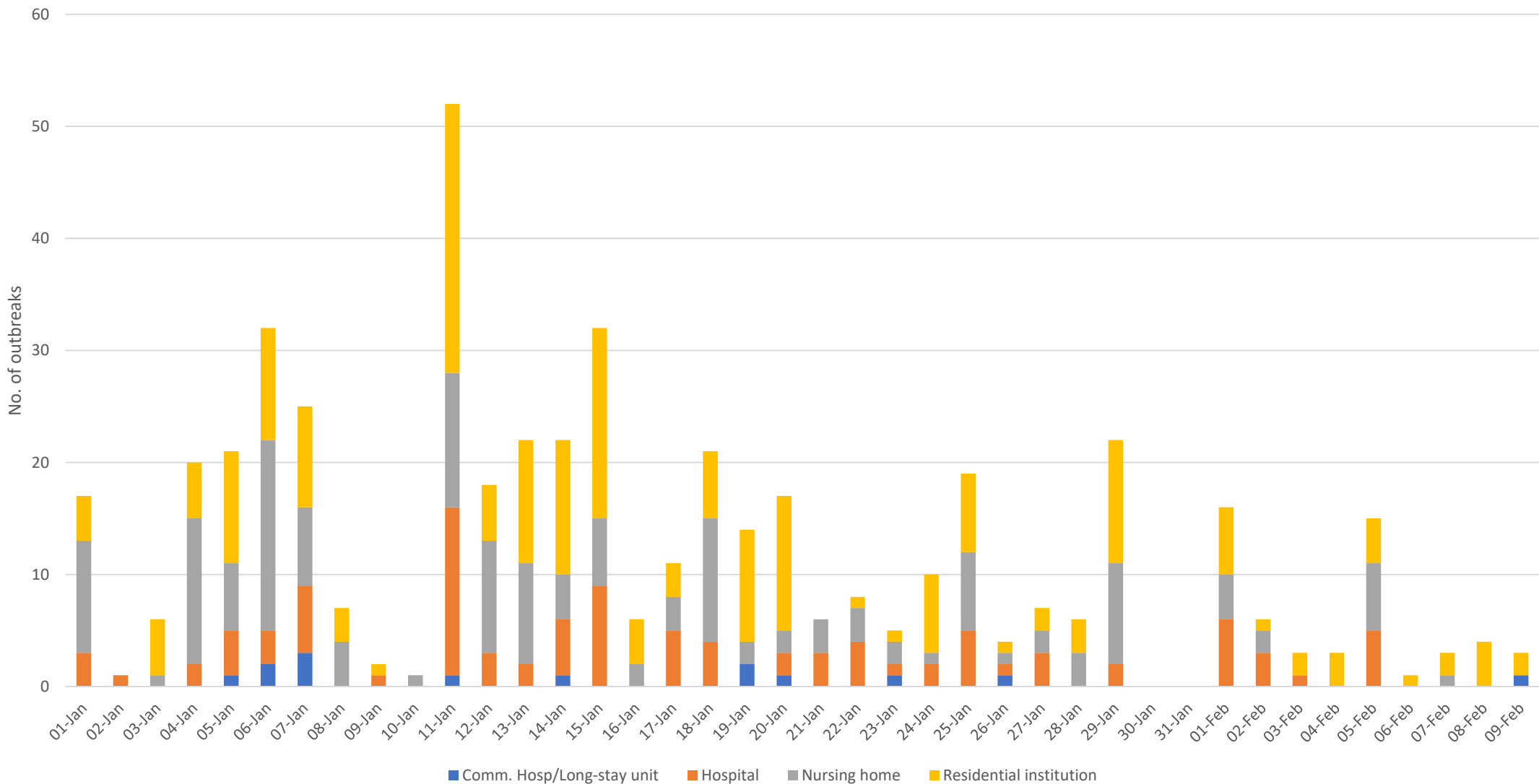
Update

- 14 new outbreaks reported since last week
- 74 confirmed cases linked to these outbreaks (range 2-19)
- 6 outbreaks were closed since last week and two previously reported outbreaks were re-classified or de-notified

Data source: CIDR February 9th 2021
*Data to midnight 08/02/2021

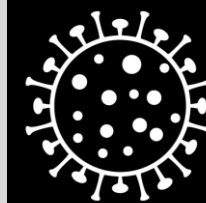
Acute Hospitals and Residential Care Facilities

No. of new outbreaks created by date outbreak created in 2021

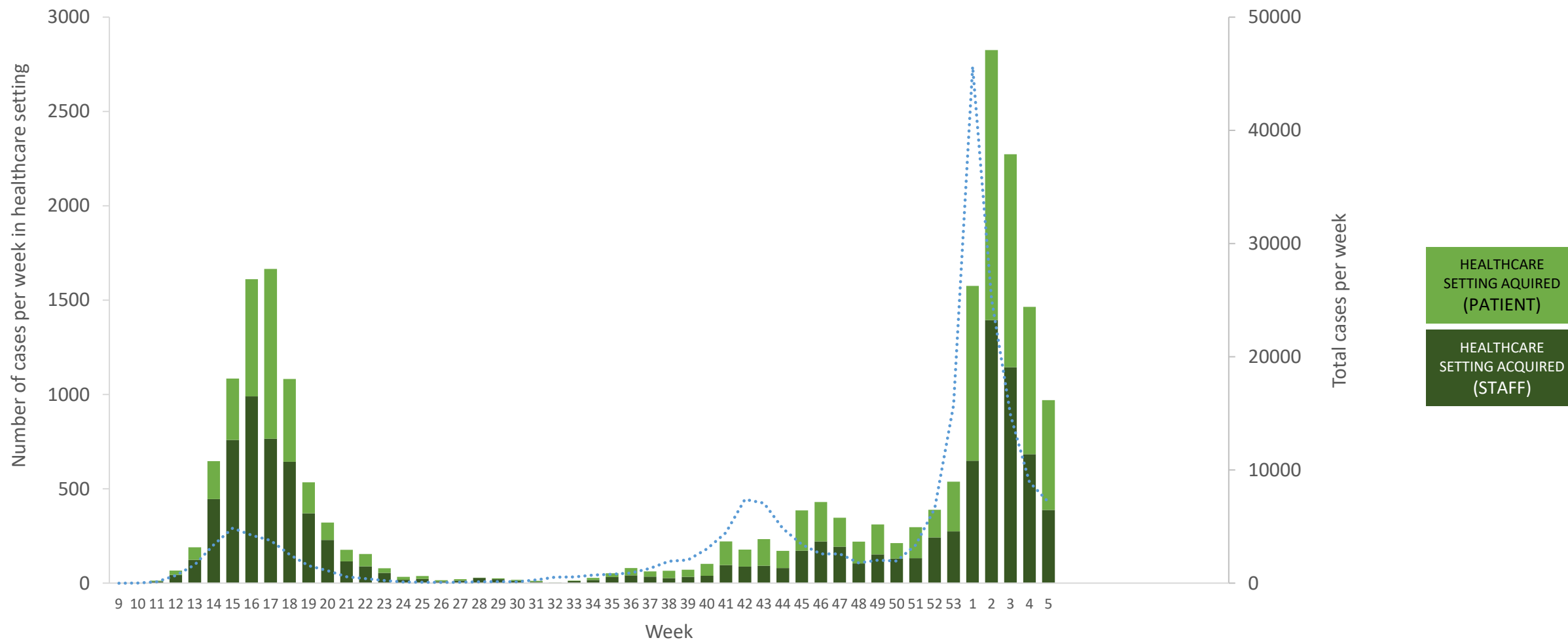


Infections in the healthcare setting

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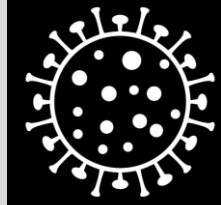
Number of cases per week recorded in CIDR as 'healthcare setting acquired' (bars) compared to the total number of cases per week (dotted line, referred to the secondary y-axis). Cases dated by event date. Tests outsourced to German laboratory in April backdated, using the specimen collection date, to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



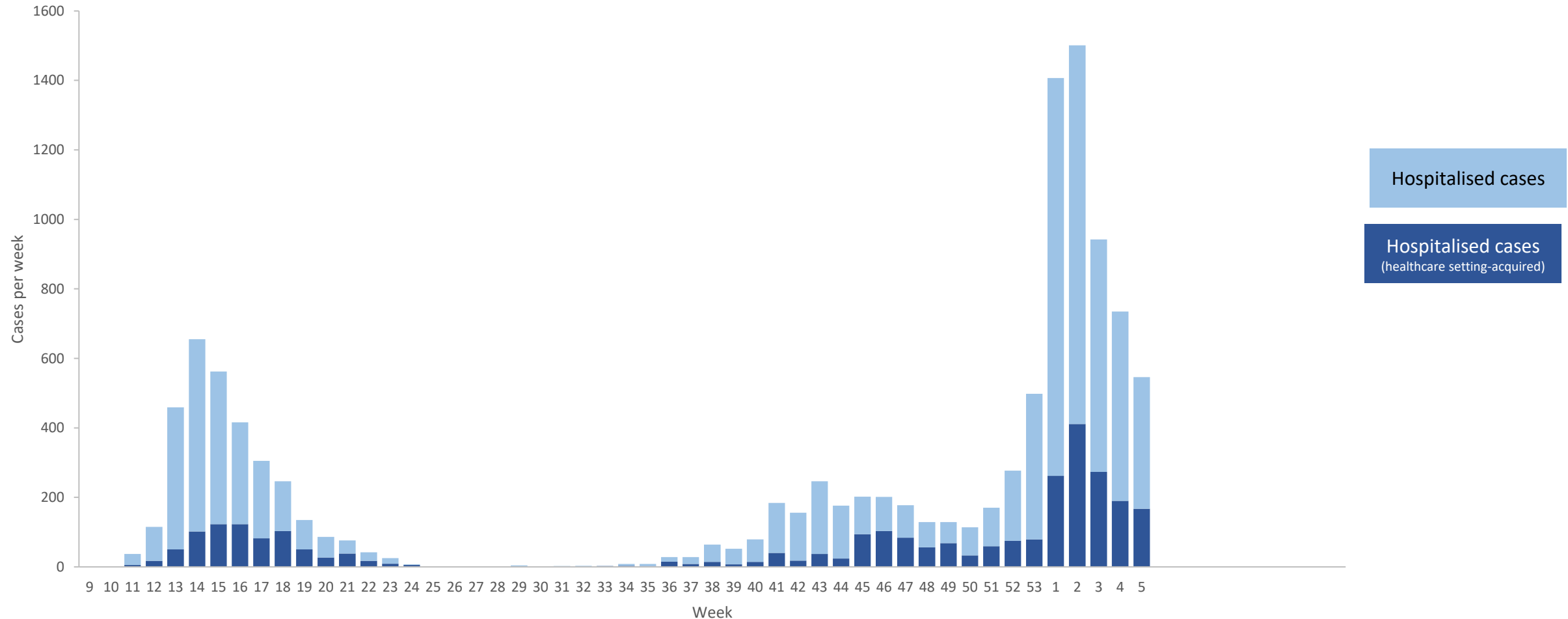
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Hospital-acquired infection

The 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.



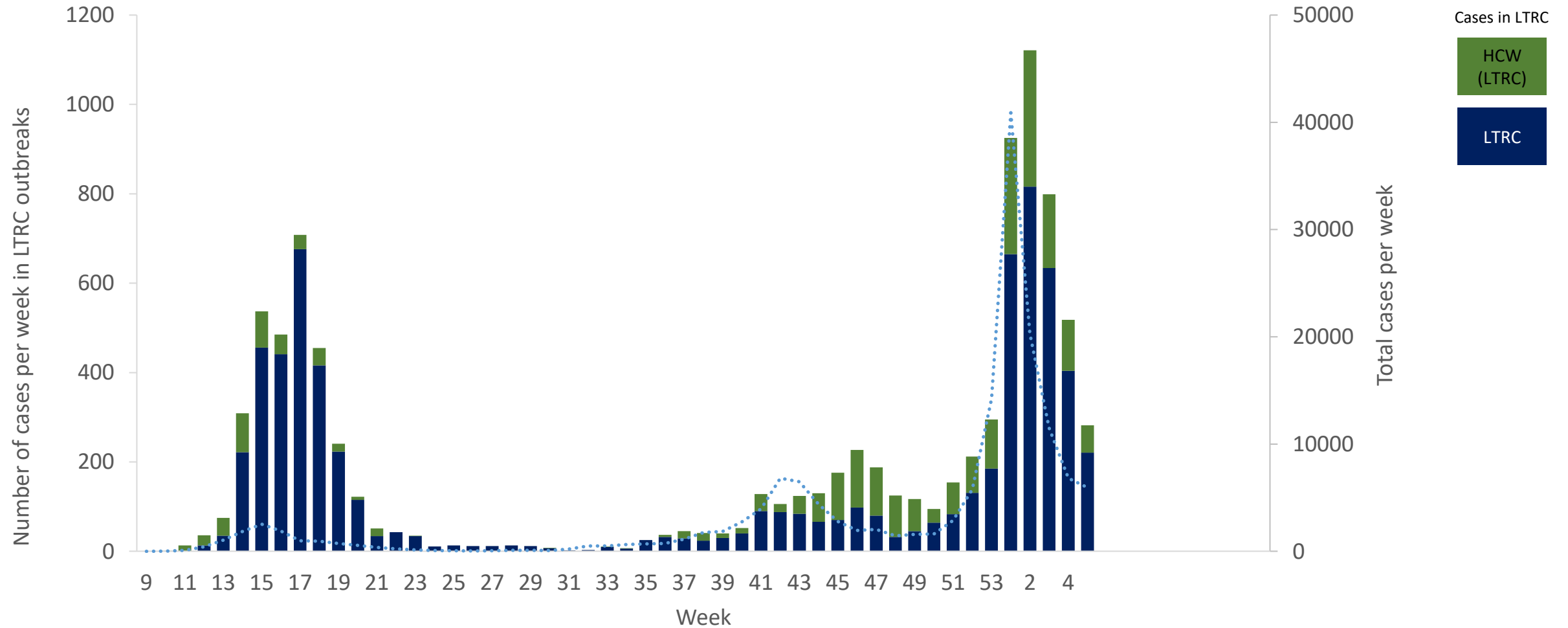
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The weekly number of cases that are hospitalised (light blue), and the weekly number of hospitalised cases where the infection is notified as having been acquired by the patient in a healthcare setting (dark blue). Cases dated by notification (event) 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.

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



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.



Test & Trace Update

Testing/sampling and contact tracing NPHET update



Sampling

Over the past seven days, 3rd Feb- 9th Feb, there has been approximately 119,523 swabs taken for COVID-19 testing.

Of these:

- 46,006 (38%) of these were taken in the community
- 45,552 (38%) swabs were taken in acute and private acute settings.
- 27,965 (23%) 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.

Contact Tracing

As of 9th February, of those tested with close contacts, the average number of close contacts per case was 3.

Turnaround Times (3rd Feb-9th Feb)

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 **1.3 days**.
- The median turnaround time for time, from referral to communication of a **detected result** by SMS, in community settings was **1.4 days**.
- The median end-to-end turnaround time, from referral to the end of contact tracing SMS sent, for **detected cases** in the community setting was **1.9 days**.



Overall Swab to laboratory result communicated – Medians: 26 hours in Acute, 26 hours in Serial Testing, 28 hours in Community

Referral to appointment

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

93% 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 6 hours and 3.9 hours, respectively.

CMP close contact update (week ending 7th Feb)



- The number of close contacts captured during the week ending 7th February was 12,978, a 16% decrease from the previous week (15426)
- In total, 11,861 (91%) of the contacts created between the 1st and 7th Feb have been informed of their close contact status at the time of CMP report preparation.
- The mean number of close contacts per case (incl. cases with no close contacts) remains stable at 1.9
- The number of complex contact episodes decreased by 16% to 2,737

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

Close Contact Attendance at Testing and Positivity Rates – 29th to 31st January

- Of the close contacts created between 29th and 31st January, 4,124 (76%) of those who were referred for a Test 1 appointment have attended for testing.
- Results were available at the time of report preparation for 3,342 close contacts, 707 (21.2%) of which were positive.
- The highest positivity rate by setting, 29.2%, was seen in household contacts.
- Test 2 for close contacts re-commenced on 10th February

SARS-CoV2 Test 1* Results by Circumstances – Contacts Created 29/01/21 to 31/01/21

<i>Circumstances of Contact</i>	Number of Results Reported	Positive Results	Positivity Rate
Household	1554	454	29.2%
Social	603	93	15.4%
Workplace	306	28	9.2%
Pre-School/Crèche	64	<5	**
Healthcare Setting: Patient	81	8	9.9%
Healthcare Setting: Staff	14	<5	**
Sport	12	<5	**
Transport	27	<5	**
Other	46	7	15.2%
Not Recorded	635	109	17.2%
Total	3342	707	21.2%

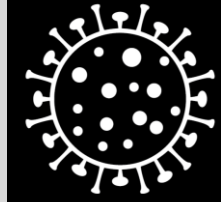
Table 1.2 – Test 1 Results by Circumstances of Contact – 29/01/2021 to 31/01/2021*

**Note: Test 1 refers to the Day 0 test for close contacts informed before 5pm on the 23rd December 2020 and the Day 5 test for close contacts informed after 5pm on the 23rd December 2020. Test 2, the Day 7 test, was temporarily suspended from the 23rd December. All testing of close contacts was suspended between 1st and 28th January 2021 with Test 1 (on Day 5) resuming from the 29th January 2021. Attendance and results are reported a week in arrears to allow for testing to occur on Day 5. ** Unstable positivity rate due to small numbers.*

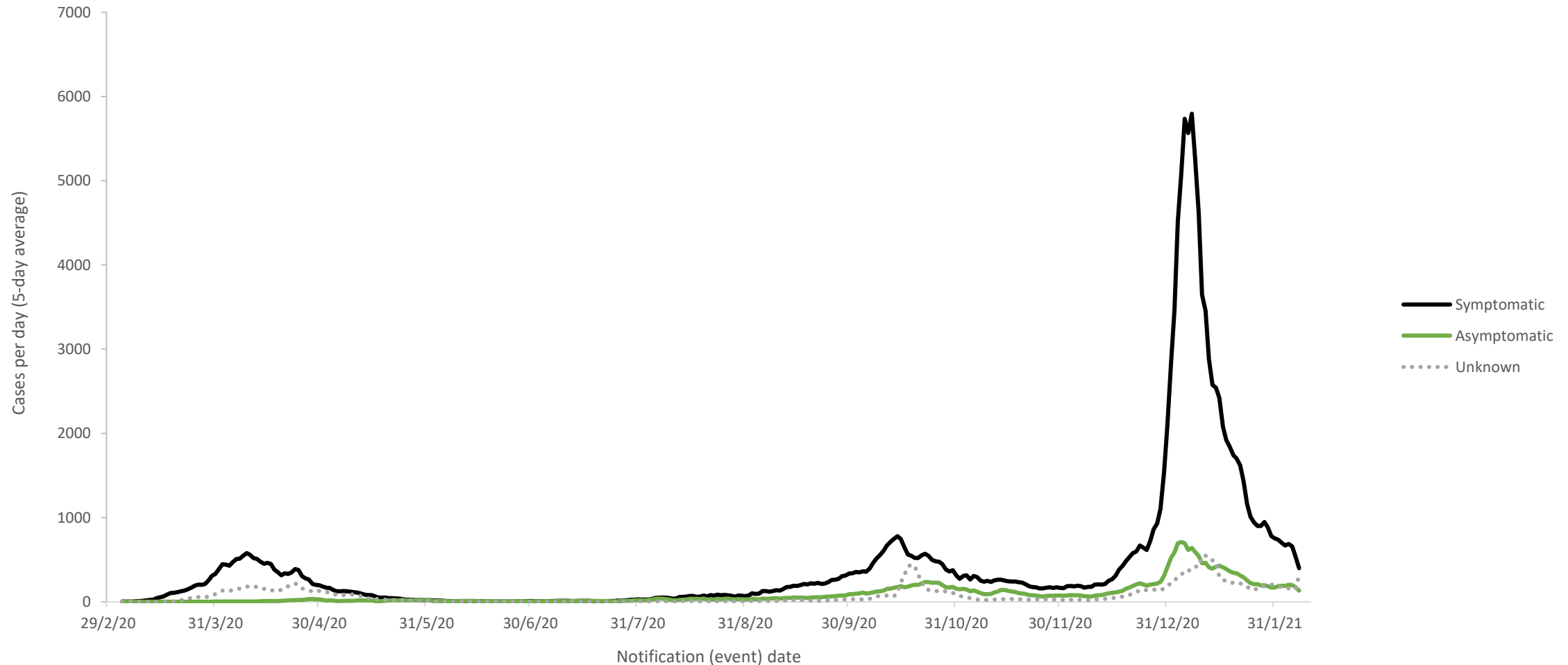
Source: HSE – COVID-19 Contact Management Programme Weekly report

Symptomatic and asymptomatic cases

The number of symptomatic cases each day continues to decrease steadily; the relative number of asymptomatic cases is increasing as the testing of asymptomatic close contacts has resumed. Asymptomatic cases have increased from $\approx 10\%$ to $\approx 20\%$ of all cases, currently ≈ 180 cases per day



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

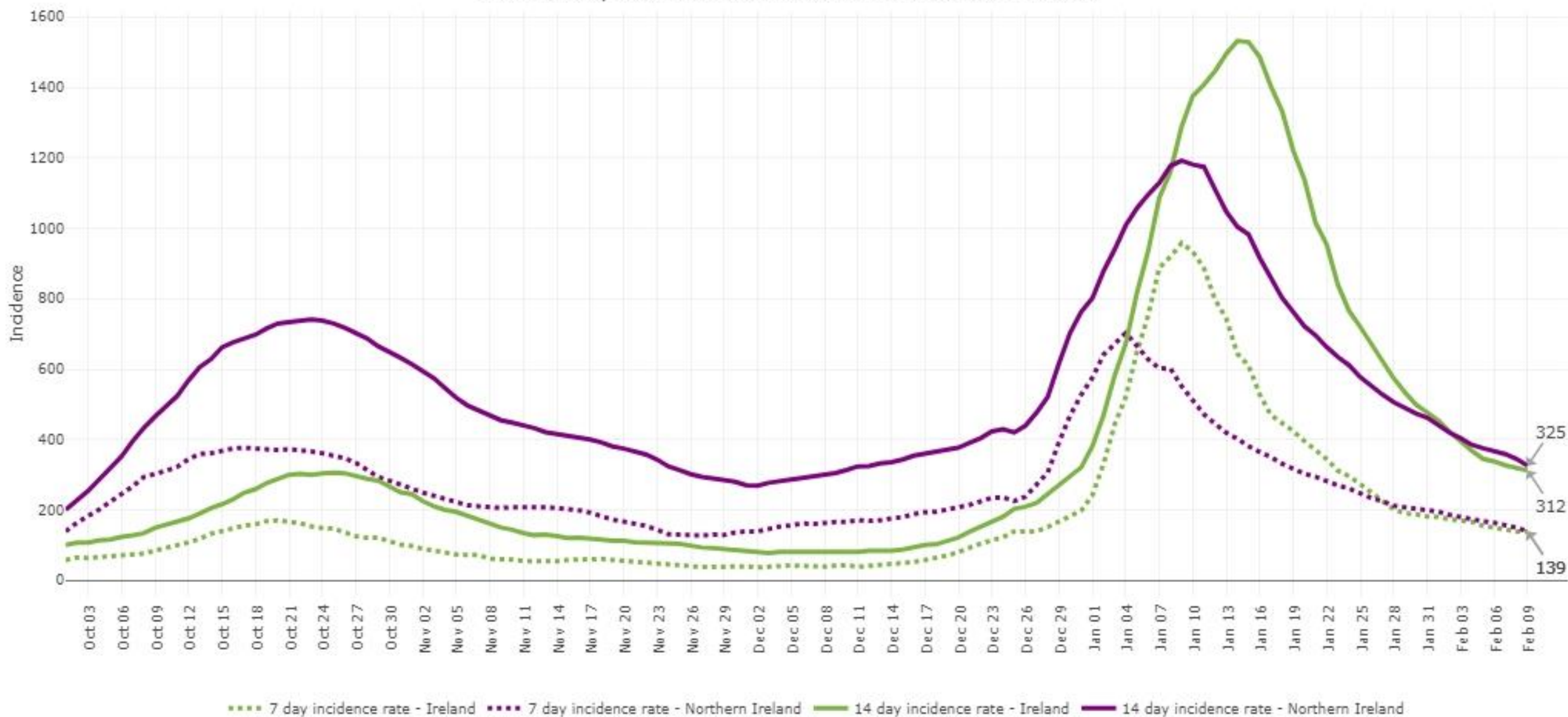


Sentinel GP ILI consultation/100,000 pop.	Week of Consultation																		
	40	41	42	43	44	45	46	47	48	49	50	51	52	53	1	2	3	4	5
All Ages	21.9	33.5	31.4	35.3	15.7	16.8	15.6	17.7	19.2	21.6	28.1	41.9	42.7	63.0	120.4	70.2	45.0	28.9	19.8
<15 yrs	17.6	24.5	26.4	30.2	9.5	15.2	23.5	17.7	26.6	23.6	31.3	39.0	29.3	18.8	37.1	21.4	26.0	3.1	14.3
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	53.9	36.6	22.5
≥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	31.4	31.8	15.0
Number of reporting practices (N=60)	51	55	55	56	57	54	58	57	58	58	58	58	58	58	56	58	58	55	54

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*

7 and 14 day Incidence rates for Ireland and Northern Ireland



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

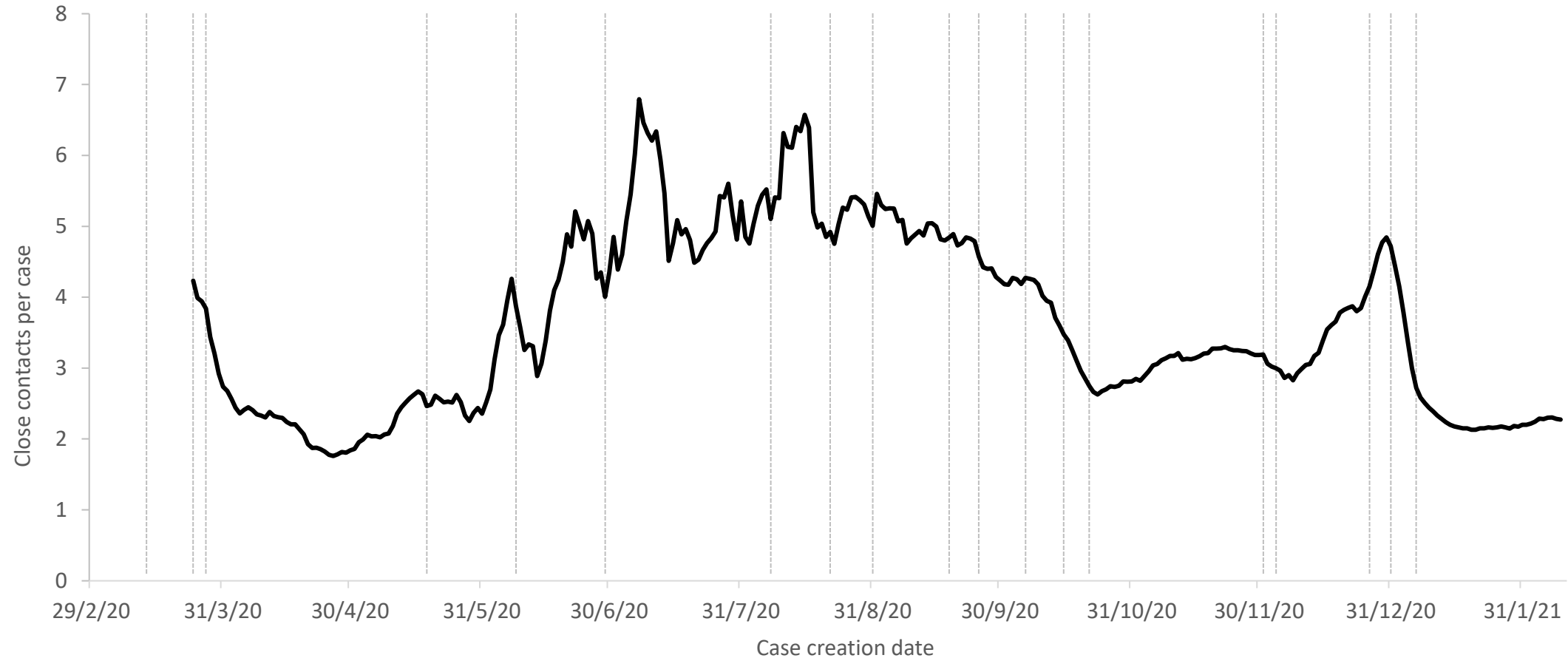
Source: HPSC CIDR Extract 100221 and health-ni.gov.uk daily data 10/02/21.



Growth in Cases & R number

Close contacts of adult confirmed cases

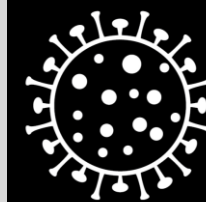
The mean number of close contacts per confirmed case. The number of contacts was very low (2 or less) during April, but increased to 5-6 per case during the summer. The progressive escalation of public health measures during October was associated with a progressive reduction in close contacts, to below 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 (2.3 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.

Estimates of effective reproduction number (R)

Reproduction number is below 1.0, but may be increasing; it is currently estimated at 0.6 – 0.8



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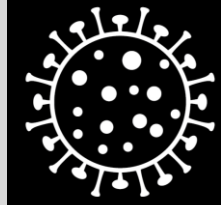
Method	Estimate	95% confidence interval
SEIR model-inferred	0.71	0.46 – 1.01
Bayesian model	0.68	0.35 – 1.48
Time-dependent R	0.78	0.73 – 0.83
GAM estimate 2 Feb 2021	0.72	0.60 – 0.86
GAM estimate 9 Feb 2021	0.58	0.44 – 0.72

Estimates generated 10 February 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 10 February 2021



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- **Incidence continues to fall but remains high**
 - 4 times higher than early December 2020, 100 times higher than July 2020
- Cases (5-day average) **848 cases per day**; 14-day incidence **312 per 100,000**
 - Incidence in those **aged 85 and older** decreasing and approaching population average
 - Testing of close contacts increasing the number of asymptomatic cases with apparent increase in incidence in those aged 18 and younger
 - Dublin making an increasing contribution to national numbers
- Sustained suppression of transmission
 - Rate of decline continues at -3 to -7 %, halving time 10-20 days, **R estimated at 0.6 – 0.8**
- **Indicators of mobility and contact remain low** but may be drifting upwards
- **Test positivity** may have **plateaued** at a relatively high level
- **Numbers in hospital decreasing, numbers in ICU starting to decrease**
 - Healthcare-acquired infections and cases in LTRC decreasing
- **High mortality** but may be stabilizing
- Models show that if we maintain suppression of transmission, we can achieve 200-400 cases per day by end-February
- We are maintaining an extraordinary effort but still we have a long way to go



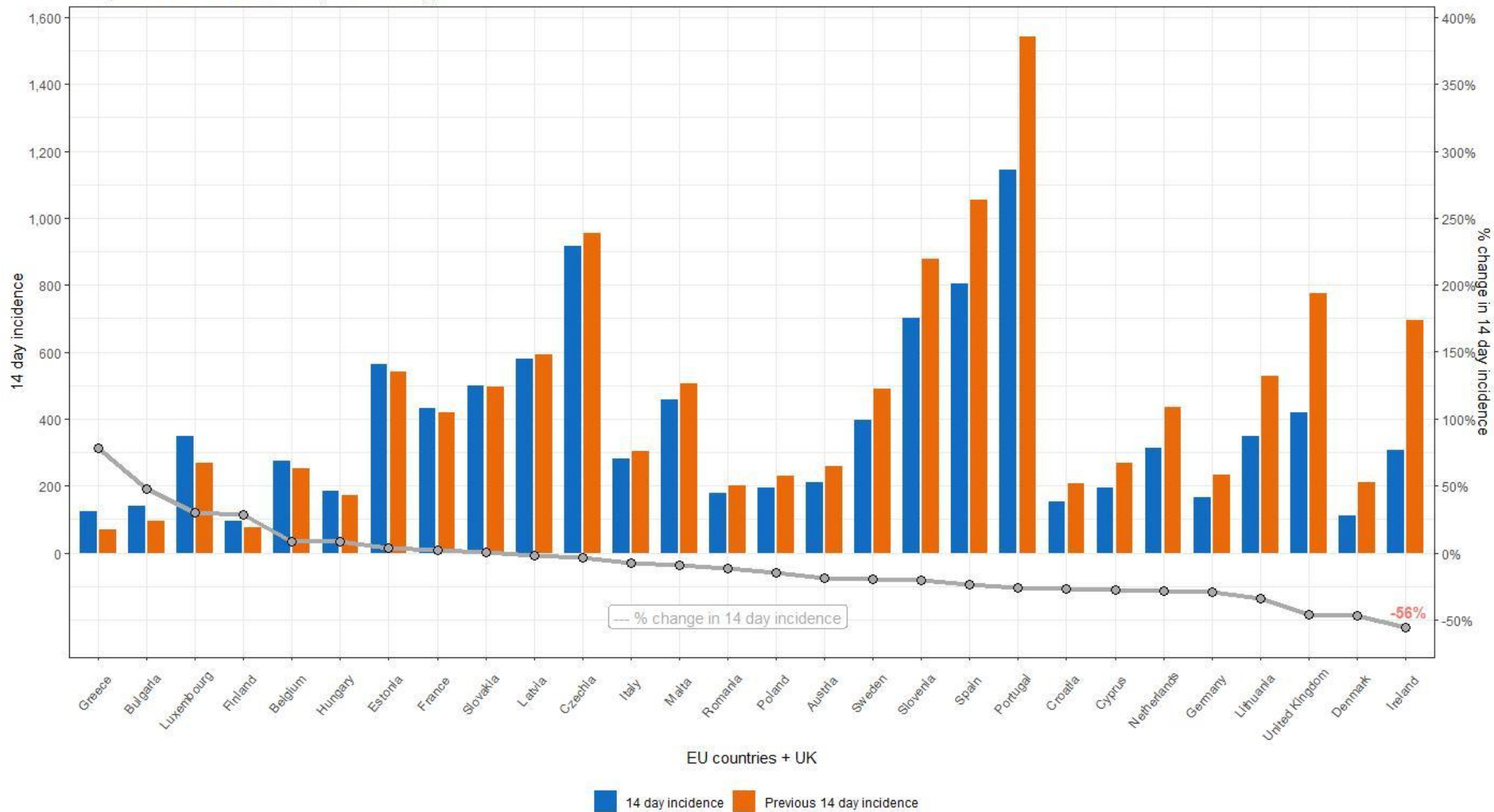
European Data

EU/UK ranked by 14 day percentage change (9th February)

EU/EEA and the UK	14 day incidence	Previous 14 day incidence	% change in 14 day incidence
Greece	123.2	69.1	78%
Bulgaria	138.8	94.1	48%
Luxembourg	346.7	266.9	30%
Finland	95.4	74.2	29%
Belgium	273.5	253.0	8%
Hungary	184.9	171.1	8%
Estonia	563.8	542.2	4%
France	430.1	420.0	2%
Slovakia	498.0	497.1	0%
Latvia	580.3	591.0	-2%
Czechia	916.9	953.8	-4%
Italy	280.1	302.2	-7%
Malta	456.6	505.1	-10%
Romania	176.7	200.0	-12%
Poland	195.4	229.7	-15%
Austria	210.4	258.8	-19%
Sweden	394.9	489.4	-19%
Slovenia	700.0	876.7	-20%
Spain	803.5	1053.6	-24%
Portugal	1143.7	1542.9	-26%
Croatia	152.3	207.5	-27%
Cyprus	194.9	268.9	-28%
Netherlands	313.0	435.5	-28%
Germany	164.7	233.6	-29%
Lithuania	348.5	529.2	-34%
United Kingdom	417.6	776.3	-46%
Denmark	111.7	209.9	-47%
Ireland	305.6	693.8	-56%

- 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 (09 February)

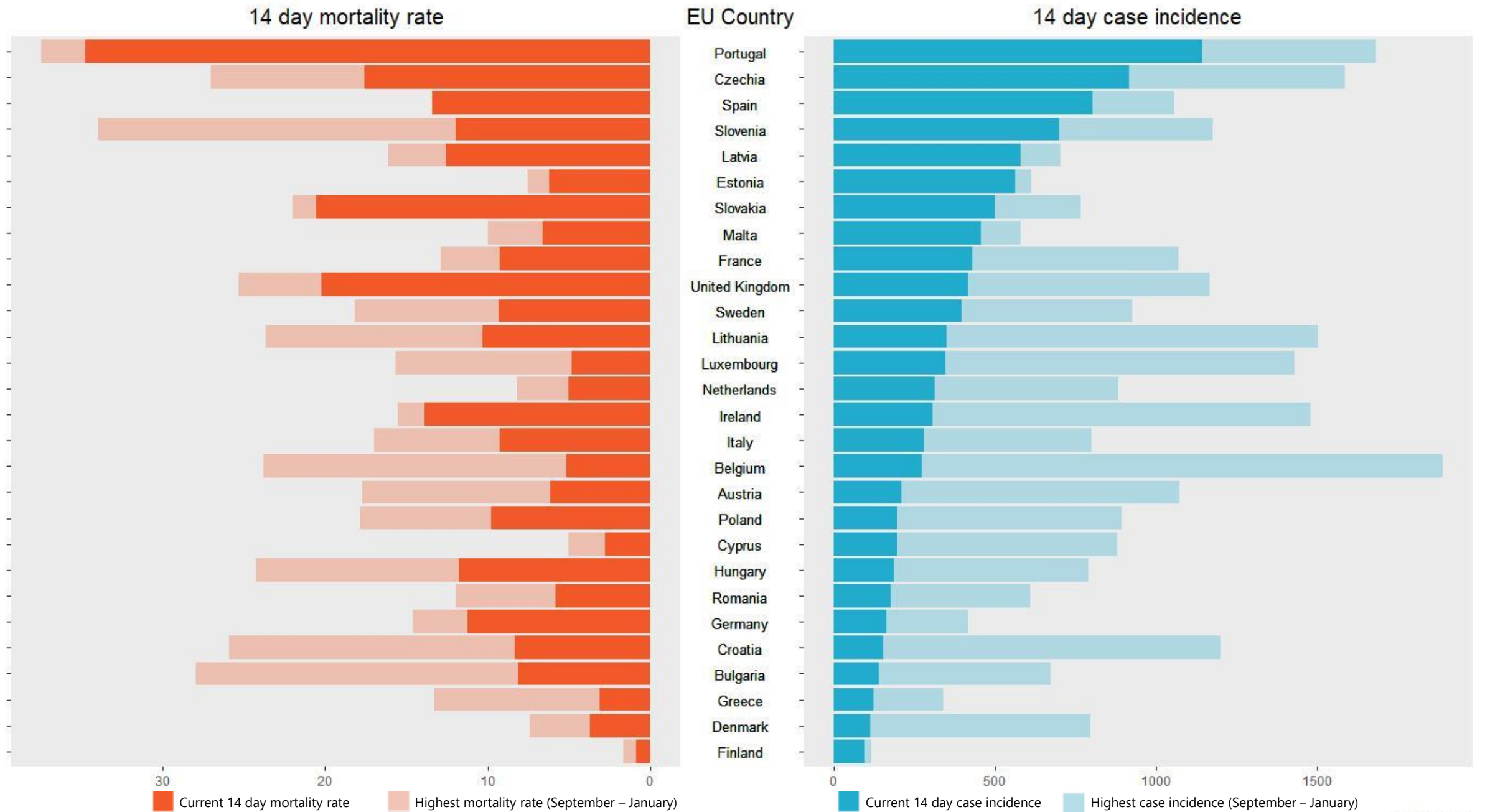


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EU/UK ranked by 14 day incidence (9th February)

EU/EEA and the UK	14 day incidence	Previous 14 day incidence	% change in 14 day incidence
Portugal	1143.7	1542.9	-26%
Czechia	916.9	953.8	-4%
Spain	803.5	1053.6	-24%
Slovenia	700.0	876.7	-20%
Latvia	580.3	591.0	-2%
Estonia	563.8	542.2	4%
Slovakia	498.0	497.1	0%
Malta	456.6	505.1	-10%
France	430.1	420.0	2%
United Kingdom	417.6	776.3	-46%
Sweden	394.9	489.4	-19%
Lithuania	348.5	529.2	-34%
Luxembourg	346.7	266.9	30%
Netherlands	313.0	435.5	-28%
Ireland	305.6	693.8	-56%
Italy	280.1	302.2	-7%
Belgium	273.5	253.0	8%
Austria	210.4	258.8	-19%
Poland	195.4	229.7	-15%
Cyprus	194.9	268.9	-28%
Hungary	184.9	171.1	8%
Romania	176.7	200.0	-12%
Germany	164.7	233.6	-29%
Croatia	152.3	207.5	-27%
Bulgaria	138.8	94.1	48%
Greece	123.2	69.1	78%
Denmark	111.7	209.9	-47%
Finland	95.4	74.2	29%

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Updated 09 February

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EU/UK ranked by 7 day percentage change (9th February)

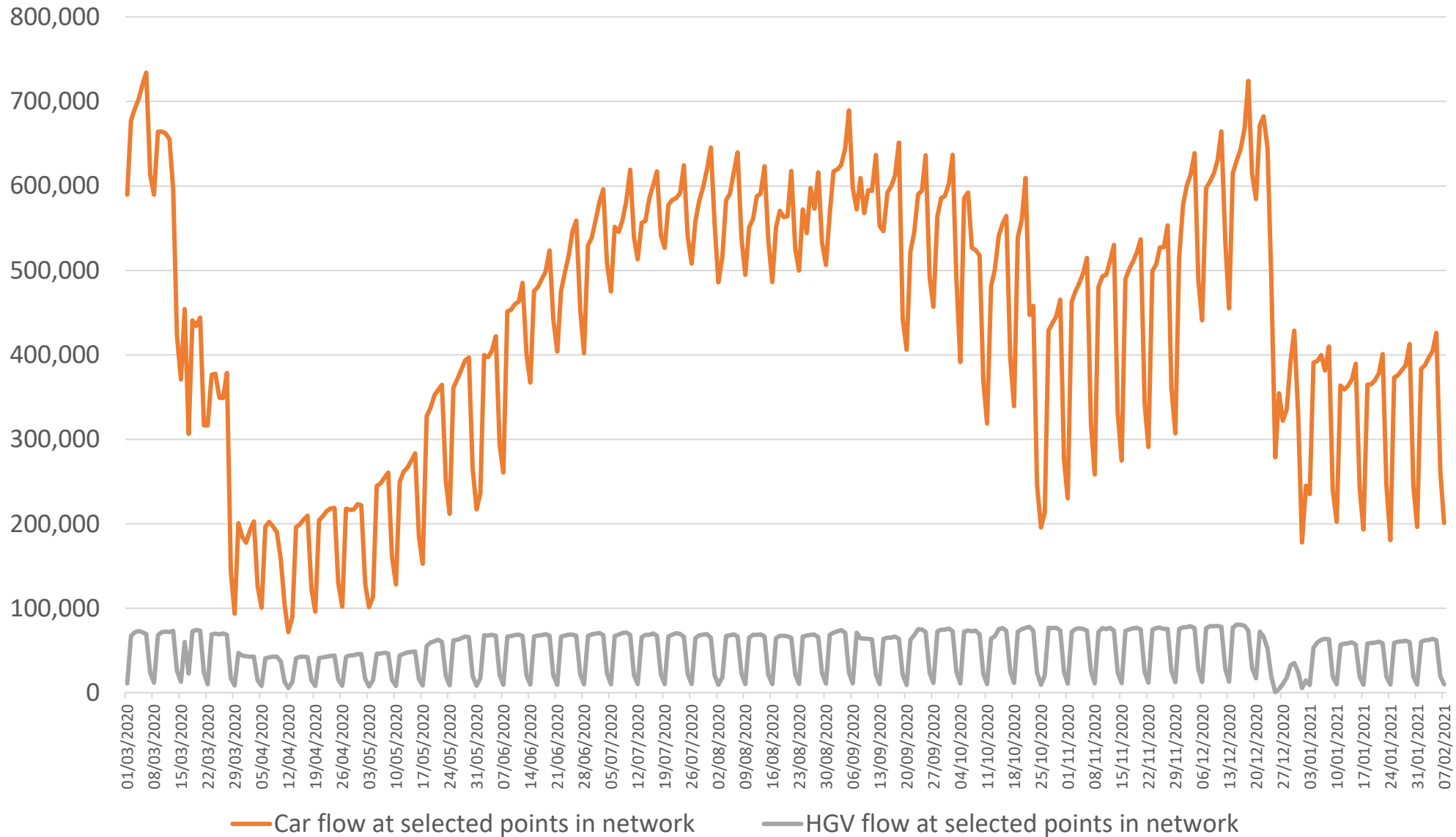
EU/EEA and the UK	7 day incidence	Previous 7 day incidence	% change in 7 day incidence
Greece	70.5	52.7	34%
Bulgaria	79.4	59.5	33%
Hungary	97.8	87.1	12%
Czechia	472.7	444.2	6%
Estonia	288.8	275.0	5%
Luxembourg	175.6	171.1	3%
Slovakia	251.2	246.9	2%
Italy	140.1	140.0	0%
Latvia	288.5	291.8	-1%
Finland	47.3	48.1	-2%
Poland	96.4	99.1	-3%
Austria	103.6	106.9	-3%
Romania	86.8	89.9	-3%
Sweden	193.8	201.2	-4%
Cyprus	95.3	99.6	-4%
France	207.7	222.4	-7%
Belgium	130.0	143.5	-9%
Denmark	52.9	58.9	-10%
Netherlands	145.1	167.9	-14%
Croatia	69.4	82.9	-16%
Germany	74.0	90.7	-18%
Ireland	132.0	173.6	-24%
United Kingdom	176.8	240.8	-27%
Malta	191.8	264.8	-28%
Lithuania	146.1	202.4	-28%
Spain	328.6	474.9	-31%
Slovenia	282.7	417.2	-32%
Portugal	379.0	764.8	-50%

- 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>



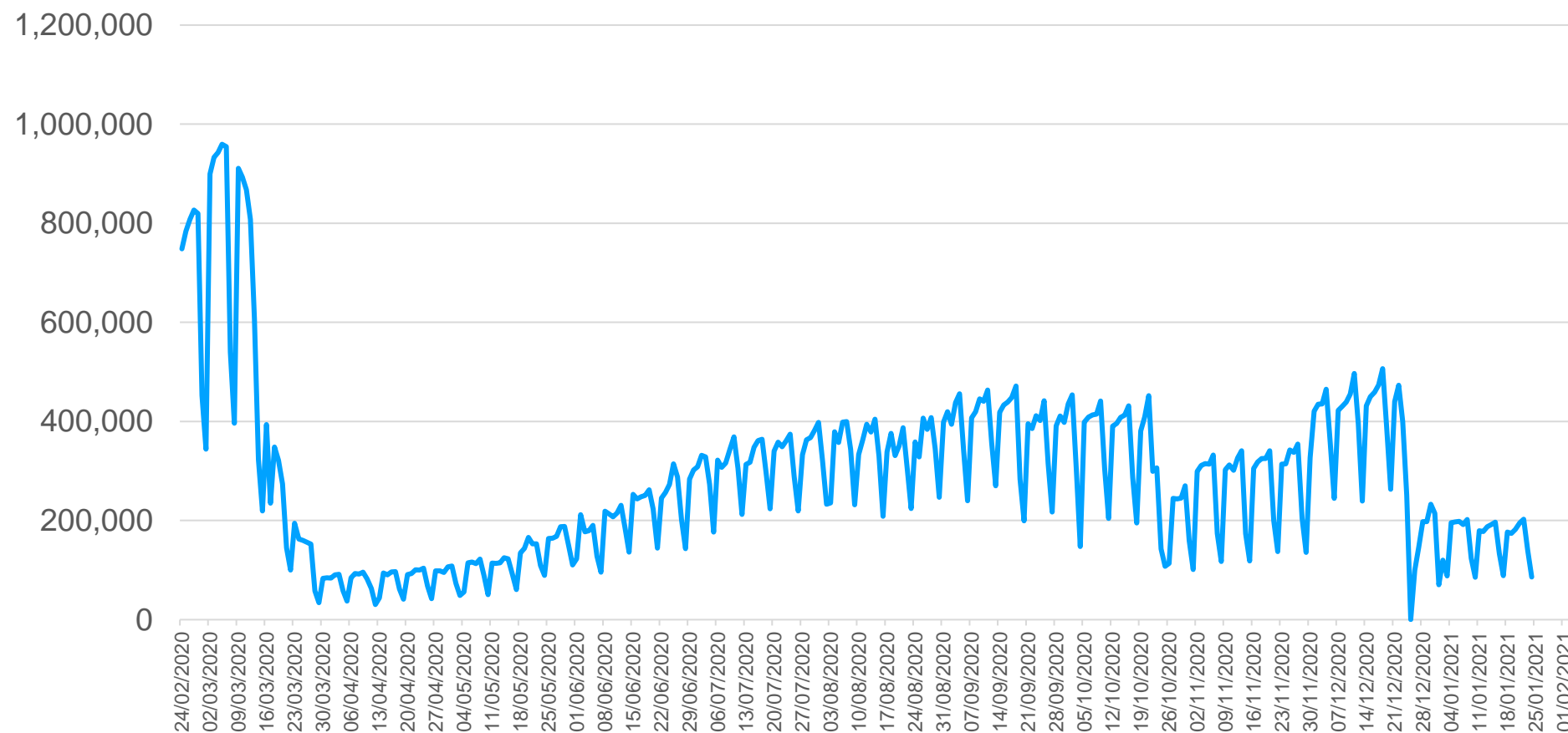
Compliance Data

Daily Traffic Flow

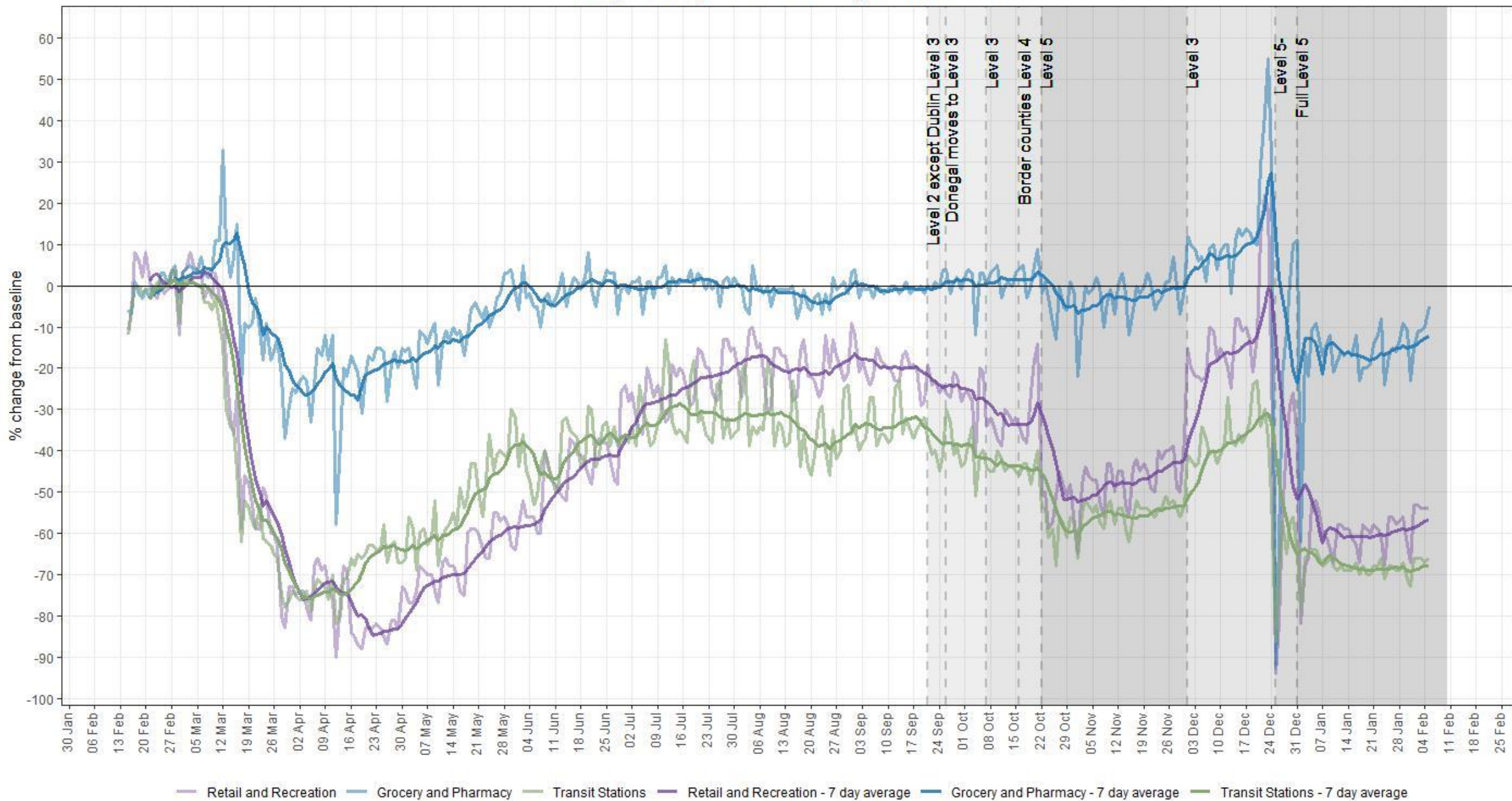




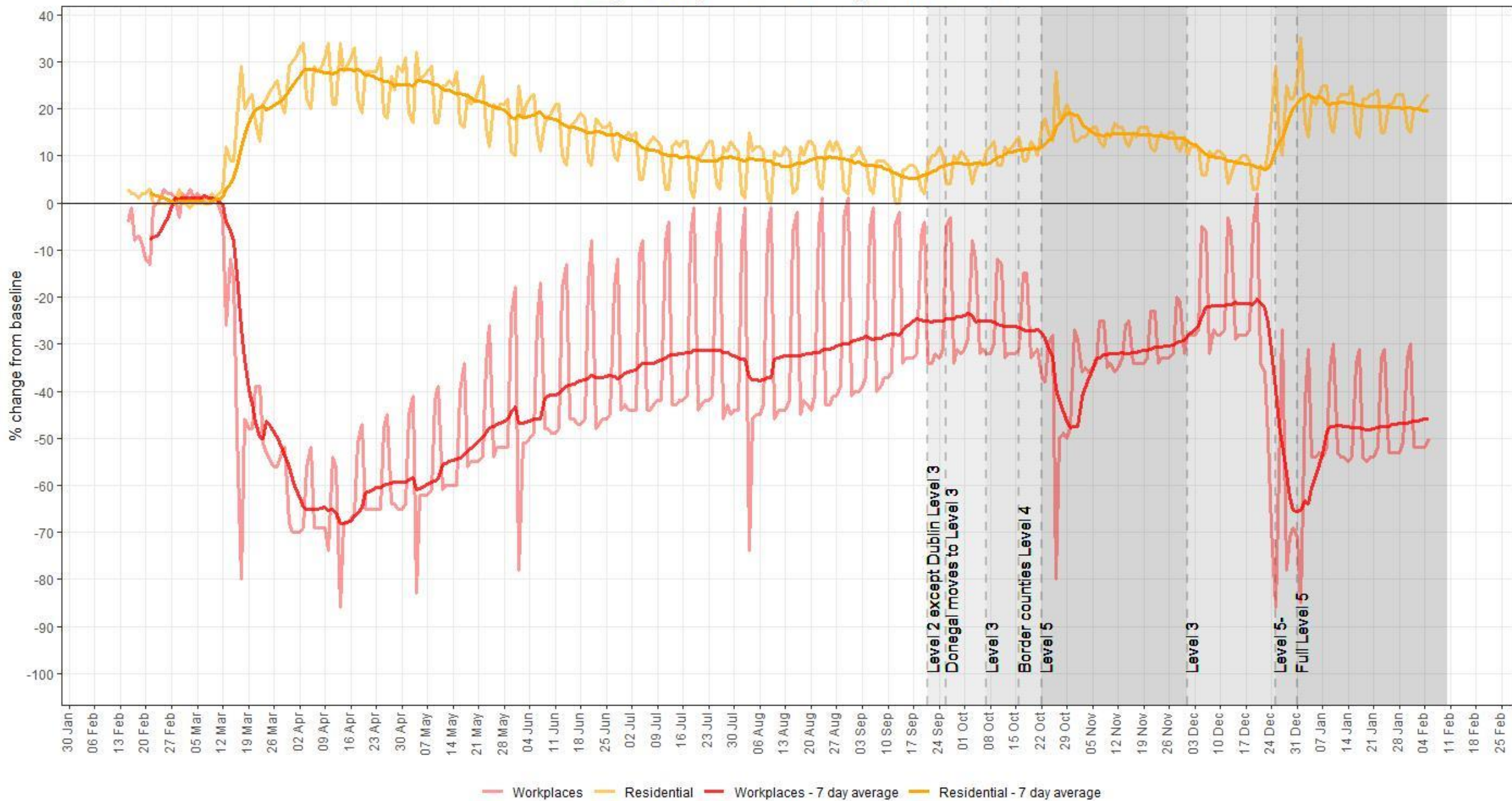
Overall Public Transport daily passengers



Google Mobility Ireland - % change from baseline



Google Mobility Ireland - % change from baseline



Apple Mobility Ireland - % change from baseline

