NPHET COVID Update 18th 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.)		09-Feb	13-Feb	17-Feb
14-day incidence	96.08	306.29	86.92	320.71	1495.17	367.82	318.72	286.57	261.66
5-day average cases	407.0	920.0	261.0	1477.4	4462.6	1060.4	854.8	884.2	816.0
Total weekly cases	2607	7003	1893	9421	35393	7910	6600	6272	5866



	01-Oct	26-Oct (2 nd wave peak 14 day inc.)	01-Dec	01-Jan	14-Jan (3 rd wave peak 14 day inc.)		09-Feb	13-Feb	17-Feb
No. Hospital (8.A.M)	122	344	224	508	1792	1258	1104	898	831
No. in ICU (6.30 P.M)	22	40	30	42	176	187	175	173	155

	01-Oct	26-Oct (2nd wave peak 14 day inc.)	01-Dec	01-Jan	14-Jan (3 rd wave peak 14 day inc.)	05-Feb	09-Feb	13-Feb	17-Feb
Positivity rate (7 day average)	3.0%	6.1%	2.7%	12.5%	17.0%	6.3%	6.0%	5.6%	5.5%

	October	November	December	January	February
Total Deaths	128	179	193	1265	470
Deaths associated with Nursing Home outbreaks	52	54	65	496	212
Deaths associated with Hospital outbreaks	26	65	66	160	36

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 also falling. The number of deaths per day remains very high.



	Apr 2020	Summer 2020	Oct 2020	Dec 2020	Jan 2021	20 Jan	27 Jan	3 Feb	10 Feb	17 Feb	Daily count 17 Feb
Cases confirmed per day	859 18-04	8.7 ₂₅₋₀₆	1158 21-10	262 12-12	6520 10-01	2891	1699	1188	943	816	650
14-day incidence per 100,000 population	212 19-04	3.0 04-07	306 26-10	79 09-12	1532 15-01	1223	674	424	312	261	
Hospital in-patients	862 17-04	9	333 01-11	198 16-12	1949 24-01	1901	1889	1499	1188	907	831
Hospital admissions per day	85	<1	27 26-10	11 13-12	158 15-01	132	89	68	52	45	49
ICU confirmed cases	150	4 04-08	43 04-11	26 27-12	217 28-01	194	217	209	179	163	154
ICU admissions per day	14 31-03	<1 03-06	4 03-11	1	20	19	15	11	6	8	8
Deaths confirmed per day	46 22-04	<1 <i>30-07</i>	7	4	57 03-02	44	50	57	41	35	<i>57</i>

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.





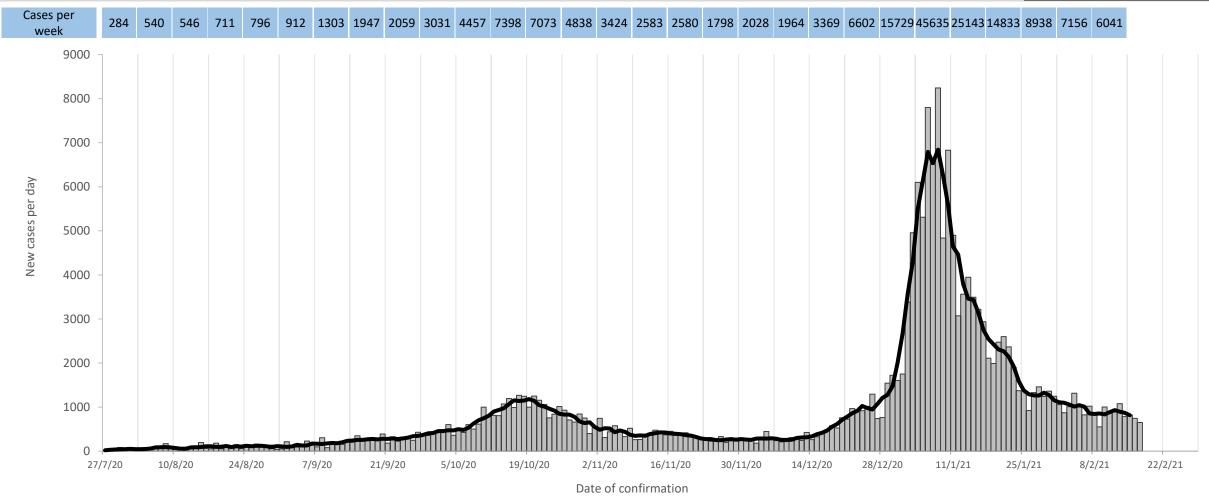


Cases, Incidence Rates & Testing

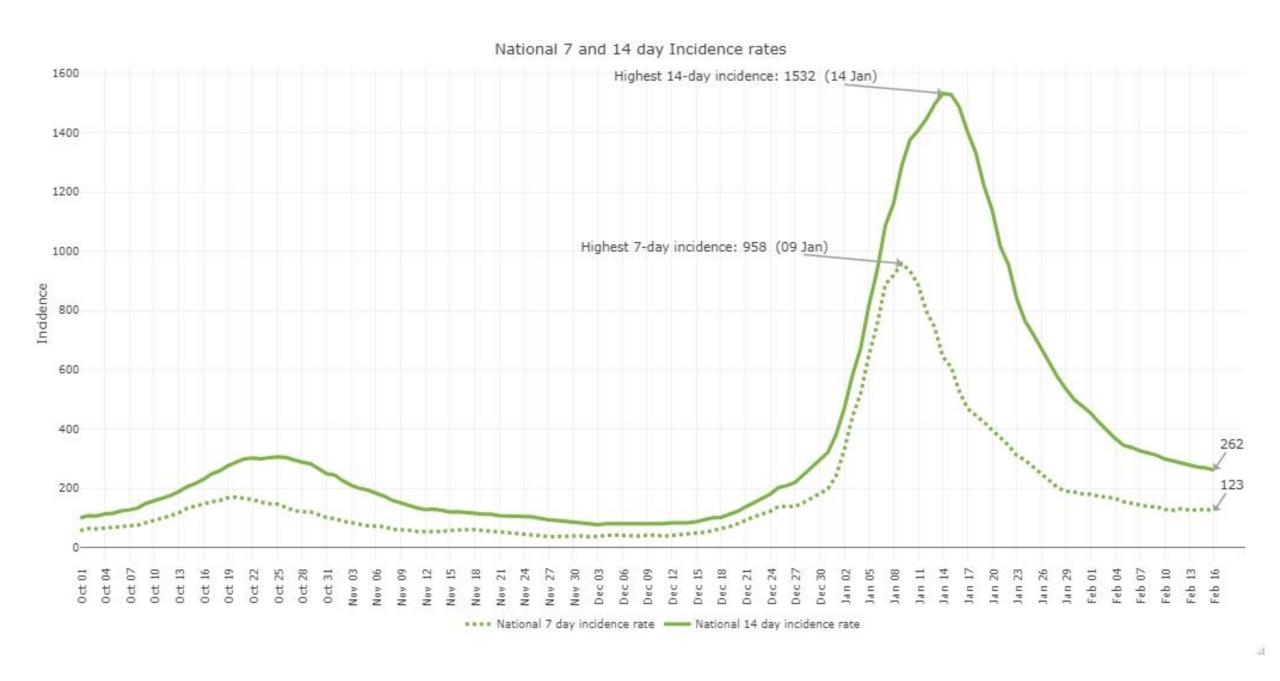
Confirmed cases each day

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 **816**

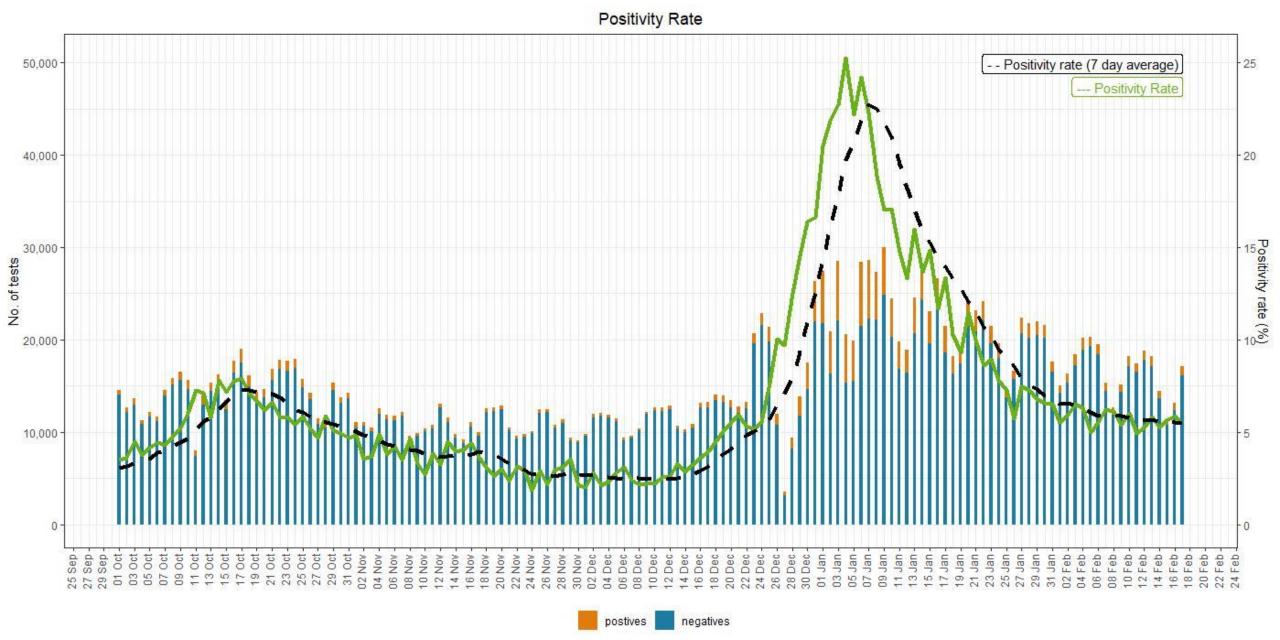






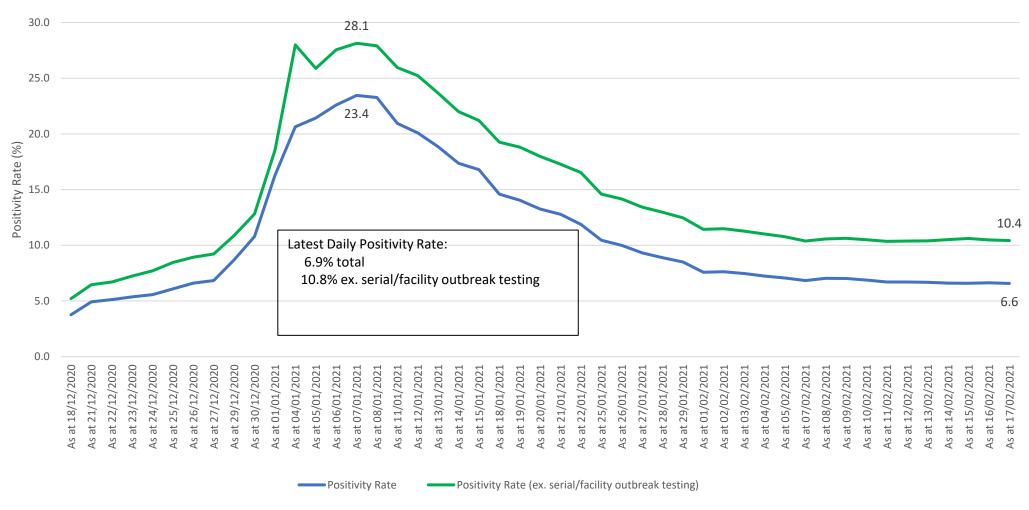


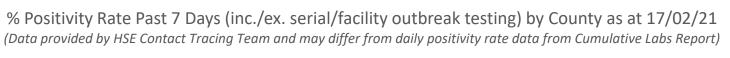
Recent trend in positivity rate



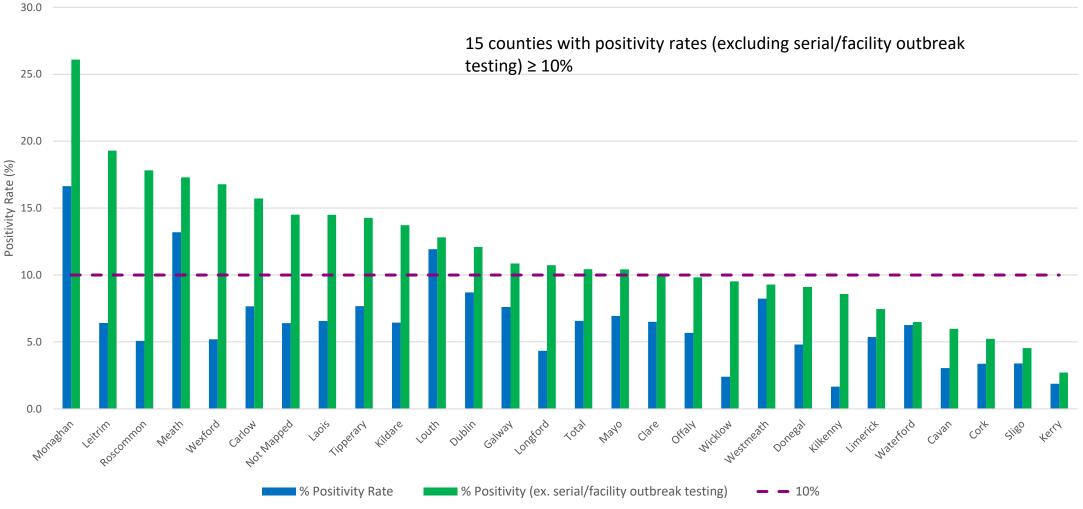
% Positivity Rate in Total Tests over Preceding 7 Days inc./ex. Serial/Facility Outbreak Testing (Data provided by HSE Contact Tracing Team and may differ from daily positivity rate data from Cumulative Lab







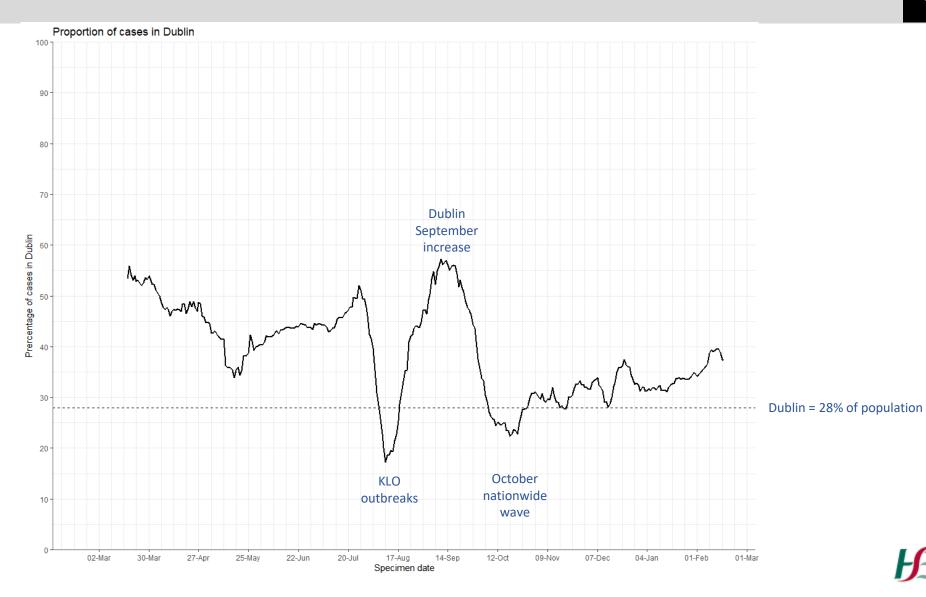




Proportion of cases in Dublin

The proportion of cases in Dublin has been increasing, though it remains lower than in earlier phases of the pandemo

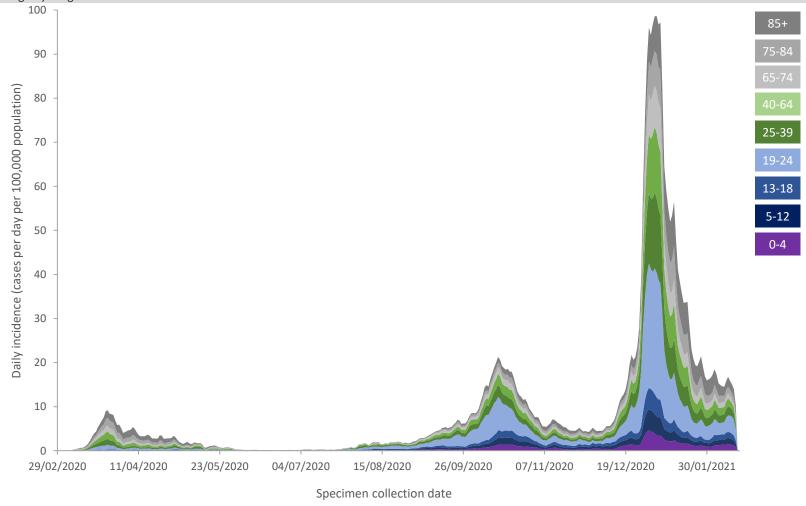






Incidence across different age groups (excluding HCW and LTRC)

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. Incidence is decreasing across all age groups except those aged 24 and younger, due to increased detection of asymptomatic infections in close contacts, and perhaps increased social mixing in young adults



Week					Age band	i			
	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	32.1	29.2	50.4	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	4.6	13.3	15.2	14.3	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	6.8	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	0.0	0.7 0.4	1.3 0.5	1.5 1.8	1.3 1.4	1.4	1.6 0.8	2.0 0.5	1.5 1.5
	0.0	0.4	0.5	1.8	1.4			1.5	3.0
26 27	1.5	0.2	0.3	1.8	1.5	0.7 0.9	0.8	1.5	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	3.3	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	16.4	10.5	4.6	2.5	3.0
33	6.0	10.0	12.1	27.2	19.5	12.1	8.3	2.5	7.4
34	7.2	7.5	17.5	37.4	16.6	11.4	5.9	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	13.1	17.2	47.7	21.6	13.3	11.0	11.7	14.8
37	17.2	17.9	30.1	63.7	28.7	24.4	22.2	8.7	10.4
38	21.7	26.2	44.1	90.6	44.0	34.9	33.2	19.8	19.2
39	12.1	22.6	42.8	147.0	50.0	41.9	32.9	31.0	20.7
40	29.6	28.8	63.2	167.9	68.1	57.8	34.5	26.0	20.7
41	42.8	46.8	132.9	317.3	115.3	89.7	61.6	51.9	60.7
42	78.1	90.4	197.3	434.2	154.4	142.9	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	75.2	77.8	55.2	55.5	59.2
45	34.4	39.7	57.9	83.9	58.4	46.0	42.6	44.3	47.4
46	42.2	37.2	65.4	89.4	45.3	45.2	32.4	42.7	69.6
47	22.0	34.1	60.0	79.4	34.7	33.0	29.2	39.7	62.2
48	23.2	31.3	45.5	66.7	33.9	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	35.1	22.5	31.0	22.2
51	51.9	58.5	74.5	128.3	88.1	81.1	54.3	55.5	50.3
52	77.5	76.9	120.0	326.1	176.5	135.4	96.1	94.7	122.9
53	217.8	236.7	514.0	1404.6	763.3	638.2	426.0	349.6	389.3
1	183.7	208.9	569.7	1332.4	794.1	724.5	500.9	448.8	568.4
2	130.9	126.8	301.9	582.4	418.8	423.3	302.8	411.2	580.3
3	93.8	80.9	169.5	330.3	257.6	246.4	170.5	253.4	429.3
-									
	73.3	60.7 72.9	127.3	231.9	154.7	147.9	121.3	163.9	284.2
4		- 77 Y	127.0	210.4	129.9	125.6	86.2	121.1	235.4
5	77.5 92.0	85.1	124.9	223.4	119.5	103.4	69.6	93.6	133.2

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





Incidence across different age groups (excluding HCW and LTRC)

Incidence has decreased across most adult age groups, especially older adults. The incidence in those aged 18 and under has stabilised or increased with increased detection of asymptomatic infections in close contacts, and incidence in those aged 19-24 may have started to increase



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	66.7	33.9	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	35.1	22.5	31.0	22.2
51	51.9	58.5	74.5	128.3	88.1	81.1	54.3	55.5	50.3
52	77.5	76.9	120.0	326.1	176.5	135.4	96.1	94.7	122.9
53	217.8	236.7	514.0	1404.6	763.3	638.2	426.0	349.6	389.3
1	183.7	208.9	569.7	1332.4	794.1	724.5	500.9	448.8	568.4
2	130.9	126.8	301.9	582.4	418.8	423.3	302.8	411.2	580.3
3	93.8	80.9	169.5	330.3	257.6	246.4	170.5	253.4	429.3
4	73.3	60.7	127.3	231.9	154.7	147.9	121.3	163.9	284.2
5	77.5	72.9	127.0	210.4	129.9	125.6	86.2	121.1	235.4
6	92.0	85.1	124.9	223.4	119.5	103.4	69.6	93.6	133.2

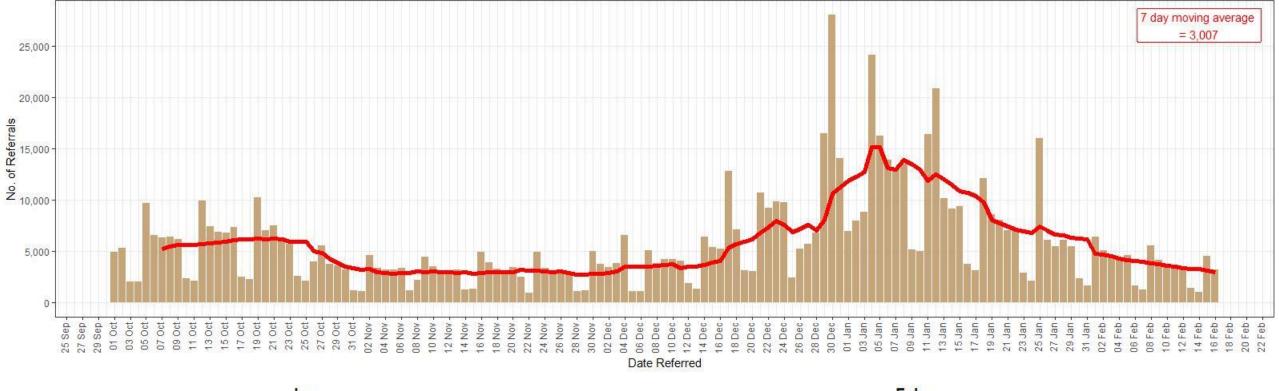






GP referrals

GP Referrals excluding Close Contacts



Sun

Mon

Tue

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

Wed

Thu

Sun

Mon

Tue

Fri

Sat

Feb

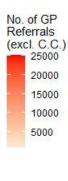
	1 6,437 referrals (-60%)	2 5,094 referrals (-17%)	3 4,563 referrals (-17%)	4 4,408 referrals (-28%)	5 4,648 referrals (-16%)	6 1,680 referrals (-30%)
7 1,289 referrals (-22%)	8 5,540 referrals (-14%)	9 4,130 referrals (-19%)	10 3,732 referrals (-18%)	11 3,677 referrals (-17%)	12 3,393 referrals (-27%)	13 1,415 referrals (-16%)
14 1,041 referrals (-19%)	15 4,525 referrals (-18%)	16 3,268 referrals (-21%)	17	18	19	20
21	22	23	24	25	26	27
28						

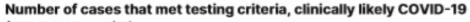
Wed

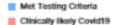
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Fri

Sat



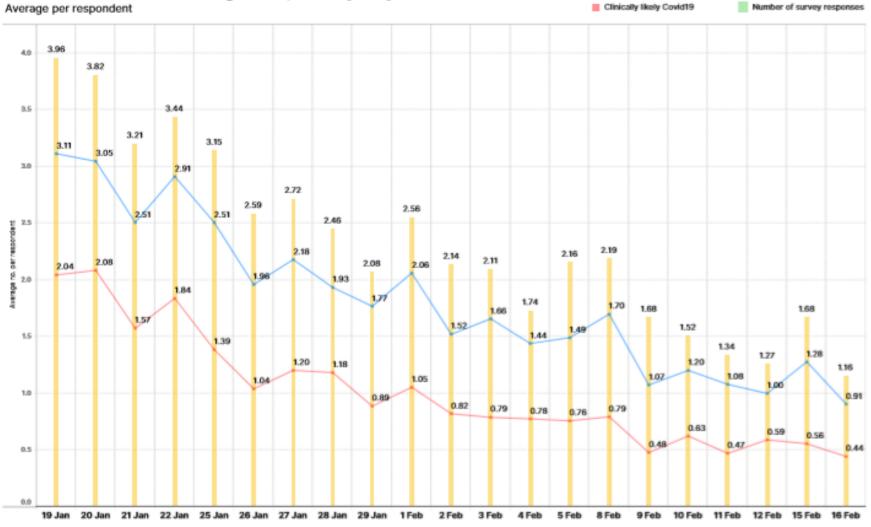














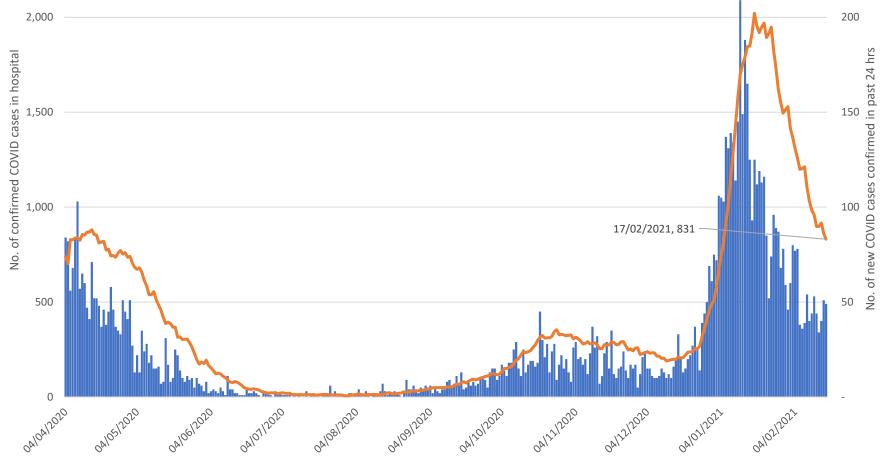






Hospital & ICU Data

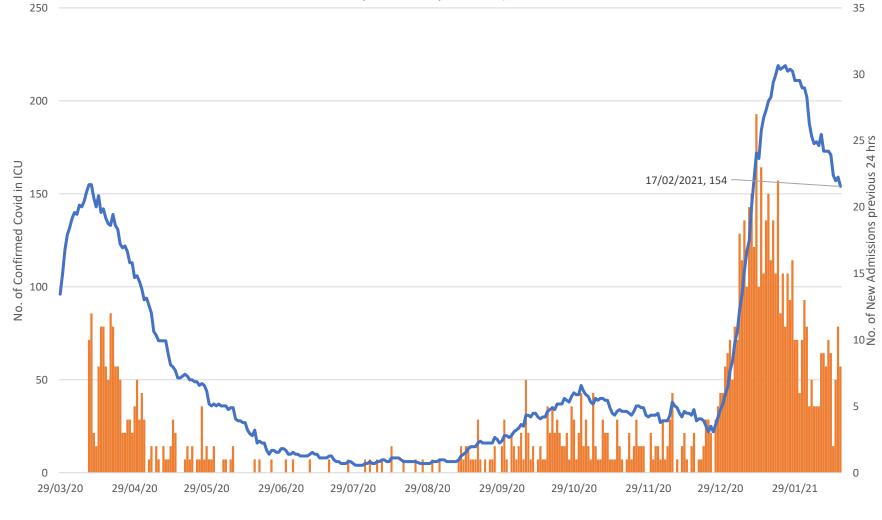
Total No. of Confirmed Covid Cases in Hospital at 8AM & No. of New Confirmed Covid Cases in Past 24 hrs



Total No. of Confirmed Covid Cases in ICU at 11.30AM & No. of New Confirmed Covid Admissions to ICU in past 24 hrs

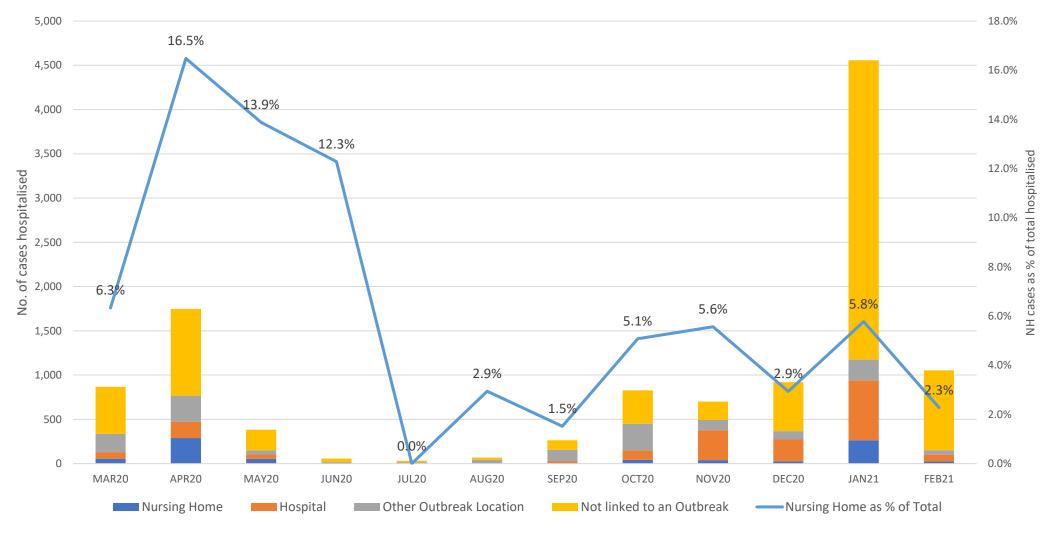
(includes all reporting public & private hospitals and may differ from no. reported by HSE in public hospital ICU)





No. of Cases Hospitalised by month (based on event creation date of case) and Outbreak Link EXCLUDING HEALTHCARE WORKERS





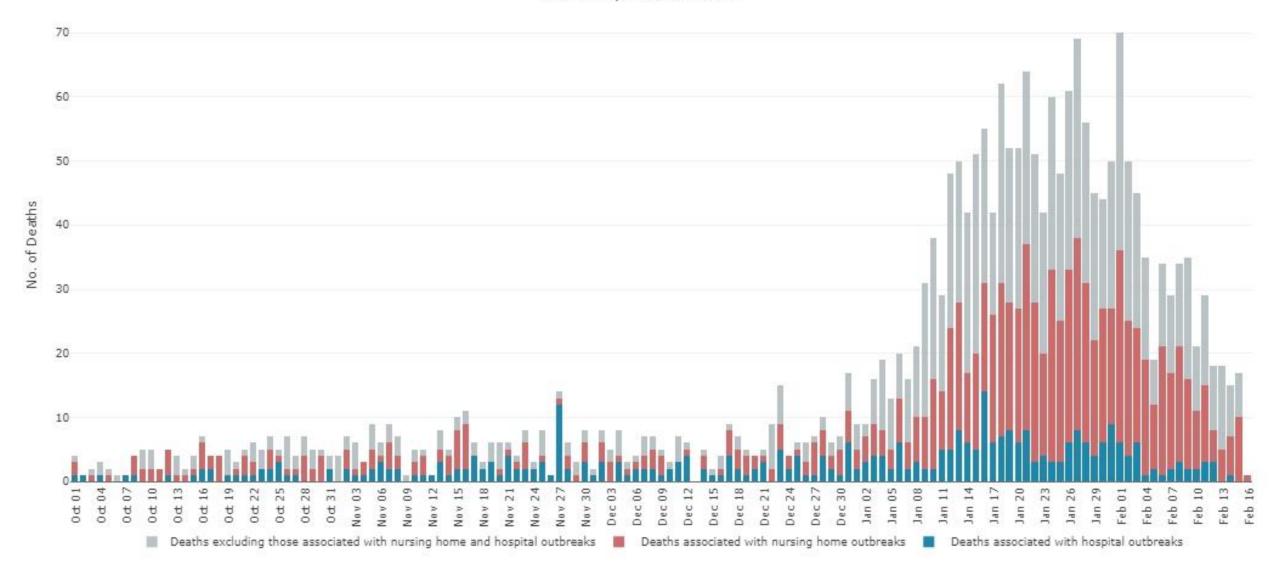
Hospitalised = 'Hospital Inpatient'.

Linking of cases with outbreaks, identification of HCW and hospitalisation of cases may be incomplete for more recent cases Source: HPSC, CIDR Extract 17022021



Deaths

Deaths by Date of Death





Outbreaks & Clusters

COVID-19 outbreaks by key outbreak locations, week 6 2021 and overall, 2020-2021 Ireland



- Since March 1st 2020, 12,111 outbreaks have been notified to CIDR
- In week 6, 2021 200 outbreaks were notified

Key outbreak locations	Week 6	Weeks 10-47	Weeks 48-6
Workplace	22	292	230
Direct Provision Centre	2	37	27
Vulnerable groups*	22	102	133
Prisons	1	9	4
Nursing Home/Community Hospital	6	380	229
Acute hospitals	12	178	174
Schools^	0	79	116
Childcare facility	5	200	108

^{*}Includes Irish Travellers, Roma, homeless and addiction service population

Data source: CIDR February 16th 2021 – data to midnight February 15th 2021

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

Weekly Summary

• **Total** number of outbreaks week 6, 2021 n=200 compared with week 5, 2021 n=210

Vulnerable groups

- Irish Traveller outbreaks
 - Week 6 22 new outbreaks, 153 linked cases
 - Week 7 8 new outbreaks already 40 linked cases
- 22 open DPC outbreaks 203 linked cases
- 2 new outbreaks in homeless population 9 linked cases
- 1 new outbreak in a prison 17 linked cases
- 1 new outbreak in addiction services 3 linked cases

Workplace outbreaks

- 7 new food industry outbreaks since last week's report –
 29 linked cases
- 30 cases linked to 9 previously notified food industry outbreaks
- Two new construction outbreaks 9 linked cases
- Five other workplace outbreaks 23 linked cases

Residential institution outbreaks

- 157 outbreaks are 'open' with 1,245 linked cases (range 0-46)
- 9 new outbreaks since last week's report with 38 linked cases

Home care Teams

- 31 open outbreaks 86 linked cases
- No new outbreaks notified to CIDR since last report

Nursing Homes & Community Hospitals

- 196/609 outbreaks remain open with 6495 linked cases
- 6 new outbreaks with 40 linked cases since last week's report
- 3 open outbreaks with new cases linked in the past week have
 >100 cases each
- Since November 22nd 2020, 773 deaths

Acute hospitals

- 130 open outbreaks involving 43 hospitals, 1962 linked cases (range 1-150)
- 12 new outbreaks since last week's report with 13 linked cases (0-5). In addition, for 8 outbreaks in a single hospital 85 cases on aggregate data
- Since November 22nd 2020, 282 deaths have occurred in cases linked to acute hospitals outbreaks

Schools

No new outbreak since last week's report.

Childcare facilities

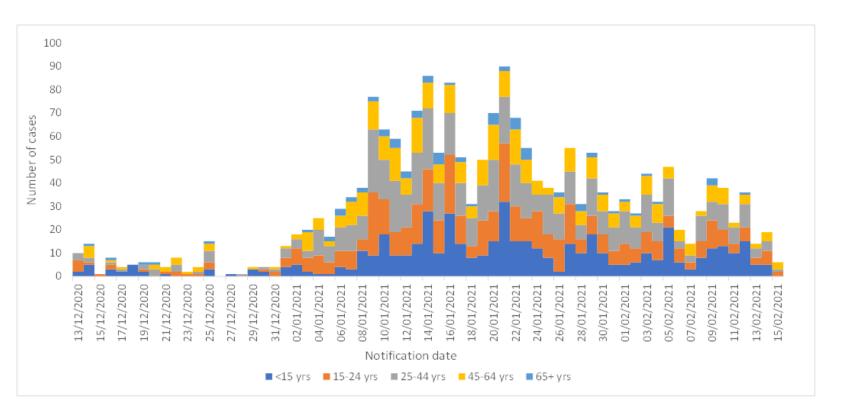
 9 new outbreaks since last week's report with 39 linked cases (range 2-8)

Third-level students/University/college

No new outbreaks reported to CIDR since last report

COVID-19 infections among Irish Travellers – December 13th 2020 – February 15th 2021





- 1988 confirmed cases
- 47% (944/1988) male
- Median age 25 years
- 4.7% hospitalised, nine ICU admissions and five deaths
- Among 115 outbreaks, 18 had >20 linked cases
- 22 new outbreaks in week 6, with
 153 cases between them
- Eight new outbreaks already in week 7, 2021 – 40 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 15th 2021

Outbreaks linked with Roma, Homeless, Addiction Services and Prisons: August 1st to February 14th 2021



Since August 1st 2020

- 43 outbreaks with 401 associated cases
- 17% (65/390) are <15 years; 54 are Roma, three are homeless and eight are people with addictions)
- Twenty outbreaks are 'open' (three in prisons, seven in people with addictions and ten in the homeless population)
- Since last update, four new outbreaks occurred, two in homeless populations with nine confirmed linked cases, one in a prison with 17 confirmed linked cases and one in people with addictions with three confirmed linked cases

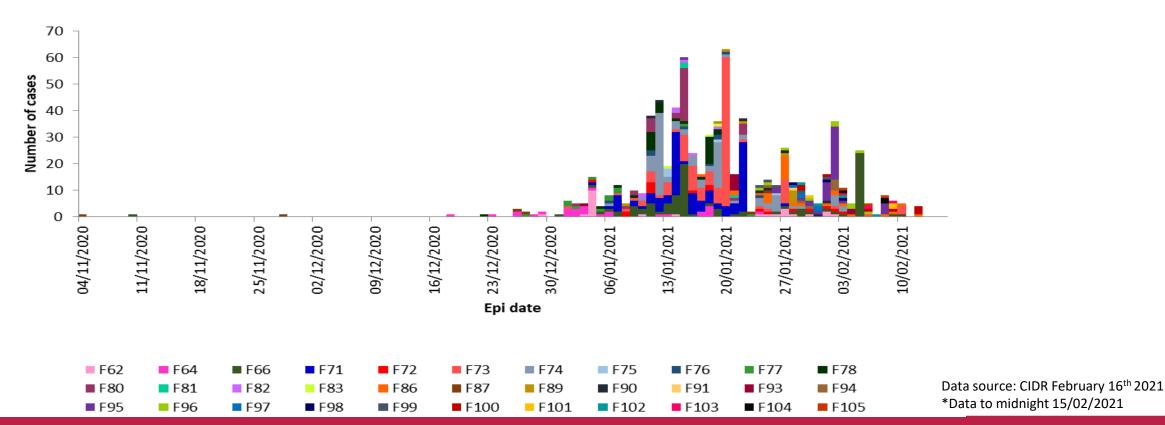
Vulnerable group	Outbreak	eak Linked confirmed cases							
	Number of outbreaks	Number of cases	Number hospitalised	Number admitted to ICU -	Number who died				
Homeless	17	64	2	2					
People with addictions	11	85	3		1				
Prisons	6	103							
Roma community	9	149	9	3					
Total	43	401	14	5	1				

Data source: CIDR February 16th 2021 – data to midnight February 14th 2021

Workplace outbreaks – Food production/processing: Nov 1st 2020-Feb 15th 2021



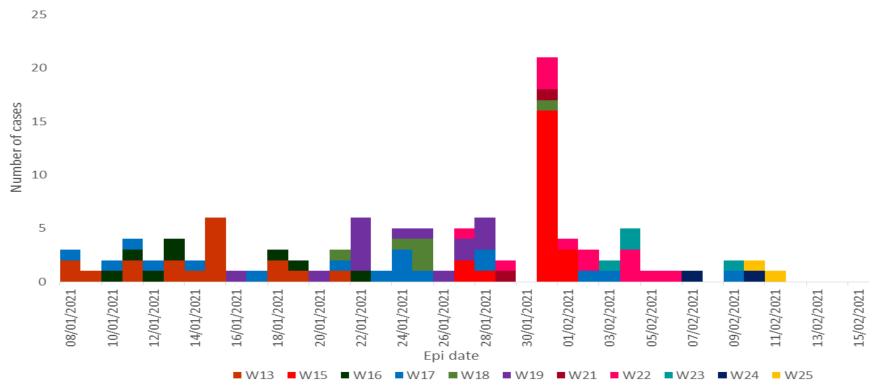
- 746 cases are linked to 34 **open** outbreaks in this sector (range: 0-125 linked confirmed cases)
- 7 new outbreaks were reported this week (29 confirmed cases linked to these outbreaks (range: 3-8 linked confirmed cases)
- 30 additional cases were linked to 9 previously reported outbreaks
- The largest outbreak has 125 linked cases, and epi dates range from the 1st Jan to 10th Feb
- Overall, 70 cases linked to outbreaks in this sector have an epi date within the last 14 days; and 9 within the last 7 days



Workplace outbreaks – Other#: Nov 1st 2020 – Feb 15th 2021



- 109 cases are associated with 11 open outbreaks in businesses categorized as "Other" workplaces (range: 2-22 linked confirmed cases)
- Five new outbreaks in this category, with 23 linked confirmed cases (range: 2-13 linked cases), notified since last week
- Five additional cases were linked to three previously reported outbreaks in this category
- 18 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 16th 2021 *Data to midnight 15/02/2021

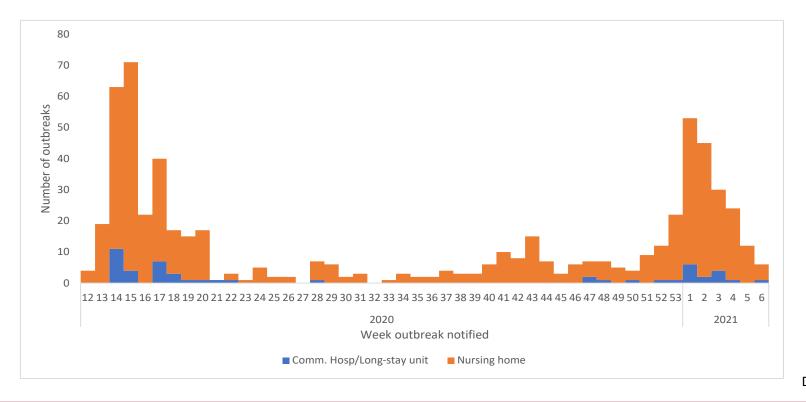
Nursing Homes and Community Hospital/Long Stay Units: to midnight February 13th 2021



	Outbreak	Linked confirmed cases						
Outbreaks Location	Number of outbreaks	Number of cases	Number hospitalised	Number admitted to ICU	Number hospitalised and died	Number who died		
Comm. Hosp/Long- stay unit	50	1029	104	2	21	99		
Nursing home	559	13924	891	23	300	1664		
Total	609	14953	995	25	321	1763		

March 2020 - February 13th 2021

 609 outbreaks in Nursing Homes and Community Hospital/Long Stay Units



 Five new Nursing Home and one new Community Hospital/Long-stay Unit outbreaks notified in week 6 2021

Data source: CIDR February 15th 2021 – data to midnight February 13th 2021

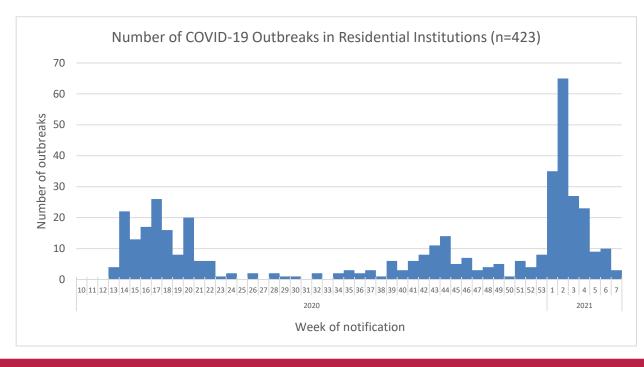




- 6,495 associated cases (2,566 HCW/staff cases, 3,202 client cases, 727 cases HCW status unknown)
- 7 outbreaks include only HCW/staff cases, 169 include both HCW/staff cases and client cases, 6 outbreaks includes client cases only, for 12 outbreaks the mix of cases is unclear, and for 2* outbreaks, there were no linked cases
- 6 new outbreaks since last week's report 40 linked cases
- 80 previously notified 'open' outbreaks 480 additional cases since last week's report
- 110 previously notified 'open' outbreaks no additional cases since last week's report

Residential Institution outbreaks 1st March 2020 to midnight 15th February 2021 (n=423)

	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 Died
Residential Facilities - Total	423	2734	157	1245	53	3	22
Centre for disabilities	289	1723	114	897	35	2	13
Centre for older people	28	454	10	161	2		5
Children's / TUSLA residential centre	30	76	10	28			
Mental health facility	44	319	16	119	15	1	2
Other	20	126	3	32	1		2
Not Specified	12	36	4	8			



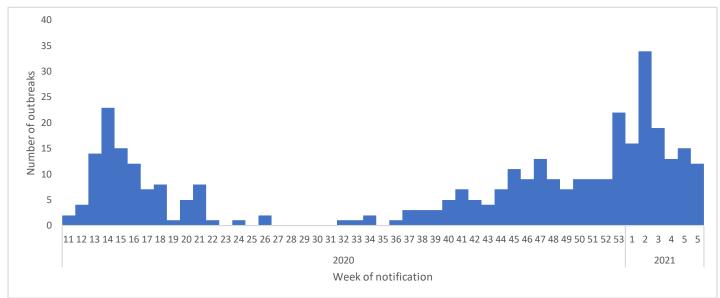
Overview

- 423 outbreaks in residential institutions with 2,734 linked confirmed cases
- 157 outbreaks remain open, 1,245 linked confirmed cases
 - Range in number of cases 0 to 46; median 2
 - 114 of 'open' outbreaks in centres for disabilities
- 9 new outbreaks since last week's report with 38 linked cases (4 outbreaks de-notified/re-categorised since previous report)

Data source: CIDR February 16th 2021 – data to midnight February 15th 2021

Acute Hospital outbreaks to midnight February 13th 2021 (n=352)





Outbreak	Number of		Number	Number	Number
status	outbreaks	linked cases	admitted to ICU	Died	HCWs
All	352	4349	96	454	2003
Open	130	1962	39	206	789

Overview

- 352 outbreaks in acute hospitals
- 130 'open' acute hospital outbreaks (all occurring since 1st September 2020)
- 1962 confirmed cases linked to 130 of the open outbreaks (range 1-150)
- The 130 open outbreaks correspond to outbreaks in 43 Acute Hospitals

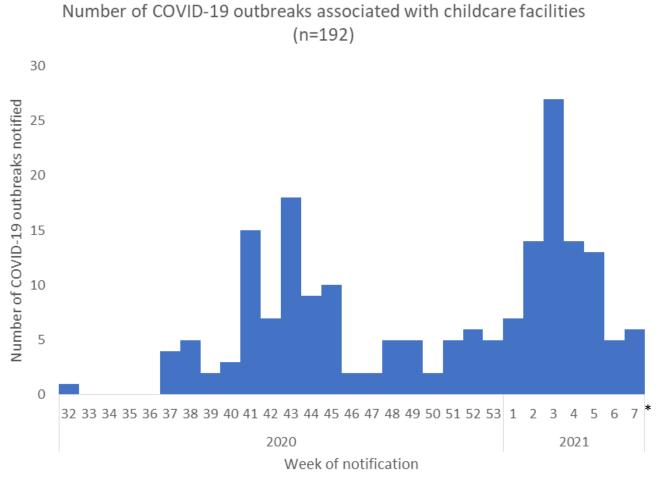
Update

- 12 new outbreaks in week 6 2021
- 13 confirmed cases linked to 4 of these outbreaks (range 0-5). For 8 outbreaks with no linked cases, aggregate data on the number of associated cases suggest that there should be an additional 85 linked cases
- A total of 25 additional cases were linked to 11 previously reported open hospital outbreaks
- Fifteen outbreaks were closed since last week

Data source: CIDR February 15th 2021 – data to midnight February 13th 2021

Outbreaks associated with childcare facilities to midnight 15th February 2021 (n=192)





Overview

- 192 outbreaks associated with children and staff in childcare facilities notified
- 979 linked events in total
- 180 outbreaks have ≥2 linked confirmed cases (range 2-39)
- 111 outbreaks have been closed; 81 remain open

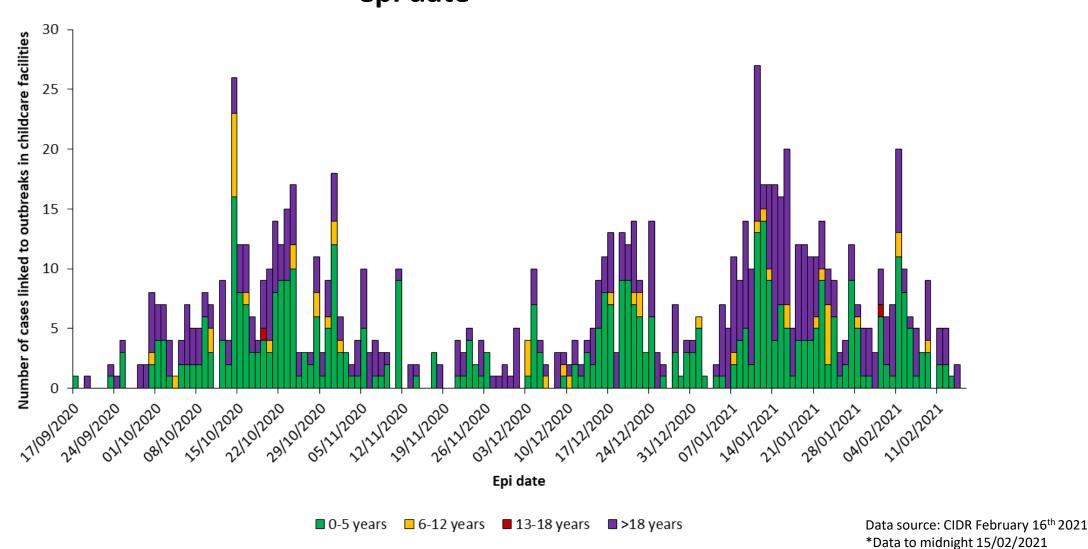
Update

- 9 new outbreaks reported since last week
- 39 confirmed cases linked to these outbreaks (range 2-8)
- 25 additional cases were linked to 11 previously reported childcare facility outbreaks
- 15 outbreaks were closed since last week

Data source: CIDR February 16th 2021 *Data to midnight 15/02/2021

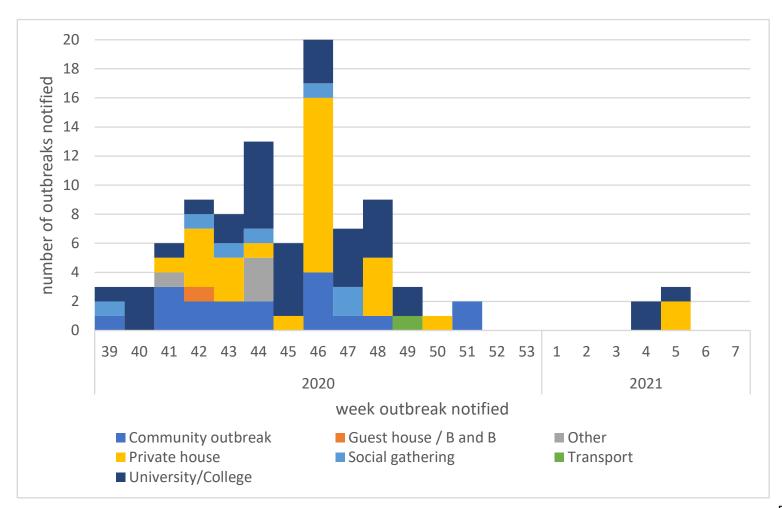
Epidemic curve of cases notified from Oct 1st 2020 – Feb 15th 2021 and linked to outbreaks associated with childcare facility outbreaks (n=920) by age group and epi date





Outbreaks associated with third-level institutions/students to March 2020 midnight 15th February 2021 (n=95)





Overview

- To date there have been 95 confirmed notified outbreaks
- 1030 confirmed linked cases to these outbreaks
- Outbreaks occurred in all 8 HSE areas with 24 each in HSE S and HSE E, and 15 in each of HSE W and HSE M
- 34 outbreaks remain 'open
 - Median number confirmed linked cases = 3 (range 1 to 190)
- No new outbreaks notified to CIDR since last report

Data source: CIDR February 16th 2021 – data to midnight February 15th 2021



Table 6: Number of confirmed COVID-19 cases by most likely transmission source notified from 03/02/2021 to midnight 16/02/2021

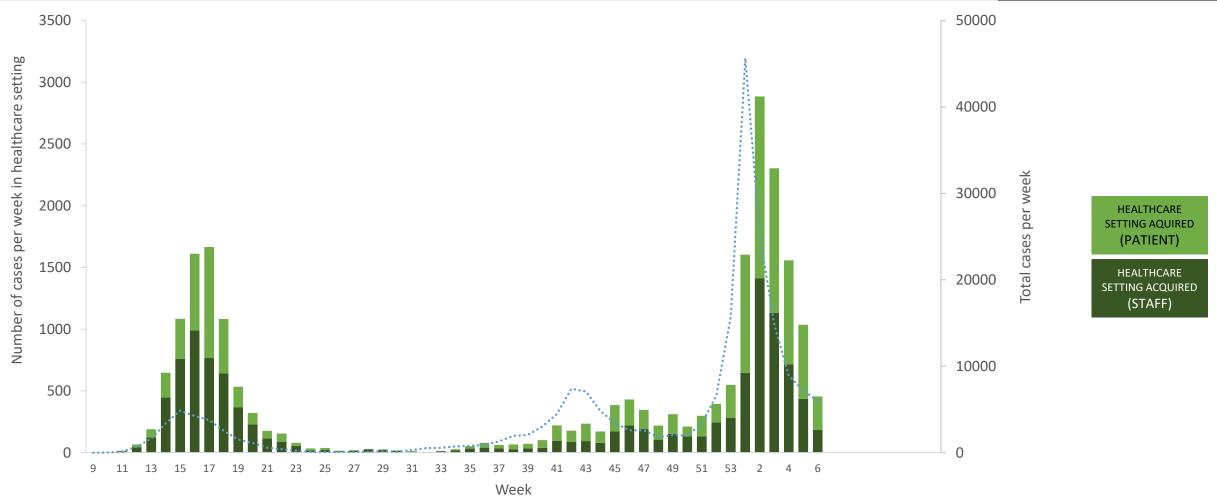
Most likely transmission source	Number of cases	Percent
Travel related	65	0.52%
Close contact with a known confirmed case	6,329	50.79%
Healthcare setting acquired: patient	643	5.16%
Healthcare setting acquired: staff	411	3.30%
Community transmission	2,195	17.62%
Under investigation	2,817	22.61%
Total cases with known most likely transmission source	9,643	77.39%
Total	12,460	100.00%

^{*}Travel related cases include cases who acquire COVID-19 infection outside of Ireland (imported cases) and cases who acquire COVID-19 infection directly from imported cases

Infections in the healthcare setting

The number of healthcare-setting-acquired infections was very high through January 2021. 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. The incidence of healthcare acquired infection has decreased rapidly in parallel to the decline in incidence in the wider community.





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.

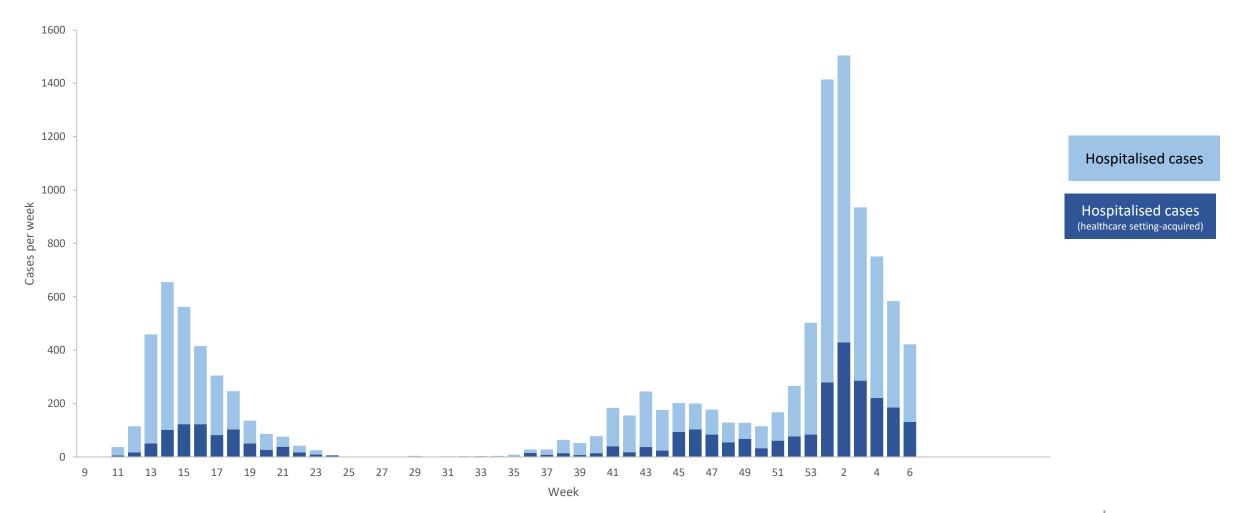




Hospital-acquired infection

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.





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 notificiation (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.





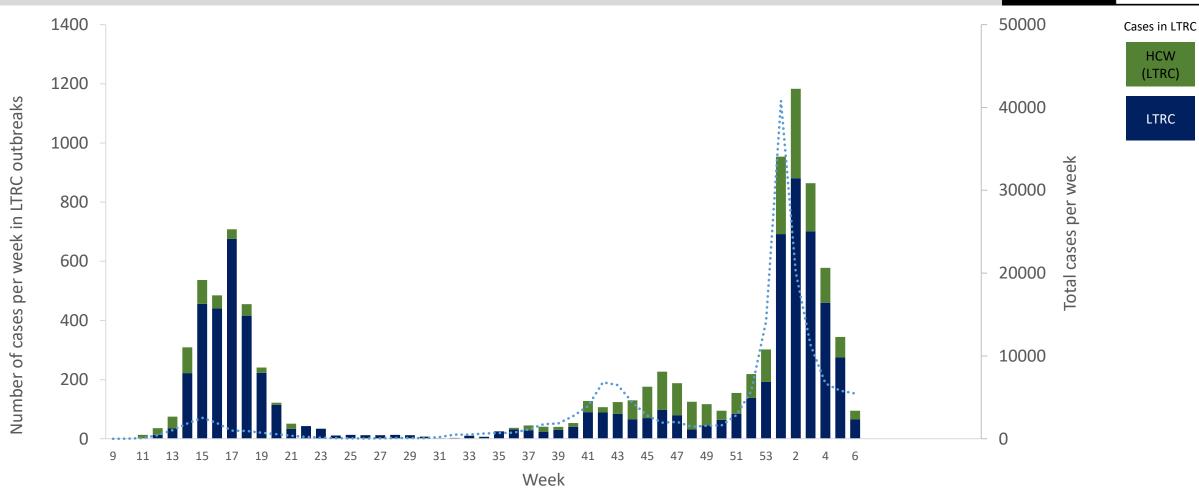
Cases in long-term residential settings

The number of cases linked to outbreaks in LTRC, following the unprecedented levels of infection in the community in January 2021, was 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. Cases in LTRC have decreased rapidly in parallel to the decline in incidence in the wider community.



HCW (LTRC)

LTRC



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, 8th-14th Feb, there has been approximately 109,605 swabs taken for COVID-19 testing.

Of these:

- 43,955 (40%) of these were taken in the community
- 43,192 (39%) swabs were taken in acute and private acute settings.
- 22,458 (21%) 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

From 10th -16th February, of those tested with close contacts, the average number of close contacts per case was 3.

Turnaround Times (10th-16th Feb)

End-to-end turnaround time

• The median end-to-end turnaround time, from referral to SMS, for **not detected** tests in the <u>community setting</u> was **1.6 days.**



- The median turnaround time for time, from referral to communication of a **detected result** by SMS, in <u>community settings</u> was **1.7** days.
- The median end-to-end turnaround time, from referral to the end of contact tracing SMS sent, for **detected cases** in the <u>community setting</u> was **2 days.**

Overall Swab to laboratory result communicated – Medians: 25 hours in Acute, 25 hours in Serial Testing, 27 hours in Community

Referral to appointment

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

92% of community referrals are provided with a COVID-19 test appointment within 24 hours.

Contact Tracing:

The mean time and median time to complete all calls are 6.7 hours and 4.3 hours, respectively.

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Source: HSE

CMP close contact update (week ending 14th Feb)



- The number of close contacts captured during the week ending 14th February was 10,616, an 18% decrease from the previous week (12,978)
- In total, 10,260 (97%) of the contacts created between the 8th and 14th 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 unchanged at 1.9
- The number of complex contact episodes decreased by 28% to 1,958

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

Close Contact Attendance at Testing and Positivity Rates – 1st-7th Feb

- Of the close contacts created between 1st7th Feb, 7,436 (73%) of those who were
 referred for a Test 1 appointment attended
 for testing.
- Results were available at the time of report preparation for 7,155 close contacts, 1,783 (24.9%) of which were positive.
- The highest positivity rate by setting, 33.3%, was seen in household contacts.
- From 10th Feb, Test 1 is scheduled as soon as possible (Day 0) and Test 2 was reinstated (Day 10 since last contact with confirmed case)

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

SARS-CoV2 Test 1* Results by Circumstances - Contacts Created 01/02/2021 to 07/02/2021

,						
Circumstances of Contact	Number of Results Reported	Positive Results	Positivity Rate			
Household	3780	1258	33.3%			
Social	900	151	16.8%			
Workplace	414	40	9.7%			
Pre-School/Crèche	511	56	11.0%			
Third Level Education	<5	<5	**			
Healthcare Setting: Patient***	54	8	14.8%			
Healthcare Setting: Staff***	20	5	25.0%			
Sport	14	<5	**			
Transport	102	6	5.9%			
Other	77	10	13.0%			
Not Recorded	1282	249	19.3%			
Total	7155	1783	24.9%			



^{*}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 was suspended from 23rd December to 10th February. All testing of close contacts was suspended between 1st and 28th January 2021 with Test 1 resuming from the 29th January 2021. Attendance and results are reported a week in arrears for Test 1 and two weeks in arrears for Test 2 to improve completeness of data and allow for more meaningful interpretation of results.



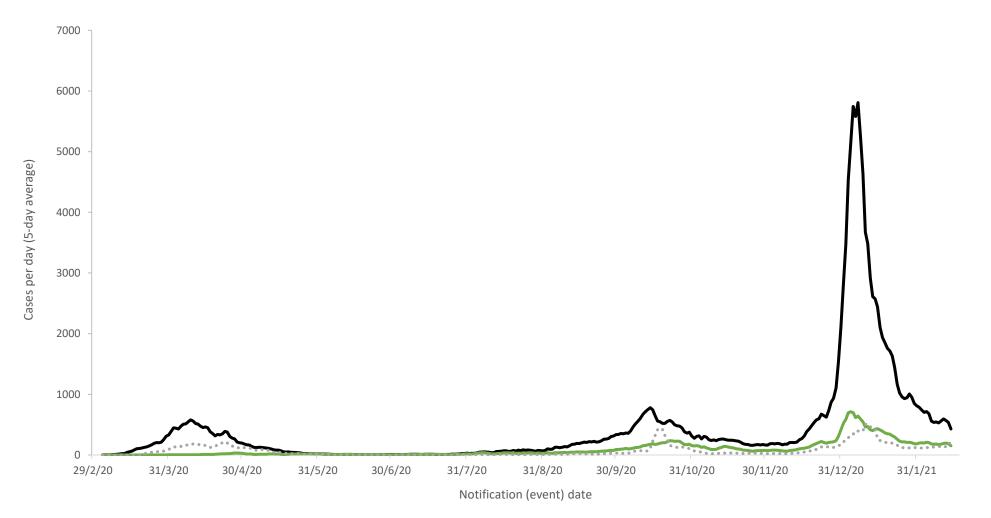
^{**} Unstable positivity rate due to small numbers.

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

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. Asymptomtic cases have increased from $\approx 10\%$ to $\approx 20-25\%$ of all cases, currently $\approx 140-160$ cases per day





Rialtas na hÉireann Government of Ireland

SymptomaticAsymptomatic

· · · · · Unknown

Daily case count (5-day average) separated out into those symptomatic at or prior to time of notification (black), those asymptomatic (green) and those for whom symptom status is unknown. Data for the most recent days is incomplete, as a number of cases for whom symptom status is currently unknown will be recorded as symptomatic or asymptomatic. Case counts are by notification (event) date.

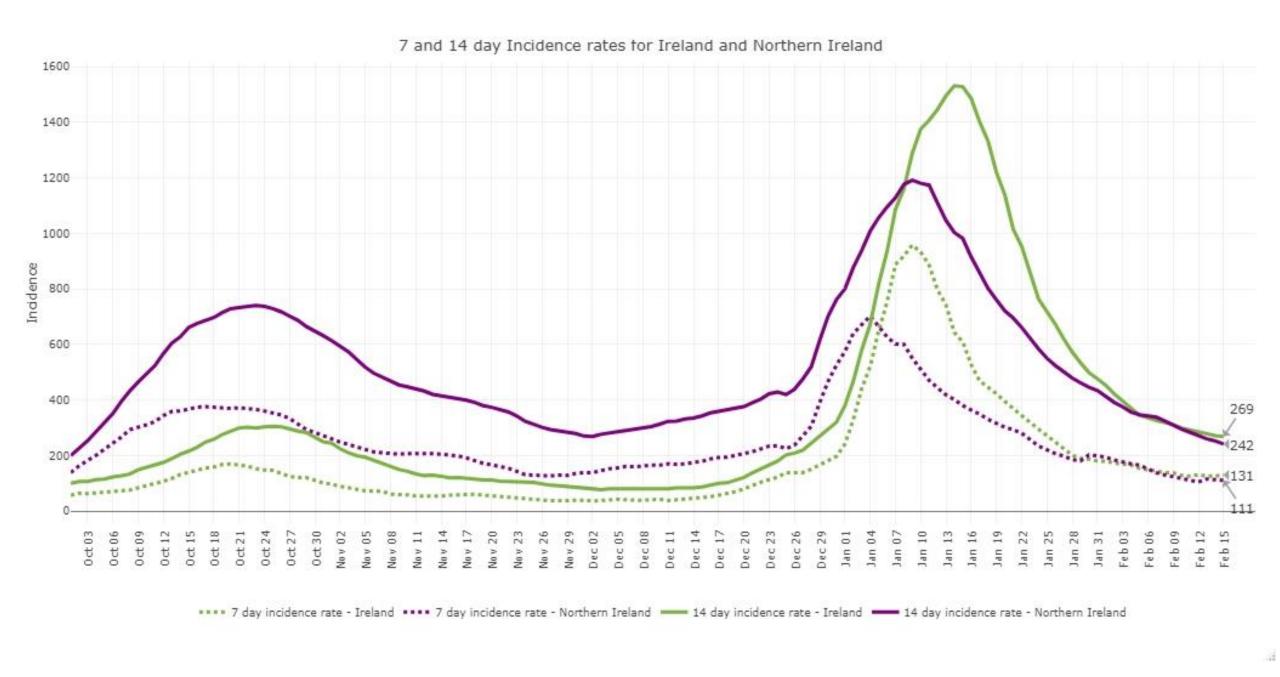
Age specific sentinel GP ILI consultation rates per 100,000 population by week and age specific thresholds



Sentinel GP ILI		Week of Consultation																		
consultation/100,000 pop.	40	41	42	43	44	45	46	47	48	49	50	51	52	53	1 '	2	3	4	5	6
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	22.1	18.2
<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	13.8	3.2
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	25.3	24.6
≥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	19.4	10.3
Number of reporting practices (N=60)	51	55	55	56	57	54	58	57	58	58	58	58	58	58	56	58	58	55	57	53

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



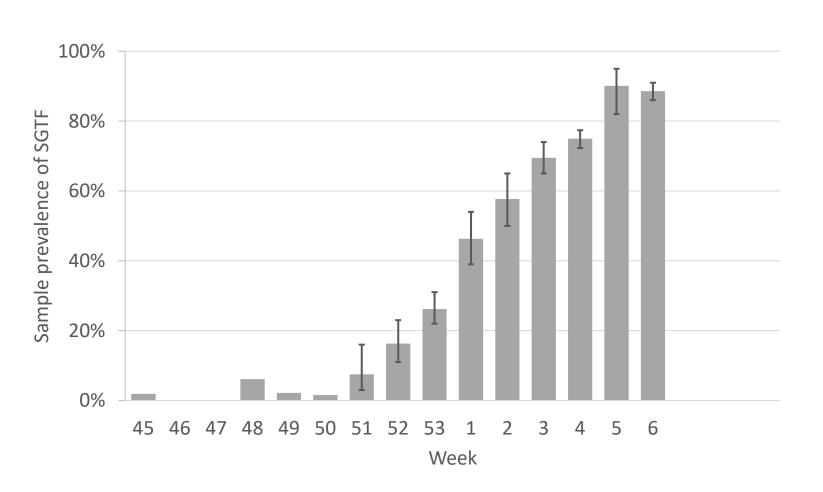


Growth in Cases & R number

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

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





WEEK	Number of SGTF variants	Sample size	Sample prevalence
45	1	52	2%
46	0	35	0%
47	0	32	0%
48	3	49	6%
49	1	46	2%
50	2	128	2%
51	6	80	8%
52	29	178	16%
53	111	424	26%
1	87	188	46%
2	90	156	58%
3	330	475	69%
4	833	1111	75%
5	82	91	90%
6	762	860	89%

Data from National Virus Reference Laboratory UCD

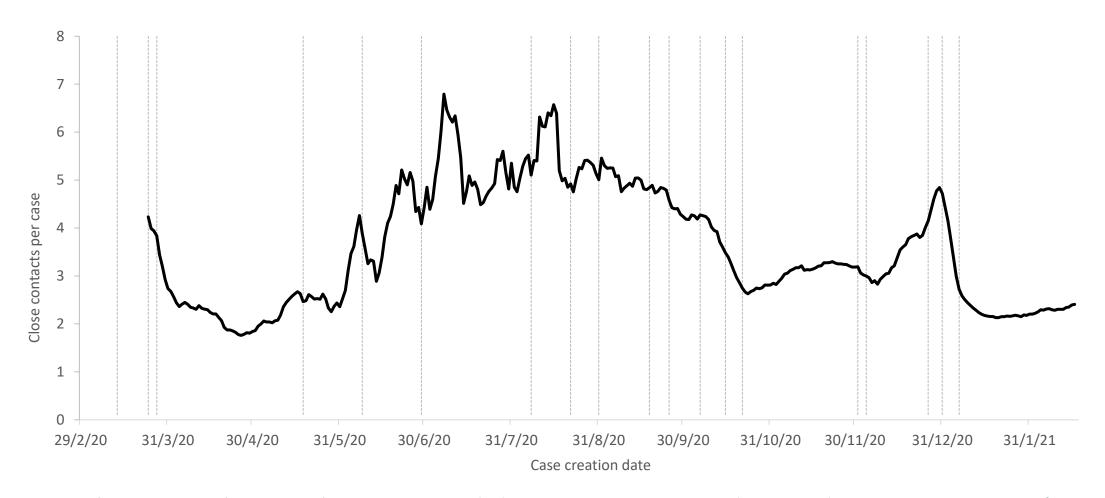




Close contacts of adult confirmed cases

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, while it remains very low it is increasing slowly (from 2.1 to 2.4)





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

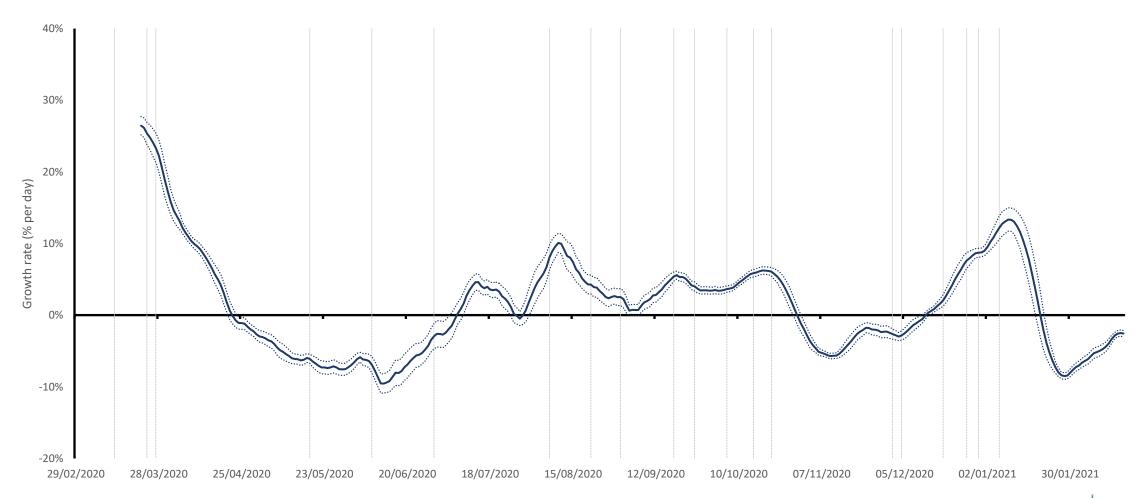




Growth rate for case numbers

Growth rate peaked at 13% per day over the 21-day period up to 10 January 2021. While case numbers decreased very rapildly in January (-6 to -10% per day) case numbers are now decreasing more slowly at -2% to -4% per day









Estimates of effective reproduction number (R)

Reproduction number is below 1.0, but may be increasing; it is currently estimated at 0.65 – 0.85



Method	Estimate	95% confidence interval
SEIR model-inferred	1.30	0.98 – 1.79
Bayesian model	0.78	0.46 – 1.37
Time-dependent R	0.79	0.73 - 0.84
GAM estimate 9 Feb 2021	0.77	0.63 - 0.90
GAM estimate 16 Feb 2021	0.66	0.51 - 0.82

Estimates generated 17 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.





Situation analysis 17 February 2021



- Incidence continues to fall but the rate of decline has slowed
- Cases (5-day average) 816 cases per day; 14-day incidence 261 per 100,000
 - Incidence in those older adults is decreasing
 - Testing of close contacts increasing the number of asymptomatic cases with apparent increase in incidence in those aged 18 and younger
 - Incidence in young adults aged 19-24 may be starting to increase
- Case numbers, test positivity and hospital admissions appear to be plateauing
- B.1.1.7 variant accounts for 90% of cases with increased transmissibility attack rates at 33% in household settings
- Public Health response remains constrained
- We are maintaining suppression of transmission but it is precarious
 - Rate of decline now at -2 to -4%, halving time 18-35 days, R estimated at 0.65 0.85
- Indicators of mobility and contact remain low but are drifting upwards
- Numbers in hospital decreasing, numbers in ICU starting to decrease
 - · Healthcare-acquired infections and cases in LTRC decreasing
 - Admissions to hospital may have plateaued
- High mortality but may be stabilizing
- A fundamental concern that while we continue to suppress transmission this is becoming less effective over time















European Data

EU/UK ranked by 14 day percentage change (16th February)

EU/EEA and the UK	14 day incidence		% change in 14 day incidence
Greece	145.7		64%
Bulgaria	166.2	109.7	52%
Hungary	210.5	165.8	27%
Estonia	638.2	530.5	20%
Czechia	981.8	887.2	11%
Luxembourg	341.7	311.2	10%
Slovakia	505.6	472.6	7%
Finland	95.0	91.4	4%
Poland	202.0	201.9	0%
Italy	279.5	281.2	-1%
Latvia	544.5	567.7	-4%
Romania	172.8	181.1	-5%
Austria	215.1	225.8	-5%
Sweden	408.6	429.2	-5%
France	405.7	439.5	-8%
Belgium	241.0	276.3	-13%
Cyprus	180.7	208.9	-13%
Malta	425.6	504.2	-16%
Netherlands	293.0	376.0	-22%
Croatia	124.0	176.8	-30%
Slovenia	578.9	834.5	-31%
Germany	134.6	201.0	-33%
Denmark	100.7	150.9	-33%
Lithuania	287.3	443.2	-35%
Ireland	257.0	437.1	-41%
United Kingdom	304.3	570.0	-47%
Spain	522.9	1029.0	-49%
Portugal	556.1	1617.2	-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

EU/UK ranked by 14 day incidence (16th February)

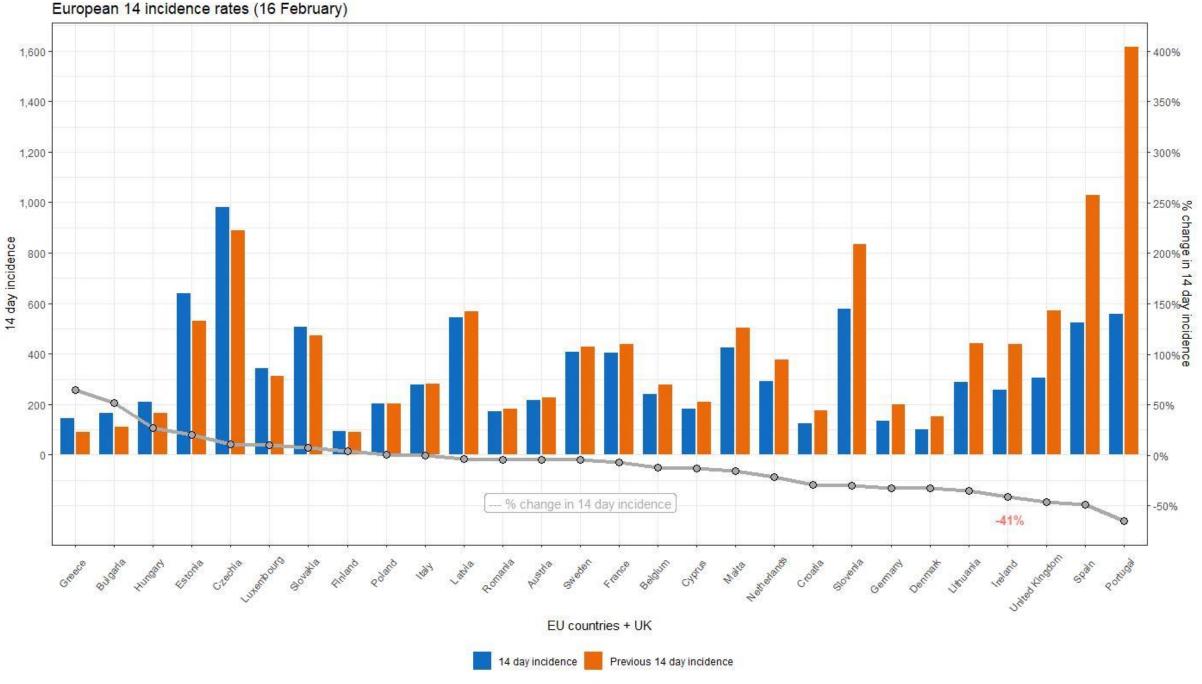
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Czechia	981.8	887.2	11%
Estonia	638.2	530.5	20%
Slovenia	578.9	834.5	-31%
Portugal	556.1	1617.2	-66%
Latvia	544.5	567.7	-4%
Spain	522.9	1029.0	-49%
Slovakia	505.6	472.6	7%
Malta	425.6	504.2	-16%
Sweden	408.6	429.2	-5%
France	405.7	439.5	-8%
Luxembourg	341.7	311.2	10%
United Kingdom	304.3	570.0	-47%
Netherlands	293.0	376.0	-22%
Lithuania	287.3	443.2	-35%
Italy	279.5	281.2	-1%
Ireland	257.0	437.1	-41%
Belgium	241.0	276.3	-13%
Austria	215.1	225.8	-5%
Hungary	210.5	165.8	27%
Poland	202.0	201.9	0%
Cyprus	180.7	208.9	-13%
Romania	172.8	181.1	-5%
Bulgaria	166.2	109.7	52%
Greece	145.7	88.8	64%
Germany	134.6	201.0	-33%
Croatia	124.0	176.8	-30%
Denmark	100.7	150.9	-33%
Finland	95.0	91.4	4%

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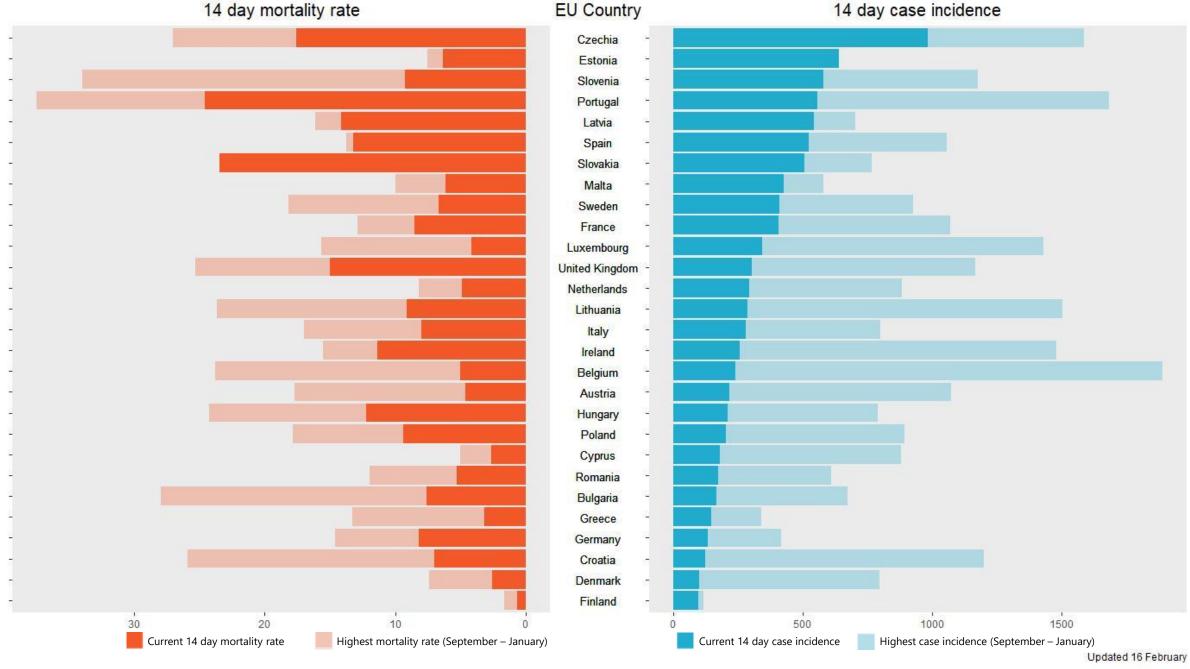
EU/UK ranked by 7 day percentage change (16th February)

EU/EEA and the UK	7 day incidence	Previous 7 day	% change in 7 day incidence
Malta	233.7		•
Estonia	349.4		
Hungary	112.7		
Sweden	214.8		
Poland	105.7	96.4	10%
Bulgaria	86.9	79.4	9%
Czechia	509.1	472.7	8%
Austria	111.5	103.6	8%
Greece	75.2	70.5	7%
Slovenia	296.1	282.7	5%
Netherlands	147.9	145.1	2%
Slovakia	254.4	251.2	1%
Finland	47.7	47.3	1%
Italy	139.4	140.1	-1%
Romania	86.0	86.8	-1%
Lithuania	141.2	146.1	-3%
France	198.0	207.7	-5%
Ireland	125.0	132.0	-5%
Luxembourg	166.1	175.6	-5%
Denmark	47.8	52.9	-10%
Cyprus	85.4	95.3	-10%
Latvia	256.0	288.5	-11%
Belgium	111.1	130.0	-15%
Germany	60.5	74.0	-18%
Croatia	54.6	69.4	-21%
United Kingdom	127.5	176.8	-28%
Spain	194.3	328.6	-41%
Portugal	177.1	379.0	-53%

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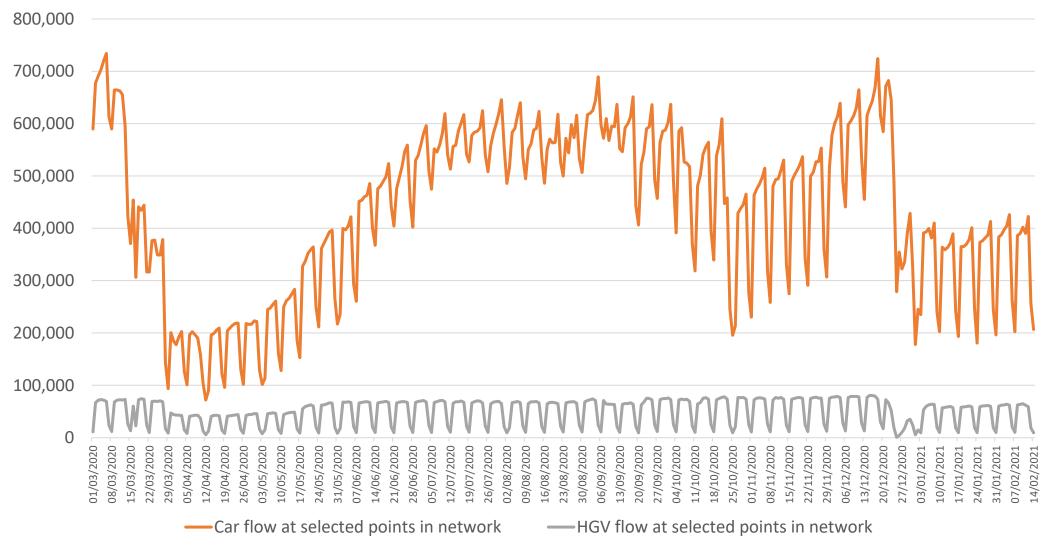
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Compliance Data

Daily Traffic Flow







Overall Public Transport daily passengers

