



An Roinn Sláinte
Department of Health

NPHET COVID Update 4th February 2021

Current situation



	01-Oct	26-Oct (2 nd wave peak 14 day inc.)	01-Dec	14-Jan	18-Jan	22-Jan	26-Jan	30-Jan	03-Feb
14-day incidence	96.10	306.29	86.92	1495.65	1402.75	1015.95	720.45	536.11	424.14
5-day average cases	407.2	920.0	261.0	4464.2	3144.2	2311.8	1589.0	1275.8	1120.6
Total weekly cases	2608	7003	1893	35403	22357	17725	13026	9124	8318

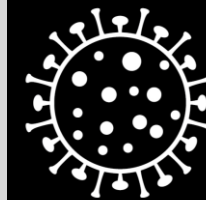
	01-Oct	26-Oct (2 nd wave peak 14 day inc.)	01-Dec	14-Jan	18-Jan	22-Jan	26-Jan	30-Jan	03-Feb
No. Hospital (8.A.M)	122	344	224	1792	2020	1969	1823	1494	1367
No. in ICU (6.30 P.M)	22	40	30	176	196	214	218	211	207

	01-Oct	26-Oct (2 nd wave peak 14 day inc.)	01-Dec	14-Jan	18-Jan	22-Jan	26-Jan	30-Jan	03-Feb
Positivity rate (7 day average)	3.0%	6.1%	2.7%	17.0%	14.1%	11.7%	9.1%	7.3%	6.6%

	October	November	December	January	February
Total Deaths	127	166	179	1153	65
Deaths associated with Nursing Home outbreaks	51	52	64	428	26
Deaths associated with Hospital outbreaks	24	59	57	112	0

Cases, numbers in hospital and intensive care

Case numbers remain high. The number of people in hospital is decreasing, and the number in ICU has plateaued and 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	Daily count 3 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	1013
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	
Hospital in-patients	862 17-04	9 02-08	333 01-11	198 16-12	1949 24-01	1414	1901	1889	1499	1367
<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	80
ICU confirmed cases	150 14-04	4 04-08	43 04-11	26 27-12	217 28-01	133	194	217	209	203
<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	12
Deaths confirmed per day	46 22-04	<1 30-07	7 01-12	4 17-12	57 03-02	23	44	50	57	94

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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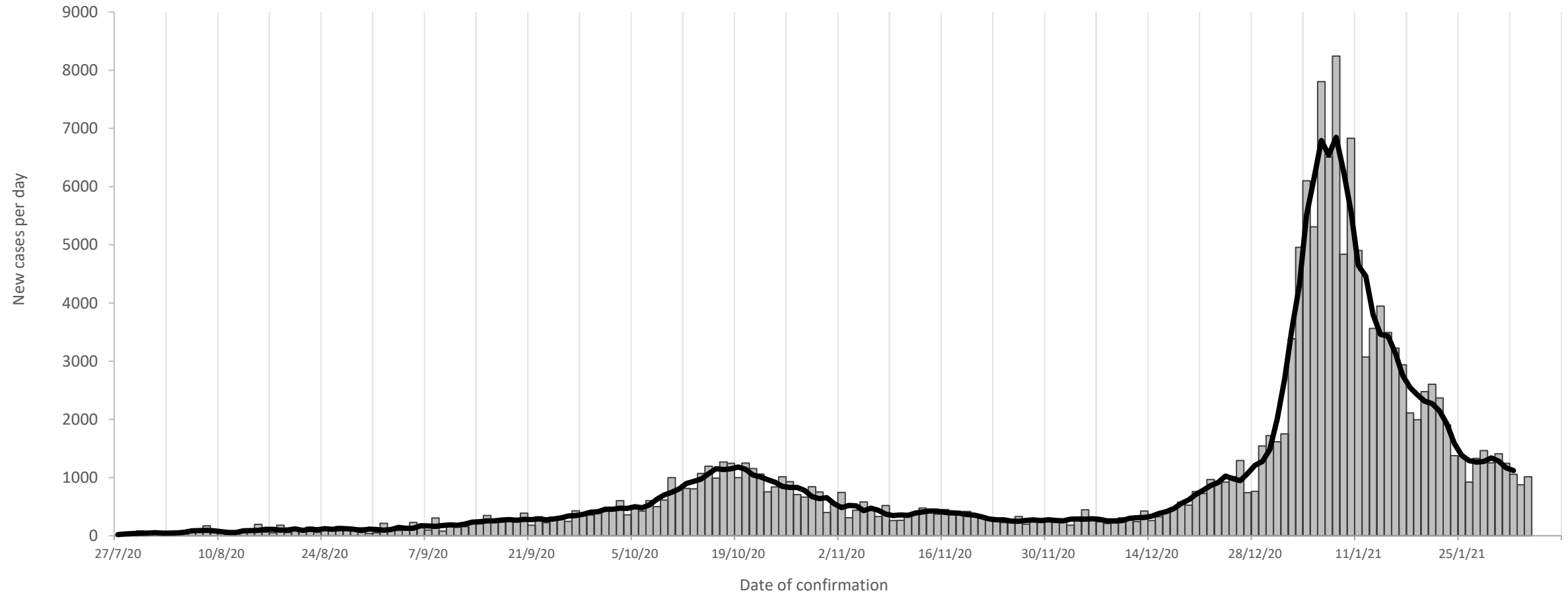
Cases, Incidence Rates & Testing

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 **1121**

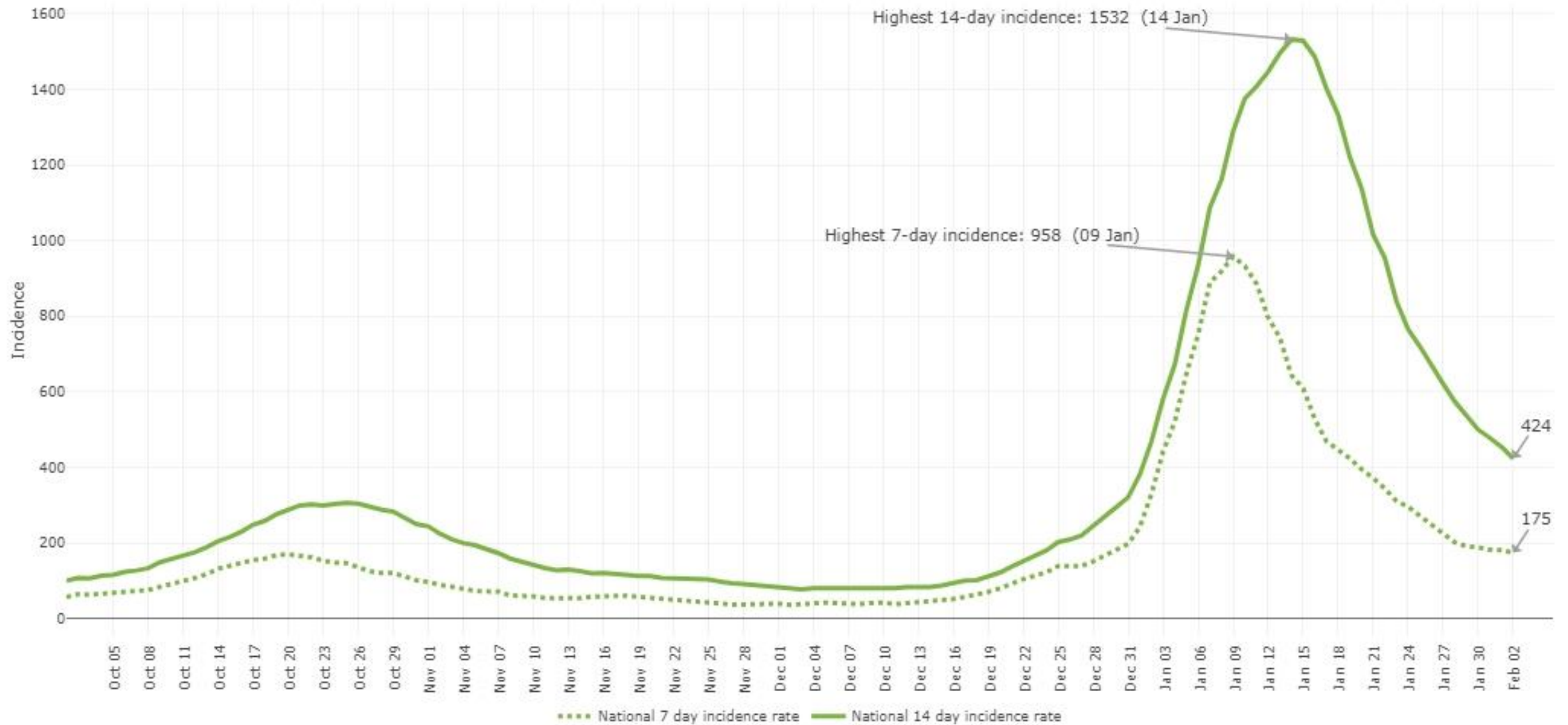


Cases per week	284	540	546	711	796	912	1303	1947	2059	3031	4457	7398	7073	4838	3424	2583	2580	1798	2028	1964	3369	6605	15743	45637	25149	14842	9001
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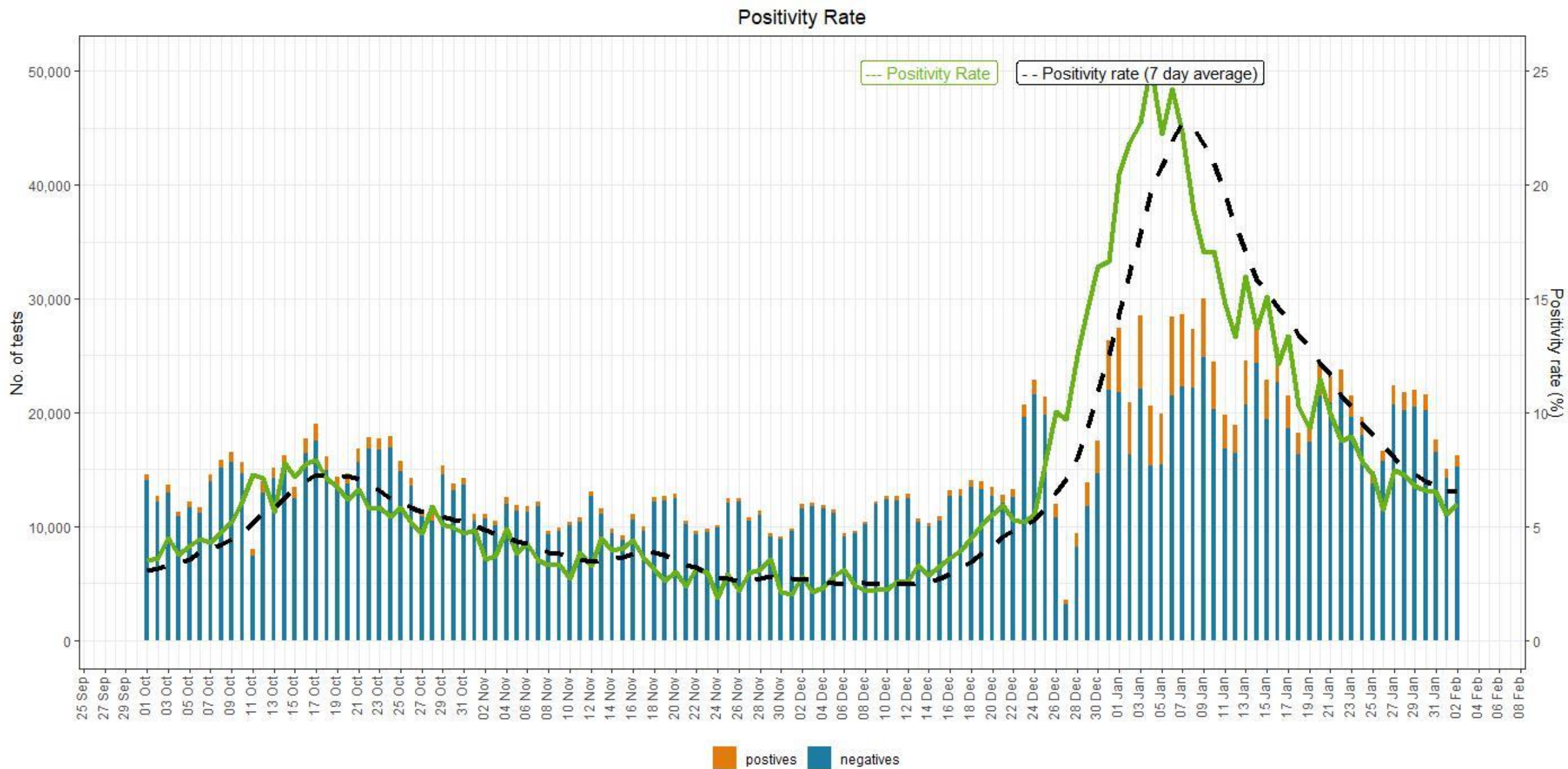


Daily count (bars) 5-day average (line) and weekly counts of the number of laboratory confirmed new cases by date on which they were confirmed by HPSC. Case counts may change due to denotification of cases. Weekly case counts are by notification (event date) and standard epidemiological week.

National 7 and 14 day Incidence rates

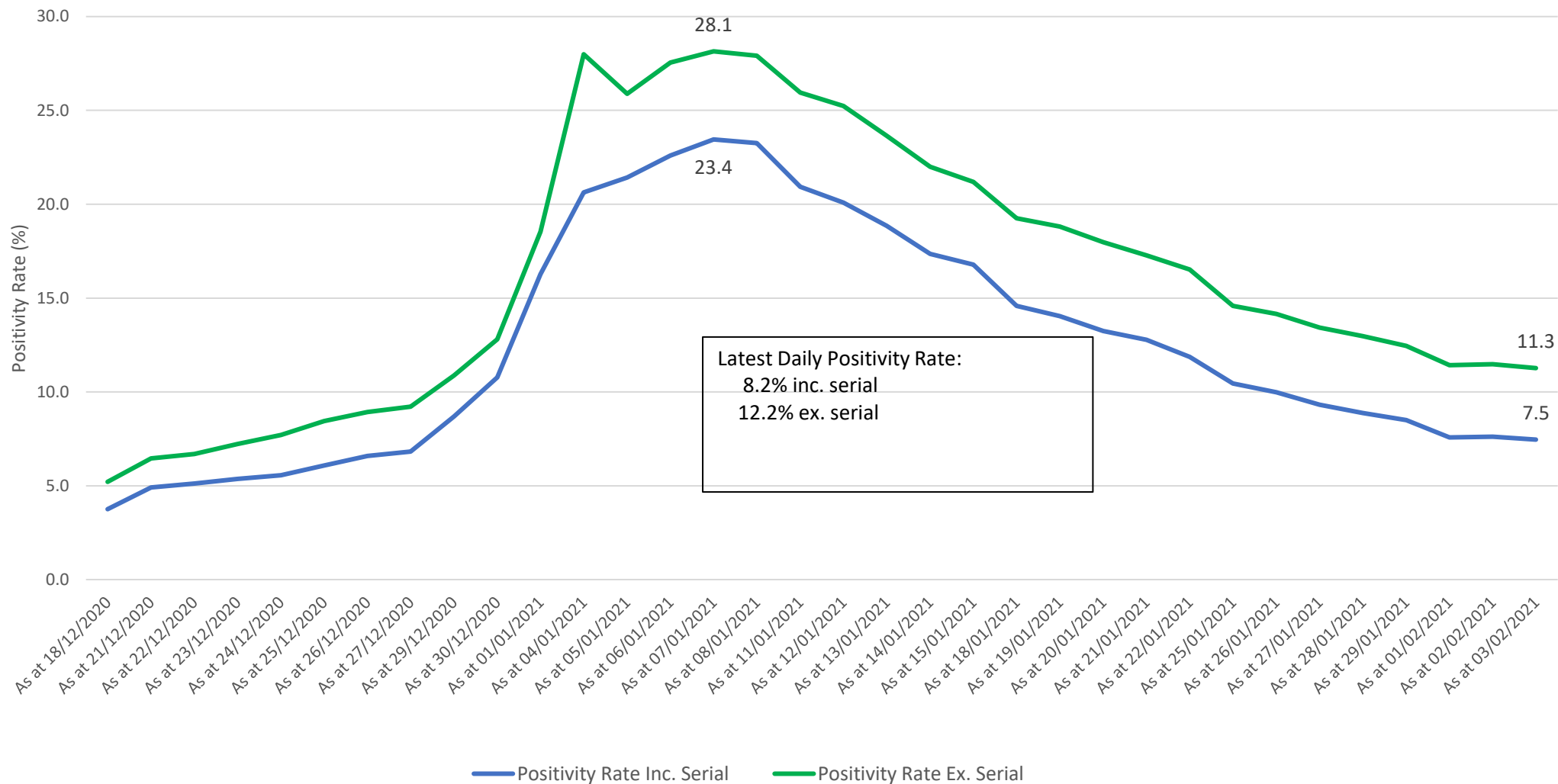


Recent trend in positivity rate



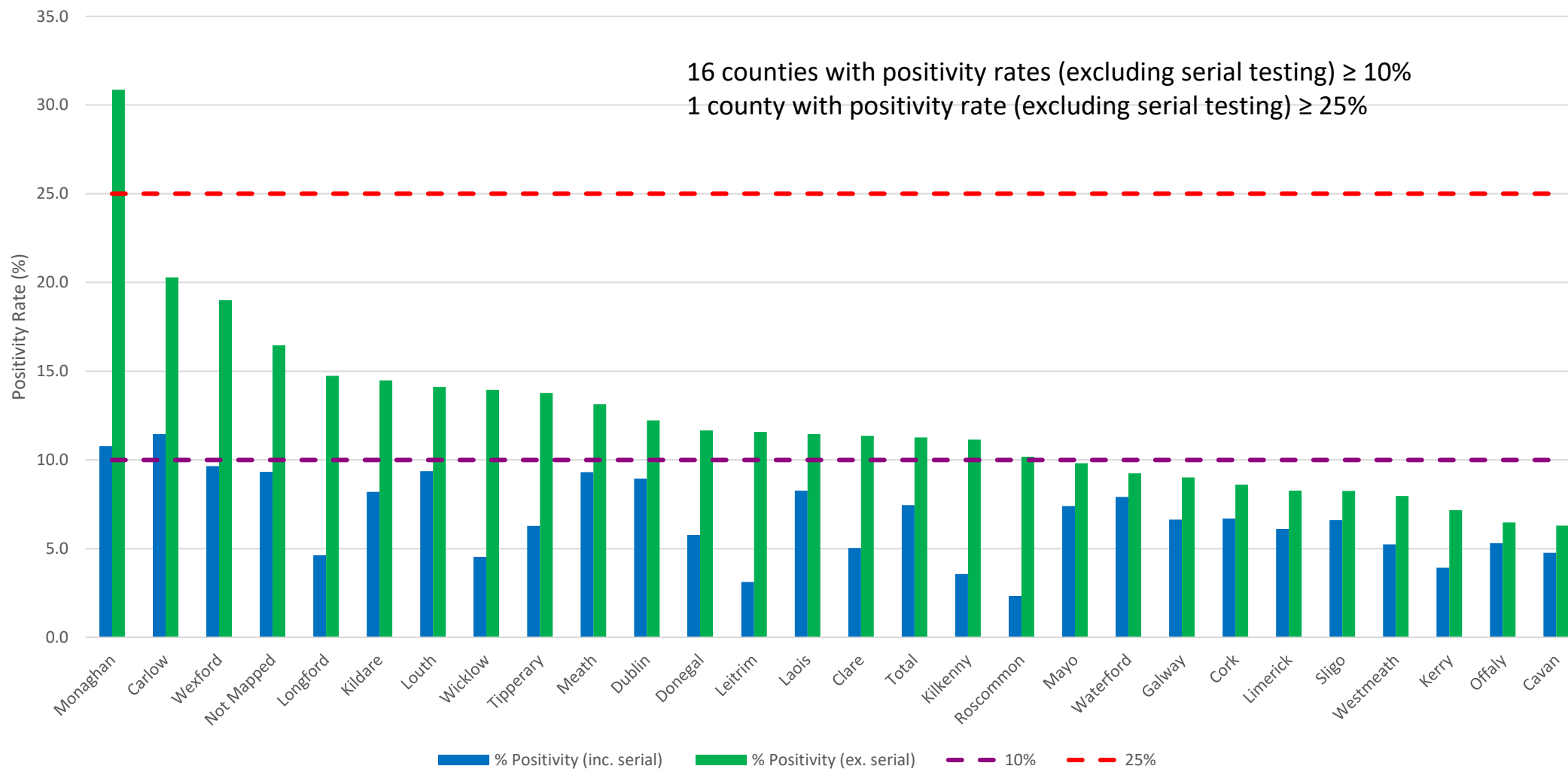


% Positivity Rate in Total Tests over Preceding 7 Days inc./ex. Serial Testing
(Data provided by HSE Contact Tracing Team and may differ from daily positivity rate data from Cumulative Labs Report)

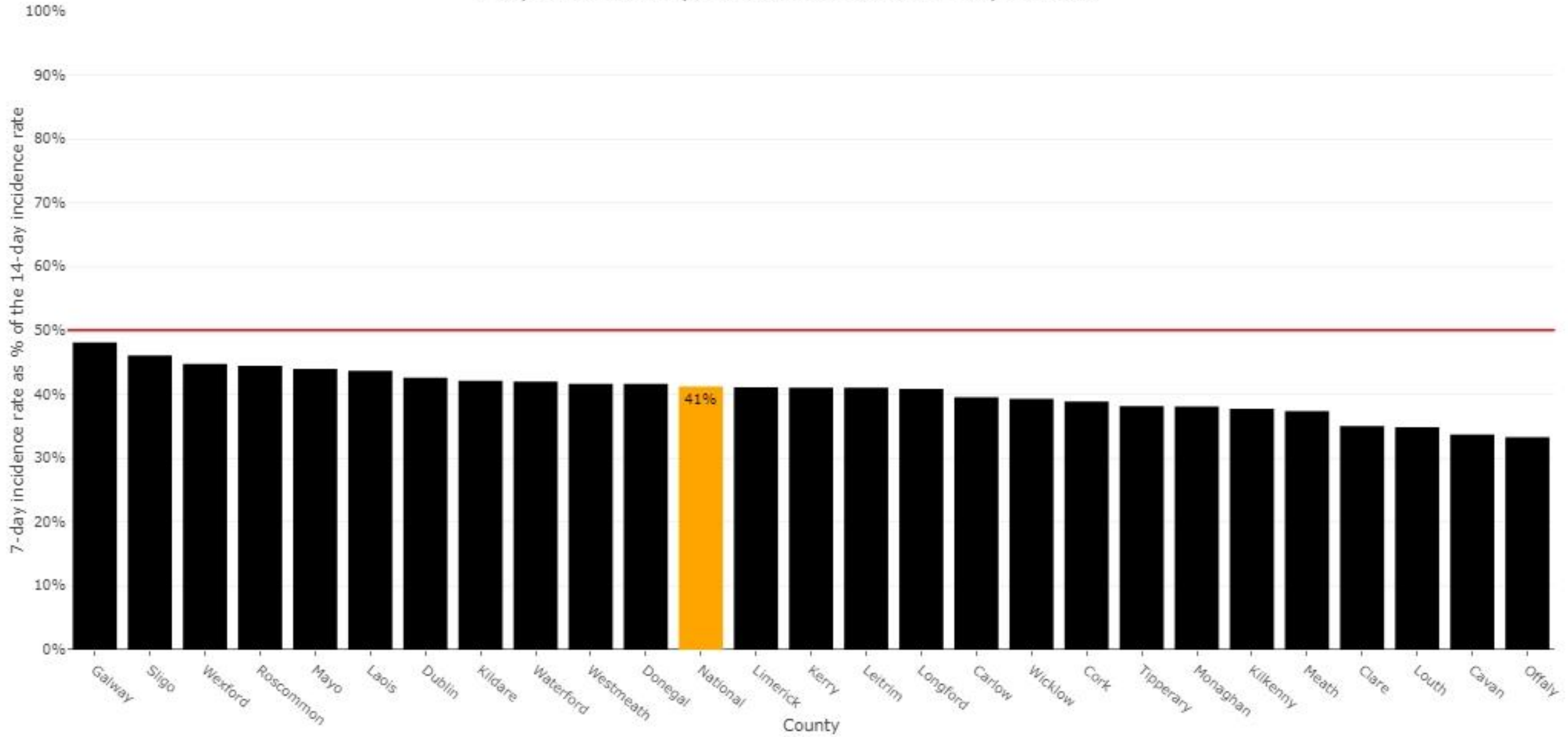




% Positivity Rate Past 7 Days (inc./ex. serial testing) by County as at 03/02/21
(Data provided by HSE Contact Tracing Team and may differ from daily positivity rate data from Cumulative Labs Report)

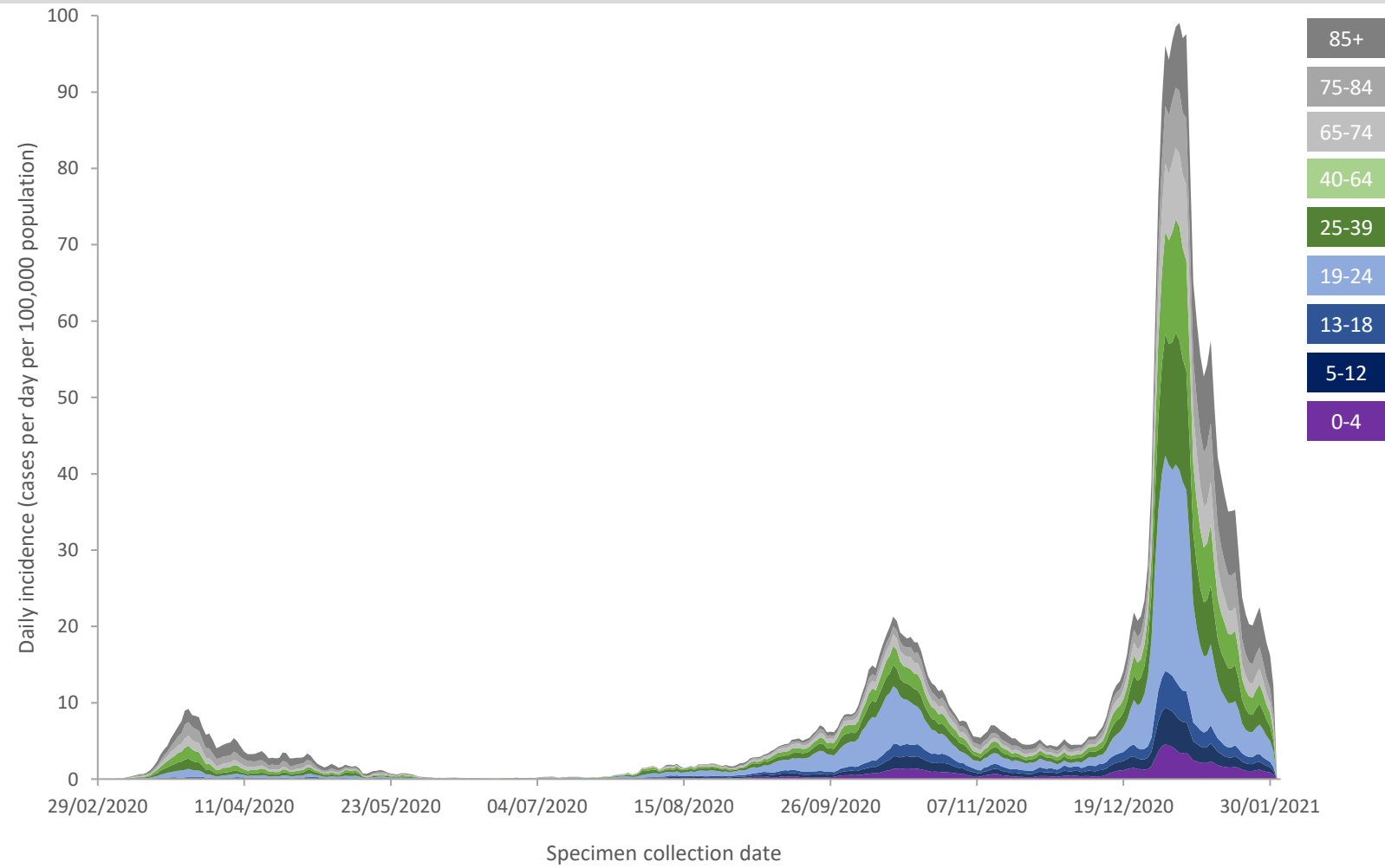


7-day incidence rate per 100,000 as % of the 14-day incidence



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.

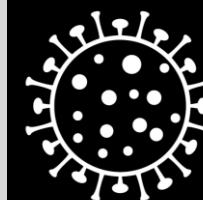


Week	Age band								
	0-4	5-12	13-18	19-24	25-39	40-64	65-74	75-84	85+
9	0.0	0.0	0.3	0.0	0.1	0.1	0.0	0.0	0.0
10	0.0	0.2	0.3	0.0	0.2	0.7	0.5	1.0	0.0
11	0.6	0.2	0.5	5.4	5.0	4.4	4.6	6.6	7.4
12	4.5	2.4	7.5	22.9	27.8	31.1	25.2	24.9	37.0
13	6.9	4.2	14.5	58.3	73.3	86.5	72.6	88.5	94.7
14	4.5	4.4	6.7	28.1	40.1	50.9	50.9	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	23.6	26.6	21.2	50.4	78.5
18	4.5	6.4	9.4	20.2	26.0	21.0	18.7	37.7	51.8
19	2.1	2.7	4.6	13.3	15.3	14.4	10.4	18.8	37.0
20	3.6	1.6	5.1	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	10.3	2.0	1.0	1.3	1.0	3.0
29	1.2	0.4	0.8	3.6	3.4	2.0	2.9	1.5	3.0
30	1.8	0.5	1.6	3.6	4.2	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	10.6	4.6	2.5	3.0
33	6.0	10.2	12.4	27.5	19.6	12.0	8.0	2.5	7.4
34	7.2	7.3	17.2	37.1	16.6	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	13.5	17.2	47.7	21.9	13.2	10.7	11.7	14.8
37	17.2	17.5	30.1	63.4	28.2	24.6	22.5	8.7	10.4
38	21.7	26.2	44.1	91.2	44.2	34.9	33.2	19.8	19.2
39	12.4	22.6	42.8	147.3	50.0	41.7	32.9	31.0	20.7
40	29.6	28.8	63.2	168.2	68.1	57.8	34.5	26.0	20.7
41	43.1	46.8	132.9	317.3	115.2	90.1	61.6	51.9	60.7
42	77.8	90.4	197.3	433.9	154.6	142.6	90.8	67.2	69.6
43	81.7	93.9	174.7	302.2	123.4	121.9	85.4	82.4	84.4
44	55.8	67.6	95.5	156.1	75.5	77.5	55.2	55.0	59.2
45	34.7	39.7	58.4	84.2	58.2	46.4	42.6	44.8	47.4
46	41.9	37.2	65.4	89.7	45.4	45.3	32.4	42.7	69.6
47	22.0	34.1	60.0	79.4	34.7	33.2	29.2	39.7	62.2
48	23.2	31.3	45.5	66.4	33.9	29.7	22.2	36.1	40.0
49	28.4	37.0	37.7	40.5	33.2	30.0	25.4	29.5	42.9
50	21.4	39.7	44.1	57.4	40.0	35.1	22.5	31.0	23.7
51	51.9	58.5	74.5	128.0	88.3	81.9	54.9	55.0	51.8
52	77.2	76.9	120.0	326.4	178.0	136.6	96.7	97.7	121.4
53	217.2	235.7	510.2	1403.3	762.6	640.7	425.2	349.6	395.2
1	182.8	208.9	569.2	1335.7	795.8	729.6	503.3	450.9	581.7
2	130.9	127.0	304.4	587.5	424.2	429.8	307.6	430.5	626.2
3	93.8	80.9	168.7	337.9	267.5	257.2	178.0	271.8	498.9
4	73.9	62.1	127.8	238.5	162.2	156.8	125.0	177.6	341.9

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 85 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+
48	23.2	31.3	45.5	66.4	33.9	29.7	22.2	36.1	40.0
49	28.4	37.0	37.7	40.5	33.2	30.0	25.4	29.5	42.9
50	21.4	39.7	44.1	57.4	40.0	35.1	22.5	31.0	23.7
51	51.9	58.5	74.5	128.0	88.3	81.9	54.9	55.0	51.8
52	77.2	76.9	120.0	326.4	178.0	136.6	96.7	97.7	121.4
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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.

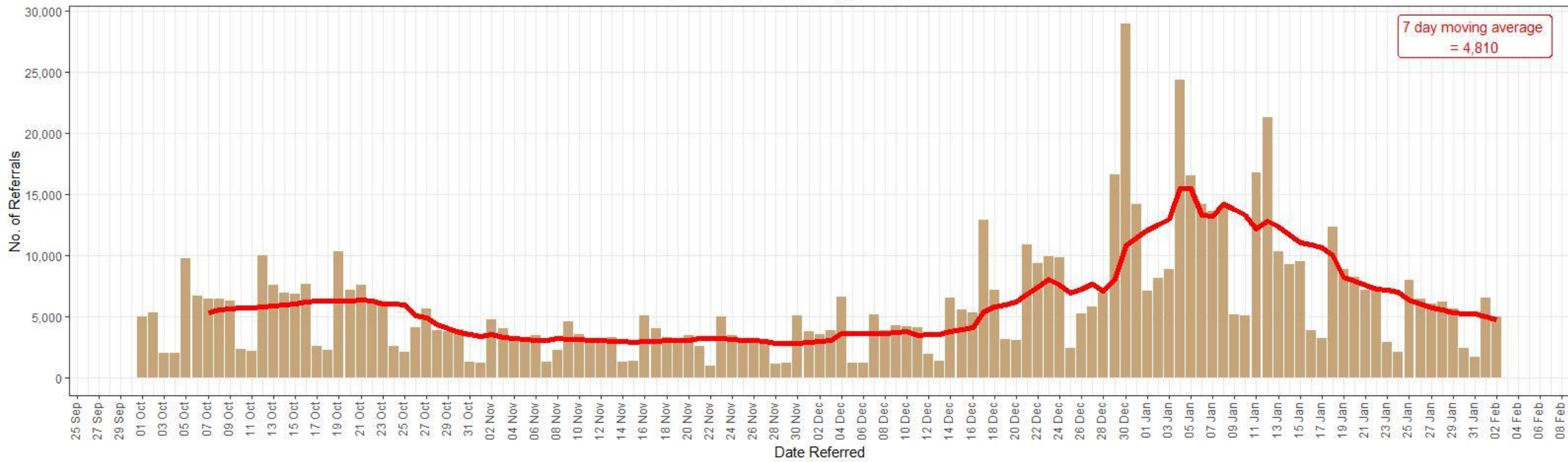


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GP referrals

GP Referrals excluding Close Contacts



Jan

					1 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 6,516 referrals (-26%)	27 6,111 referrals (-26%)	28 6,212 referrals (-14%)	29 5,637 referrals (-23%)	30 2,444 referrals (-17%)
31 1,696 referrals (-21%)						
Sun	Mon	Tue	Wed	Thu	Fri	Sat

Feb

	1 6,530 referrals (-19%)	2 5,040 referrals (-23%)	3	4	5	6
7	8	9	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.

COVID-19

GP Community Tracker

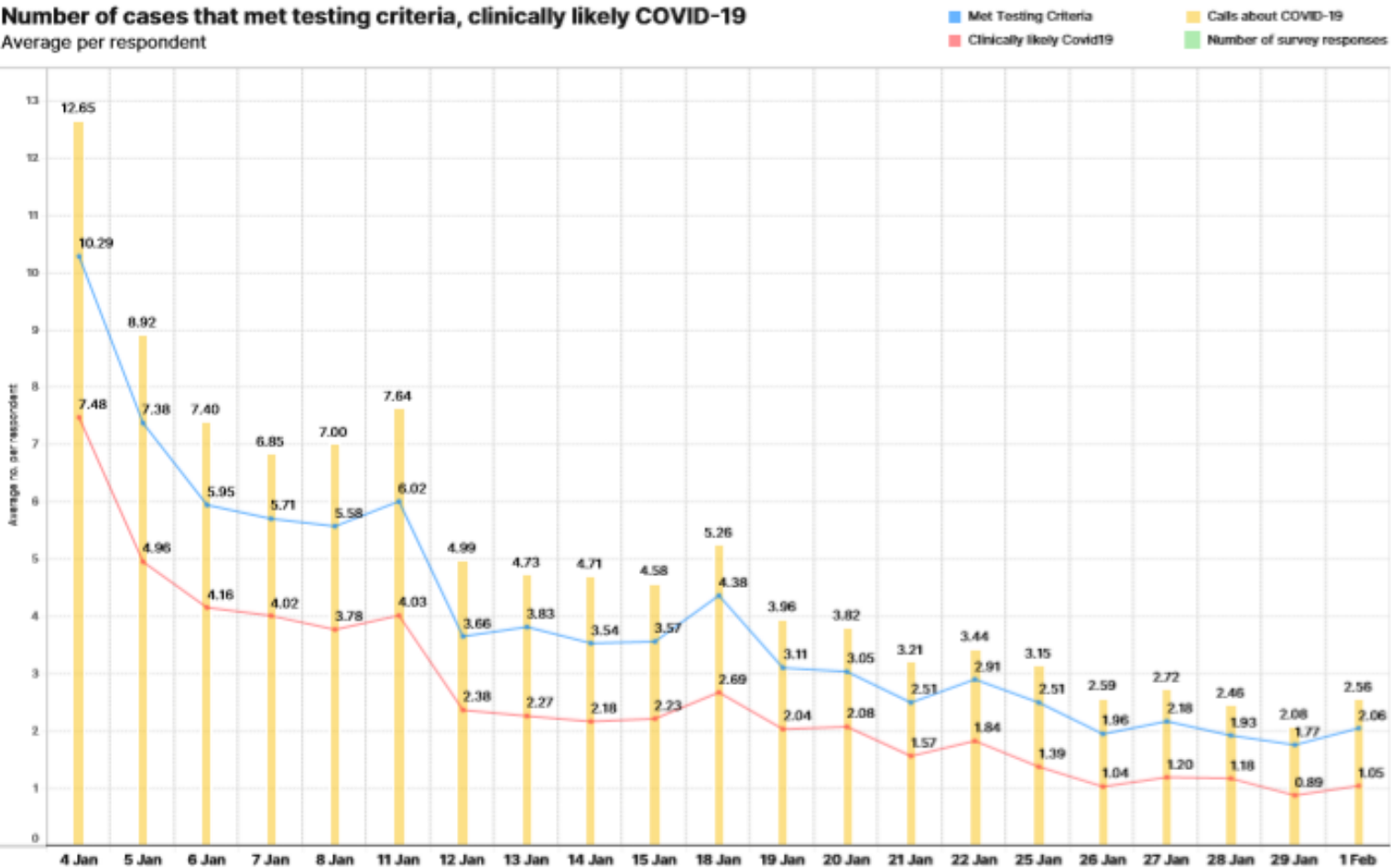


McKeogh S, Creane D, Moe K, Ó Ciardha D. Powered by:  MEDVAULT

2nd February 2021

Date range: 4th Jan to 1st Feb 2021 (last 4 weeks)

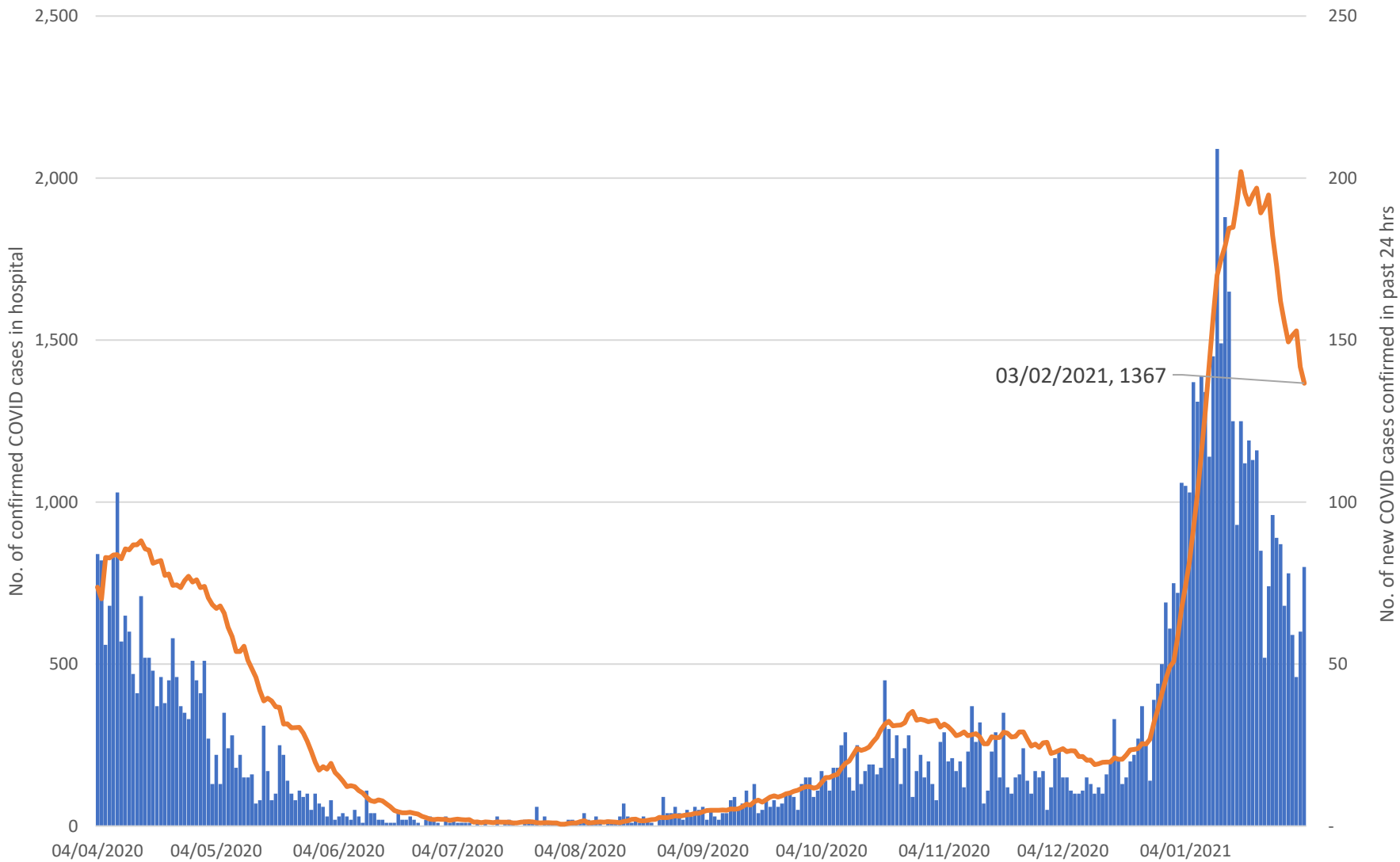
Number of cases that met testing criteria, clinically likely COVID-19
Average per respondent



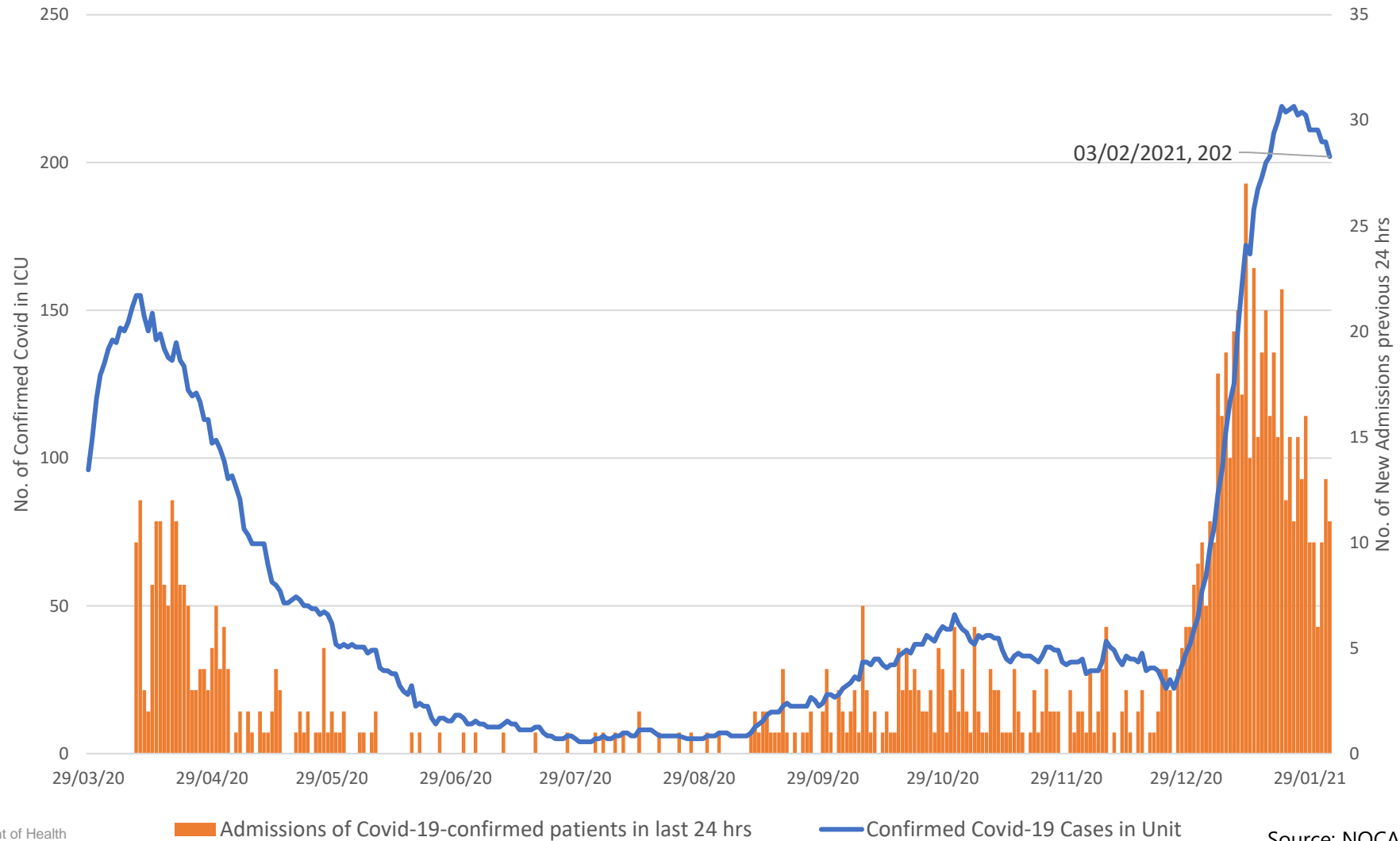


Hospital & ICU Data

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



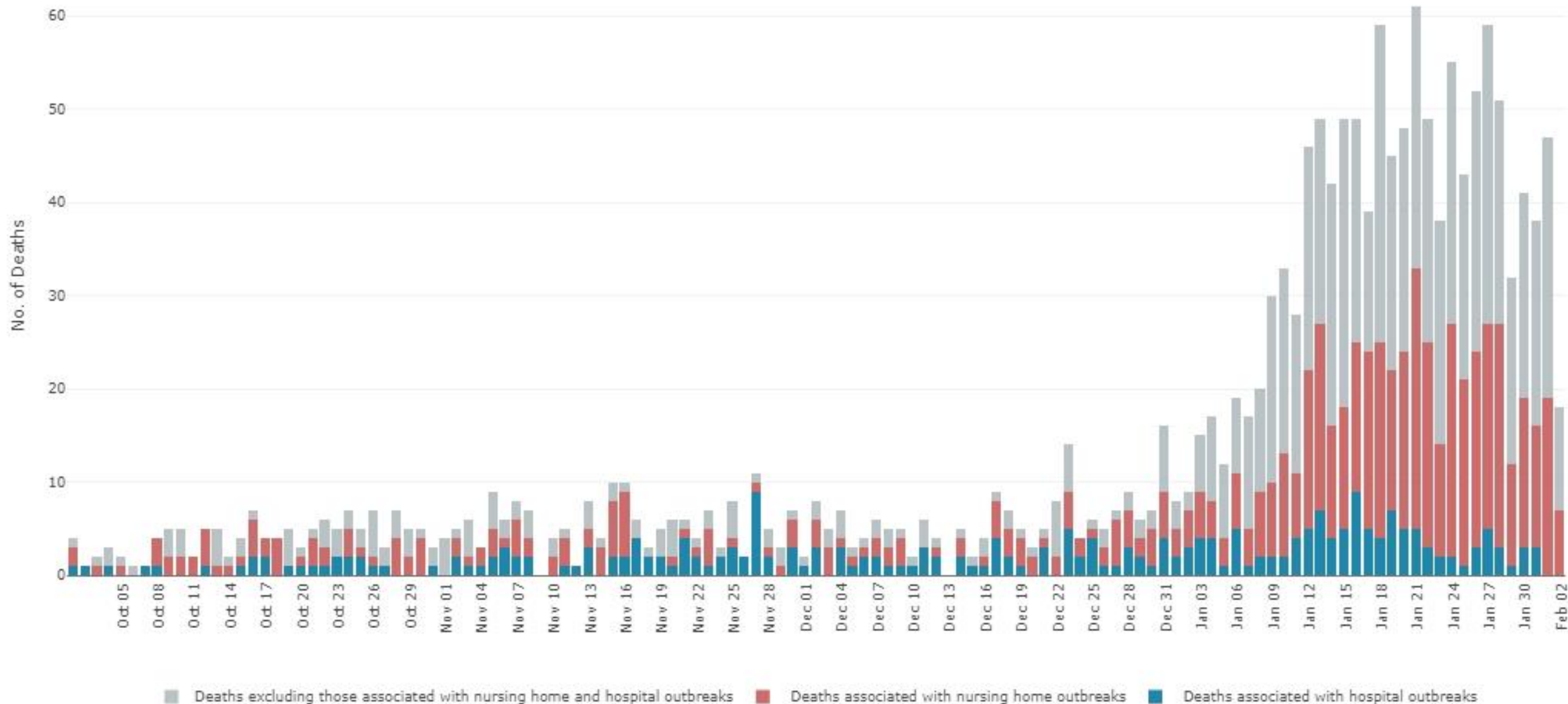
Total No. of Confirmed Covid Cases in ICU at 11.30AM & No. of New Confirmed Covid Admissions to ICU in past 24 hrs *(includes all reporting public & private hospitals and may differ from no. reported by HSE in public hospital ICU)*





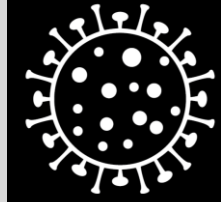
Deaths

Deaths by Date of Death

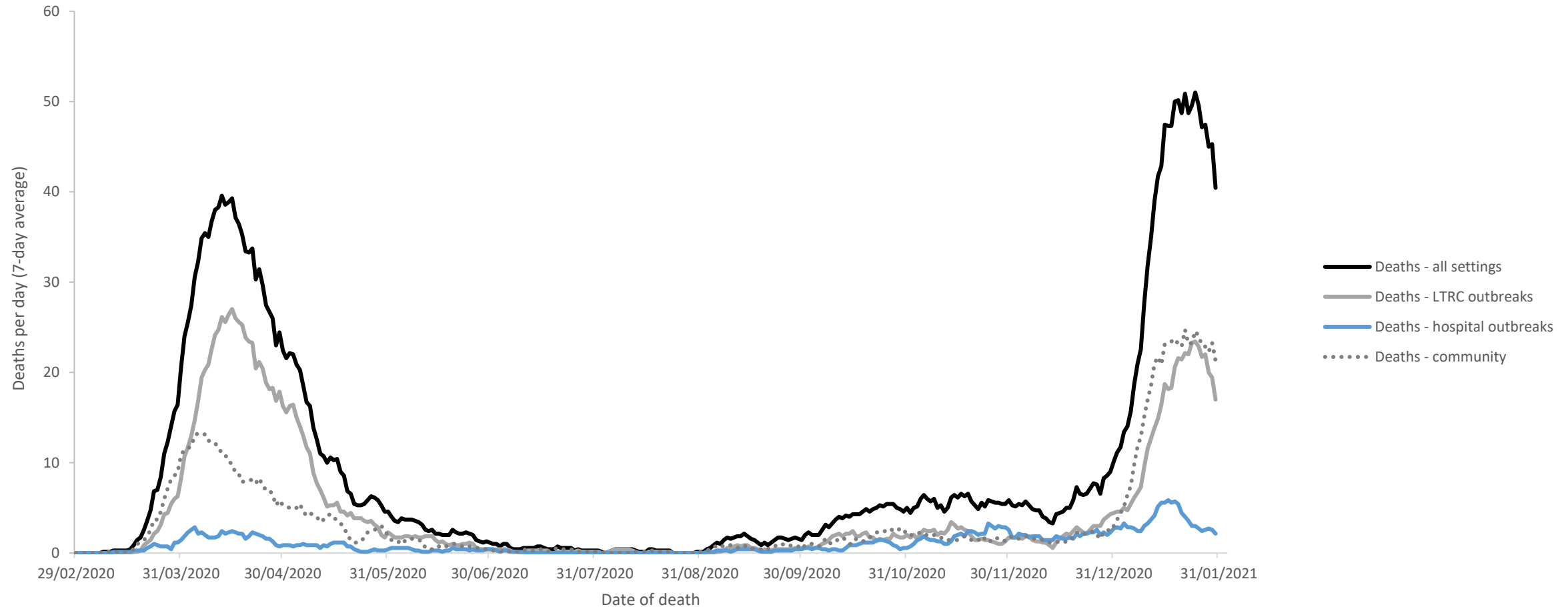


Deaths per day

The number of deaths per day is stabilising in all settings



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Deaths per day, separated into those associated with outbreaks in long-term residential care (LTRC) and in hospitals, and those not associated with such outbreaks (community). Deaths with laboratory confirmed SARS-CoV-2 only. 7-day moving average



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Outbreaks & Clusters

COVID-19 outbreaks by key outbreak locations, week 4 2021 and overall, 2020-2021 Ireland

Note: Due to the recent surge in case numbers, the number of linked cases in week 4 are likely an underestimate

- Since March 1st 2020, 11,727 outbreaks have been notified to CIDR
- In week 4, 2021 196 outbreaks were notified

Key outbreak locations	Week 4	Weeks 10-47	Weeks 48-4
Workplace	29	292	186
Direct Provision Centre	7	37	22
Vulnerable groups*	30	102	85
Prisons	0	9	3
Nursing Home/Community Hospital	24	380	216
Acute hospitals	13	178	148
Schools^	1	79	116
Childcare facility	15	200	91

*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 2nd 2021 – data to midnight January 29th 2021

Weekly Summary

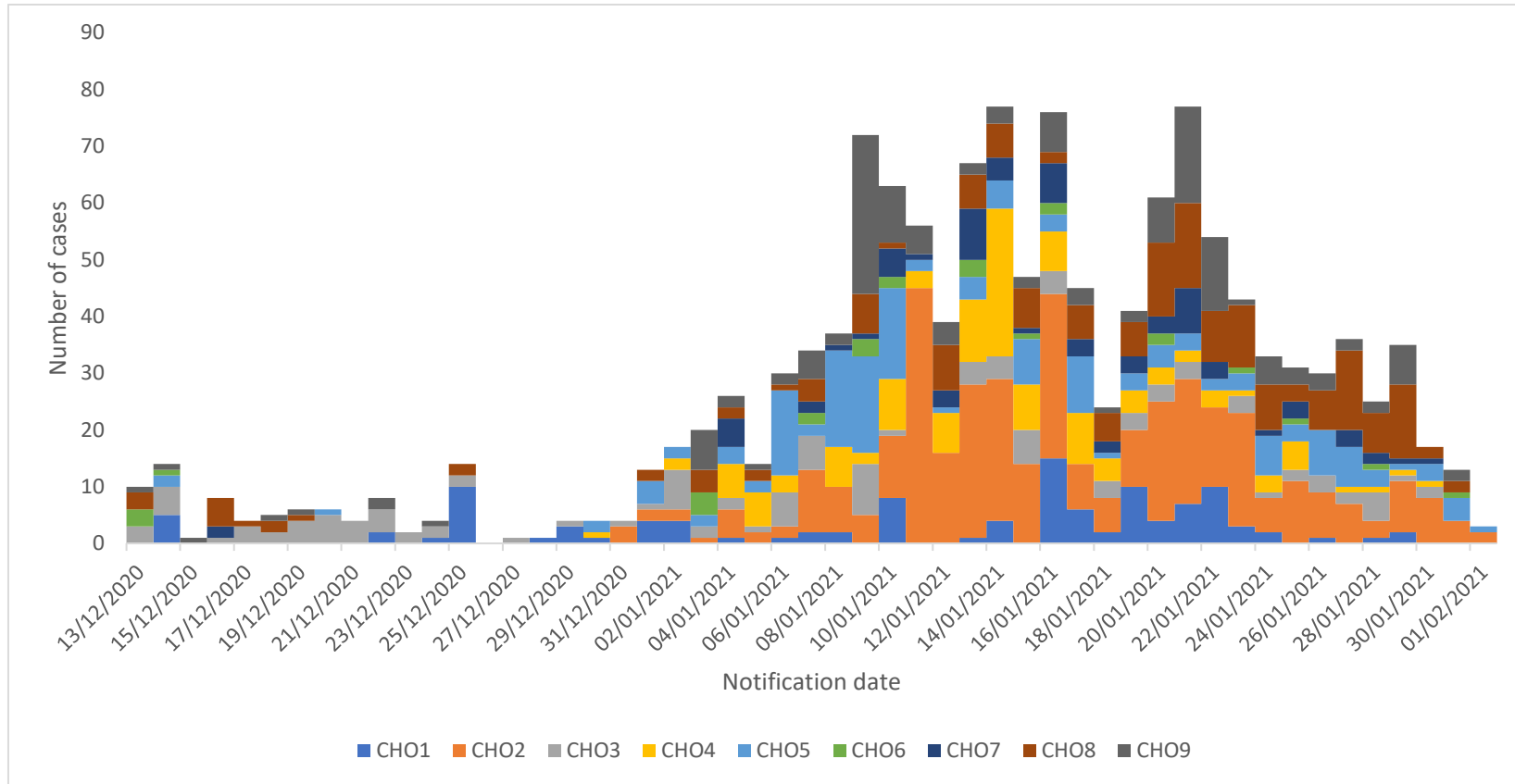


- **Total** number of outbreaks week 4, 2021 n=196 compared with week 3, 2021 n=293
- **Vulnerable groups**
 - Irish Traveller outbreaks
 - Week 4 – 29 new outbreaks, 191 linked cases
 - Week 5 – 5 new outbreaks already – 10 linked cases
 - 5 new outbreaks DPCs since last weeks report - 19 linked cases
 - 15 cases linked to one outbreak
 - 2 new outbreaks in homeless population – 8 linked cases
 - 1 new outbreak in addiction services – 4 linked cases
- **Workplace outbreaks**
 - 7 new food industry outbreaks since last week's report
 - 194 cases linked to 12 previously notified food industry outbreaks
 - Largest - meat factory outbreak -120 linked cases
 - Six new 'other workplace' outbreaks – 59 linked cases
- **Residential institution outbreaks**
 - 183 outbreaks are 'open' with 1046 linked cases (range 0-44)
 - 19 new outbreaks since last week's report with 79 linked cases
- **Home care Teams**
 - 32 open outbreaks – 93 linked cases
 - Since last report – 3 outbreaks with 13 linked cases
- **Nursing Homes & Community Hospitals**
 - 210/596 outbreaks remain open with 5497 linked cases
 - 24 new outbreaks with 117 linked cases since last week's report
 - 4 open outbreaks with new cases linked in the past week have ≥100 cases each
 - Since August 1st, 582 deaths
- **Acute hospitals**
 - 133 open outbreaks involving 48 hospitals, 1659 linked cases (range 1-138)
 - 13 new outbreaks since last week's report with 33 linked cases (0-17)
 - Since August 1st 2020, 244 deaths have occurred in cases linked to acute hospitals outbreaks
- **Schools**
 - No new outbreaks since last week's report.
 - 16 new cases linked to previous outbreaks
- **Childcare facilities**
 - 8 new outbreaks since last week's report with 21 linked cases (range 0-6)
- **Third-level students/University/college**
 - One new outbreak with 9 linked cases. First since week 51

Key points

- The volume and size of nursing home outbreaks continues to be of concern
 - Both new and several ongoing outbreaks
 - Four open NH outbreaks ≥ 100 cases
 - Considerable mortality – 582 deaths since August 1st
- Large number of acute hospital outbreaks continue to occur – currently 133 open outbreaks across 48 acute hospitals
- 32 open food production/processing outbreaks – one with 120 linked cases
- Increase in number outbreaks in vulnerable groups
 - 22 DPC open outbreaks – 183 linked cases
 - 33 Irish Traveller outbreaks between weeks 4 and 5 to date

COVID-19 infections among Irish Travellers – December 13th 2020 –February 1st 2021



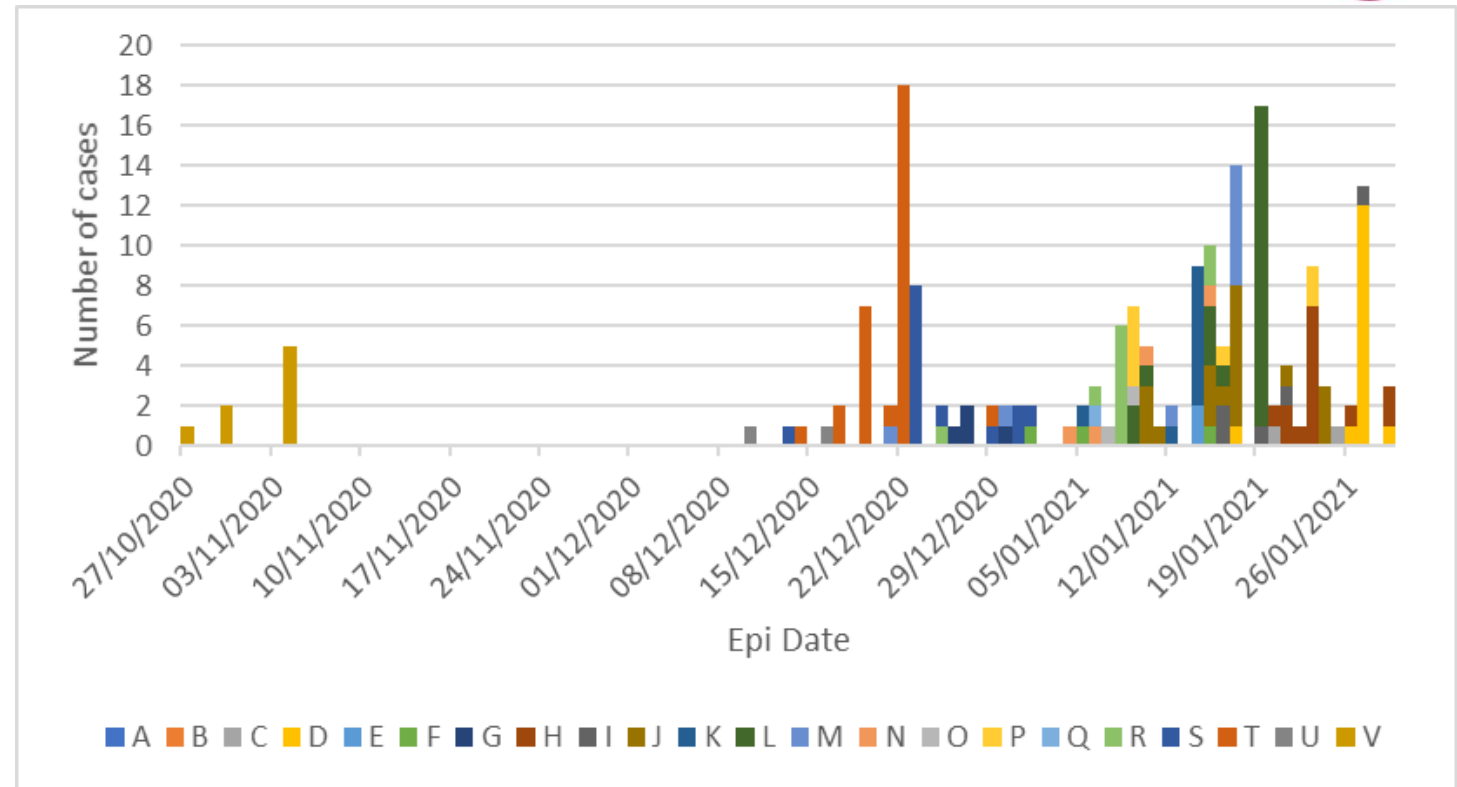
- 1356 confirmed cases
- Includes 329 in Galway (23%) and 237 in Dublin (17%)
- 48% (4645/1356) male
- Median age 25 years
- 4.3% hospitalised, five ICU admissions and two deaths
- Among 68 outbreaks, 9 had >20 linked cases
- **29 new outbreaks in week 4, with 191 cases between them**
- **Four new outbreaks already in week 5, 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 February 1st 2021

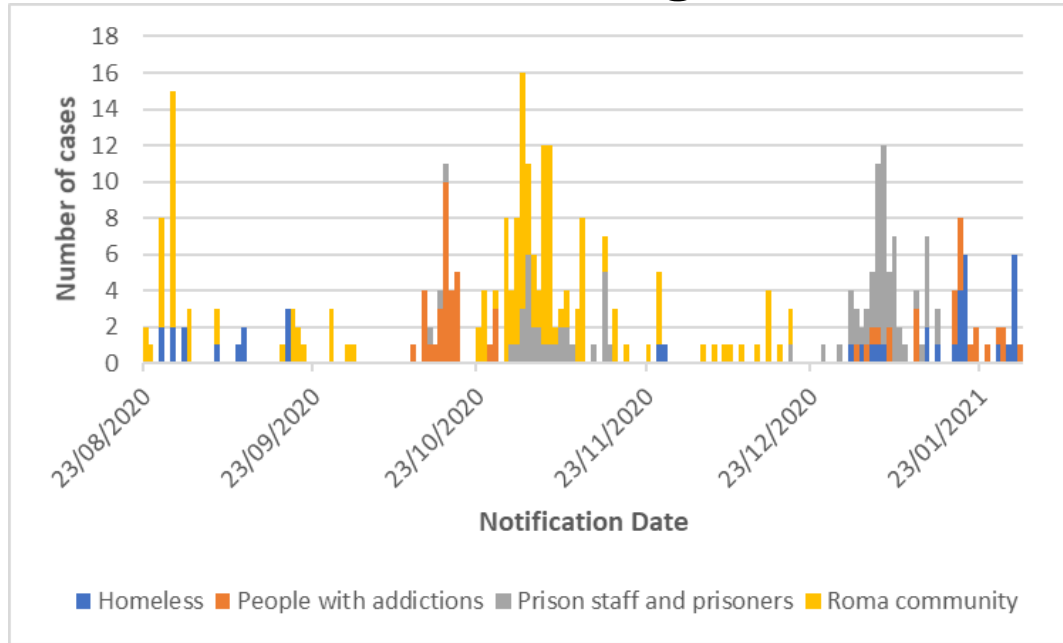
Data source: CIDR February 2nd 2021 – data to midnight 1st February 2021

Direct Provision Centre Outbreaks as of midnight February 1st 2021



- To date, total of 564 confirmed cases linked to 61 notified outbreaks in DPCs
- There were five new outbreaks since last report – 19 linked cases
- Twenty-two DPC outbreaks notified since November 1st remain 'open'
- 183 confirmed cases linked to the 22 'open' outbreaks
- Among the 183 cases, there are two hospitalisations and no ICU admissions or deaths

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



Since August 1st 2020

- 37 outbreaks with 334 associated cases
- 16% (54/337) are <15 years and all are Roma)
- Fifteen outbreaks are 'open' (two in prisons, seven in people with addictions and six in the homeless population)
- Since last update, three new outbreaks occurred, two in homeless populations with 8 linked cases and one in people attending addiction services with 4 linked cases

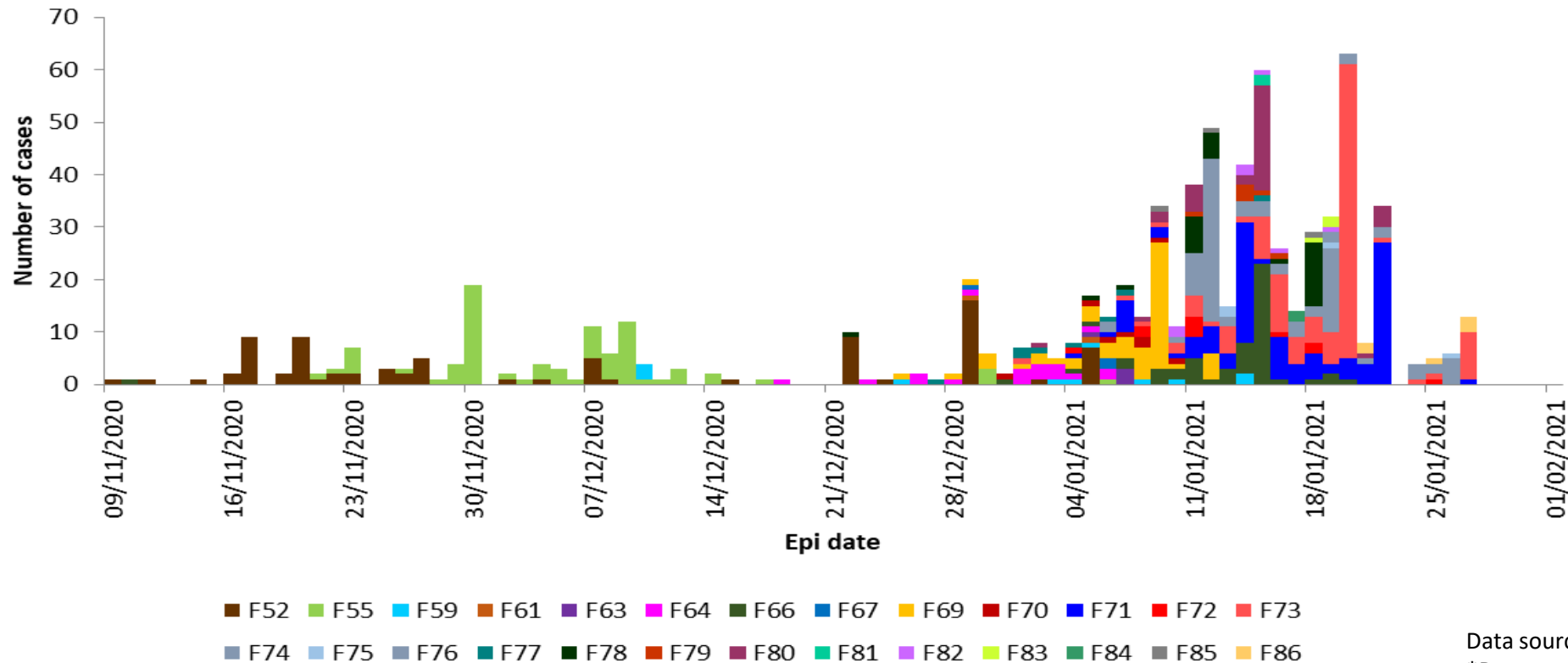
Vulnerable group	Outbreak	Linked confirmed cases			
	Number of outbreaks	Number of cases	Number hospitalised	Number admitted to ICU -	Number who died
Homeless	13	42	3	2	
People with addictions	10	57	3		
Prison staff and prisoners	5	86			
Roma community	9	149	9	3	
Total	37	334	15	5	

Data source: CIDR February 2nd 2021 8:35 am

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



- 746 cases are linked to 32 **open** outbreaks in this sector (range: 0-120 linked confirmed cases)
- 7 new outbreaks were reported this week (9 confirmed cases linked to these outbreaks (range: 0-6 linked confirmed cases; 5 of these outbreaks currently have no linked cases)
- 194 additional cases were linked to 12 previously reported outbreaks
- The largest outbreak, now with 120 linked cases and epi dates range from the 1st to 27th Jan
- Overall, 133 cases linked to outbreaks in this sector have an epi date within the last 14 days; and 13 within the last 7 days

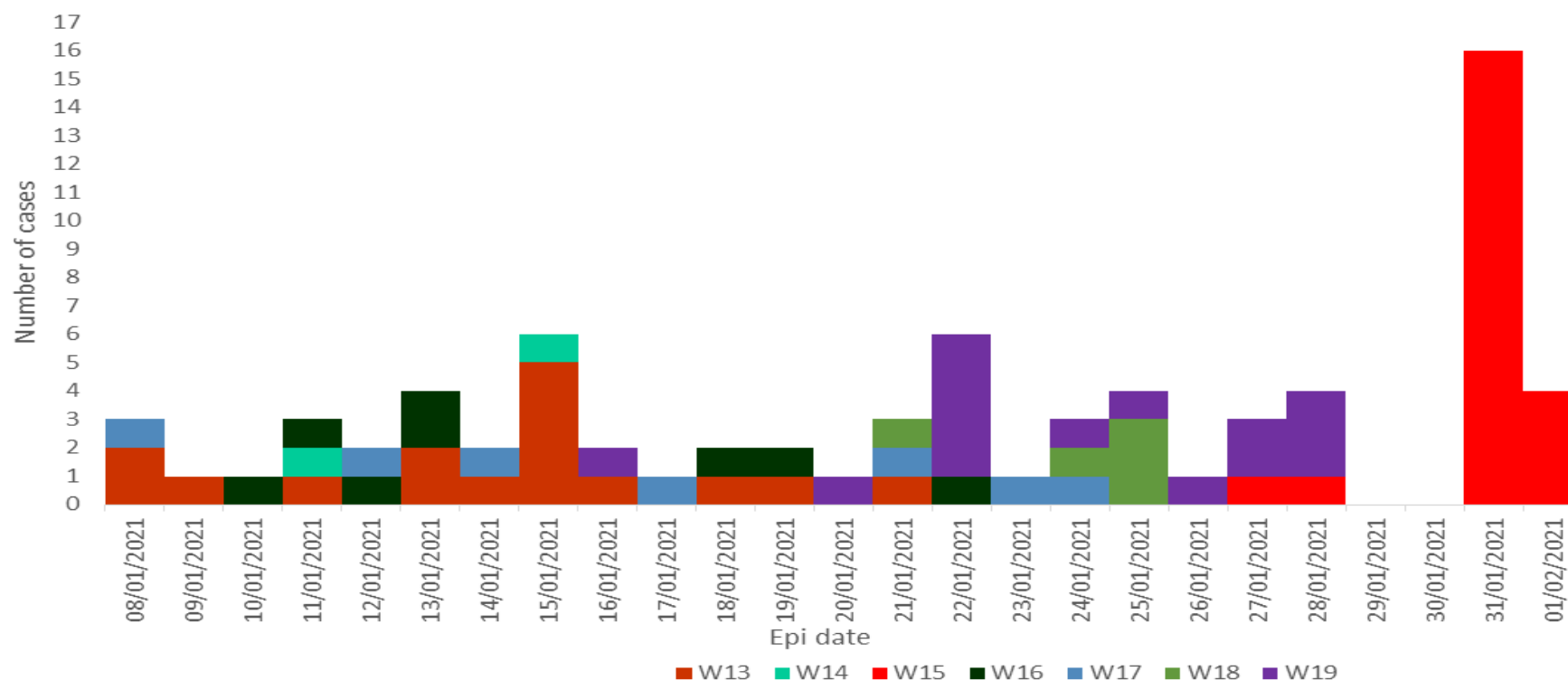


Data source: CIDR February 2nd 2021
 *Data to midnight 01/02/2021

Workplace outbreaks – Other#: Nov 1st 2020 – Feb 1st 2021



- 75 cases are associated with 7 open outbreaks in businesses categorized as “Other#” workplaces (range: 2-22 linked confirmed cases)
- Six new outbreaks, with 59 linked confirmed cases, were notified since last week (range: 2-22 cases)
- Three additional cases were linked to a previously reported outbreak in this category
- 46 cases linked to outbreaks in this category have epi dates within the last 14 days



#Other workplace outbreaks are outbreaks that occur in other high risk settings, apart from in the food production or construction sectors, where working conditions may provide potential for rapid transmission of SARS-CoV-2. These settings include, but are not limited to, waste management businesses , large-scale manufacturing plants and logistics companies.

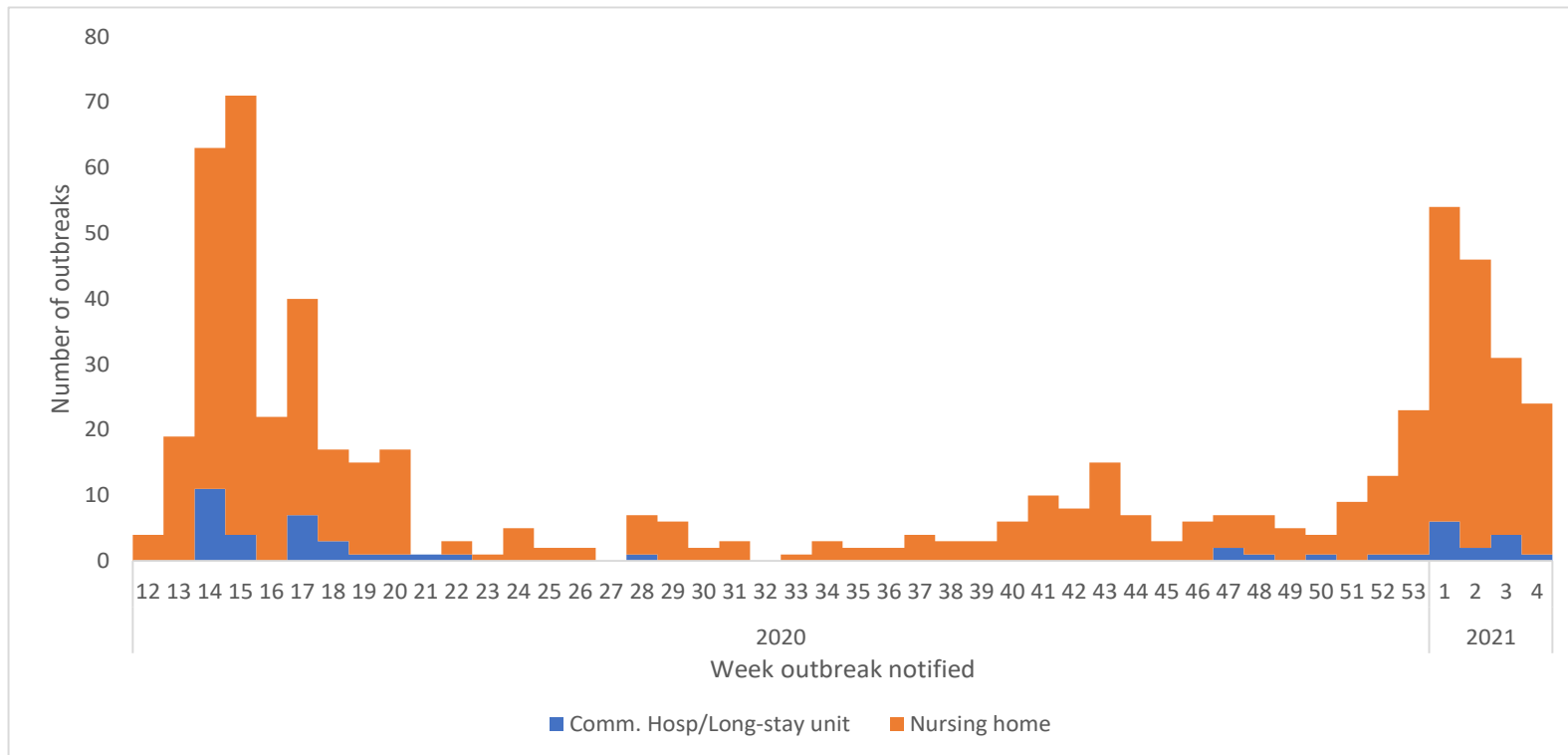
Data source: CIDR February 2nd 2021
*Data to midnight 01/02/2021

Nursing Homes and Community Hospital/Long Stay Units: to midnight January 30th 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	994	102	2	19	94
Nursing home	547	12456	792	20	256	1373
Total	596	13450	894	22	275	1467

March 2020 –January 30th 2021

- 596 outbreaks in Nursing Homes and Community Hospital/Long Stay Units
- 23 new Nursing Home and one new Community Hospital/Long-stay Unit outbreaks notified in week 4 2021



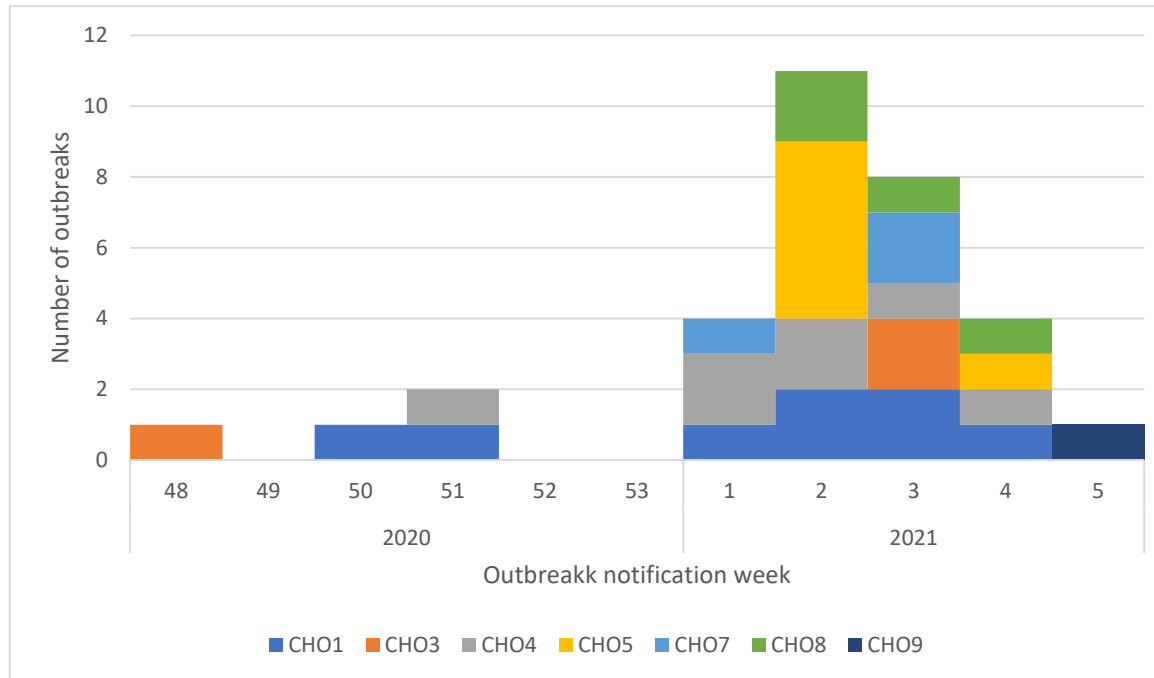
Data source: CIDR January 25th 2021 – data to midnight 30th January 2021

Focus on 210 'OPEN' Nursing Homes and Community Hospital/Long Stay Units to midnight January 30th 2021

- 5,497 associated cases (2,103 HCW/staff cases, 2,627 client cases, 767 cases HCW status unknown, of which 230 were <65 years)
- 15 outbreaks include only HCW/staff cases, 156 include both HCW/staff cases and client cases, 6 outbreaks includes client cases only, for 14 outbreaks the mix of cases is unclear, and for 19* outbreaks, there were no linked cases
- 24 new outbreaks since last week's report – 117 linked cases
- 107 previously notified 'open' outbreaks – 1,287 additional cases since last week's report
- 79 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 183 linked cases

Summary of outbreaks associated with home help/home care services week starting 22/11/2020 to midnight 01/02/2021 (n=36)



Overview

- Since 22/11/2020 there have been 36 outbreaks associated with home help services in 8 CHOs
- 32 outbreaks remain 'open'
- There are 93 confirmed cases linked to these 'open' outbreaks, median 3 (range 0-8)
 - 35 HCW cases
 - 5 deaths among cases
 - 7 hospitalised with no ICU admissions
- Since the last report there have been a further 3 outbreaks with 13 linked cases

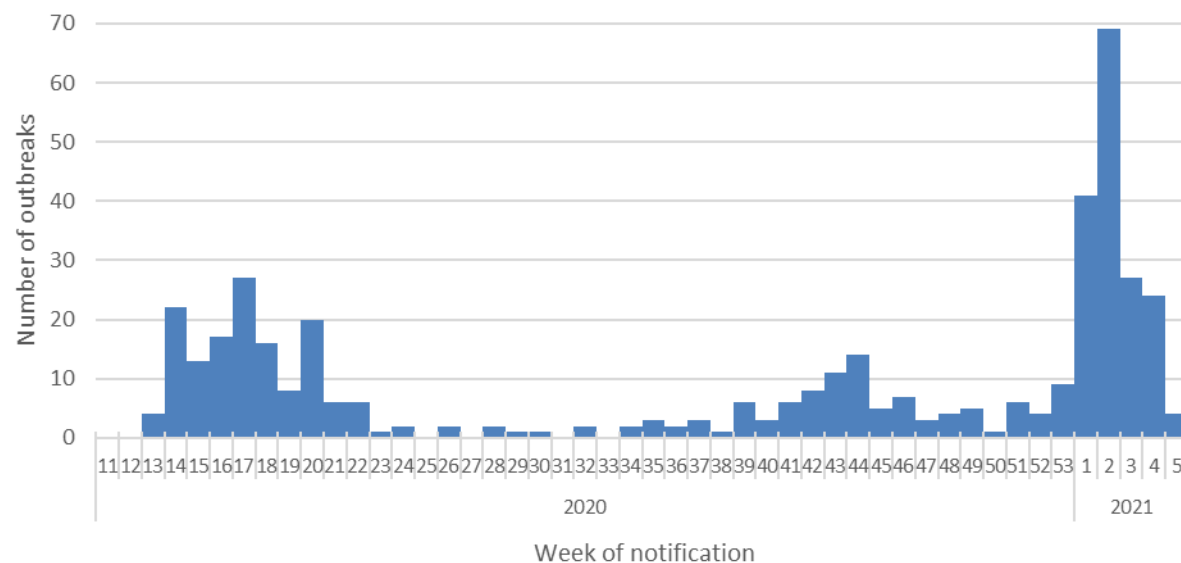
CHO Areas	number of outbreaks	number of linked confirmed cases	number of confirmed hospitalised	number of confirmed died	number HCWs - Confirmed	number lab confirmed cases (aggregate data)
CHO1	8	22	2		9	19
CHO3	3	2				1
CHO4	7	29	2	2	11	30
CHO5	6	12	1	2	4	13
CHO7	3	10	1		5	13
CHO8	4	13	1	1	5	60
CHO9	1	5			1	6
Total	32	93	7	5	35	142

Data source: CIDR February 2nd 2021 – data to midnight 1st February 2021

Residential Institution outbreaks 1st March 2020 to midnight 1st 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	2381	183	1046	42	2	20
Centre for disabilities	272	1369	115	650	25	1	11
Centre for older people	27	403	12	118	1		1
Children's / TUSLA residential centre	27	62	12	33			
Mental health facility	44	301	18	106	13	1	2
Other	22	114	5	20	1		2
Not Specified	26	132	21	119	2		4

Number of COVID-19 Outbreaks in Residential Institutions (n=418)

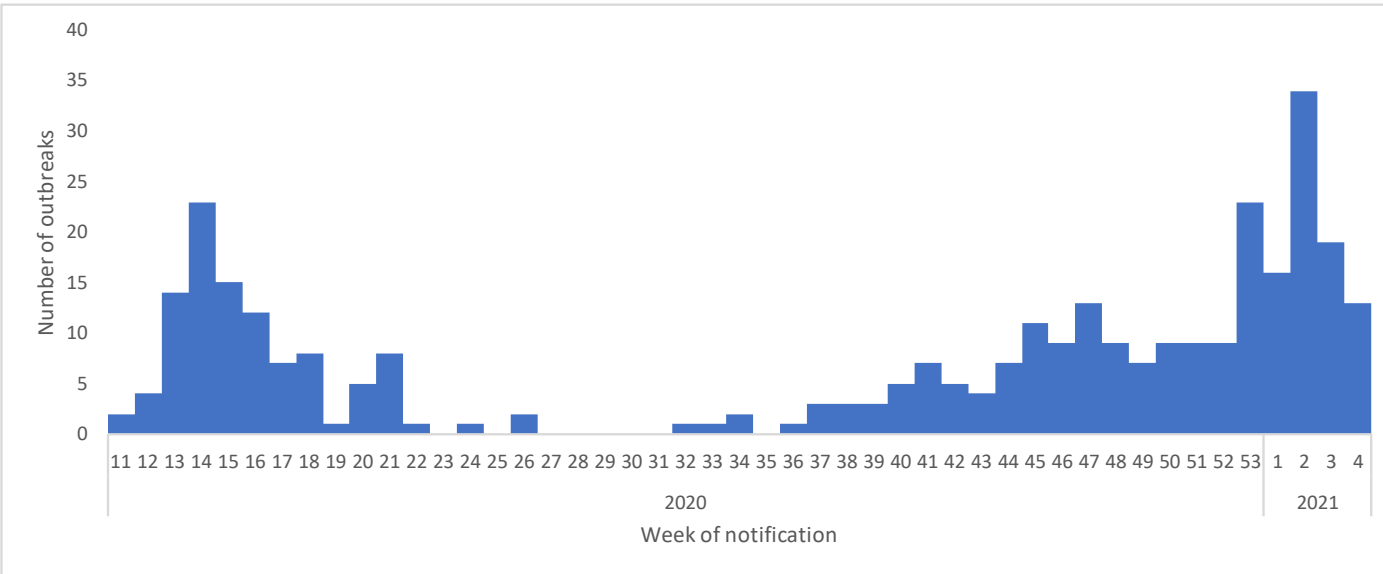


Overview

- 418 outbreaks in residential institutions with 2,381 linked confirmed cases
- 183 outbreaks remain open 1046 linked confirmed cases
 - Range in number of cases 0 to 44; median 2
 - 115 of 'open' outbreaks in centres for disabilities
- 19 new outbreaks since last week's report with 79 linked cases

Data source: CIDR February 2nd 2021 – data to midnight 1st February 2021

Acute Hospital outbreaks to midnight 30th January 2021 (n=326)



Overview

- **326** outbreaks in acute hospitals
- **133** 'open' acute hospital outbreaks (all occurring since 1st September 2020)
- 1659 confirmed cases linked to 129 of the open outbreaks (range 1-138)
- The 133 open outbreaks correspond to outbreaks in **48** Acute Hospitals

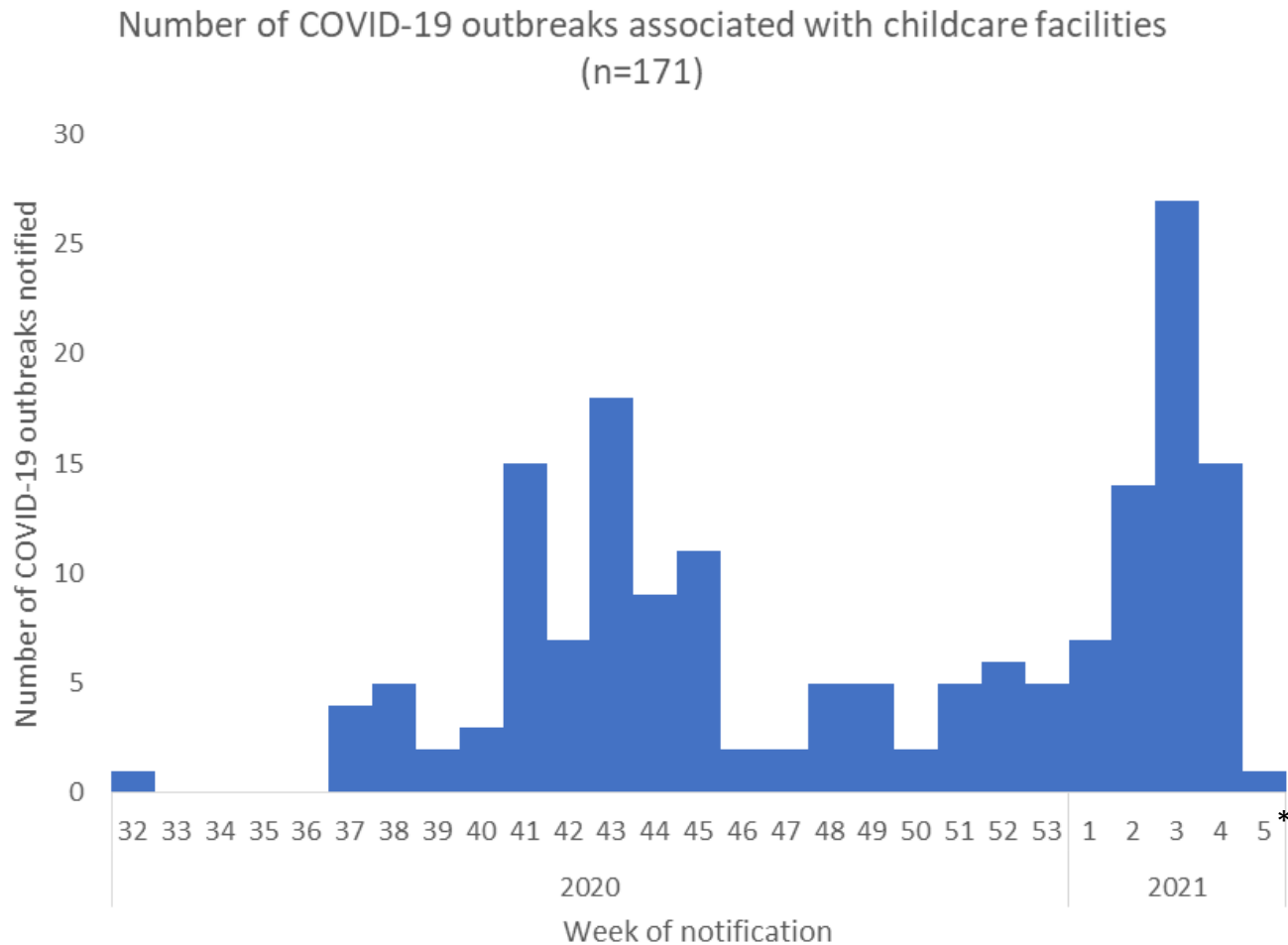
Update

- 13 new outbreaks in week 4 2021
- 33 confirmed cases linked to these 13 outbreaks (range 0-17)
- A total of 243 additional cases were linked to 31 previously reported open hospital outbreaks
- Two outbreaks was closed since last week

Outbreak status	Number of outbreaks	Confirmed linked cases	Number admitted to ICU	Number Died	Number HCWs
All	326	3813	87	346	1835
Open	133	1659	35	146	683

Data source: CIDR January 26th 2021– data to midnight 30/01/2021

Outbreaks associated with childcare facilities to midnight 1st February 2021 (n=171)



Overview

- 171 outbreaks associated with children and staff in childcare facilities notified
- 818 linked events in total
- 155 outbreaks have ≥ 2 linked confirmed cases (range 2-39)
- 90 outbreaks have been closed; 81 remain open

Update

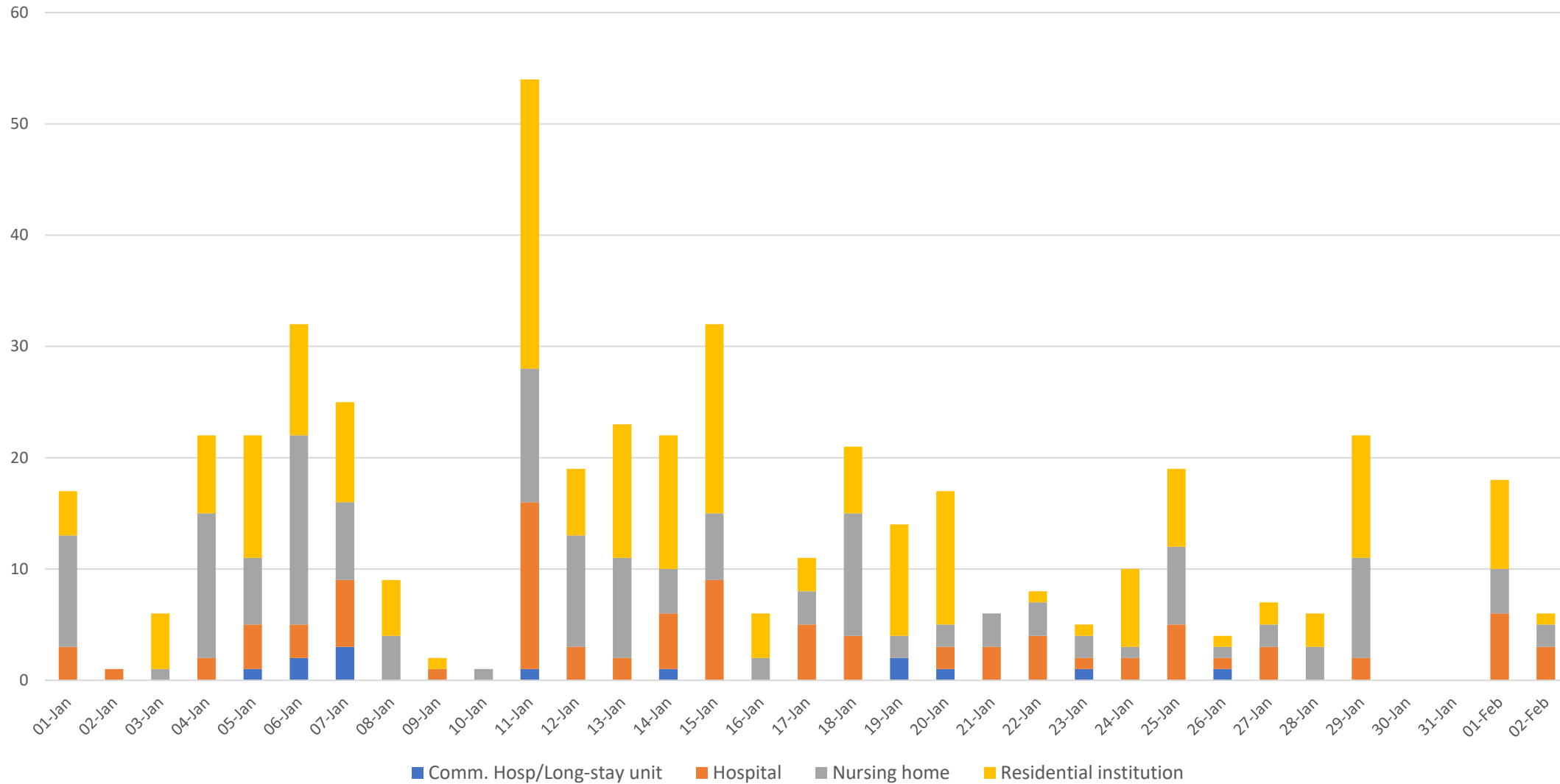
- 8 new outbreaks reported since last week
- 21 confirmed cases linked to these outbreaks (range 0-6)
- Two of the newly reported outbreaks currently have no linked cases; aggregate data indicate a total of 16 additional cases should be linked to these two outbreaks
- 5 outbreaks were closed since last week

Data source: CIDR February 2nd 2021

*Data to midnight 01/02/2021

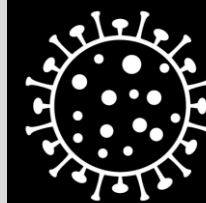
Acute Hospitals and Residential Care Facilities

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

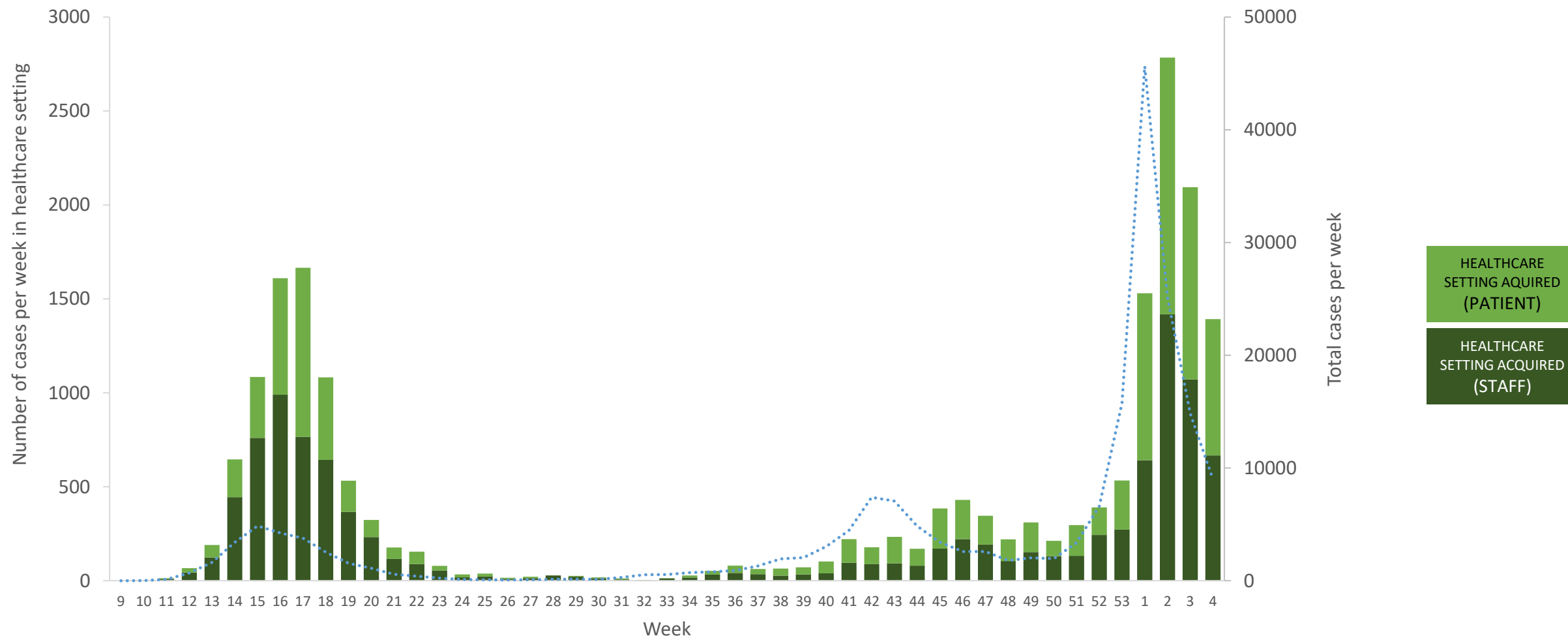


Infections in the healthcare setting

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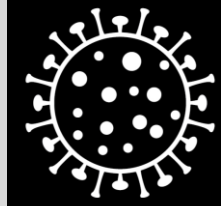
Number of cases per week recorded in CIDR as 'healthcare setting acquired' (bars) compared to the total number of cases per week (dotted line, referred to the secondary y-axis). Cases dated by event date. Tests outsourced to German laboratory in April backdated, using the specimen collection date, to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



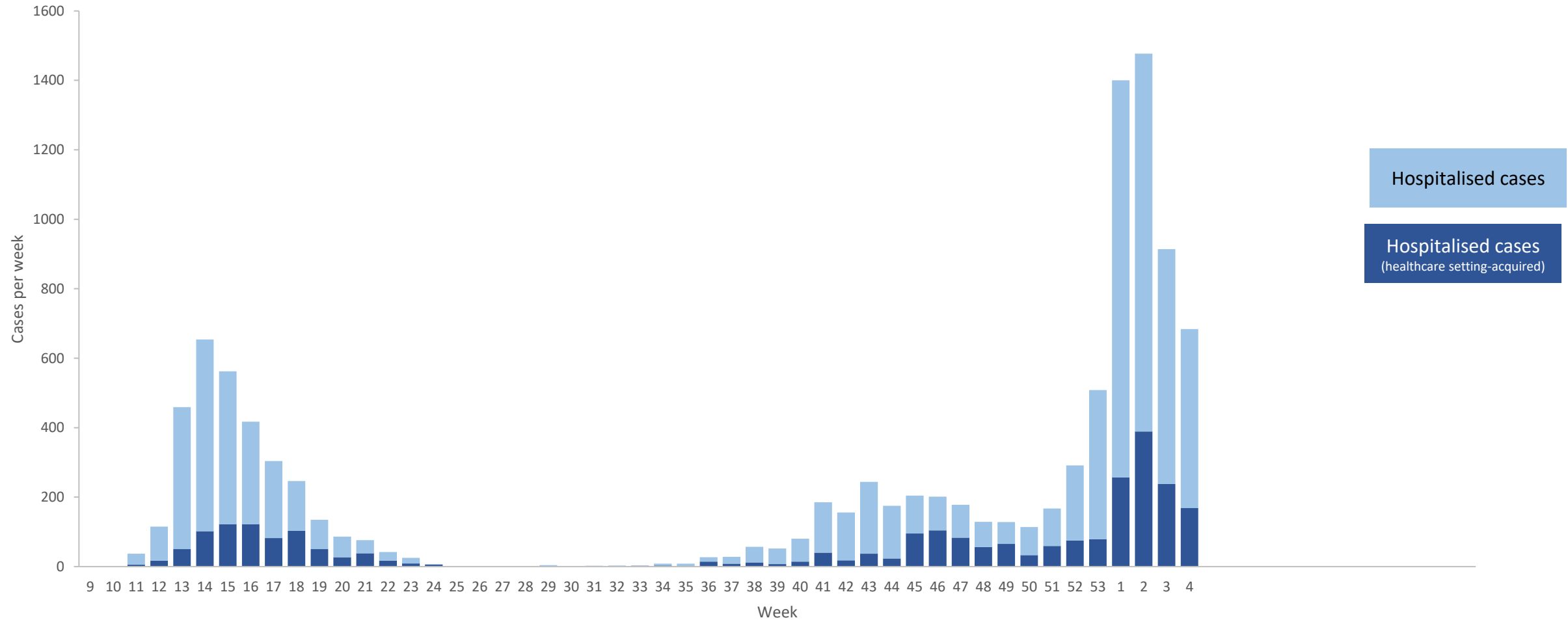
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Hospital-acquired infection

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.



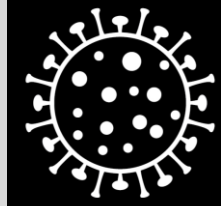
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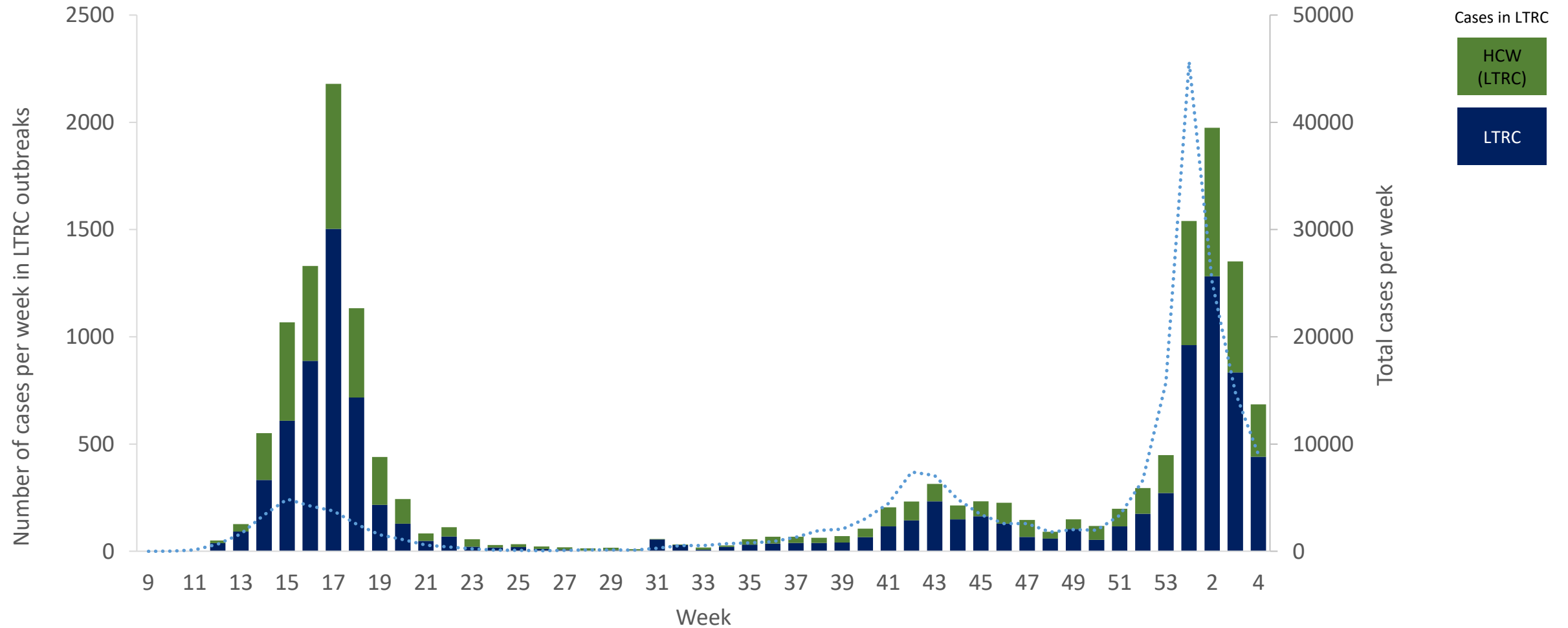
The weekly number of cases that are hospitalised (light blue), and the weekly number of hospitalised cases where the infection is notified as having been acquired by the patient in a healthcare setting (dark blue). Cases dated by notification (event) date. Tests outsourced to German laboratory in April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



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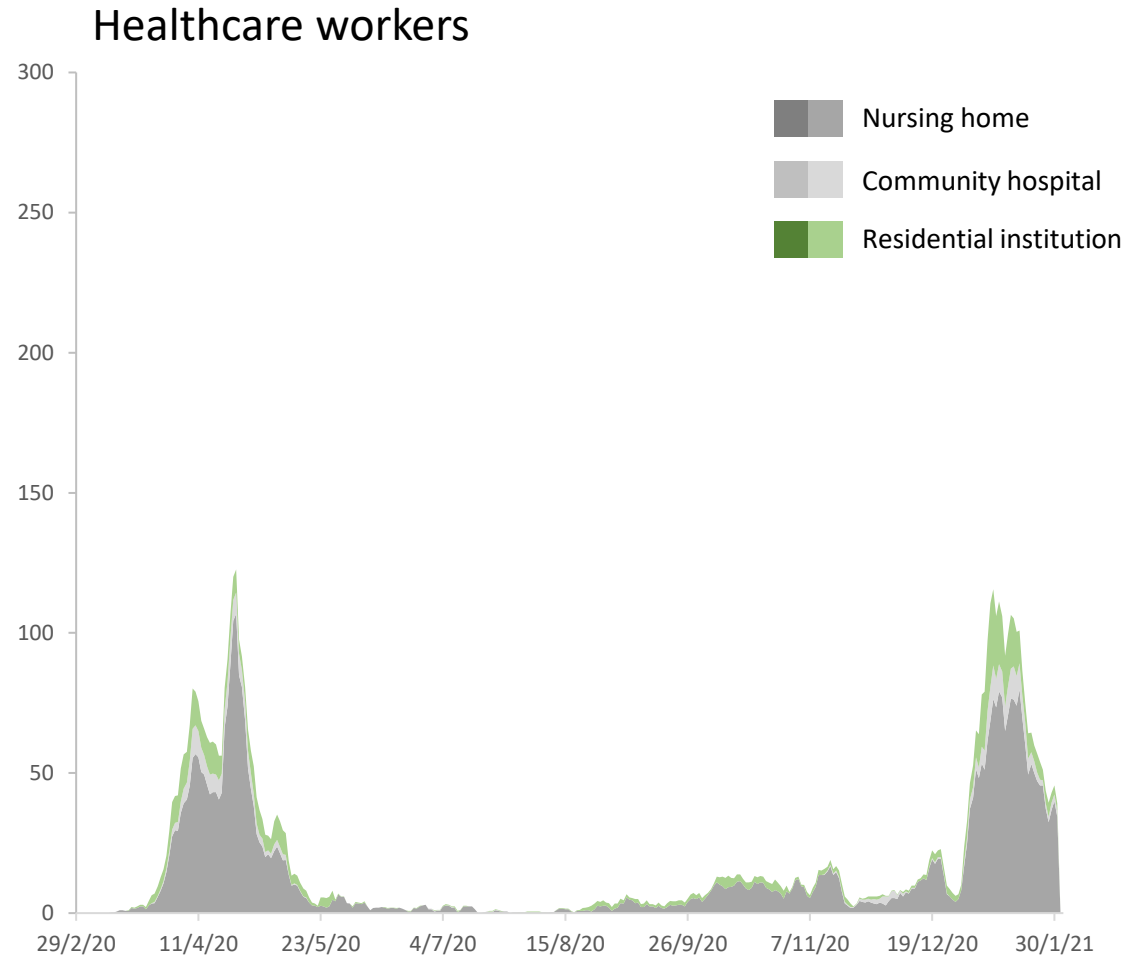
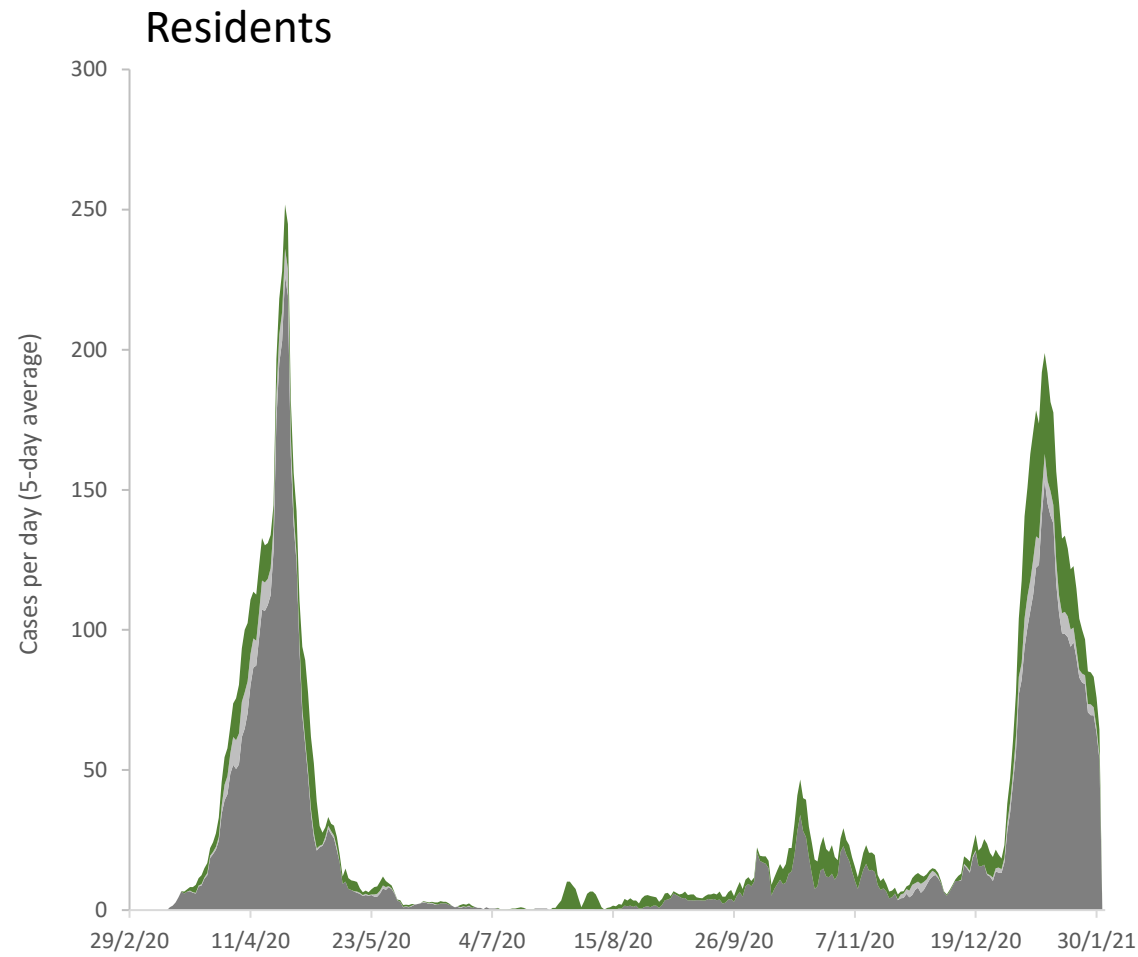
Number of cases per week linked to outbreaks in long-term residential care (bars) compared to the total number of cases per week (dotted line, referred to the secondary y-axis). LTRC: cases amongst residents in outbreaks in long-term residential settings.
HCW (LTRC): Cases in healthcare workers associated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



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Cases in long-term residential settings

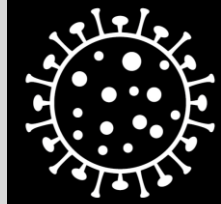
Residential institutions have accounted for a larger proportion of cases in long-term residential settings in recent months



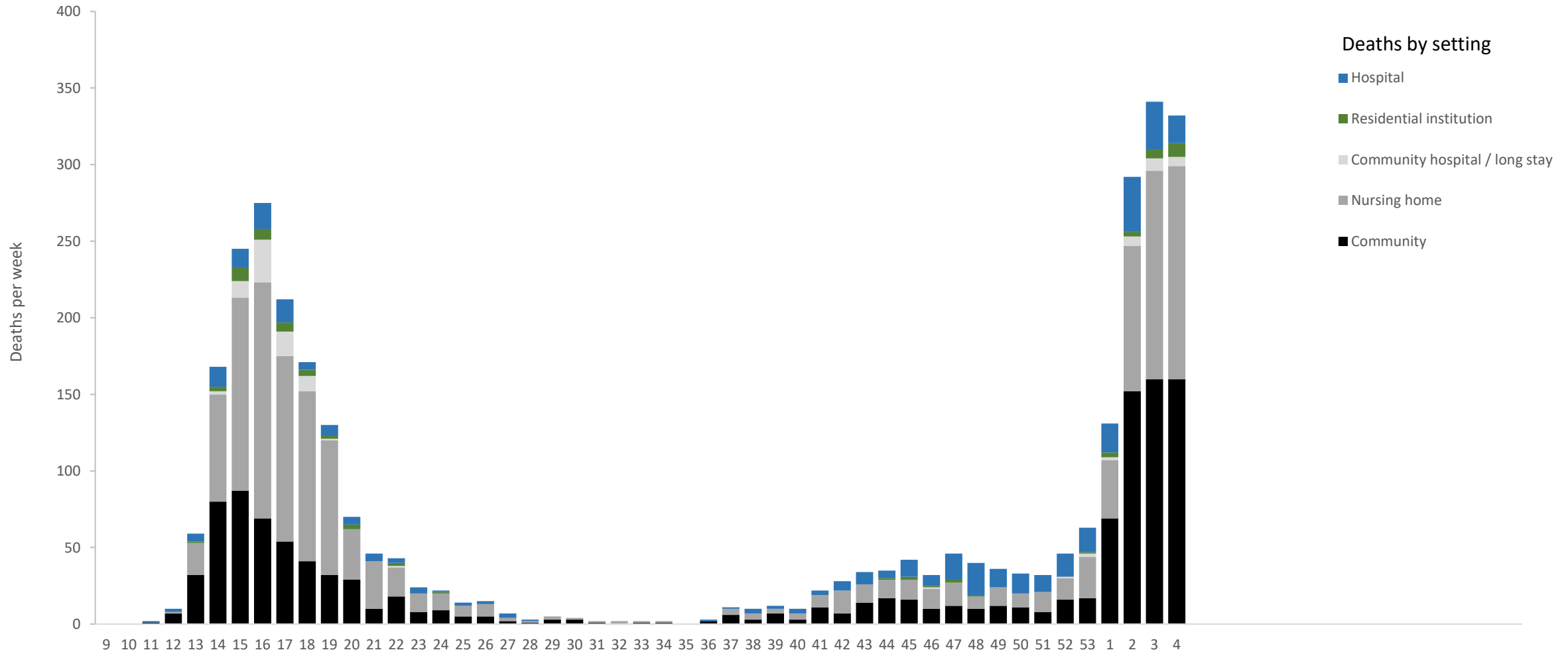
Daily average number of cases linked to outbreaks in long-term residential settings separated out into those not identified as healthcare workers (presumed residents, left panel) and those identified as healthcare workers (right panel). 5-day moving average, cases dated by notification (event) date

Deaths in healthcare outbreaks settings

There were over 100 deaths per week in recent weeks in long-term residential facilities, although deaths in LTRC constituted a smaller proportion of all deaths. Deaths in hospital outbreaks were significant in the period after the October surge.



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Deaths per week by week of death and the setting in which the death occurred. Deaths with laboratory confirmed SARS-CoV-2 only



Test & Trace Update

Testing/sampling and contact tracing NPHET update



Sampling

Over the past seven days, 27th Jan- 2nd Feb, there has been approximately 125,777 swabs taken for COVID-19 testing.

Of these:

- 47,997 (38%) of these were taken in the community
- 45,603 (36%) swabs were taken in acute and private acute settings.
- 32,177 (26%) swabs taken were taken as part of the Serial Testing programmes of staff in residential care facilities and staff in food production facilities. Serial testing in mental health and disability RCF commenced on 25th Jan.

Contact Tracing

As of 2nd February, of those tested with close contacts, the average number of close contacts per case was 2.9.

Turnaround Times (27th Jan-2nd 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 **1.4 days**.
- The median turnaround time for time, from referral to communication of a **detected result** by SMS, in community settings was **1.5 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, 24 hours in Serial Testing, 28 hours in Community

Referral to appointment

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

95% 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 6.9 hours and 4.6 hours, respectively.

Re-commencement of close contact testing



From Friday 29th January, close contacts have been receiving a call to inform them of their close contact status, as well as an SMS which had been continuously sent. In addition, they are referred for a COVID-19 test on day 5 (Test 1), which is 5 days after their last contact with the index case.

Close contacts referred for their Day 5 test:

- On Mon 1st Feb, c. 1,000 close contacts,
- On Tues 2nd Feb, c. 1,200 close contacts
- By 1pm, on Wed 3rd Feb, 1,500 close contacts

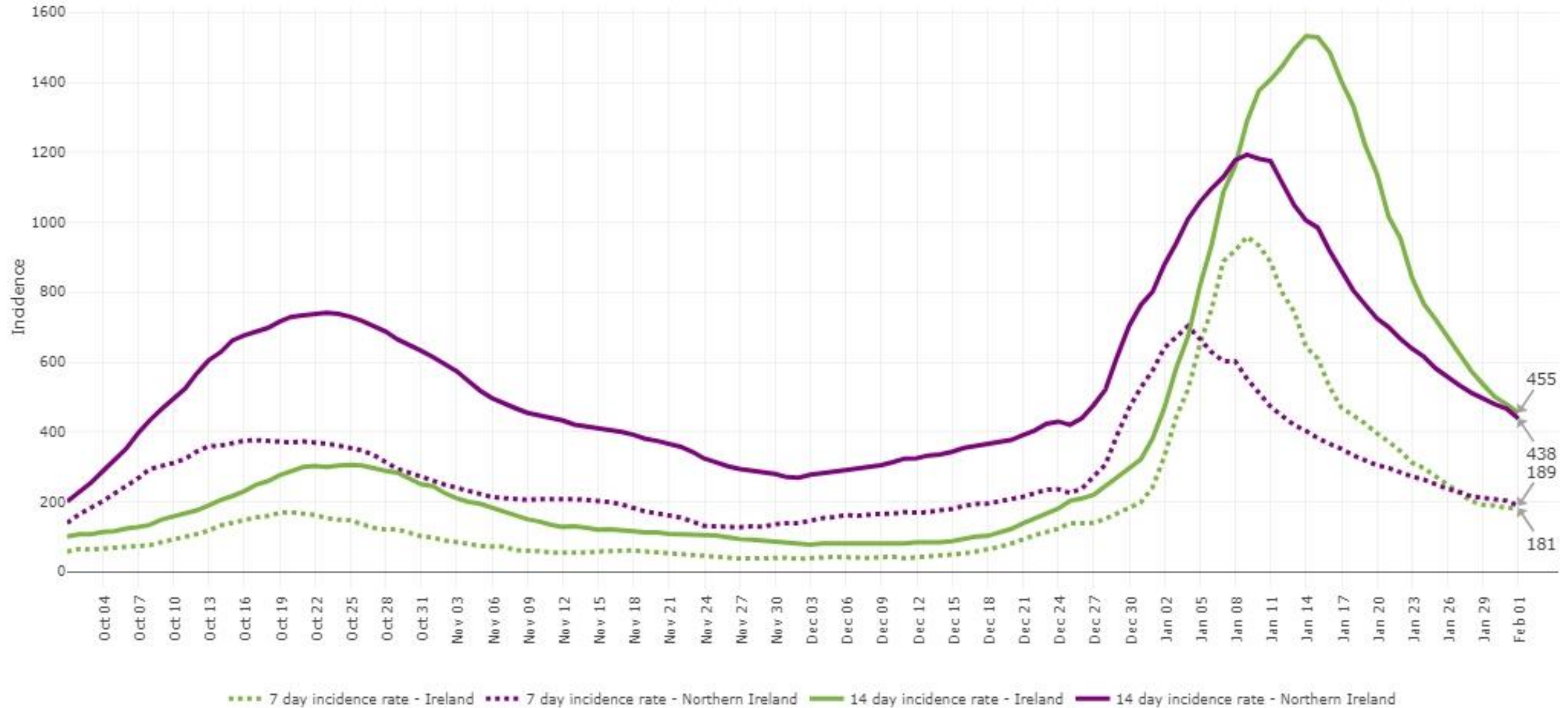
CMP close contact update (week ending 31st Jan)



- The number of close contacts captured during the week ending January 31st was 15,426, a decrease of 35% from the previous week
- In total, 14,225 (92%) of the contacts created between the 25th and 31st of January have been informed of their close contact status at the time of report preparation.
- The number of complex contact episodes decreased by 34% to 3,260.

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.

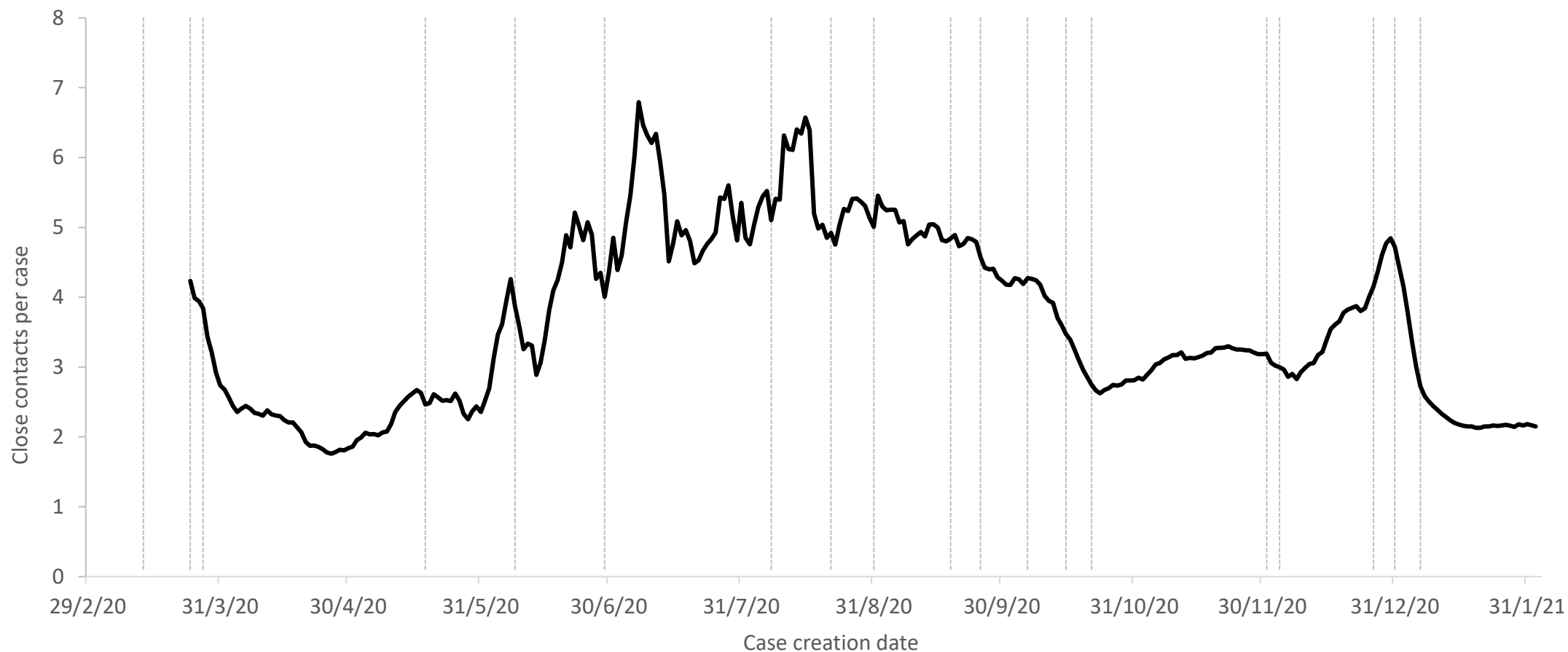
Source: HPSC CIDR Extract 020221 and health-ni.gov.uk daily data 02/02/21.



Growth in Cases & R number

Close contacts of adult confirmed cases

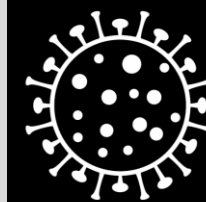
The mean number of close contacts per confirmed case. The number of contacts was very low (2 or less) during April, but increased to 5-6 per case during the summer. The progressive escalation of public health measures during October was associated with a progressive reduction in close contacts, to below 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 (2.2 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, estimated at 0.5 – 0.8



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Method	Estimate	95% confidence interval
SEIR model-inferred	0.36	0.15 – 0.61
Bayesian model	0.57	0.23 – 1.02
Time-dependent R	0.59	0.52 – 0.66
GAM estimate 26 Jan 2021	0.74	0.61 – 0.86
GAM estimate 2 Feb 2021	0.55	0.41 – 0.68

Estimates generated 3 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 3 February 2021



- Incidence is falling but remains high with some concern incidence may be plateauing
- Cases (5-day average) 1121 cases per day; 14-day incidence 424 per 100,000
 - Persistence high incidence in those aged 85 and older
- Sustained suppression of transmission
 - Rate of decline continues at -6 to -9%, halving time 8-12 days
 - R estimated at 0.5 – 0.8
- Numbers in hospital decreasing, numbers in ICU starting to decrease
 - New admissions decreasing
 - Healthcare-acquired infections and cases in LTRC decreasing
- High mortality but may be stabilising
- We are maintaining an extraordinary effort but still we have a long way to go: we need to prevent a plateau and maintain full suppression for several weeks, driving case numbers down to protect each other from serious illness, 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 (2nd February)

EU/EEA and the UK	14 day incidence	Previous 14 day incidence	% change in 14 day incidence
Finland	91.4	63.2	44%
Portugal	1617.2	1278.6	26%
Spain	1029.0	830.3	24%
Greece	88.8	76.8	16%
Belgium	276.3	246.0	12%
France	439.5	396.6	11%
Luxembourg	311.2	291.7	7%
Bulgaria	109.7	108.5	1%
Estonia	530.5	602.4	-12%
Malta	504.2	578.4	-13%
Latvia	567.7	677.5	-16%
Italy	281.2	362.2	-22%
Slovenia	834.5	1095.1	-24%
Austria	225.8	296.5	-24%
Slovakia	472.6	644.8	-27%
Netherlands	376.0	517.6	-27%
Romania	181.1	257.9	-30%
Hungary	165.8	243.8	-32%
Czechia	887.2	1306.1	-32%
Poland	201.9	299.3	-33%
Germany	201.0	306.8	-34%
Croatia	176.8	274.2	-36%
Sweden	382.6	601.5	-36%
Lithuania	443.2	740.6	-40%
United Kingdom	570.0	1022.4	-44%
Denmark	150.9	308.5	-51%
Cyprus	208.9	466.5	-55%
Ireland	437.1	1286.3	-66%

- 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>

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Bulgaria	109.7	108.5	1%
Finland	91.4	63.2	44%
Greece	88.8	76.8	16%

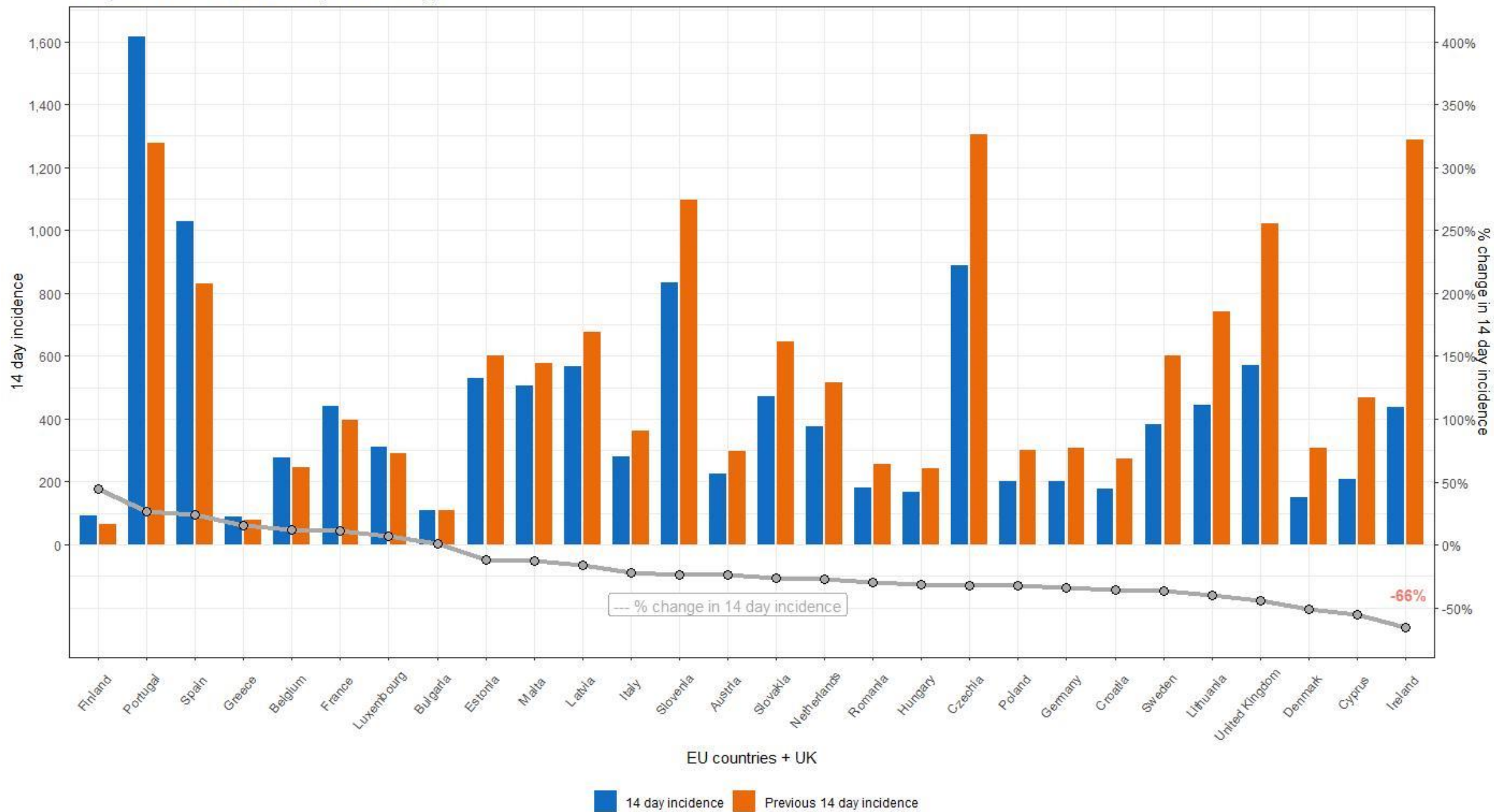
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EU/UK ranked by 7 day percentage change (2nd February)

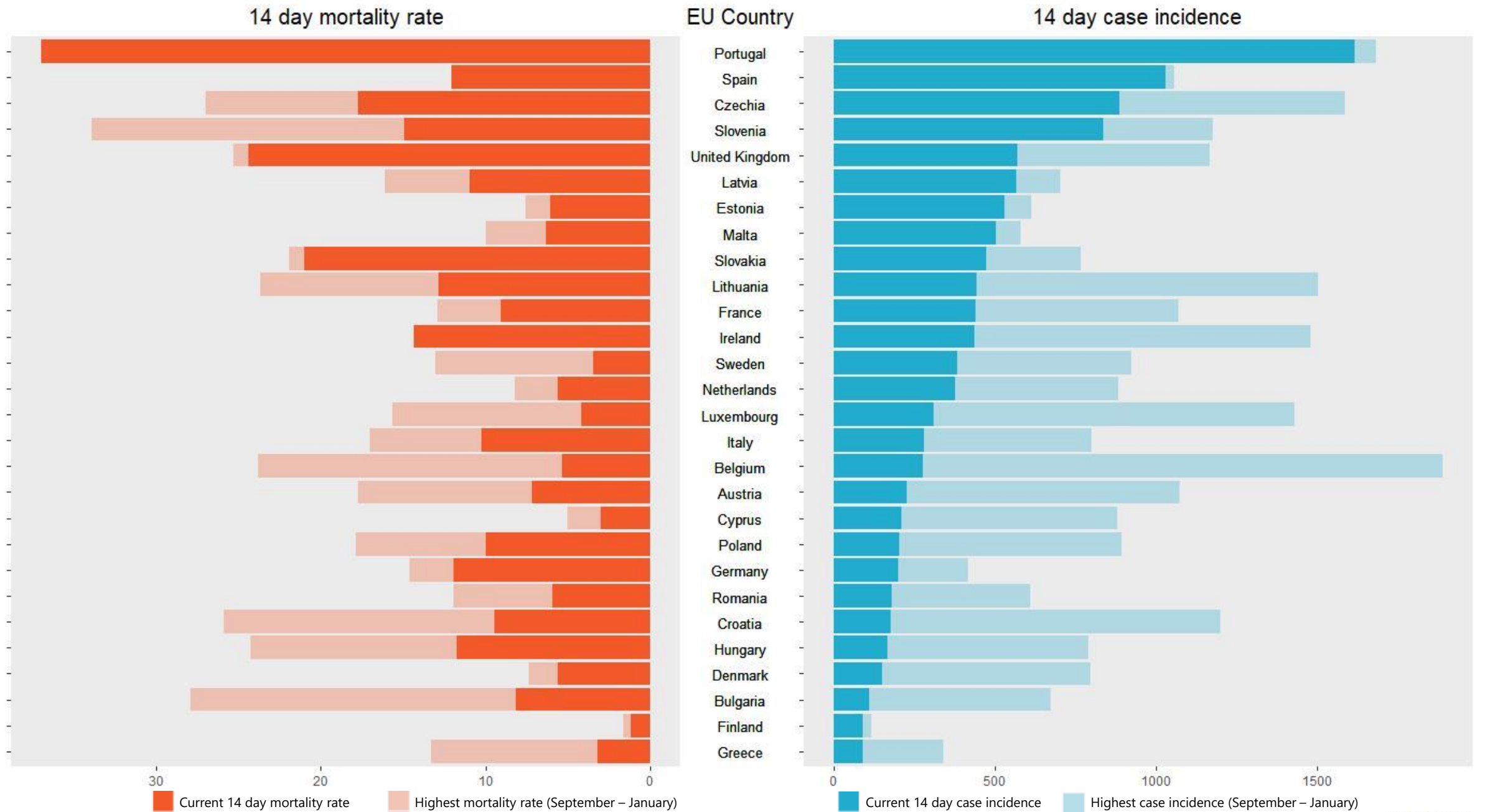
EU/EEA and the UK	7 day incidence	Previous 7 day incidence	% change in 7 day incidence
Greece	52.7	36.1	46%
Luxembourg	171.1	140.1	22%
Bulgaria	59.5	50.2	18%
Finland	48.1	43.3	11%
Hungary	87.1	78.7	11%
Malta	264.8	239.4	11%
Slovakia	246.9	225.7	9%
Belgium	143.5	132.8	8%
Estonia	275.0	255.5	8%
Latvia	291.8	275.9	6%
France	222.4	217.1	2%
Czechia	444.2	443.0	0%
Slovenia	417.2	417.3	0%
Italy	140.0	141.2	-1%
Romania	89.9	91.2	-1%
Poland	99.1	102.8	-4%
Cyprus	99.6	109.4	-9%
Austria	106.9	119.0	-10%
Portugal	764.8	852.4	-10%
Croatia	82.9	93.9	-12%
Spain	474.9	554.1	-14%
Lithuania	202.4	240.8	-16%
Germany	90.7	110.3	-18%
Netherlands	167.9	208.1	-19%
United Kingdom	240.8	329.2	-27%
Sweden	160.1	222.5	-28%
Ireland	173.6	263.5	-34%
Denmark	58.9	92.1	-36%

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European 14 incidence rates (02 February)



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Updated 02 February

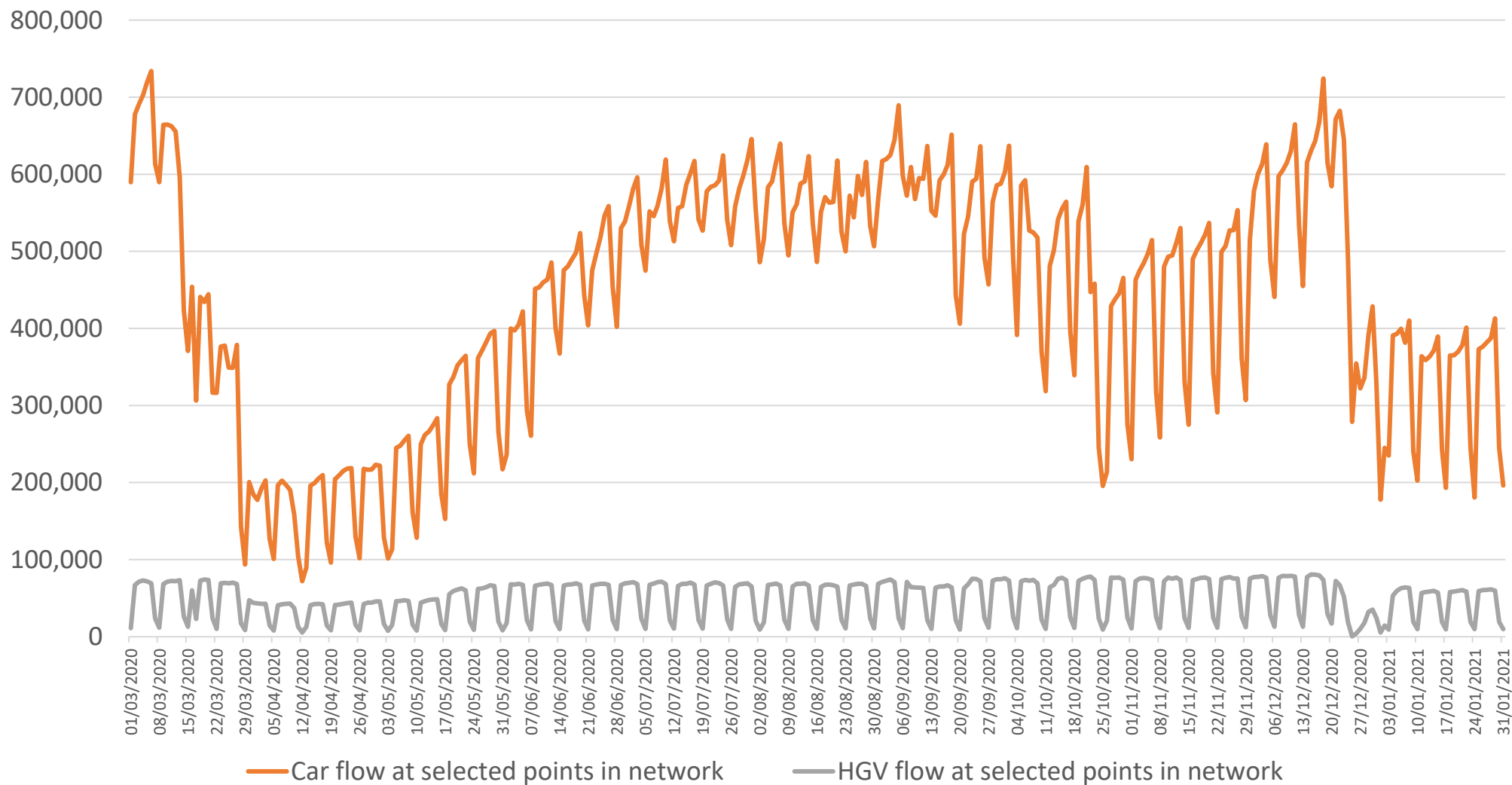
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Compliance Data

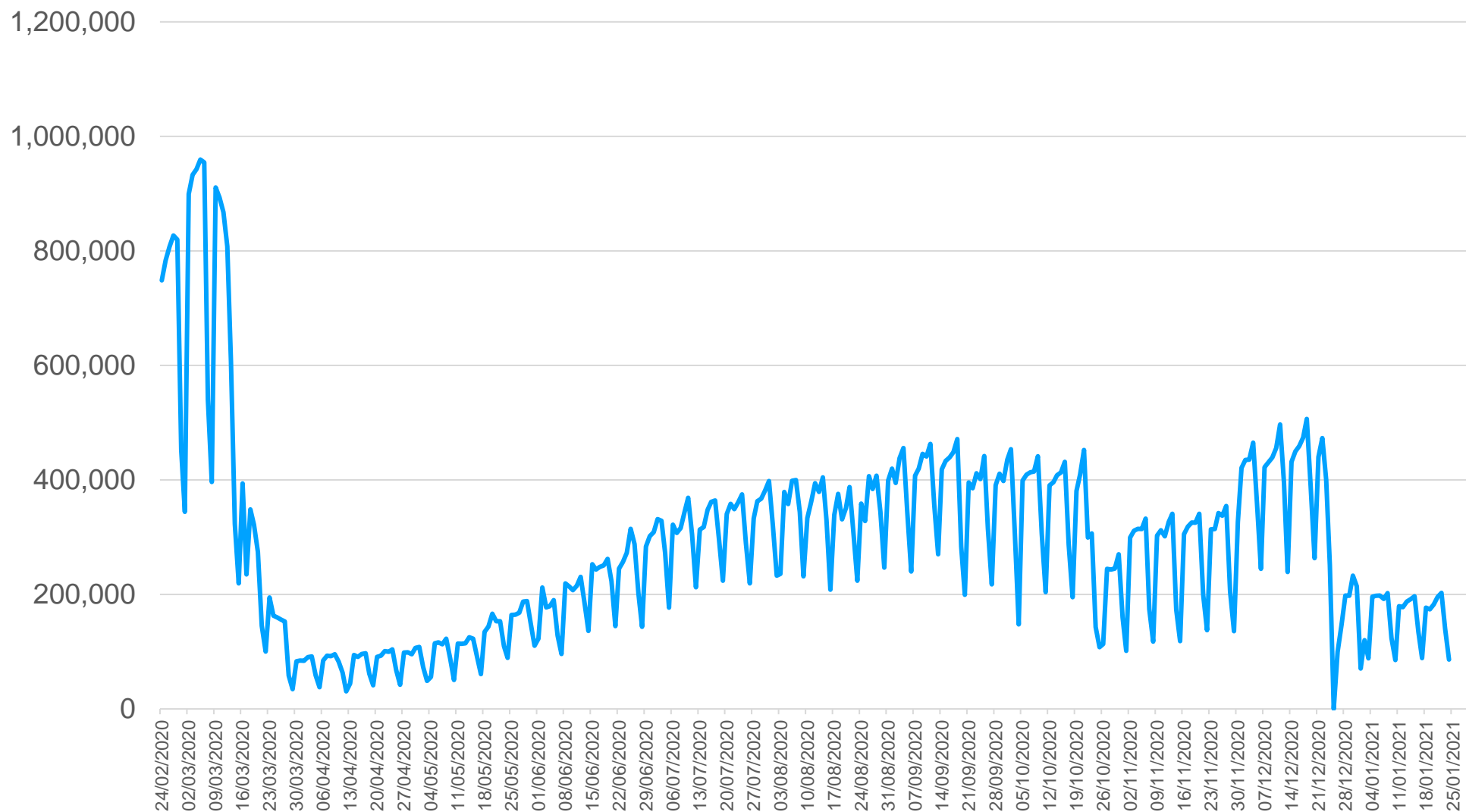


Daily Traffic Flow

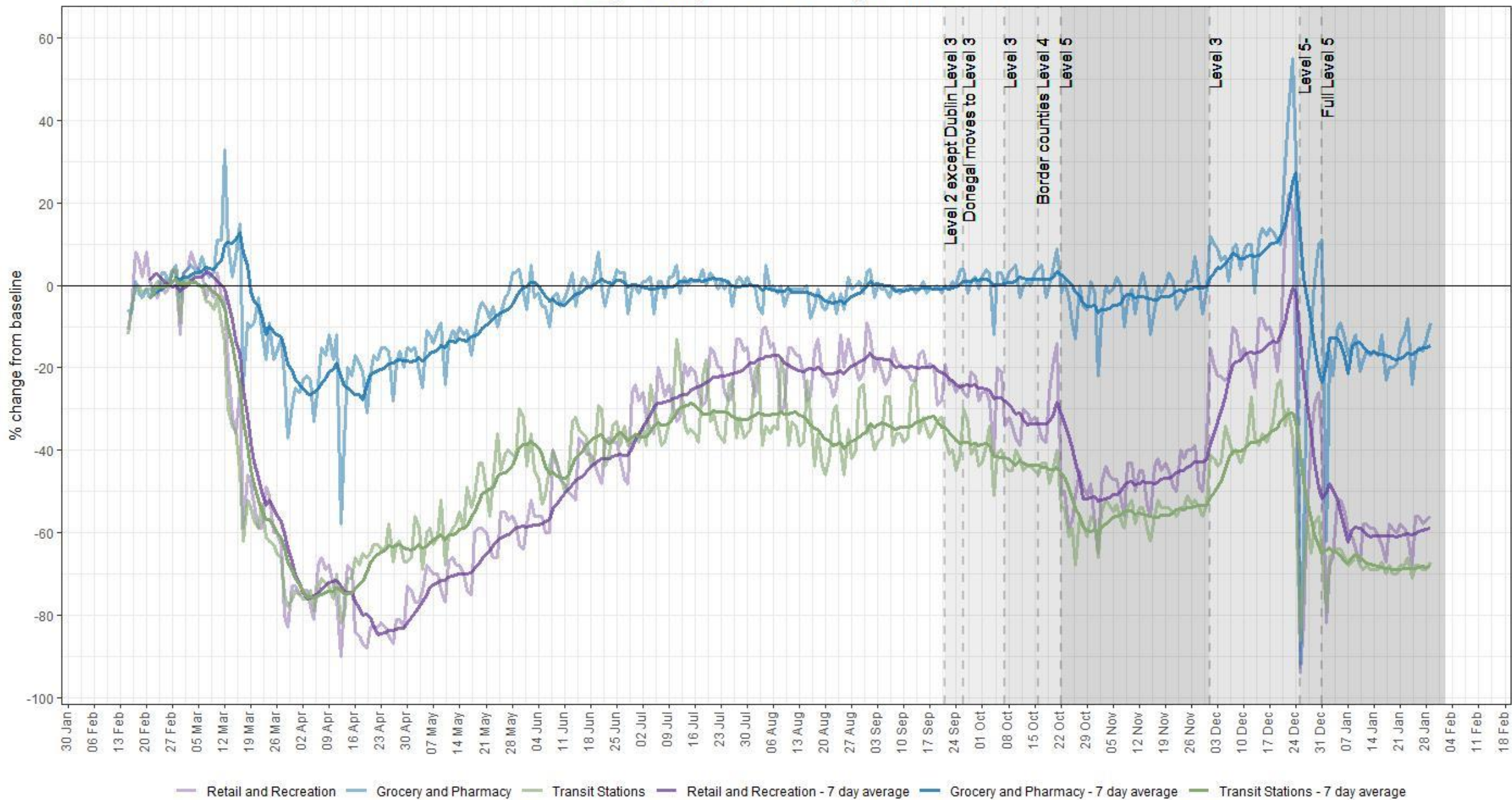




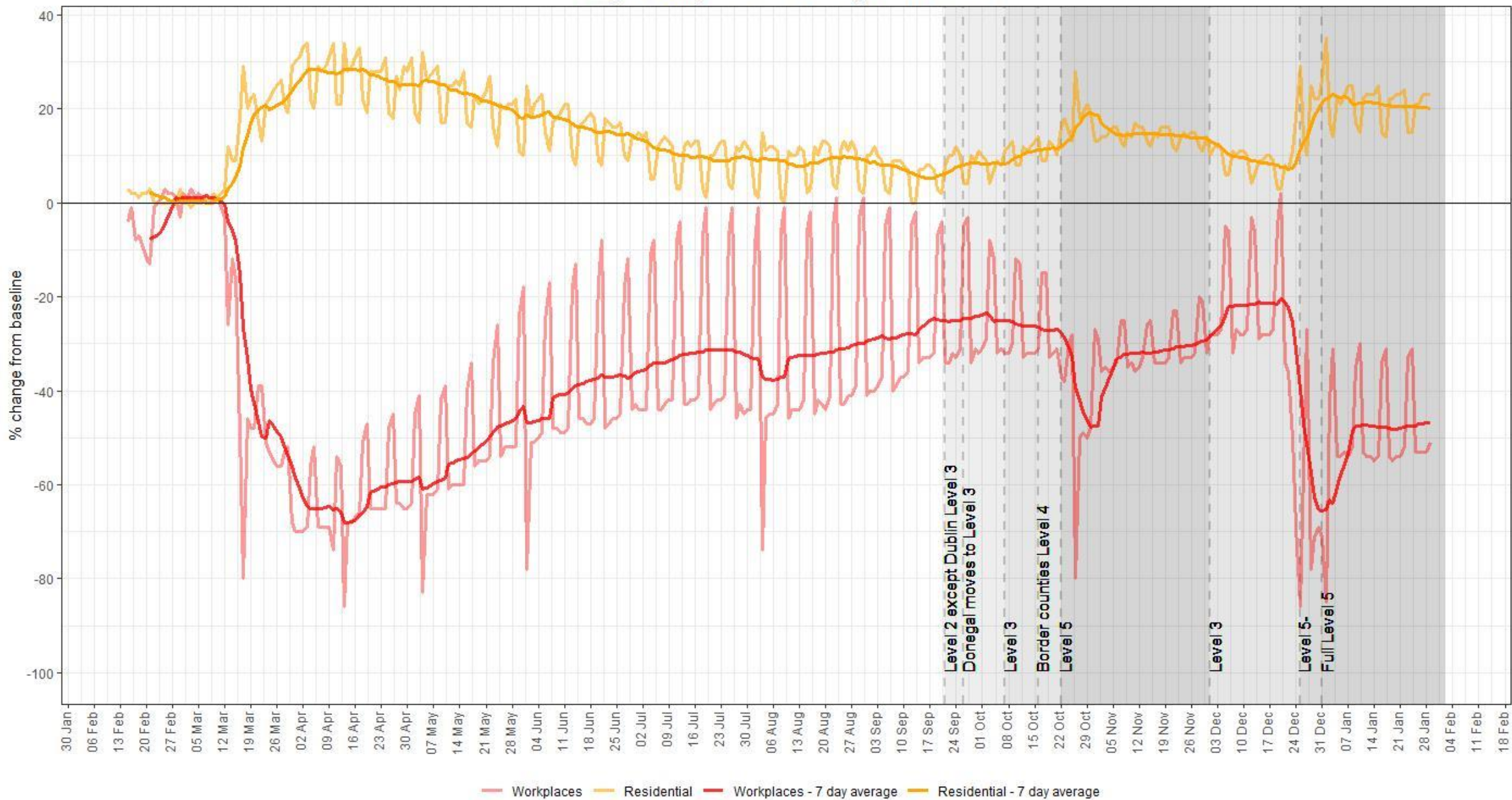
Overall Public Transport daily passengers



Google Mobility Ireland - % change from baseline



Google Mobility Ireland - % change from baseline



Apple Mobility Ireland - % change from baseline

