



Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 15/12/2020

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 01/12/2020 up to midnight 14/12/2020

	Number	Percent
Total number of confirmed cases	4,032	
National incidence of confirmed cases per 100,000 population	84.67	
Number of cases hospitalised*	231	5.73
Number of cases admitted to ICU*	17	0.42
Number of deaths among confirmed cases	14	0.35
Case fatality ratio (CFR, %)	0.35	
National incidence of confirmed deaths per 100,000 population	0.29	
Number of cases** associated with clusters	1,461	36.24
Number of imported cases	20	0.5
Number of cases in healthcare workers	473	11.73
Males	1,928	47.82
Females	2,097	52.01
M:F ratio	0.92	
Median age (years)	36	
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
01/12/2020 - 14/12/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 09:38 on 15/12/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.

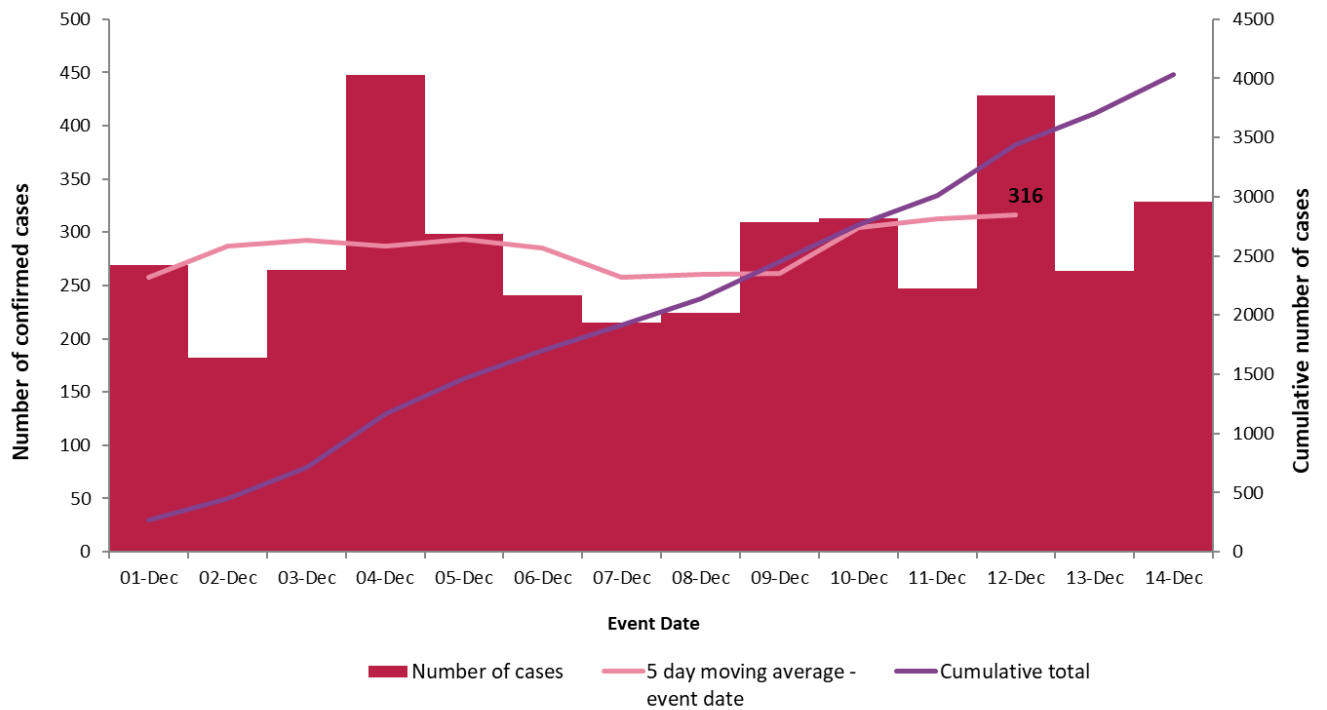


Figure 1. Daily number and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date (n=4,032)

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 01/12/2020 up to midnight on 14/12/202

Characteristic		Number of cases	Percent
Total number of confirmed cases		4,032	100
Sex	Male:Female ratio	0.92	
	Male	1,928	47.82
	Female	2,097	52.01
	Unknown	7	0.17
Age	Median age (years)	36	
	Mean age (years)	38	
	Age range (years)	0 - 102	
	0-4 yrs	161	3.99
	5-12 yrs	435	10.79
	13-18 yrs	319	7.91
	19-24 yrs	373	9.25
	25-34 yrs	655	16.25
	35-44 yrs	622	15.43
	45-54 yrs	577	14.31
	55-64 yrs	387	9.6
	65-74 yrs	207	5.13
	75-84 yrs	167	4.14
	85+ yrs	129	3.2
Underlying clinical conditions	Yes	1,216	30.16
	No	2,284	56.65
	Unknown	532	13.19
Symptom status at time of test*	Yes	2,435	60.39
	No	982	24.36
	Unknown	615	15.25

*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 01/12/2020 to midnight 14/12/2020

CHO Area	Number of confirmed cases	Incidence per 100,000 population
CHO1	587	150.0
CHO2	294	64.9
CHO3	318	82.6
CHO4	185	26.8
CHO5	521	102.1
CHO6	429	112.0
CHO7	455	64.3
CHO8	596	96.2
CHO9	647	104.1
Unknown	0	
Total	4,032	84.7

Table 3: Number of confirmed COVID-19 cases by county notified in Ireland from 01/12/2020 to midnight 14/12/2020

County	Number of confirmed cases	Incidence per 100,000 population
Donegal	377	236.8
Louth	248	192.4
Kilkenny	190	191.5
Carlow	94	165.1
Longford	54	132.1
Limerick	251	128.8
Monaghan	79	128.7
Cavan	91	119.5
Mayo	141	108.0
Laois	85	100.4
Wicklow	139	97.6
Dublin	1249	92.7
Waterford	91	78.3
Offaly	55	70.5
Tipperary	112	70.2
Kildare	143	64.3
Meath	122	62.5
Sligo	32	48.8
Wexford	73	48.8
Galway	125	48.4
Roscommon	28	43.4
Westmeath	32	36.0
Kerry	48	32.5
Cork	137	25.2
Leitrim	8	25.0
Clare	28	23.6
Total	4,032	84.7

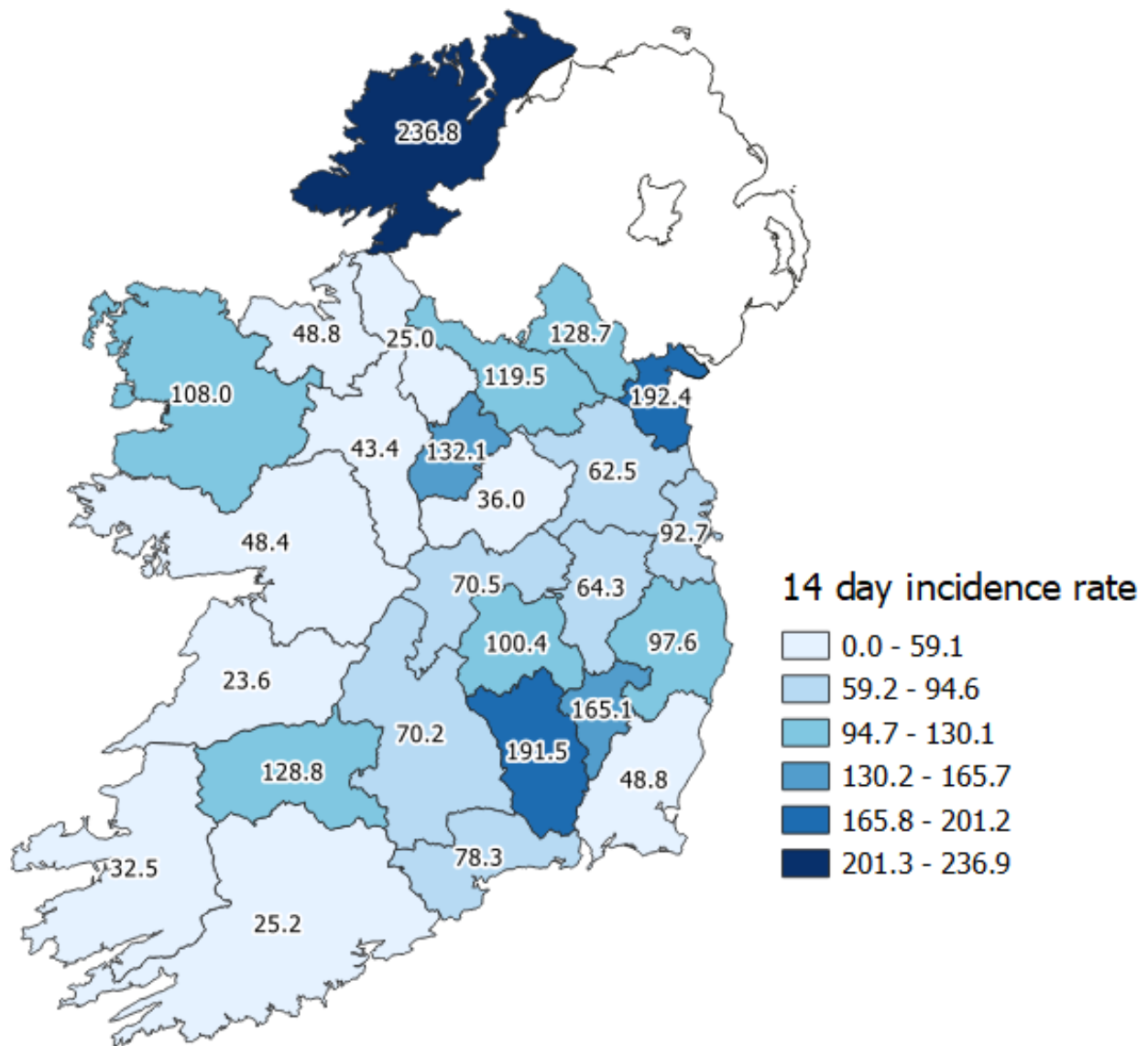


Figure 2: Cumulative incidence rates of confirmed COVID-19 cases per 100,000 population by county notified in Ireland between 01/12/2020 and 14/12/2020

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 01/12/2020 and 14/12/2020

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	100	73.5
CCA2	Dublin South East	192	155.2
CCA3	Dublin South City	93	62.0
CCA4	Dublin South West	93	57.8
CCA5	Dublin West	124	79.8
CCA6	Dublin North West	207	99.7
CCA7	Dublin North Central	206	133.3
CCA8	Dublin North	234	90.3
Dublin		1,249	92.7

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.

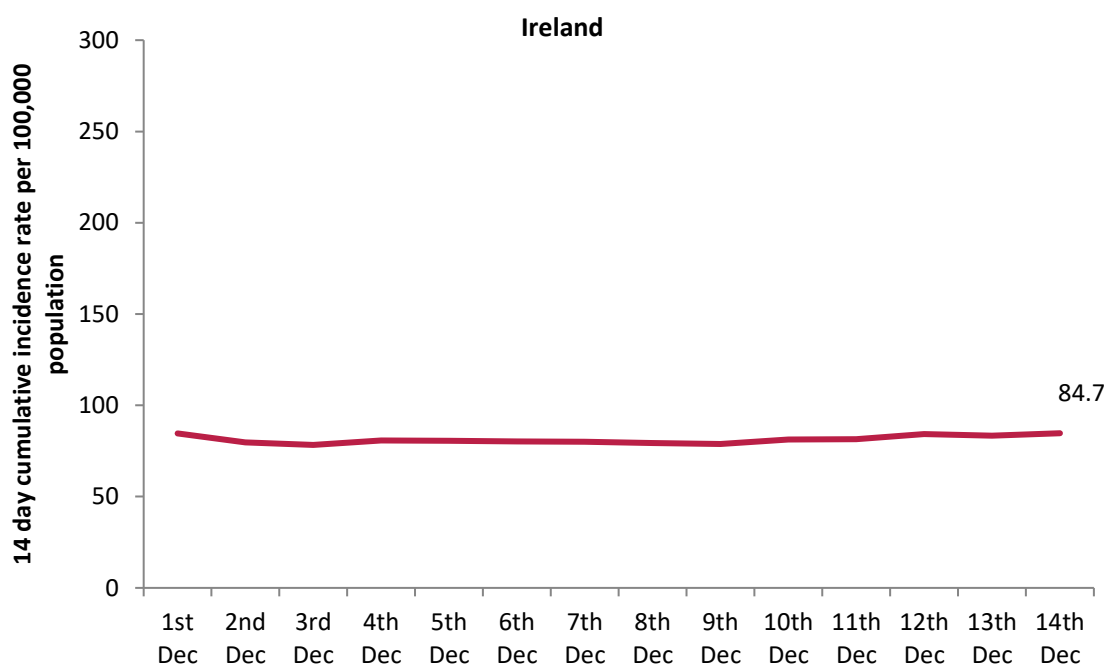


Figure 3: 14 day cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 in Ireland (01/12/2020 to 14/12/2020)

14 day incidence rates per 100,000 populations of confirmed cases of COVID-19 for individual counties can be found in appendix 4 of this report

Table 5: Number of confirmed COVID-19 cases by most likely transmission source notified from 01/12/2020 to midnight 14/12/2020

Most likely transmission source	Number of cases	Percent
Travel related *	91	2.26%
Close contact with a known confirmed case	2,002	49.65%
Healthcare setting acquired: patient	251	6.23%
Healthcare setting acquired: staff	226	5.61%
Community transmission	794	19.69%
Under investigation	668	16.57%
Total	4,032	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 01/12/2020 to midnight 14/12/2020 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	161	2	0.87	0	0
5-12 yrs	435	2	0.87	0	0
13-18 yrs	319	7	3.03	0	0
19-24 yrs	373	5	2.16	0	0
25-34 yrs	655	14	6.06	1	5.88
35-44 yrs	622	14	6.06	2	11.76
45-54 yrs	577	21	9.09	4	23.53
55-64 yrs	387	38	16.45	3	17.65
65-74 yrs	207	51	22.08	2	11.76
75-84 yrs	167	47	20.35	4	23.53
85+ yrs	129	30	12.99	1	5.88
Total	4,032	231	100	17	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 09:22 on 15/12/2020. 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.

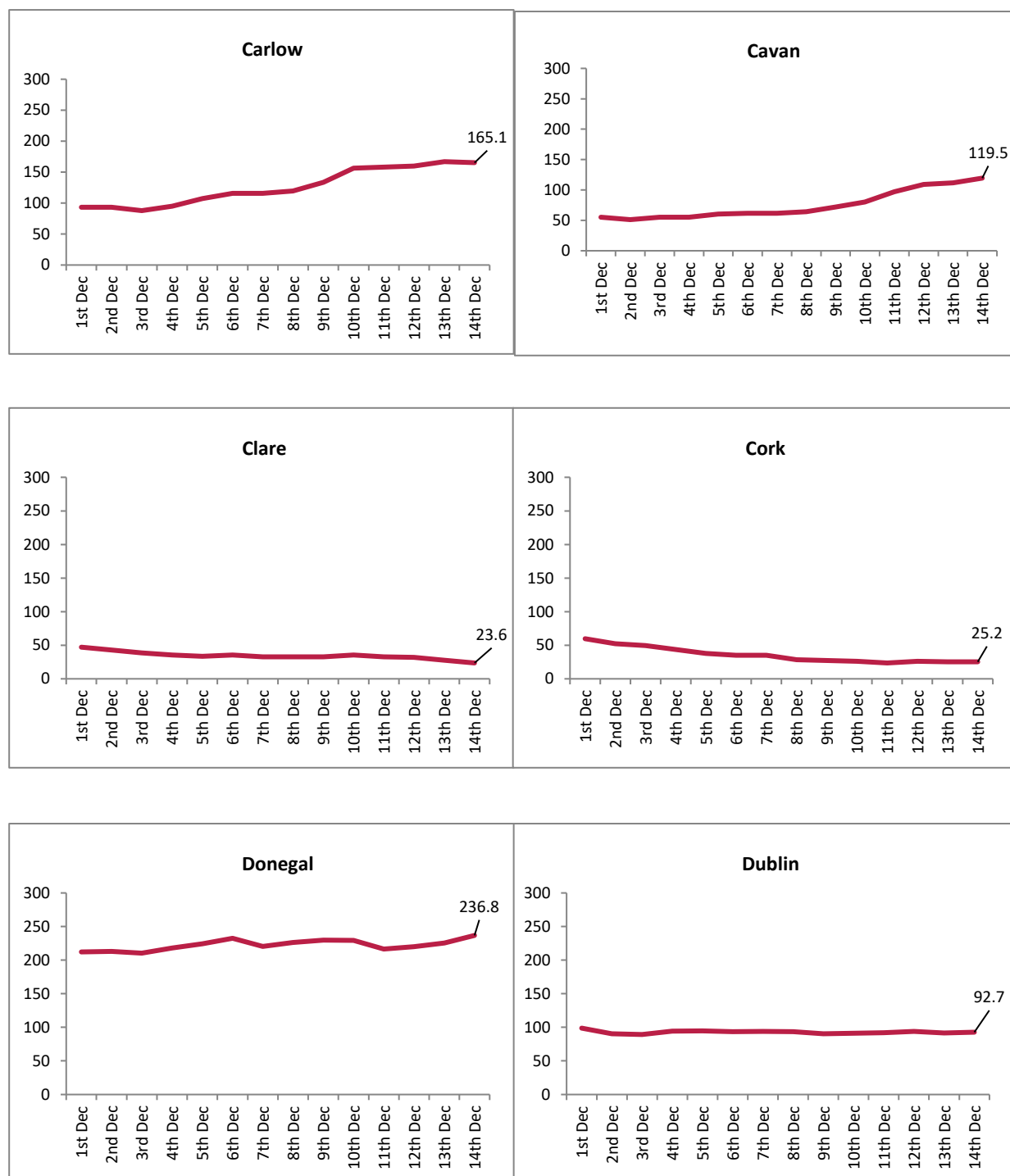
5. Outbreak location

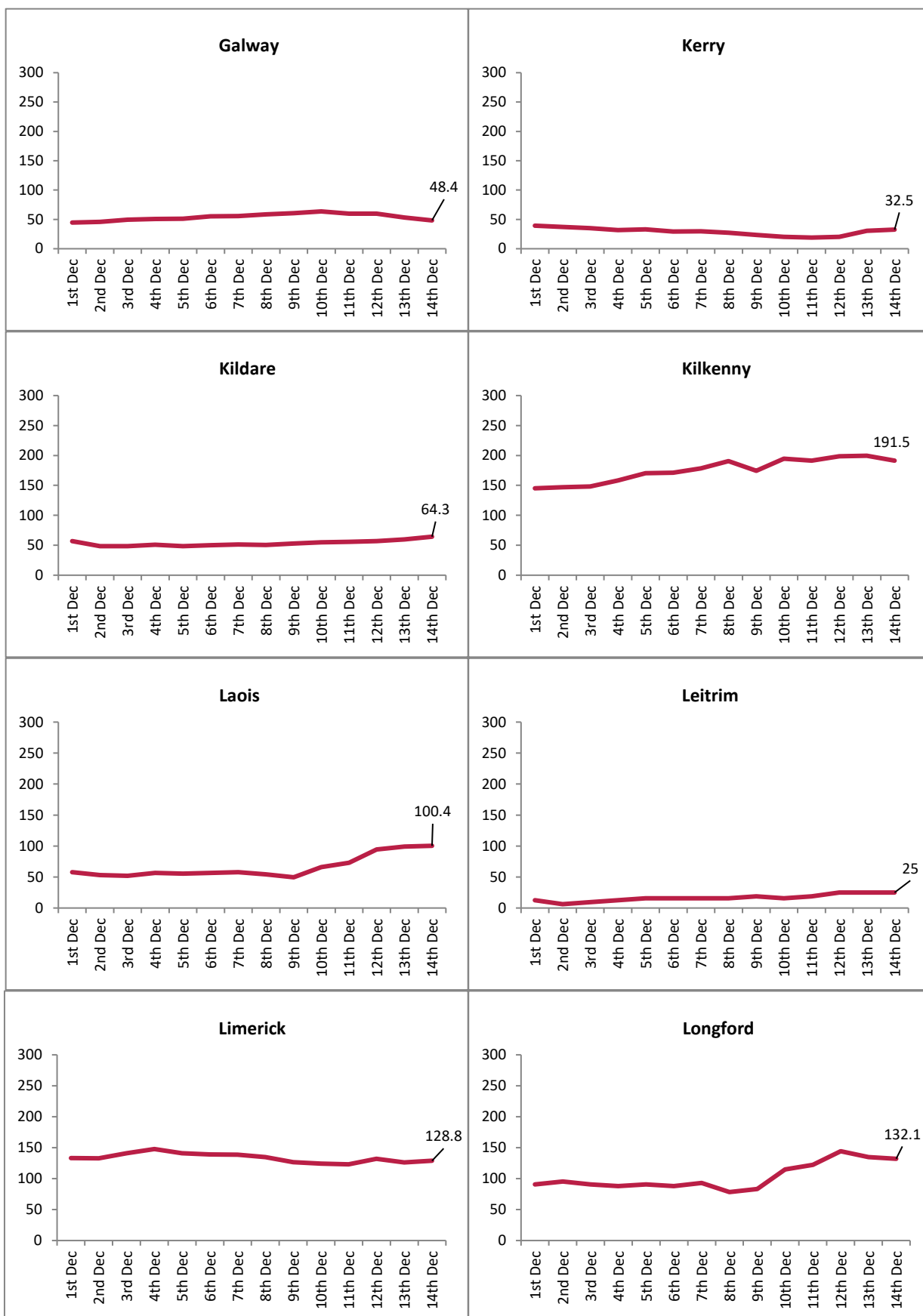
Where an outbreak location is reported as a residential facility (RF) this includes nursing homes, community hospitals, long-stay units and residential institutions including mental health facilities, prisons and direct provision centres.

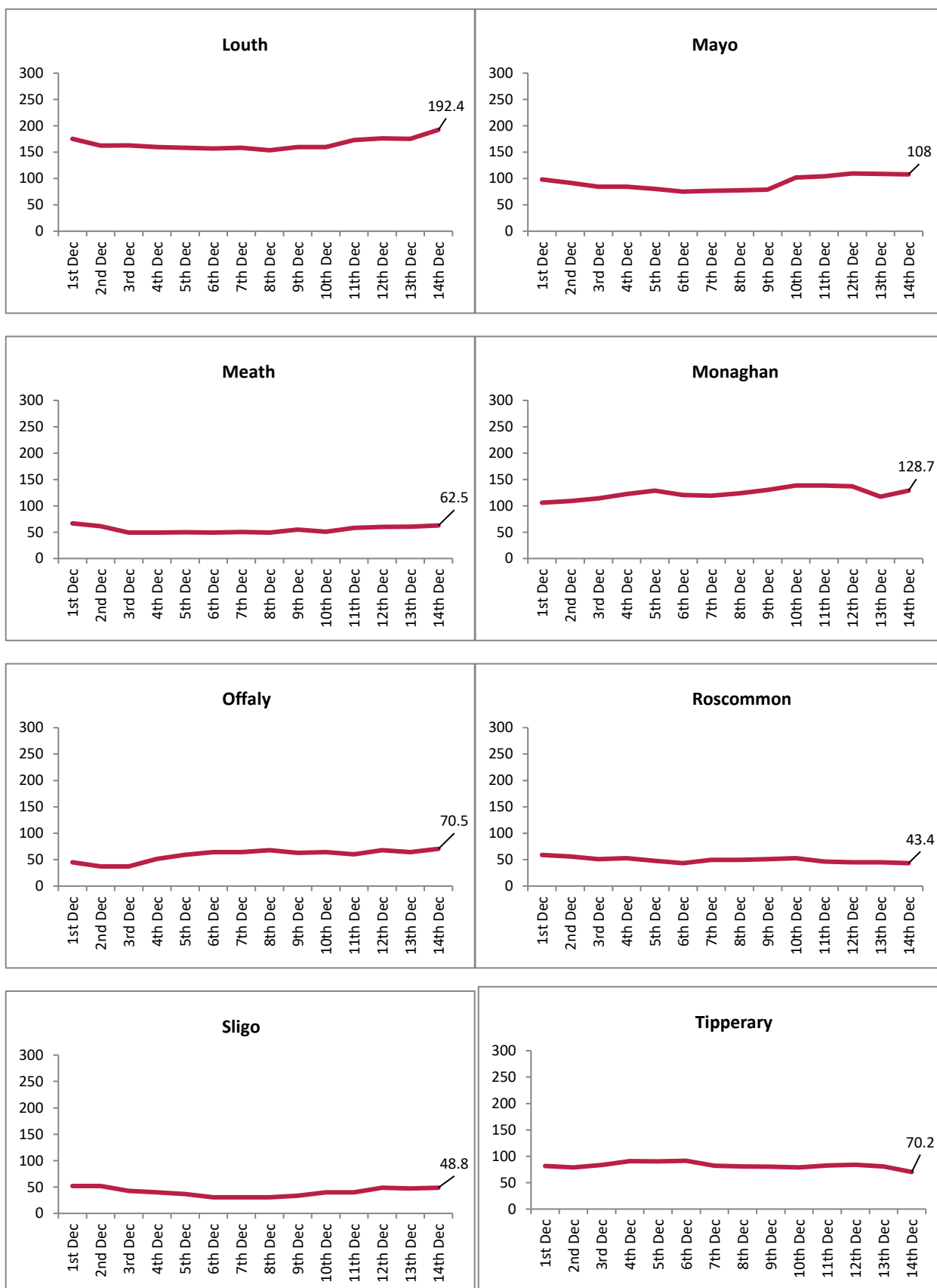
Other outbreak location includes community, extended family, hotel, public house, retail outlet, travel related and all other locations.

Appendix 1

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







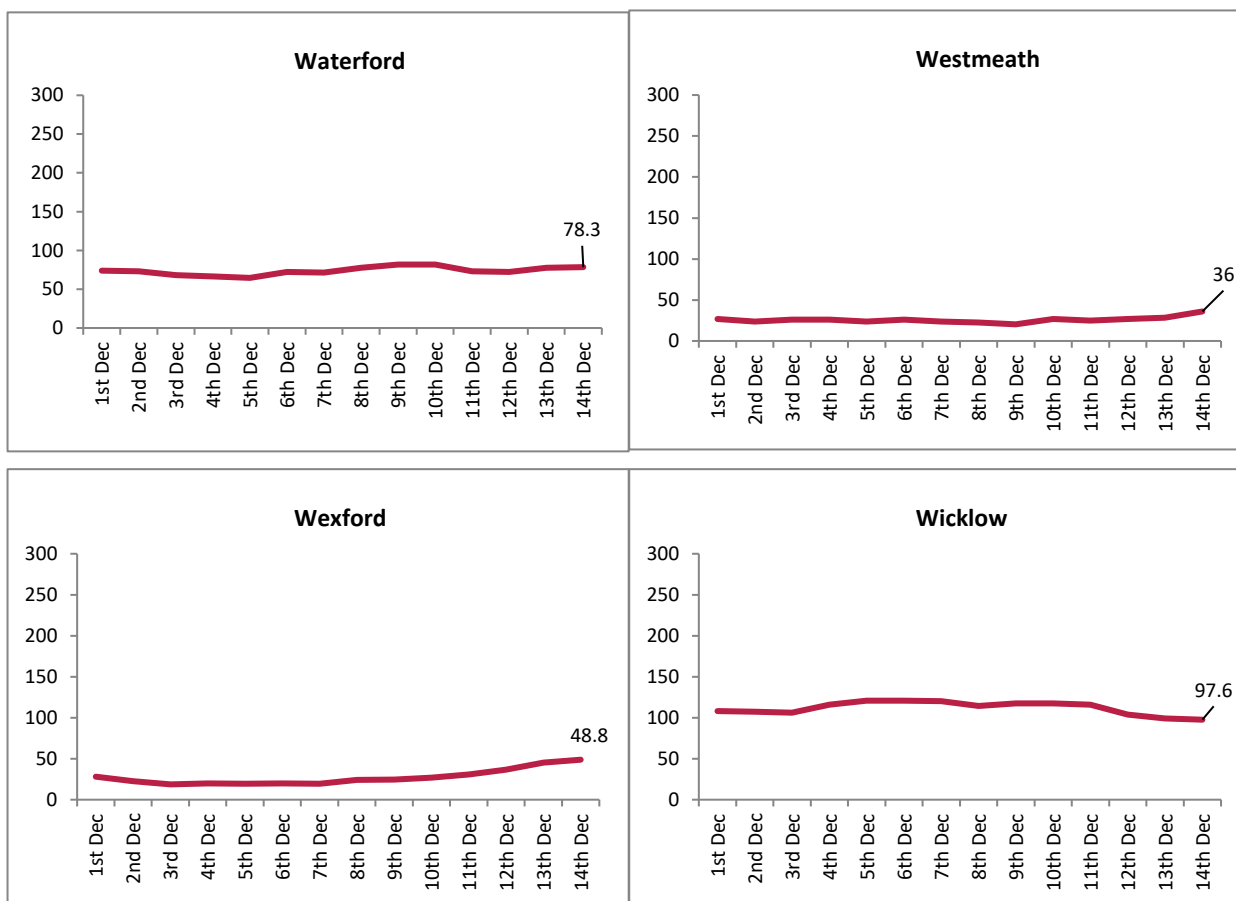


Figure B. 14 day cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 by Dublin CCA (01/12/2020 to 14/12/2020)

