



Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 04/01/2021

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 21/12/2020 up to midnight 03/01/2021

	Number	Percent
Total number of confirmed cases	27,754	
National incidence of confirmed cases per 100,000 population	582.84	
Number of cases hospitalised*	684	2.46
Number of cases admitted to ICU*	12	0.04
Number of deaths among confirmed cases	37	0.13
Case fatality ratio (CFR, %)	0.13	
National incidence of confirmed deaths per 100,000 population	0.78	
Number of cases** associated with clusters	950	3.42
Number of imported cases	13	0.05
Number of cases in healthcare workers	463	1.67
Males	13,480	48.57
Females	14,210	51.2
M:F ratio	0.95	
Median age (years)	35	
Mean age (years)	38	
Age range (years)	0 - 102	

* The number of cases hospitalised and admitted to ICU relate only to events notified in the last 14 days and do not include cases notified prior to this and admitted to hospital or ICU in the last 14 days

**Cases may be associated with outbreaks notified outside the timeframe of this report
21/12/2020 - 03/01/2021

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 09:43 on 04/01/2021 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.

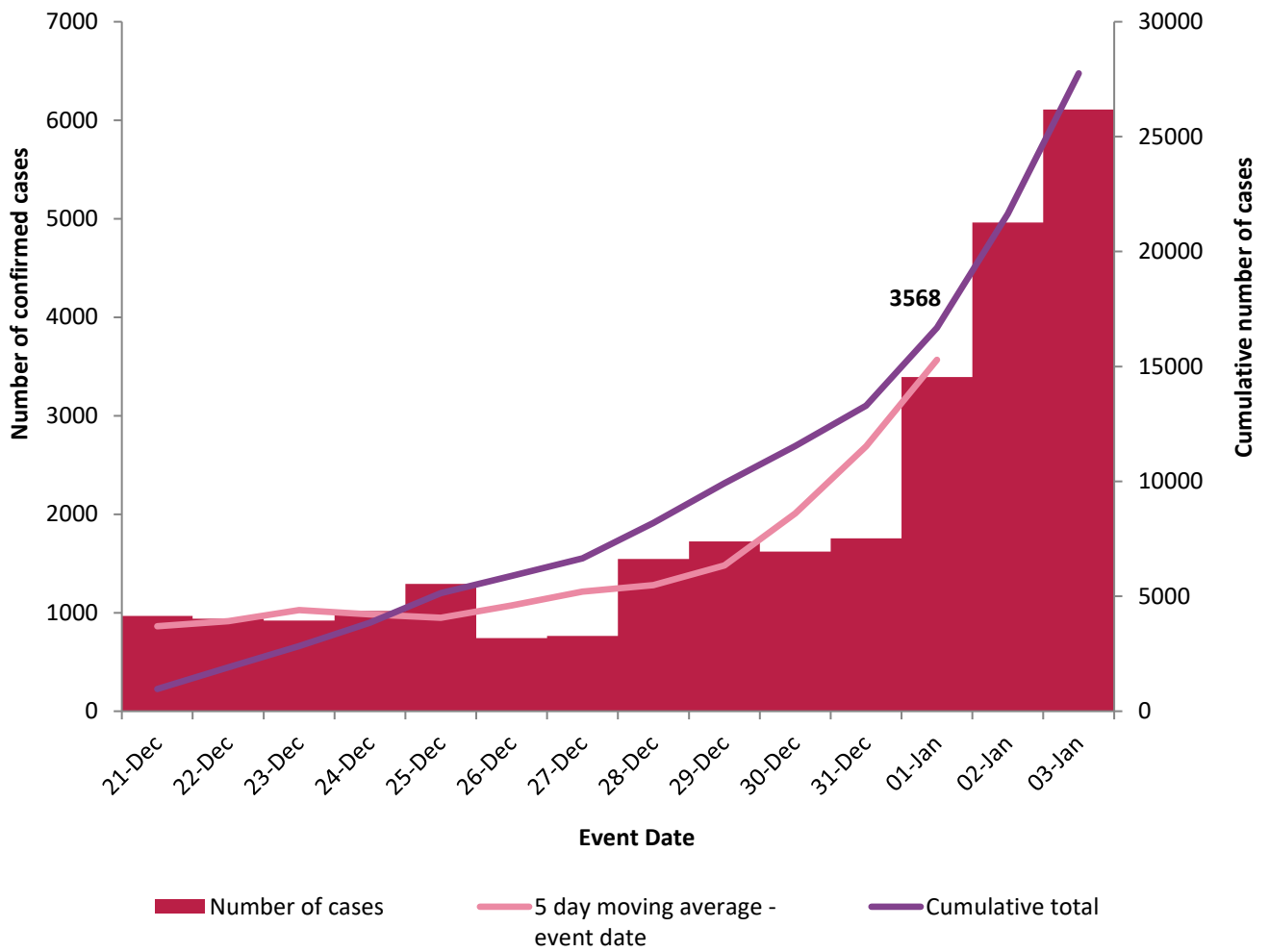


Figure 1. Daily number and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date (n=27,754)

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 21/12/2020 up to midnight on 03/01/2021

Characteristic		Number of cases	Percent
Total number of confirmed cases		27,754	100
Sex	Male:Female ratio	0.95	
	Male	13,480	48.57
	Female	14,210	51.2
	Unknown	64	0.23
Age	Median age (years)	35	
	Mean age (years)	38	
	Age range (years)	0 - 102	
	0-4 yrs	736	2.65
	5-12 yrs	1,303	4.69
	13-18 yrs	1,666	6
	19-24 yrs	4,417	15.91
	25-34 yrs	5,563	20.04
	35-44 yrs	4,241	15.28
	45-54 yrs	3,918	14.12
	55-64 yrs	3,253	11.72
	65-74 yrs	1,490	5.37
	75-84 yrs	730	2.63
	85+ yrs	433	1.56
	Unknown	4	0.01
Underlying clinical conditions	Yes	961	3.46
	No	3,179	11.45
	Unknown	23,614	85.08
Symptom status at time of test*	Yes	3,074	11.08
	No	984	3.55
	Unknown	23,696	85.38

*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.

Note: Due to the surge in COVID-19 cases in recent days, data on underlying conditions and symptoms are incomplete

Table 2: Number of confirmed COVID-19 cases by community healthcare organisation (CHO) notified in Ireland from 21/12/2020 to midnight 03/01/2021

CHO Area	Number of confirmed cases	Incidence per 100,000 population
CHO1	3,079	786.9
CHO2	2200	485.5
CHO3	2772	720.0
CHO4	3,230	467.7
CHO5	2,172	425.6
CHO6	2584	674.4
CHO7	3,548	501.3
CHO8	3,667	592.1
CHO9	4,498	723.8
Unknown	4	
Total	27,754	582.8

Table 3: Number of confirmed COVID-19 cases by county notified in Ireland from 21/12/2020 to midnight 03/01/2021

County	Number of confirmed cases	Incidence per 100,000 population
Monaghan	687	1119.1
Louth	1329	1031.2
Limerick	1908	979.0
Donegal	1325	832.3
Dublin	9323	691.9
Sligo	441	672.9
Cavan	509	668.2
Mayo	862	660.5
Kilkenny	519	523.0
Meath	1020	523.0
Kerry	772	522.7
Wexford	757	505.6
Laois	419	494.7
Clare	580	488.1
Carlow	268	470.7
Longford	189	462.4
Offaly	356	456.6
Cork	2459	453.0
Galway	1076	417.0
Waterford	482	414.9
Kildare	920	413.5
Roscommon	262	405.9
Westmeath	325	366.1
Leitrim	117	365.1
Tipperary	460	288.3
Wicklow	389	273.1
Total	27,754	582.8

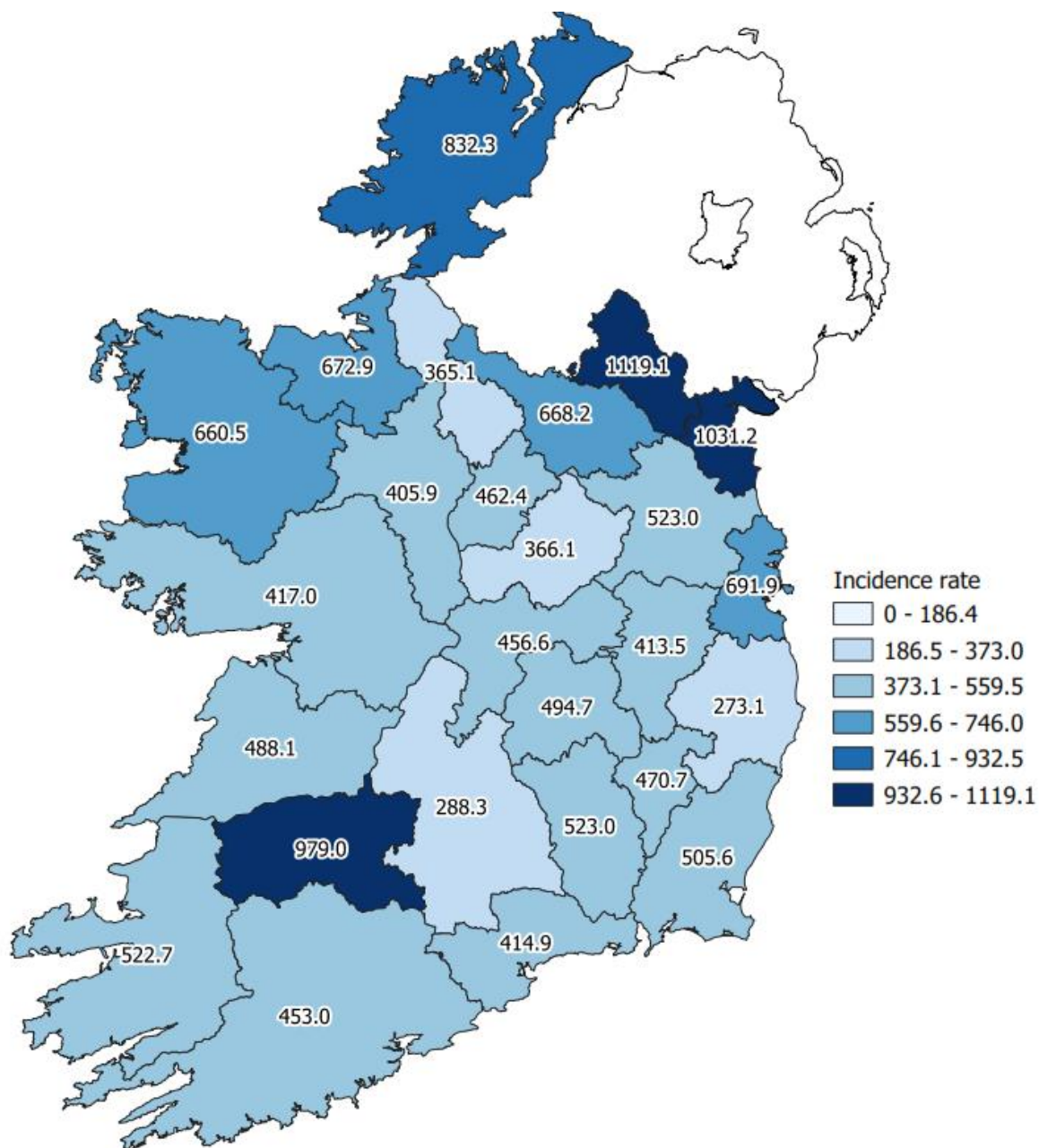


Figure 2: Cumulative incidence rates of confirmed COVID-19 cases per 100,000 population by county notified in Ireland between 21/12/2020 and 03/01/2021

Please do not directly compare county shades to previous maps. The categories listed will change as the number of cases change, which may result in changes to the map shading.

Table 4: Number and incidence of confirmed COVID-19 cases by Dublin Local Health Offices* (LHOs) notified in Ireland with a notification date between 21/12/2020 and 03/01/2020

CCA	Local Health Office	Number of cases in past 14 days based on notification date	14 day incidence rates based on notification dates
CCA1	Dublin South	715	525.4
CCA2	Dublin South East	1493	1206.9
CCA3	Dublin South City	796	530.9
CCA4	Dublin South West	945	587.3
CCA5	Dublin West	875	563.3
CCA6	Dublin North West	1606	773.3
CCA7	Dublin North Central	1480	957.4
CCA8	Dublin North	1412	544.9
	Unknown	1	
	Dublin	9323	691.9

Note: Local health offices (LHOs) came into operation on 1st September 2005, replacing Community Care Areas (CCAs). LHO population denominators are used in this report rather than CCA population denominators. The LHO rates were calculated using Census 2016 LHO denominator data extracted from the HSE Health Atlas and are not a direct match to the corresponding CCAs.

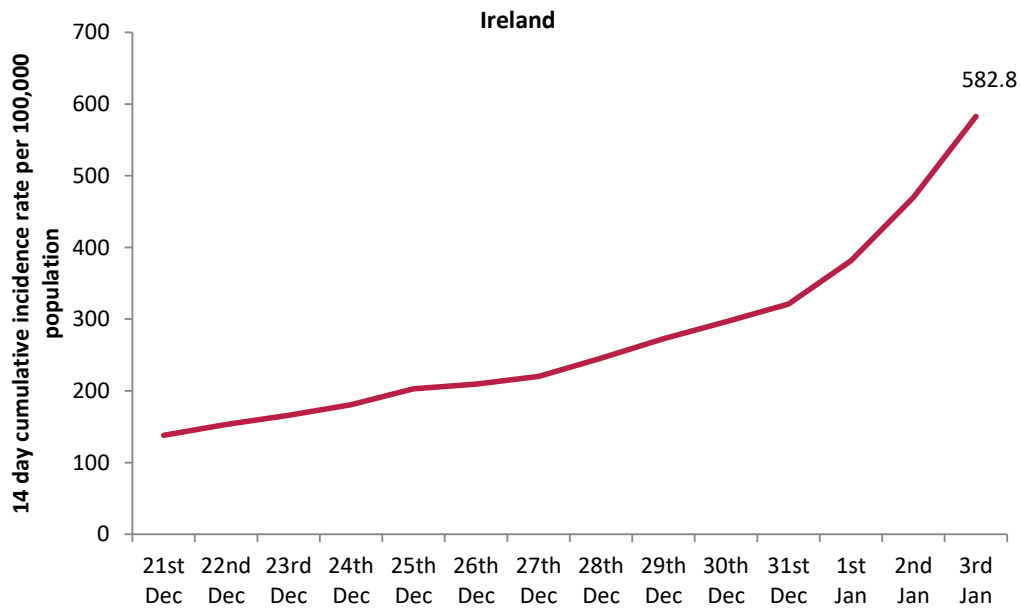


Figure 3: 14 day cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 in Ireland (21/12/2020 to 03/01/2021)

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 5: Number of confirmed COVID-19 cases by most likely transmission source notified from 21/12/2020 to midnight 03/01/2021

Most likely transmission source*	Number of cases	Percent
Travel related**	72	0.26%
Close contact with a known confirmed case	2137	7.70%
Healthcare setting acquired: patient	93	0.34%
Healthcare setting acquired: staff	189	0.68%
Community transmission	1203	4.33%
Under investigation	24060	86.69%
Total	27,754	100.00%

*Due to the surge in COVID-19 cases in recent days, data on most likely transmission source are incomplete

**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

Table 6: Cumulative number of confirmed cases of COVID-19 notified in Ireland from 21/12/2020 to midnight 03/01/2021 by age group, hospitalisation and ICU admission*

Age Group (years)	Number of cases (n)	Cases hospitalised (n)	Cases hospitalised (%)	Cases admitted to ICU (n)	Cases admitted to ICU (%)
0-4 yrs	736	9	1.32	0	0
5-12 yrs	1304	7	1.02	0	0
13-18 yrs	1666	17	2.49	0	0
19-24 yrs	4417	44	6.44	0	0
25-34 yrs	5563	76	11.13	3	25.00
35-44 yrs	4241	65	9.52	0	0
45-54 yrs	3918	81	11.86	1	8.33
55-64 yrs	3253	75	10.98	3	25
65-74 yrs	1490	92	13.47	5	41.67
75-84 yrs	729	129	18.89	0	0
85+ yrs	433	88	12.88	0	0
Unknown	4	0	0	0	0
Total	27,754	683	100	12	100

* The number of cases hospitalised and admitted to ICU relate only to events notified in the last 14 days and do not include cases notified prior to this and admitted to hospital or ICU in the last 14 days

Acknowledgements

Sincere thanks are extended to all those who are participating in the collection of data and reporting of data used in these reports. This includes the HSE COVID-19 Contact Management Programme (CMP), staff in ICU units, notifying clinicians, laboratory staff, public health doctors, nurses, surveillance scientists, microbiologists and administrative staff.

Report prepared by COVID-19 Epidemiology Team, HPSC

Technical Notes

1. Data Source

Data are based on statutory notifications and were extracted from Computerised Infectious Disease Reporting (CIDR) system at 09:43 on 04/01/2021. 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. Epidemiological date

Epidemiological date is derived from the earliest of onset date, date of diagnosis, laboratory specimen collection date, laboratory received date, laboratory reported date and event creation/notification date.

3. Population data

Population data were taken from Census 2016. Data were aggregated into the following age groups for the analysis: 0-4 years, 5-14 years, 15-24 years, 25-34 years, 35-44 years, 45-54 years, 55-64 years, 65-74 years, 75-84 years and ≥ 85 years.

3. Transmission classification

Transmission classification is based on country of infection as well as enhanced exposure data (international travel; close contact of a case) recorded in CIDR. Transmission is classified as 'unknown' due to incomplete data on CIDR.

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.

WHO definition of transmission classification is specified below:

- Community transmission is evidenced by the inability to relate confirmed cases through chains of transmission for a large number of cases, or by increasing positive tests through routine screening of sentinel samples.
- Local transmission indicates locations where the source of infection is within the reporting location.
- Imported cases only indicates locations where all cases have been acquired outside the location of reporting.

4. HSE areas

The counties covered by each HSE area are as follows:

- HSE East (E): Dublin, Kildare & Wicklow;
- HSE Midlands (M): Laois, Longford, Offaly & Westmeath;
- HSE Midwest (MW): Clare, Limerick & N. Tipperary;
- HSE Northeast (NE): Cavan, Louth, Meath & Monaghan;
- HSE Northwest (NW): Donegal, Leitrim & Sligo;
- HSE South (S): Kerry & Cork;
- HSE Southeast (SE): Carlow, Kilkenny, S. Tipperary, Waterford & Wexford;
- HSE West (W): Galway, Mayo & Roscommon.

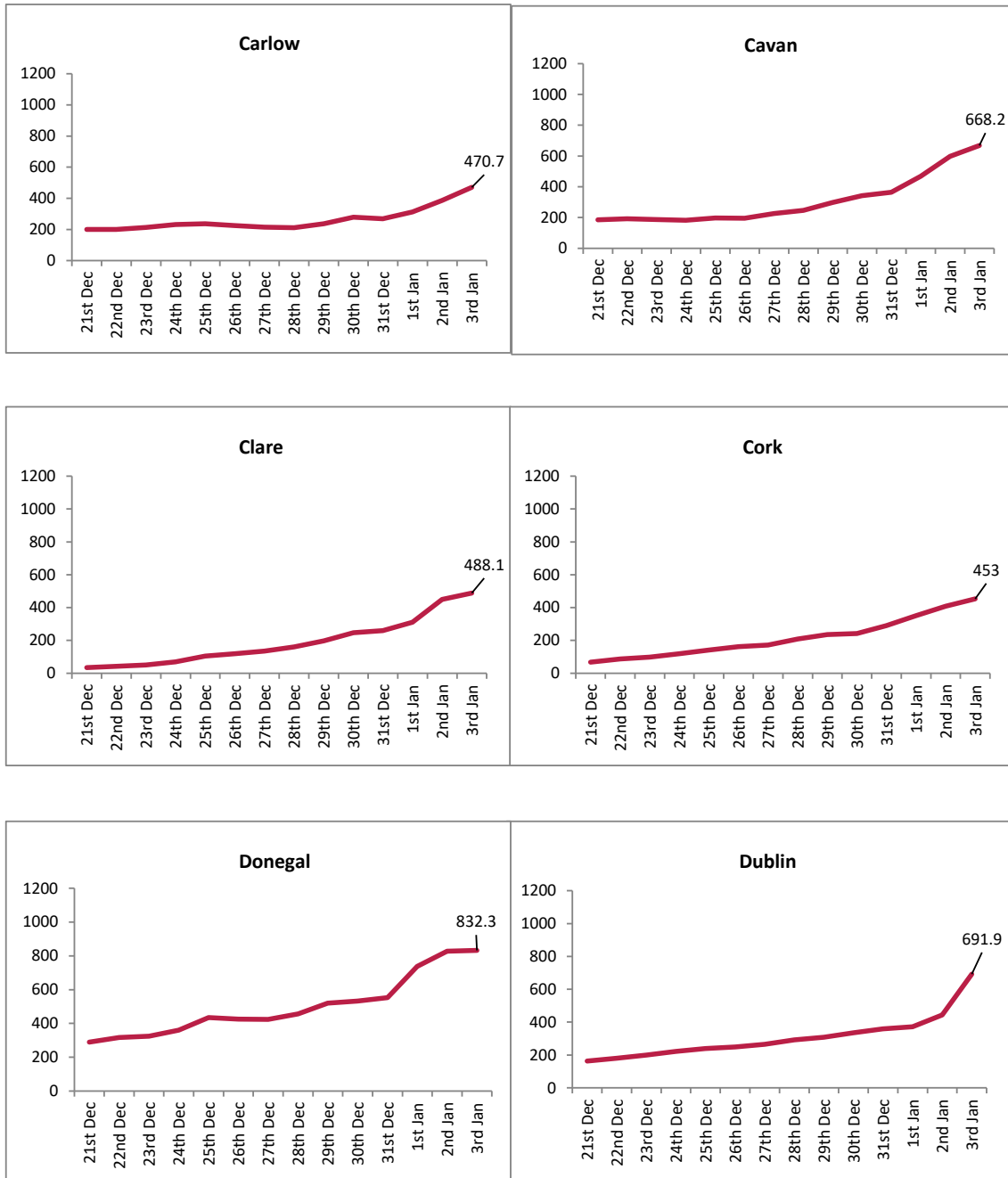
5. Outbreak location

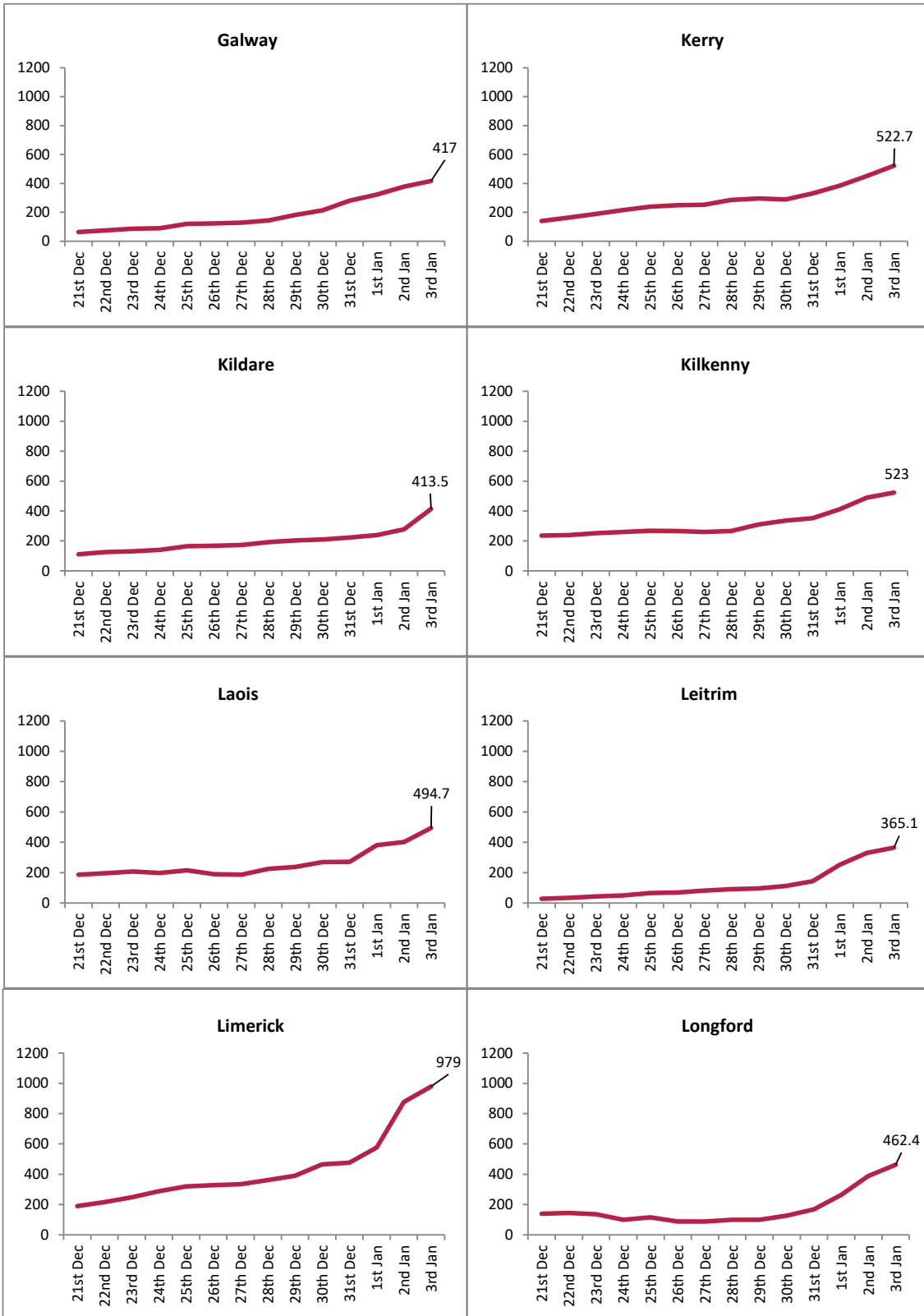
Where an outbreak location is reported as a residential facility (RF) this includes nursing homes, community hospitals, long-stay units and residential institutions including mental health facilities, prisons and direct provision centres.

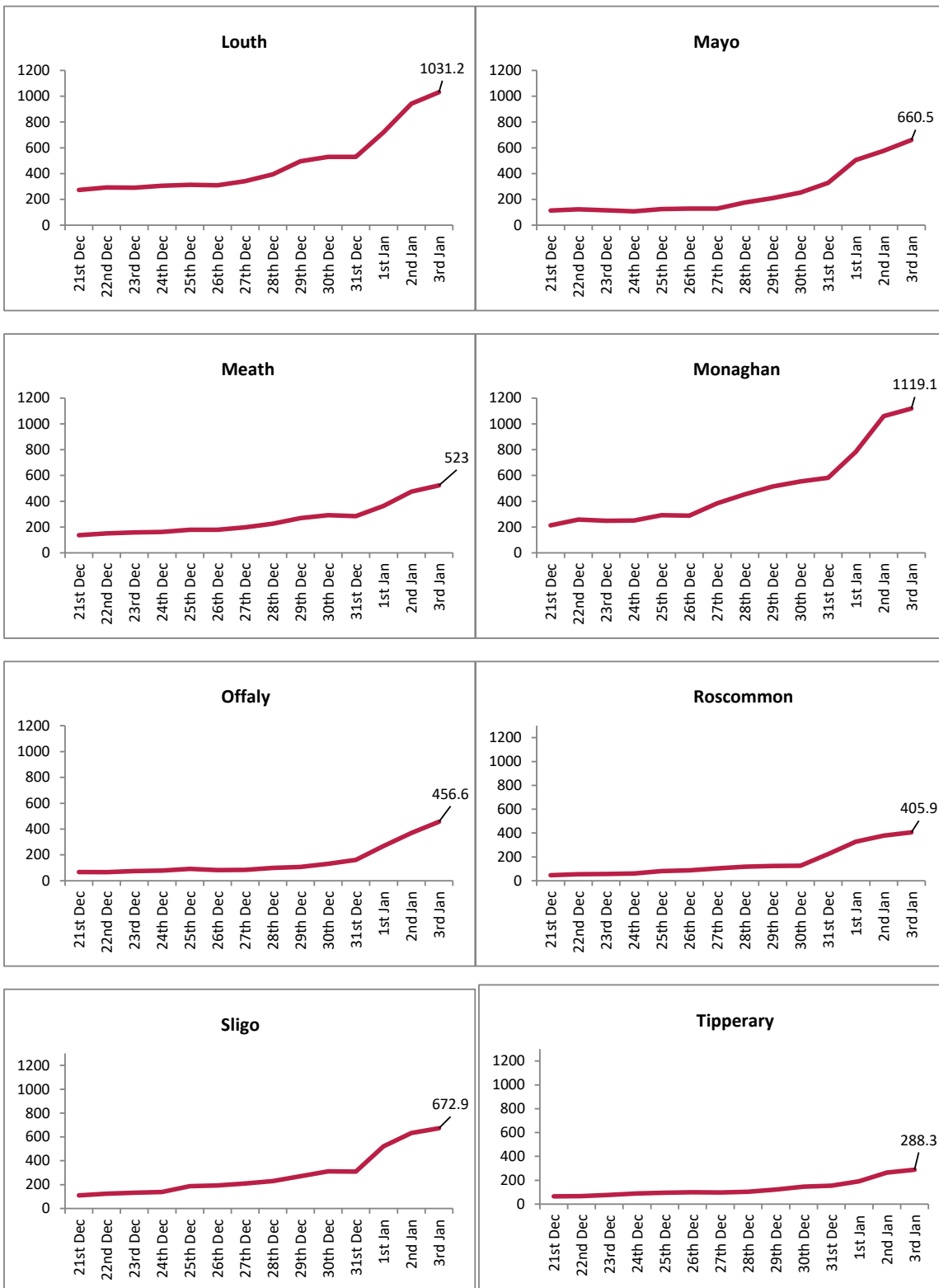
Other outbreak location includes community, extended family, hotel, public house, retail outlet, travel related and all other locations.

Appendix 1

Figure A. 14 day cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 by county (21/12/2020 to 03/01/2021)







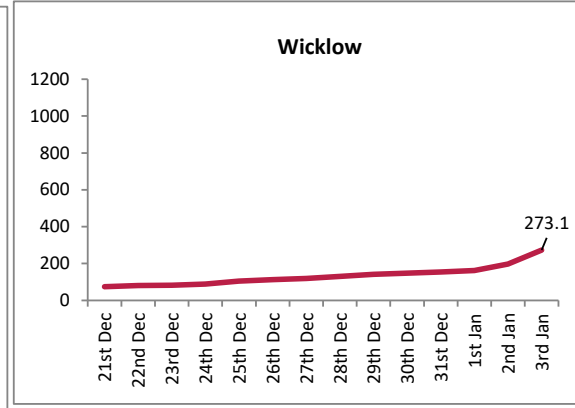
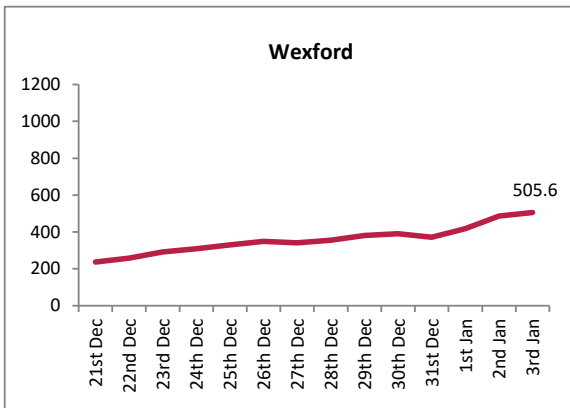
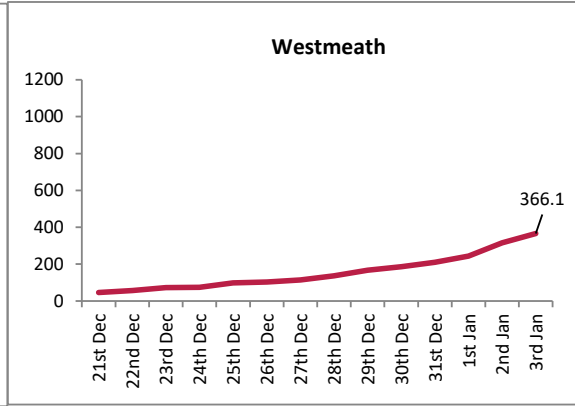
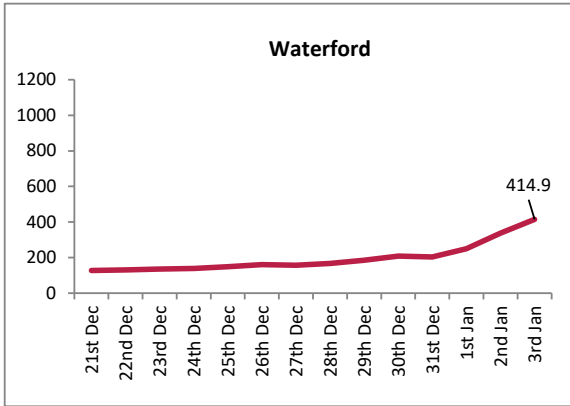


Figure B. 14 day cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 by Dublin CCA (21/12/2020 to 03/01/2021)

