



Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 24/12/2020

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 10/12/2020 up to midnight 23/12/2020

	Number	Percent
Total number of confirmed cases	7,906	
National incidence of confirmed cases per 100,000 population	166.03	
Number of cases hospitalised*	351	4.44
Number of cases admitted to ICU*	12	0.15
Number of deaths among confirmed cases	19	0.24
Case fatality ratio (CFR, %)	0.24	
National incidence of confirmed deaths per 100,000 population	0.4	
Number of cases** associated with clusters	1,706	21.58
Number of imported cases	19	0.24
Number of cases in healthcare workers	746	9.44
Males	3,846	48.65
Females	4,033	51.01
M:F ratio	0.95	
Median age (years)	36	
Mean age (years)	37	
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
10/12/2020 - 23/12/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 11:08 on 24/12/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.

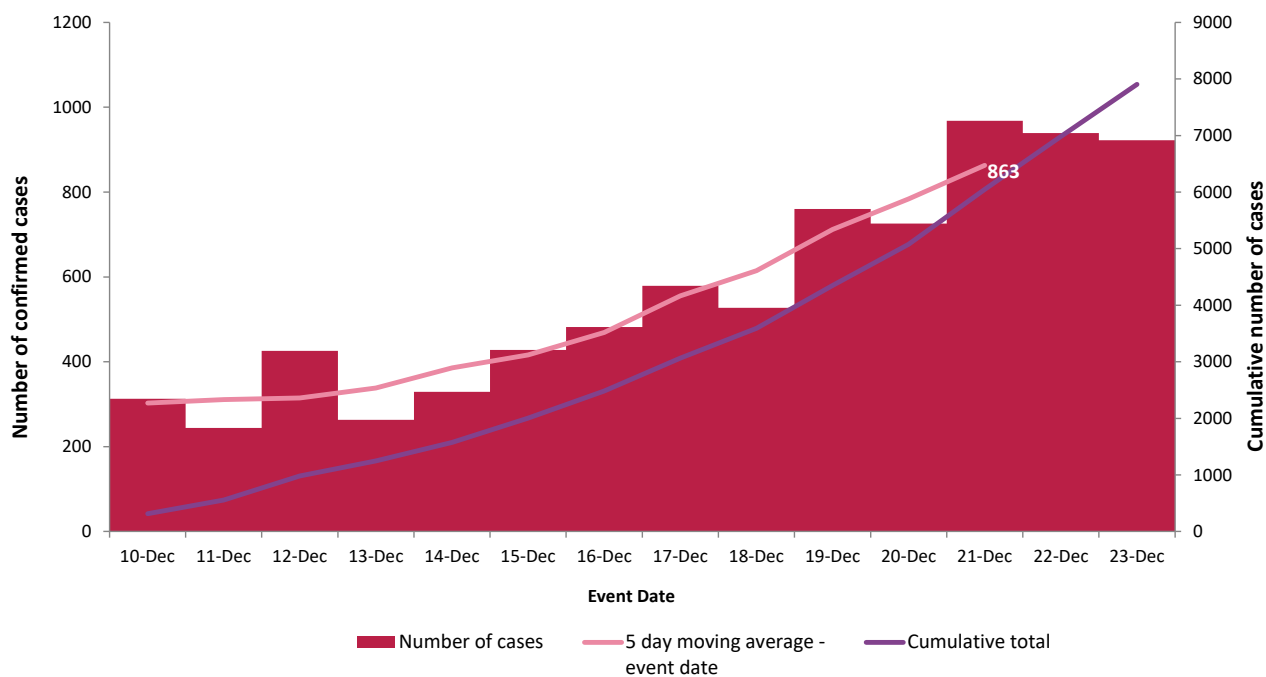


Figure 1. Daily number and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date (n=7,906)

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 10/12/2020 up to midnight on 23/12/202

Characteristic		Number of cases	Percent
Total number of confirmed cases		7,906	100
Sex	Male:Female ratio	0.95	
	Male	3,846	48.65
	Female	4,033	51.01
	Unknown	27	0.34
Age	Median age (years)	36	
	Mean age (years)	37	
	Age range (years)	0 - 102	
	0-4 yrs	309	3.91
	5-12 yrs	612	7.74
	13-18 yrs	545	6.89
	19-24 yrs	947	11.98
	25-34 yrs	1,389	17.57
	35-44 yrs	1,312	16.59
	45-54 yrs	1,141	14.43
	55-64 yrs	838	10.6
	65-74 yrs	381	4.82
	75-84 yrs	274	3.47
	85+ yrs	157	1.99
	Unknown	1	0.01
Underlying clinical conditions	Yes	1,997	25.26
	No	4,617	58.4
	Unknown	1,292	16.34
Symptom status at time of test*	Yes	4,772	60.36
	No	1,687	21.34
	Unknown	1,447	18.3

*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.

Table 2: Number of confirmed COVID-19 cases by community healthcare organisation (CHO) notified in Ireland from 10/12/2020 to midnight 23/12/2020

CHO Area	Number of confirmed cases	Incidence per 100,000 population
CHO1	912	233.1
CHO2	411	90.7
CHO3	616	160.0
CHO4	815	118.0
CHO5	1017	199.3
CHO6	709	185.0
CHO7	928	131.1
CHO8	1041	168.1
CHO9	1457	234.5
Unknown	0	
Total	7,906	166.0

Table 3: Number of confirmed COVID-19 cases by county notified in Ireland from 10/12/2020 to midnight 23/12/2020

County	Number of confirmed cases	Incidence per 100,000 population
Donegal	516	324.1
Wexford	437	291.9
Louth	375	291.0
Kilkenny	251	252.9
Limerick	488	250.4
Monaghan	153	249.2
Carlow	121	212.5
Laois	176	207.8
Dublin	2687	199.4
Kerry	280	189.6
Cavan	142	186.4
Meath	310	158.9
Longford	56	137.0
Waterford	158	136.0
Sligo	87	132.8
Kildare	289	129.9
Mayo	151	115.7
Cork	535	98.6
Galway	223	86.4
Wicklow	118	82.9
Tipperary	122	76.5
Offaly	58	74.4
Westmeath	65	73.2
Roscommon	37	57.3
Clare	57	48.0
Leitrim	14	43.7
Total	7,906	166.0

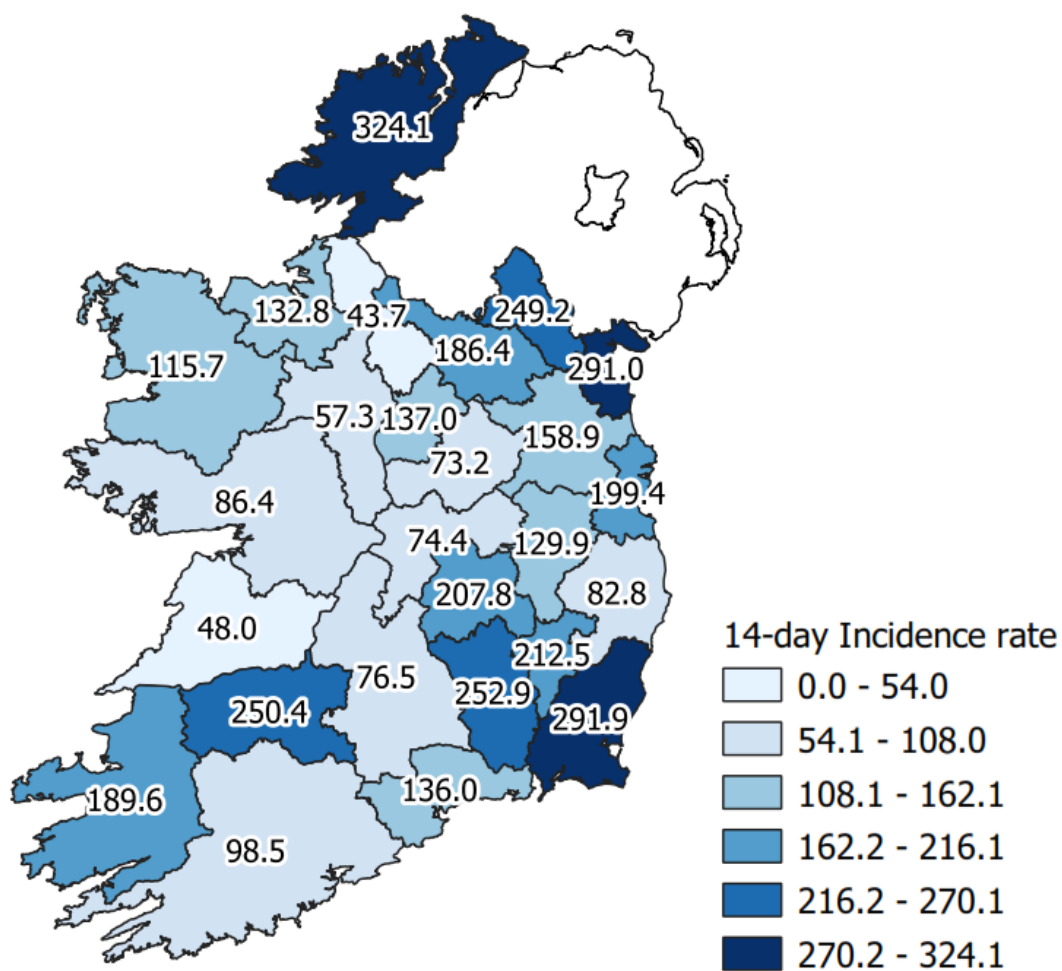


Figure 2: Cumulative incidence rates of confirmed COVID-19 cases per 100,000 population by county notified in Ireland between 10/12/2020 and 23/12/2020

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 10/12/2020 and 23/12/2020

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	169	124.2
CCA2	Dublin South East	427	345.2
CCA3	Dublin South City	175	116.7
CCA4	Dublin South West	176	109.4
CCA5	Dublin West	283	182.2
CCA6	Dublin North West	508	244.6
CCA7	Dublin North Central	514	332.5
CCA8	Dublin North	435	167.9
Dublin		2687	199.4

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.

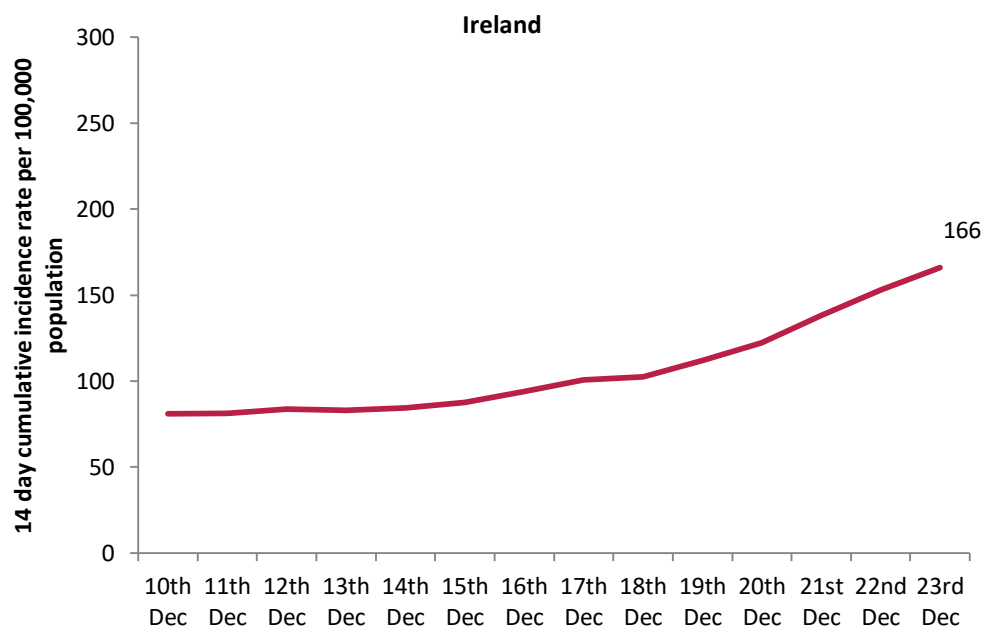


Figure 3: 14 day cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 in Ireland (10/12/2020 to 23/12/2020)

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 10/12/2020 to midnight 23/12/2020

Most likely transmission source	Number of cases	Percent
Travel related	137	1.73%
Close contact with a known confirmed case	3624	45.84%
Healthcare setting acquired: patient	261	3.30%
Healthcare setting acquired: staff	333	4.21%
Community transmission	1788	22.62%
Under investigation	1763	22.30%
Total	7906	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

Table 6: Cumulative number of confirmed cases of COVID-19 notified in Ireland from 10/12/2020 to midnight 23/12/2020 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	309	1	0.3	0	0.0
5-12 yrs	612	4	1.1	0	0.0
13-18 yrs	545	12	3.4	0	0.0
19-24 yrs	947	22	6.3	0	0.0
25-34 yrs	1389	23	6.6	0	0.0
35-44 yrs	1312	30	8.5	0	0.0
45-54 yrs	1141	42	12.0	3	25.0
55-64 yrs	838	46	13.1	5	41.7
65-74 yrs	381	48	13.7	2	16.7
75-84 yrs	274	79	22.5	2	16.7
85+ yrs	157	44	12.5	0	0.0
Unknown	1			0	0
Total	7,906	351	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 11:08 on 24/12/2020. 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.

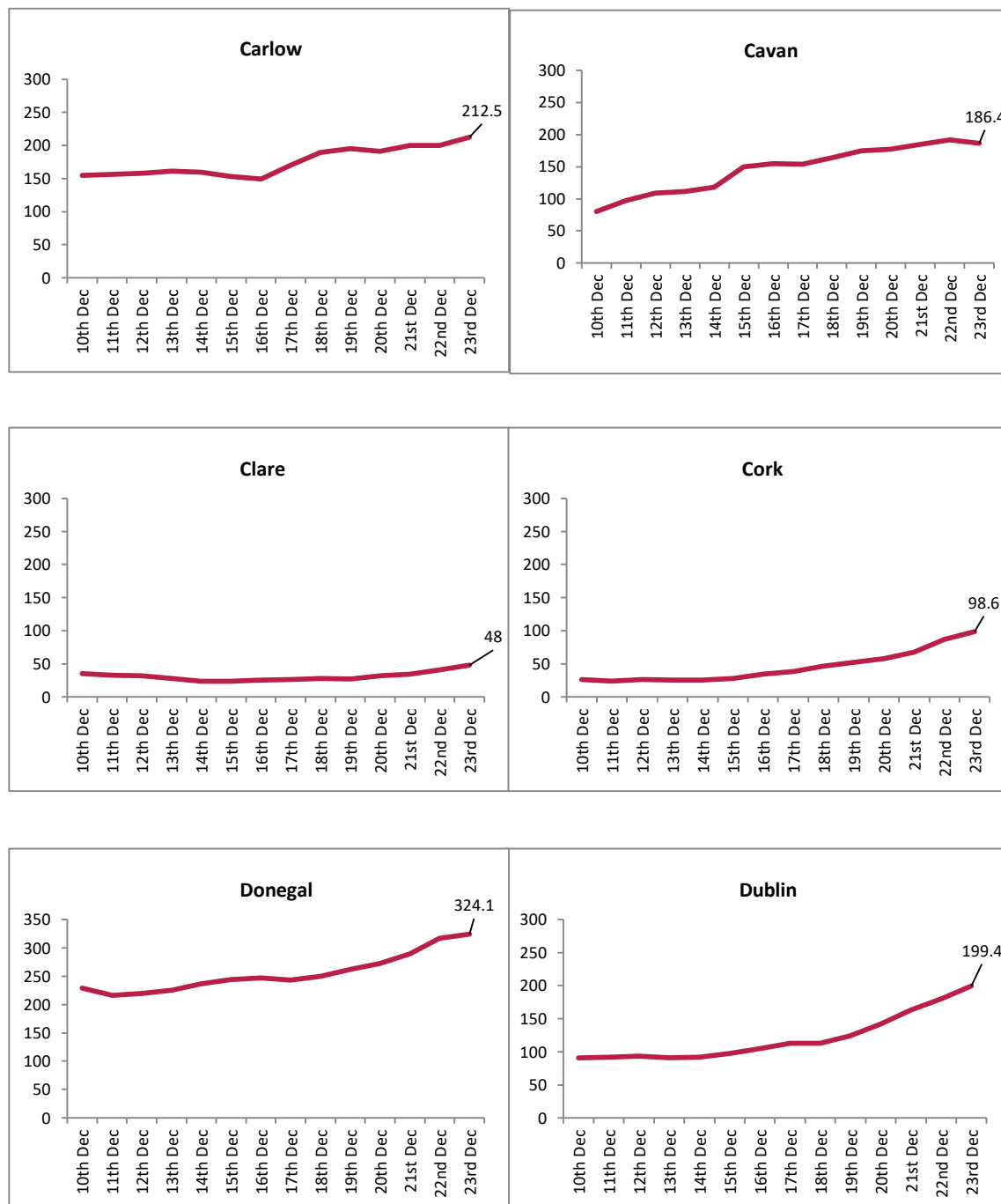
5. Outbreak location

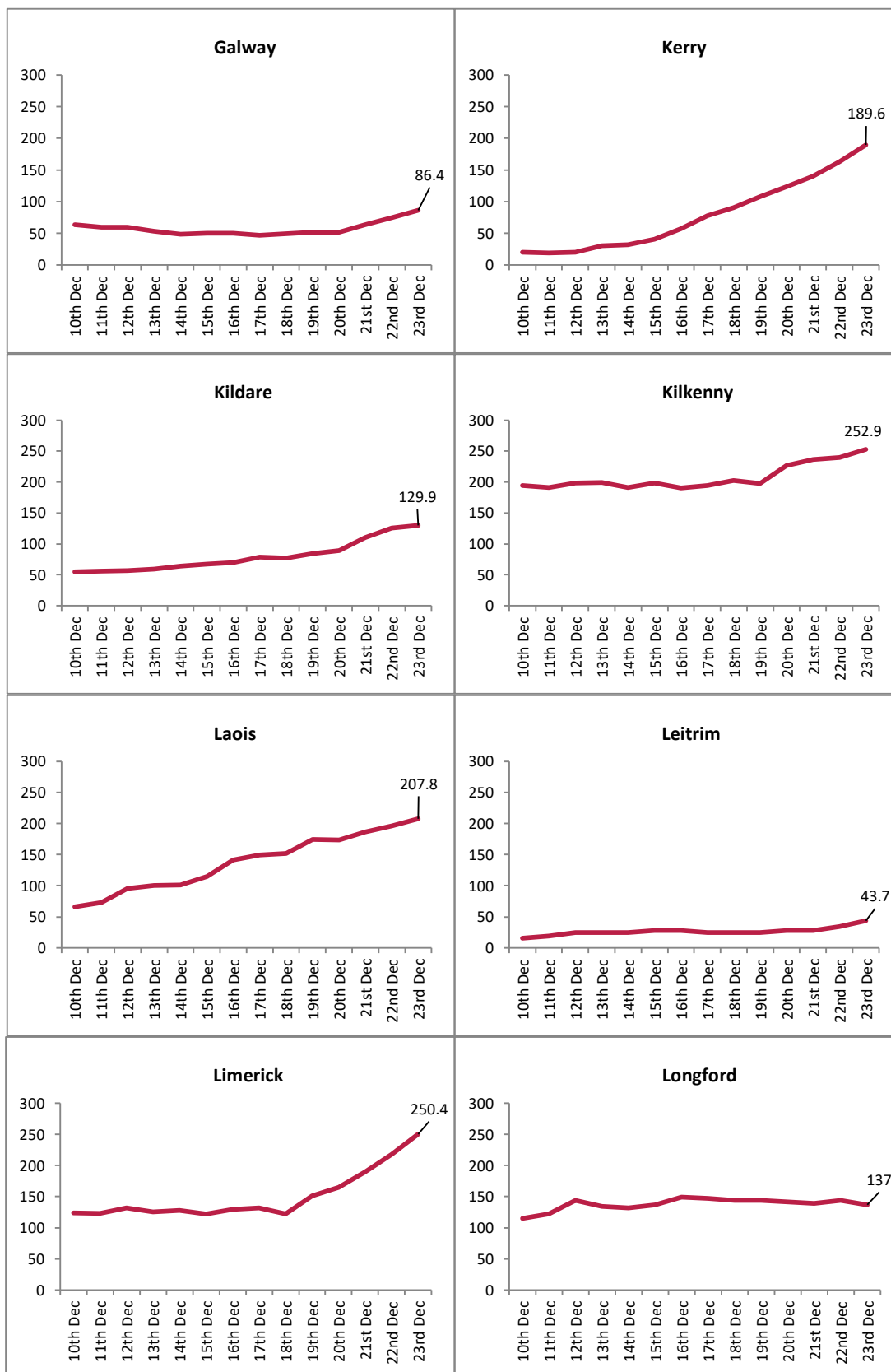
Where an outbreak location is reported as a residential facility (RF) this includes nursing homes, community hospitals, long-stay units and residential institutions including mental health facilities, prisons and direct provision centres.

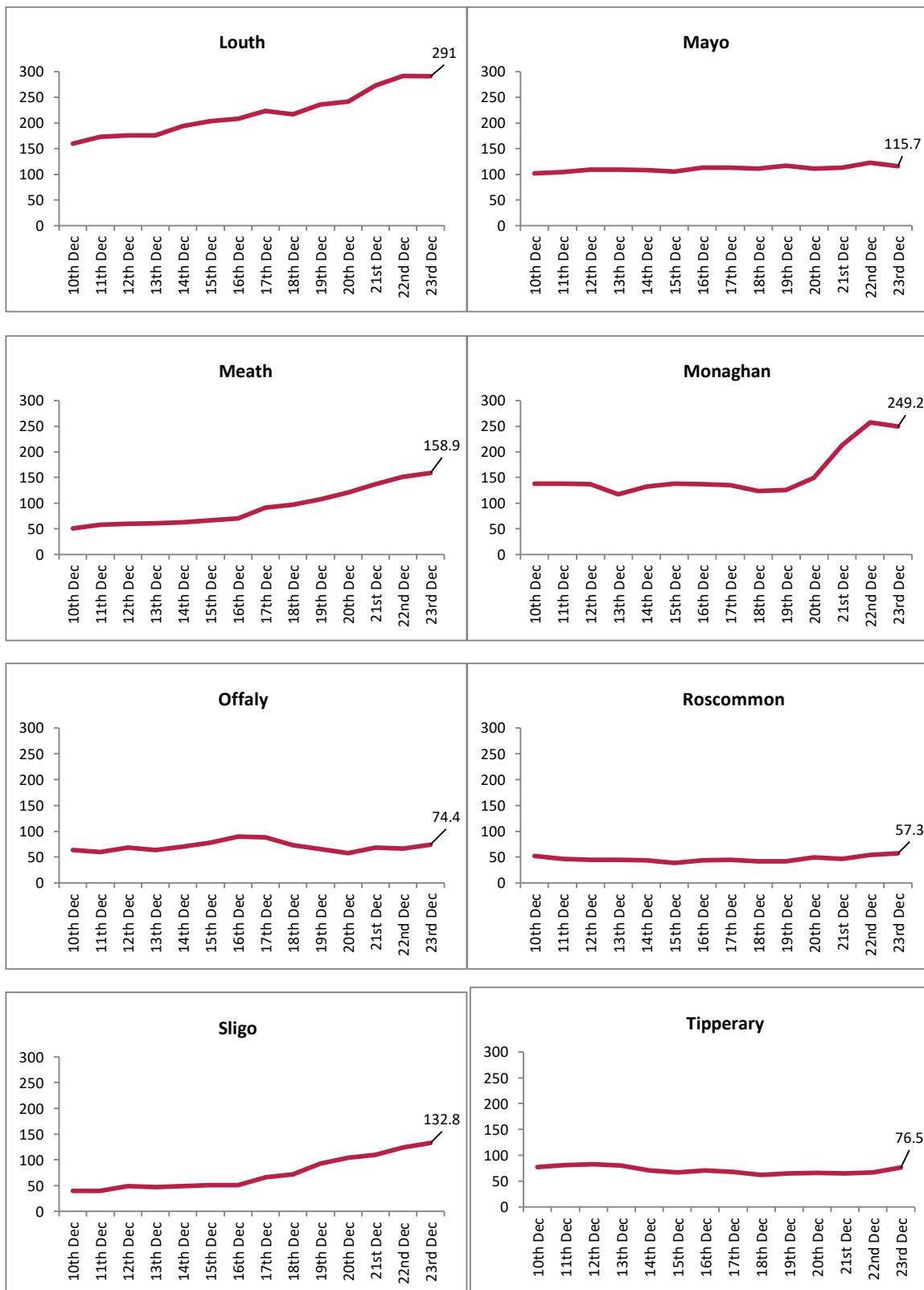
Other outbreak location includes community, extended family, hotel, public house, retail outlet, travel related and all other locations.

Appendix 1

Figure A. 14 day cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 by county (10/12/2020 to 23/12/2020)







Report prepared by Health Protection Surveillance Centre on 24/12/2020

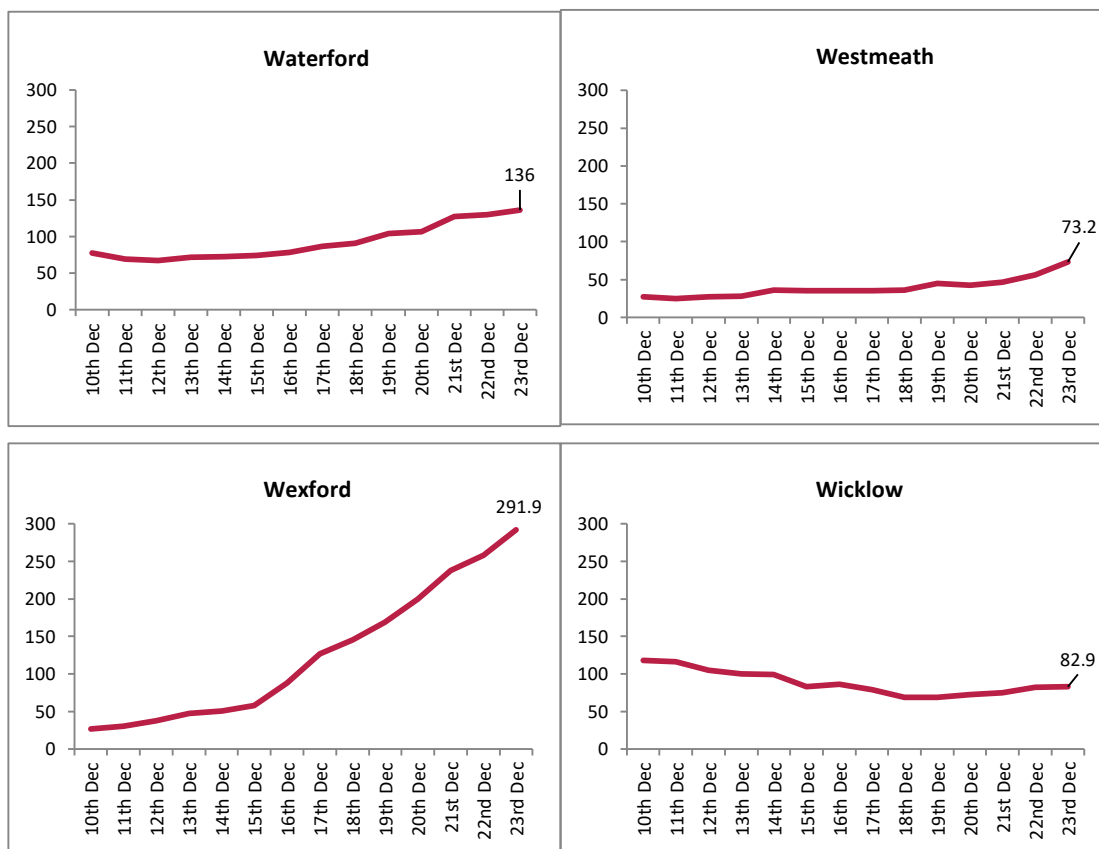


Figure B. 14 day cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 by Dublin CCA (10/12/2020 to 23/12/2020)

