Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on   23/12/2021

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 09/12/2021 up to midnight on 22/12/2021

In anticipation of large volumes of case numbers and potential processing delays over the coming period, from 22/12/2021 the daily case number announced will be based on positive SARS CoV-2 results uploaded to the HSE COVID Care Tracker the preceding day. These data are provisional and do not represent notified cases. HPSC and surveillance partners will continue to notify and process cases and outbreaks of COVID-19 on CIDR over this period and full reporting from CIDR will recommence in the New Year.

	Number	Percent
Total number of confirmed cases	65,870	
National incidence of confirmed cases per 100,000	1383.3	
Number of cases hospitalised*	533	0.81
Number of cases admitted to ICU*	22	0.03
Number of cases in healthcare workers	349	0.53
% where HCW is known	-	3.3
Number of cases associated with clusters**	715	1.09
Males	32,647	49.6
Females	33,145	50.3
M:F ratio	0.98	
Median age (years)	30	
Mean age (years)	31	
Age range (years)	0-101	

* The number of cases hospitalised and admitted to ICU described in the above table relate only to COVID-19 cases who were notified during this reporting period, and where the outcome is known at the time of reporting. It does not reflect all hospitalisations and ICU admissions related to COVID-19 which occurred during the period covered by the report. It also does not reflect the final number of cases hospitalised or admitted to ICU for these cases notified during this period as the outcome may not yet have occurred, or is yet to be notified.

**Cases may be associated with outbreaks notified outside the timeframe of this report from 09/12/2021 up to midnight on 22/12/2021. Also, this is likely an underestimate of cases associated with clusters as Departments of Public Health are prioritising Public Health Risk Assessments and outbreak investigations in settings that have the greatest clinical need or would benefit most from Public Health intervention.

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 09:00 on 23/12/2021 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.
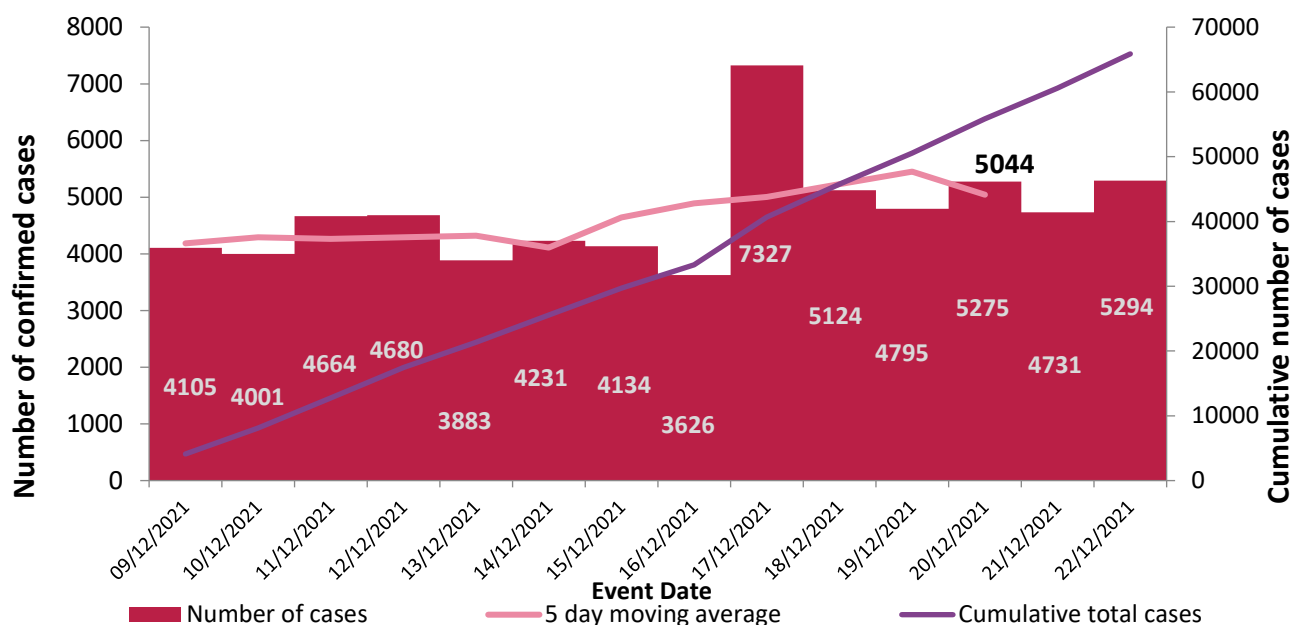
Figure 1a. Daily number* and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date (n=65870)

*Changes in the timeliness of the processing steps on CIDR can lead to day to day variations in the number of daily cases. Using epidemiological date (figure 1b), or analysing over a longer time period such as a week or 14 days (figure 2), smooths out any variations introduced by processing times, and provide a more accurate picture of the trend.

Please see Epidemiology of COVID-19 in Ireland Frequently Asked Questions (https://www.hpsc.ie/a-z/respiratory/coronavirus/novelcoronavirus/surveillance/epidemiologyfrequentlyaskedquestions/) and the weekly epidemiological report (https://www.hpsc.ie/a-z/respiratory/coronavirus/novelcoronavirus/surveillance/epidemiologyofcovid-19inirelandweeklyreports/) for further detail and analyses.
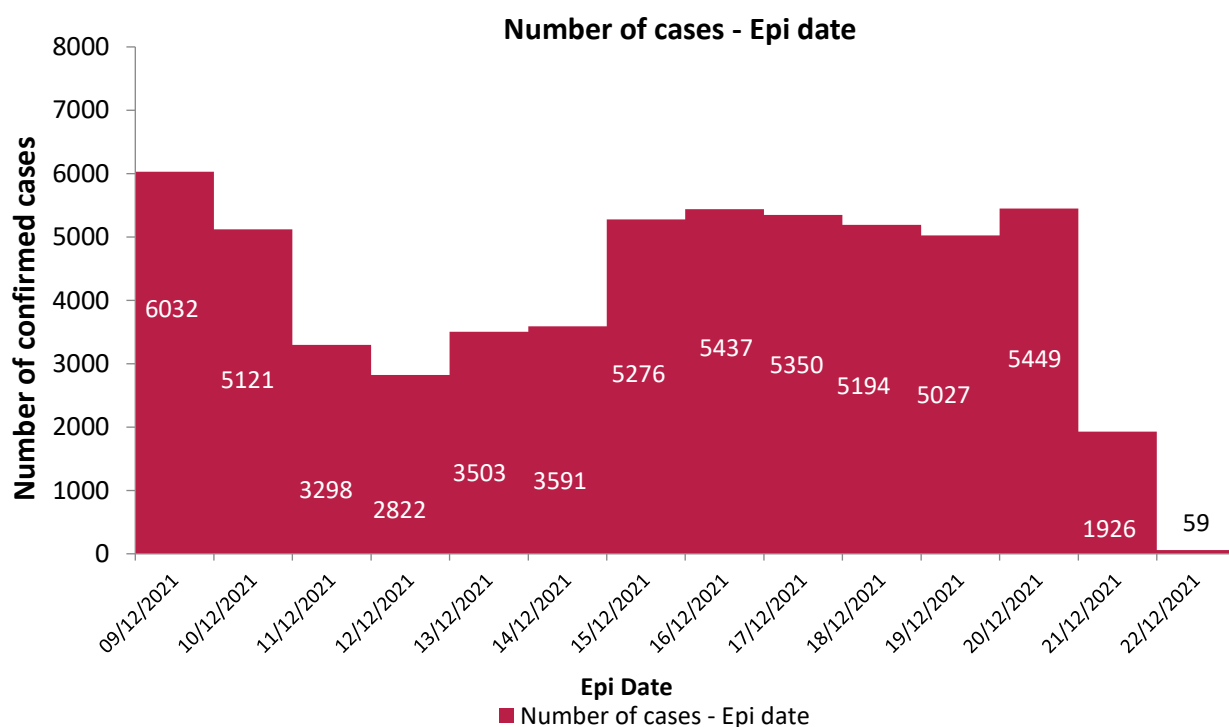

Figure 1b. Daily number of confirmed cases of COVID-19, by epidemiological date*

*Epidemiological date is based on the earliest of dates available on the case and taken from date of onset of symptoms, date of diagnosis, laboratory specimen collection date, laboratory received date, laboratory reported date or event creation date/notification date on CIDR.

Table 1: Age and sex of characteristics of confirmed COVID-19 cases notified in Ireland from 09/12/2021 up to midnight on 22/12/2021

Characteristic		Number of cases	Percent
Total number of confirmed cases		65,870	**100**
Sex	Male	32,647	49.6
	Female	33,145	50.3
	Unknown	78	0.1
Age	Median age (years)	30	
	Mean age (years)	31	
	Age range (years)	0-101	
	0-4 yrs	3176	4.8
	5-12 yrs	9479	14.4
	13-18 yrs	4026	6.1
	19-24 yrs	7708	11.7
	25-34 yrs	13664	20.7
	35-44 yrs	12533	19.0
	45-54 yrs	8014	12.2
	55-64 yrs	4813	7.3
	65-74 yrs	1779	2.7
	75-84 yrs	458	0.7
	85+ yrs	217	0.3
	Unknown	3	
	Total	65,870	

Table 2: Symptom and healthcare worker status of confirmed COVID-19 cases notified in Ireland from 09/12/2021 up to midnight on 22/12/2021

Characteristic		Number of cases	Percent	Percent where known
Total number of confirmed cases		65,870	**100**	
Symptom status at time of test*	Yes	9138	13.9	99.9
	No	11	0.0	0.1
	Unknown	56,721	86.1	
	Total cases where known	9149		
Healthcare worker	Yes	349	0.5	3.3
	No	10246	15.6	96.7
	Unknown	55,275	83.9	
	Total cases where known	10595		

*Symptom status is recorded at the time of test and is not updated, therefore a proportion of the asymptomatic cases may subsequently develop symptoms however this will not be captured in the data.
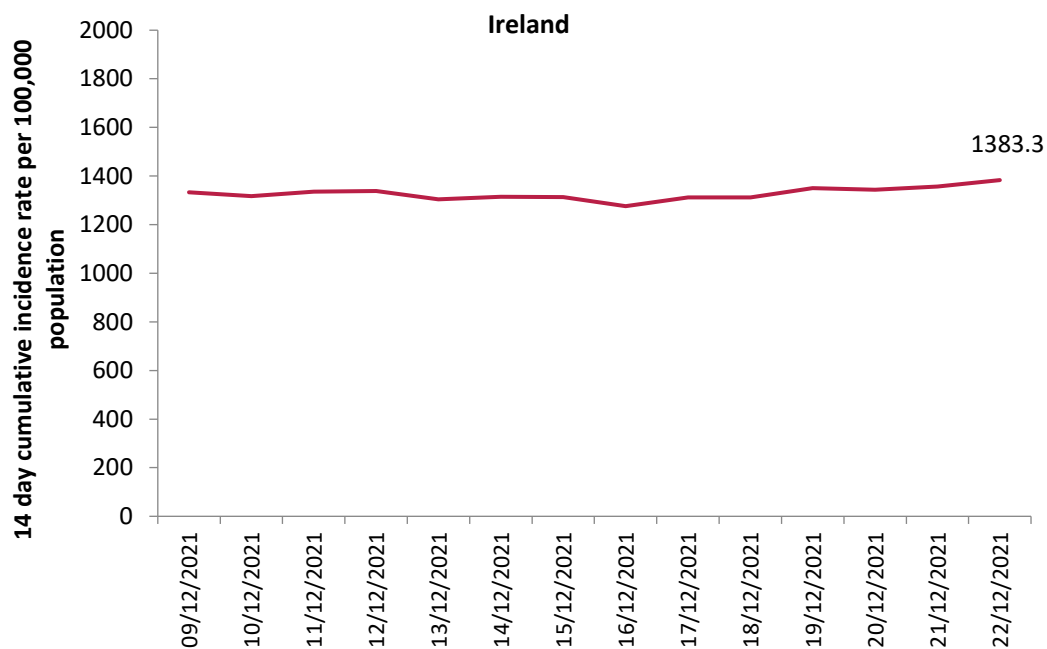
Figure 2: 14 day cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 by notification date in Ireland from 09/12/2021 up to midnight on 22/12/2021

14 day incidence rates per 100,000 populations of confirmed cases of COVID-19 for individual counties can be found in appendix 1 of this report

Table 3: Number of confirmed COVID-19 cases by county notified in Ireland from 09/12/2021 up to midnight on 22/12/2021, 7 day numbers are reported from 16/12/2021 up to midnight on 22/12/2021

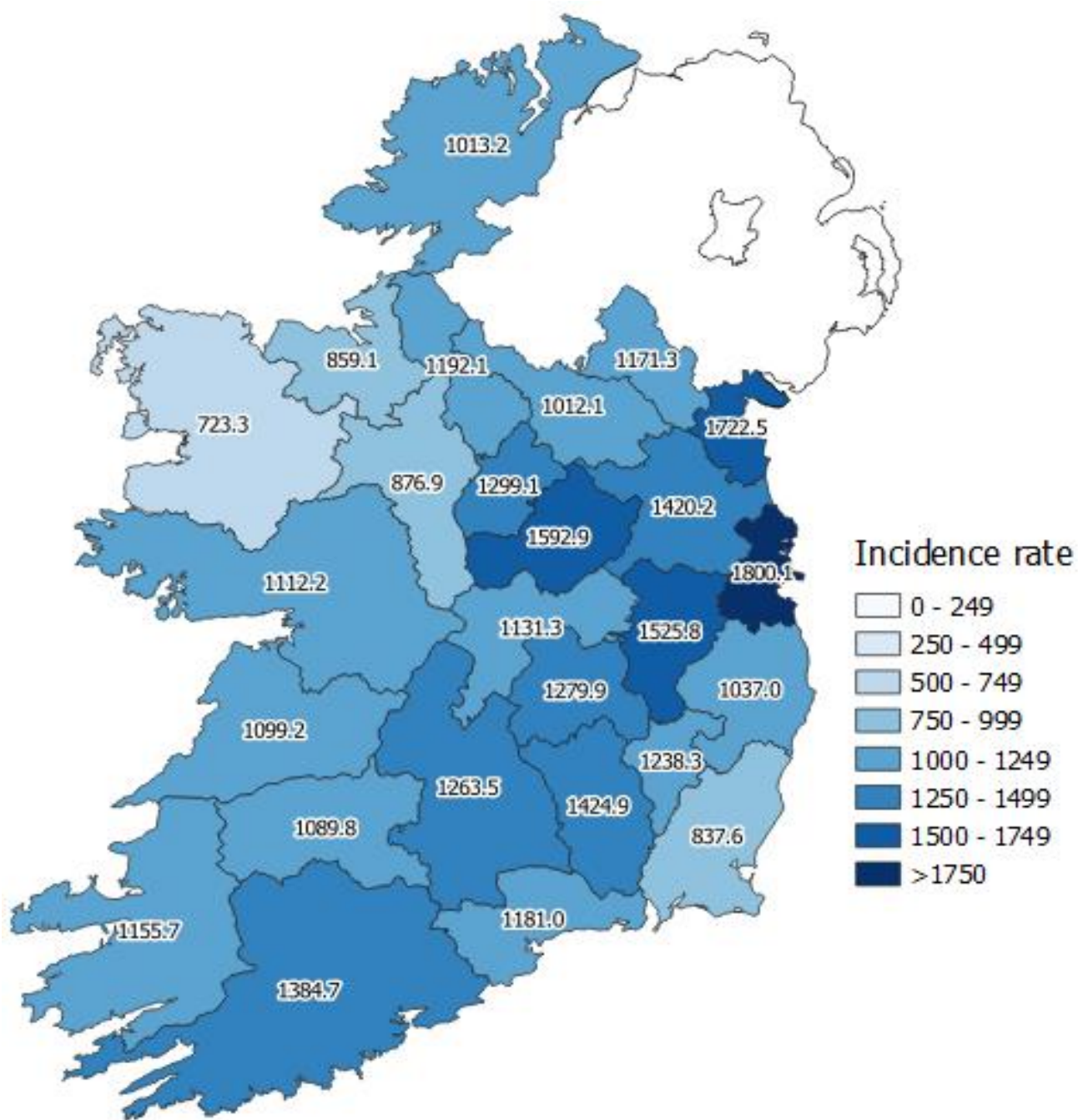| County	Number of confirmed cases in last 7 days	7-day Incidence per 100,000 population	Number of confirmed cases in last 14 days	14-day Incidence per 100,000 population	7 day incidence rate as a percentage of 14 day rate	5 day moving average of confirmed cases (18/12/2021 - 22/12/2021)
Louth	1,394	1081.6	2220	1722.5	62.79	208
Dublin	13,739	1019.7	24254	1800.1	56.65	1950
Westmeath	826	930.5	1414	1592.9	58.42	134
Kildare	1,839	826.5	3395	1525.8	54.17	263
Longford	336	822.1	531	1299.1	63.28	48
Kilkenny	806	812.2	1414	1424.9	57.00	103
Meath	1,584	812.1	2770	1420.2	57.18	214
Cork	3,770	694.5	7517	1384.7	50.15	484
Monaghan	426	694.0	719	1171.3	59.25	62
Leitrim	219	683.4	382	1192.1	57.33	29
Tipperary	1,075	673.8	2016	1263.5	53.32	144
Carlow	363	637.6	705	1238.3	51.49	40
Clare	745	627.0	1306	1099.2	57.04	106
Cavan	475	623.6	771	1012.1	61.61	67
Galway	1,591	616.5	2870	1112.2	55.44	224
Laois	522	616.3	1084	1279.9	48.15	65
Wicklow	843	591.9	1477	1037.0	57.08	125
Limerick	1,142	585.9	2124	1089.8	53.77	158
Waterford	676	581.9	1372	1181.0	49.27	80
Offaly	452	579.8	882	1131.3	51.25	64
Donegal	883	554.7	1613	1013.2	54.74	138
Kerry	814	551.1	1707	1155.7	47.69	114
Roscommon	351	543.8	566	876.9	62.01	49
Sligo	322	491.3	563	859.1	57.19	47
Mayo	490	375.5	944	723.3	51.91	69
Wexford	489	326.6	1254	837.6	39.00	59
Unknown/Other						
Total	**36,172**	**759.6**	**65870**	**1383.3**	**54.91**	**5044**

Figure 3: Cumulative incidence rates of confirmed COVID-19 cases per 100,000 population by county notified in Ireland between 09/12/2021 up to midnight on 22/12/2021
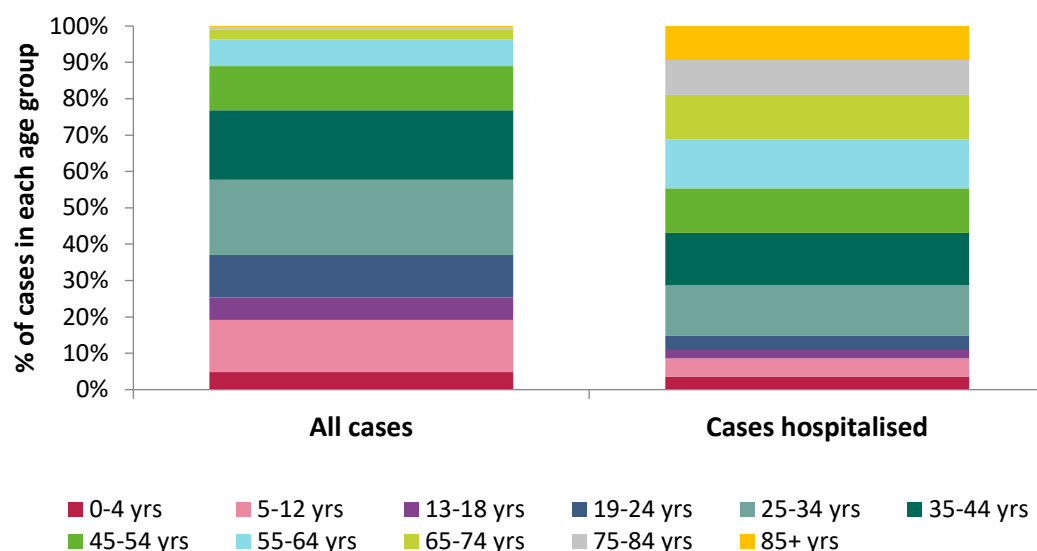
Figure 4: Percentage of confirmed cases of COVID-19 notified in Ireland from 09/12/2021 up to midnight on 22/12/2021,in each age group, all cases, and cases admitted to hospital *

Table 4: Cumulative number of confirmed cases of COVID-19 notified in Ireland from 09/12/2021 up to midnight on 22/12/2021,by age group, hospitalisation and ICU admission*

Age Group (years)	Number of cases (n)	Number of cases (%)	Cases hospitalised (n)	Cases hospitalised (%)	Cases admitted to ICU (n)	Cases admitted to ICU (%)
0-4 yrs	3176	4.8	19	3.6	<5	-
5-12 yrs	9479	14.4	27	5.1	0	0.0
13-18 yrs	4026	6.1	12	2.3	0	0.0
19-24 yrs	7708	11.7	21	3.9	<5	-
25-34 yrs	13664	20.7	74	13.9	0	0.0
35-44 yrs	12533	19.0	77	14.4	0	0.0
45-54 yrs	8014	12.2	65	12.2	7	31.8
55-64 yrs	4813	7.3	72	13.5	6	27.3
65-74 yrs	1779	2.7	65	12.2	6	27.3
75-84 yrs	458	0.7	51	9.6	<5	-
85+ yrs	217	0.3	50	9.4	0	0.0
Unknown	3	0.0	0	0.0	0	0.0
Total	**65870**	**100**	**533**	**100**	**22**	**100**

* The number of cases hospitalised and admitted to ICU described in the above table relate only to COVID-19 cases who were notified during this reporting period, and where the outcome is known at the time of reporting. It does not reflect all hospitalisations and ICU admissions related to COVID-19 which occurred during the period covered by the report. It also does not reflect the final number of cases hospitalised or admitted to ICU for these cases notified during this period as the outcome may not yet have occurred, or is yet to be notified.

Table 5: Daily number of confirmed COVID-19 cases notified in Ireland from 09/12/2021 up to midnight on 22/12/2021

Date	Number of confirmed cases
09/12/2021	4105
10/12/2021	4001
11/12/2021	4664
12/12/2021	4680
13/12/2021	3883
14/12/2021	4231
15/12/2021	4134
16/12/2021	3626
17/12/2021	7327
18/12/2021	5124
19/12/2021	4795
20/12/2021	5275
21/12/2021	4731
22/12/2021	5294
Total	**65,870**

Acknowledgements

1. Data Source

Data are based on statutory notifications and were extracted from Computerised Infectious Disease Reporting (CIDR) system. Data are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.

2. Population data

Population data were taken from Census 2016. Data were aggregated into the following age groups for the analysis: 0-4 years, 5-12 years, 13-18 years, 19-24 years, 25-34 years, 35-44 years, 45-54 years, 55-64 years, 65-74 years, 75-84 years and ≥ 85 years.

3. Epidemiological date

The epi-date is the epidemiological date for a case. It is based on the earliest of dates available on the case and taken from date of onset of symptoms, date of diagnosis, laboratory specimen collection date, laboratory received date, laboratory reported date or event creation date/notification date on CIDR. By using this date rather than event creation/ notification date, adjusts for any delays in testing/notification.

Appendix 1

Figure A. 14 day cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 by county (09/12/2021 to 22/12/2021)

Galway

1112.2

Kerry

1155.7

Kildare

1525.8

Kilkenny

1424.9

Laois

1279.9

Leitrim

1192.1

Limerick

1089.8

Longford

1299.1

Report prepared by Health Protection Surveillance Centre on 23/12/2021

Louth

1722.5

Mayo

723.3

Meath

1420.2

Monaghan

1171.3

Offaly

1131.3

Roscommon

876.9

Sligo

859.1

Tipperary

1263.5

Waterford

1181

Westmeath

1592.9

Wexford

837.6

Wicklow

1037