



Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 22/12/2020

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 08/12/2020 up to midnight 21/12/2020

	Number	Percent
Total number of confirmed cases	6,583	
National incidence of confirmed cases per 100,000 population	138.24	
Number of cases hospitalised*	299	4.54
Number of cases admitted to ICU*	14	0.21
Number of deaths among confirmed cases	17	0.26
Case fatality ratio (CFR, %)	0.26	
National incidence of confirmed deaths per 100,000 population	0.36	
Number of cases** associated with clusters	1,518	23.06
Number of imported cases	17	0.26
Number of cases in healthcare workers	636	9.66
% HCW where HCW status known (n=5,507)	11.55	
Males	3,251	49.38
Females	3,312	50.31
M:F ratio	0.98	
Median age (years)	36	
Mean age (years)	38	
Age range (years)	0 - 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

**Cases may be associated with outbreaks notified outside the timeframe of this report
08/12/2020 - 21/12/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 09:23 on 22/12/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.

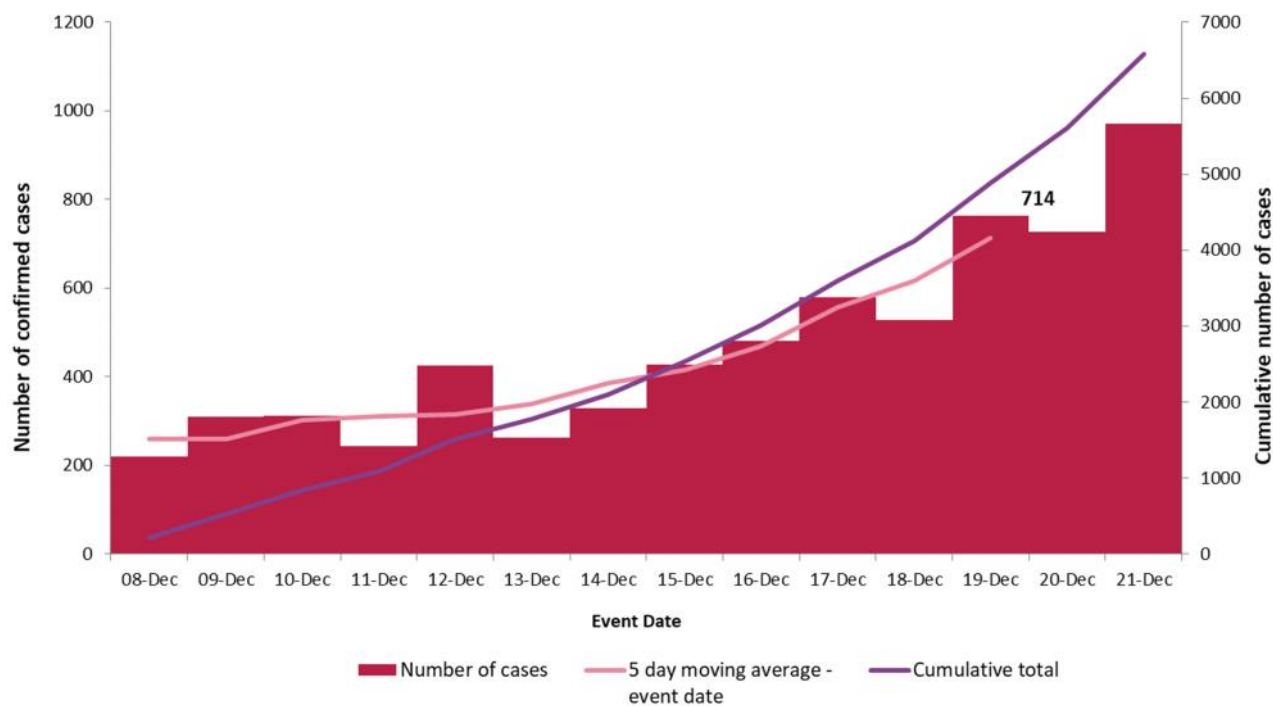


Figure 1. Daily number and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date (n=6,583)

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 08/12/2020 up to midnight on 21/12/202

Characteristic		Number of cases	Percent
Total number of confirmed cases		6,583	100
Sex	Male:Female ratio	0.98	
	Male	3,251	49.38
	Female	3,312	50.31
	Unknown	20	0.3
Age	Median age (years)	36	
	Mean age (years)	38	
	Age range (years)	0 - 100	
	0-4 yrs	262	3.98
	5-12 yrs	560	8.51
	13-18 yrs	454	6.9
	19-24 yrs	708	10.75
	25-34 yrs	1,137	17.27
	35-44 yrs	1,091	16.57
	45-54 yrs	959	14.57
	55-64 yrs	711	10.8
	65-74 yrs	321	4.88
	75-84 yrs	237	3.6
	85+ yrs	142	2.16
	Unknown	1	0.02
Underlying clinical conditions	Yes	1,729	26.26
	No	3,828	58.15
	Unknown	1,026	15.59
Symptom status at time of test*	Yes	3,993	60.66
	No	1,433	21.77
	Unknown	1,157	17.58

*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 08/12/2020 to midnight 21/12/2020

CHO Area	Number of confirmed cases	Incidence per 100,000 population
CHO1	815	208.3
CHO2	345	76.1
CHO3	465	120.8
CHO4	574	83.1
CHO5	902	176.7
CHO6	586	152.9
CHO7	757	107.0
CHO8	931	150.3
CHO9	1208	194.4
Unknown	0	
Total	6,583	138.2

Table 3: Number of confirmed COVID-19 cases by county notified in Ireland from 08/12/2020 to midnight 21/12/2020

County	Number of confirmed cases	Incidence per 100,000 population
Carlow	114	200.2
Cavan	140	183.8
Clare	41	34.5
Cork	367	67.6
Donegal	463	290.8
Dublin	2197	163.1
Galway	166	64.3
Kerry	207	140.1
Kildare	247	111.0
Kilkenny	235	236.8
Laois	158	186.5
Leitrim	9	28.1
Limerick	370	189.8
Longford	57	139.5
Louth	352	273.1
Mayo	148	113.4
Meath	267	136.9
Monaghan	131	213.4
Offaly	54	69.3
Roscommon	31	48.0
Sligo	72	109.9
Tipperary	104	65.2
Waterford	148	127.4
Westmeath	42	47.3
Wexford	356	237.8
Wicklow	107	75.1
Total	6,583	138.2

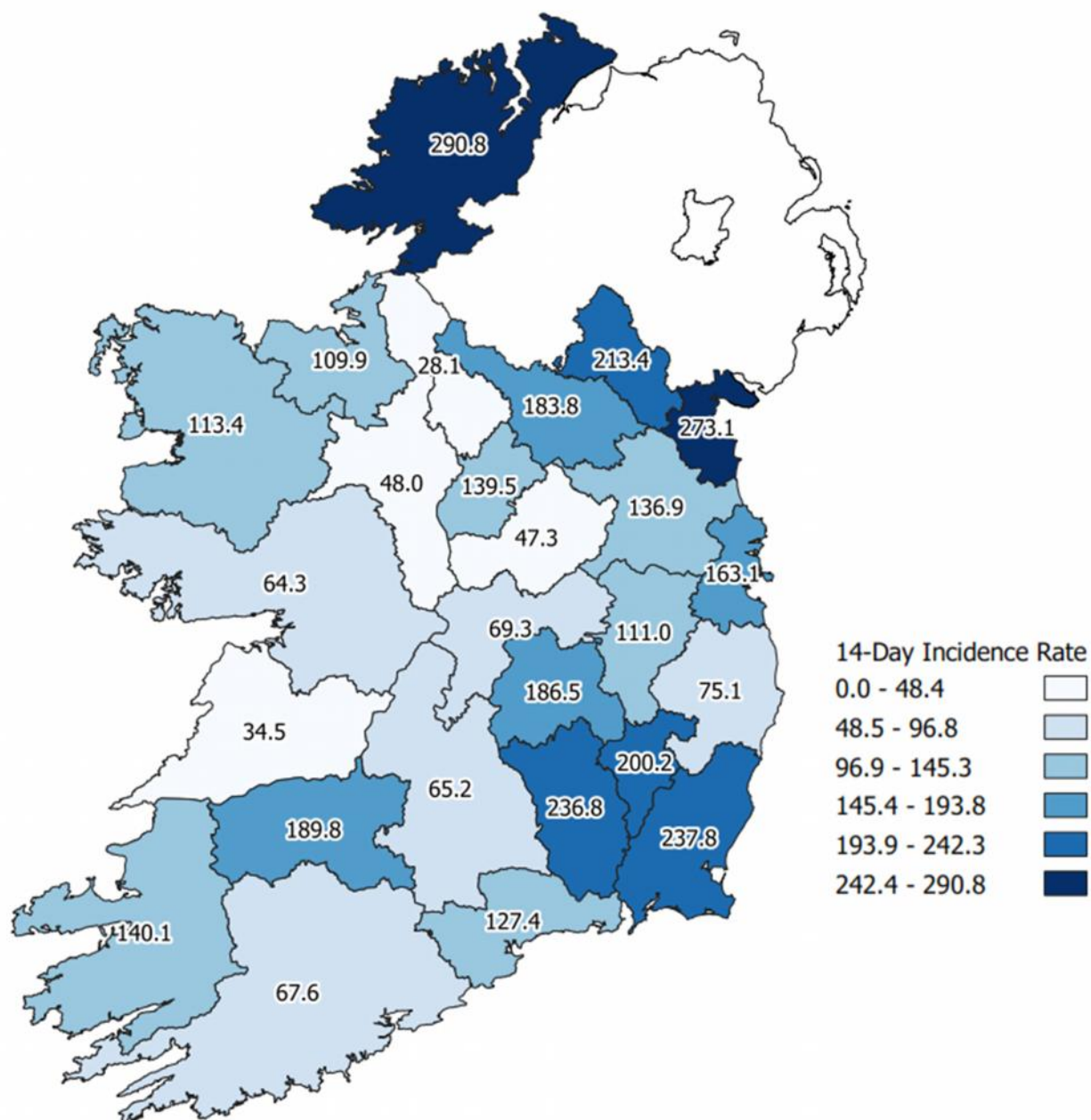


Figure 2: Cumulative incidence rates of confirmed COVID-19 cases per 100,000 population by county notified in Ireland between 08/12/2020 and 21/12/2020

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 07/12/2020 and 20/12/2020

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	118	86.7
CCA2	Dublin South East	303	244.9
CCA3	Dublin South City	126	84.0
CCA4	Dublin South West	124	77.1
CCA5	Dublin West	189	121.7
CCA6	Dublin North West	352	169.5
CCA7	Dublin North Central	368	238.1
CCA8	Dublin North	341	131.6
Dublin		1,921	142.6

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.

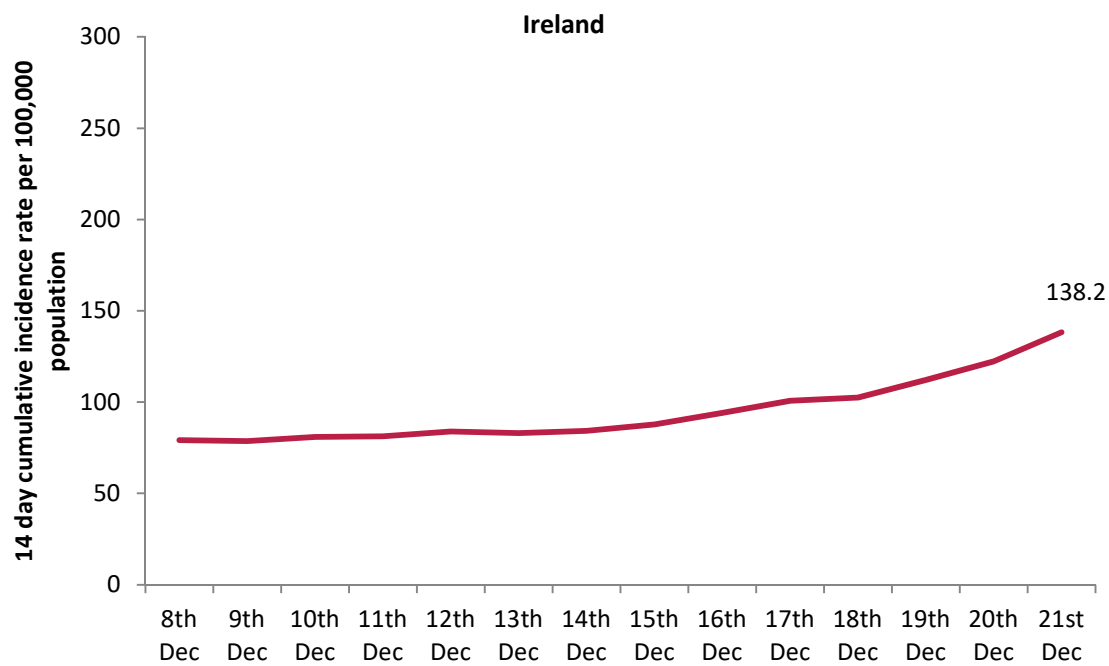


Figure 3: 14 day cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 in Ireland (08/12/2020 to 21/12/2020)

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 08/12/2020 to midnight 21/12/2020

Most likely transmission source	Number of cases	Percent
Travel related *	118	1.79%
Close contact with a known confirmed case	3,101	47.11%
Healthcare setting acquired: patient	249	3.78%
Healthcare setting acquired: staff	293	4.45%
Community transmission	1,444	21.94%
Under investigation	1,378	20.93%
Total	6,583	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 08/12/2020 to midnight 21/12/2020 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	262	1	0.33	0	0
5-12 yrs	560	3	1	0	0
13-18 yrs	454	10	3.34	0	0
19-24 yrs	708	11	3.68	0	0
25-34 yrs	1137	17	5.69	0	0
35-44 yrs	1091	22	7.36	1	7.14
45-54 yrs	959	33	11.04	4	28.57
55-64 yrs	711	40	13.38	3	21.43
65-74 yrs	321	51	17.06	2	14.29
75-84 yrs	237	75	25.08	4	28.57
85+ yrs	142	36	12.04	0	0
Unknown	1			0	0
Total	6,583	299	100	14	100

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 09:23 on 22/12/2020. 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.

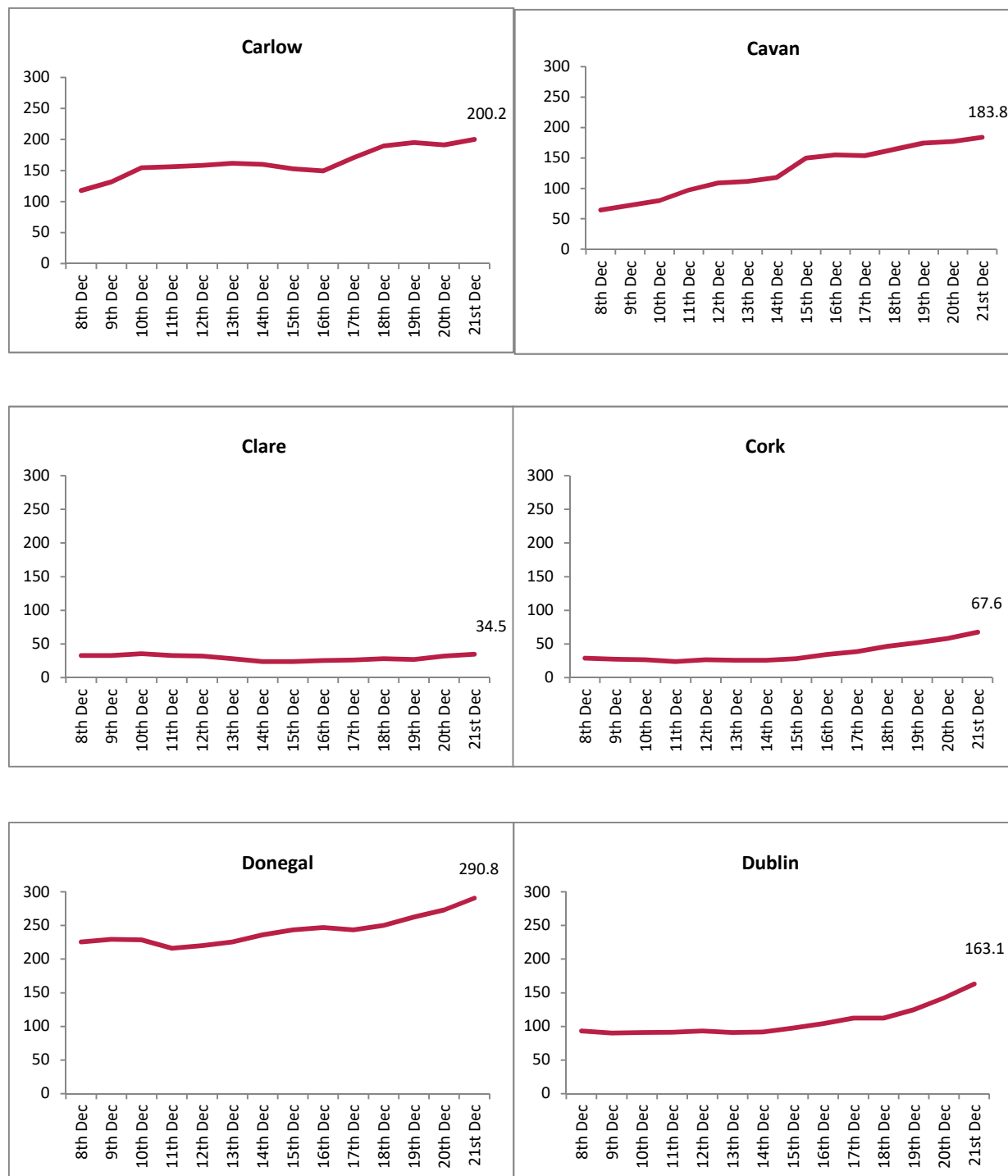
5. Outbreak location

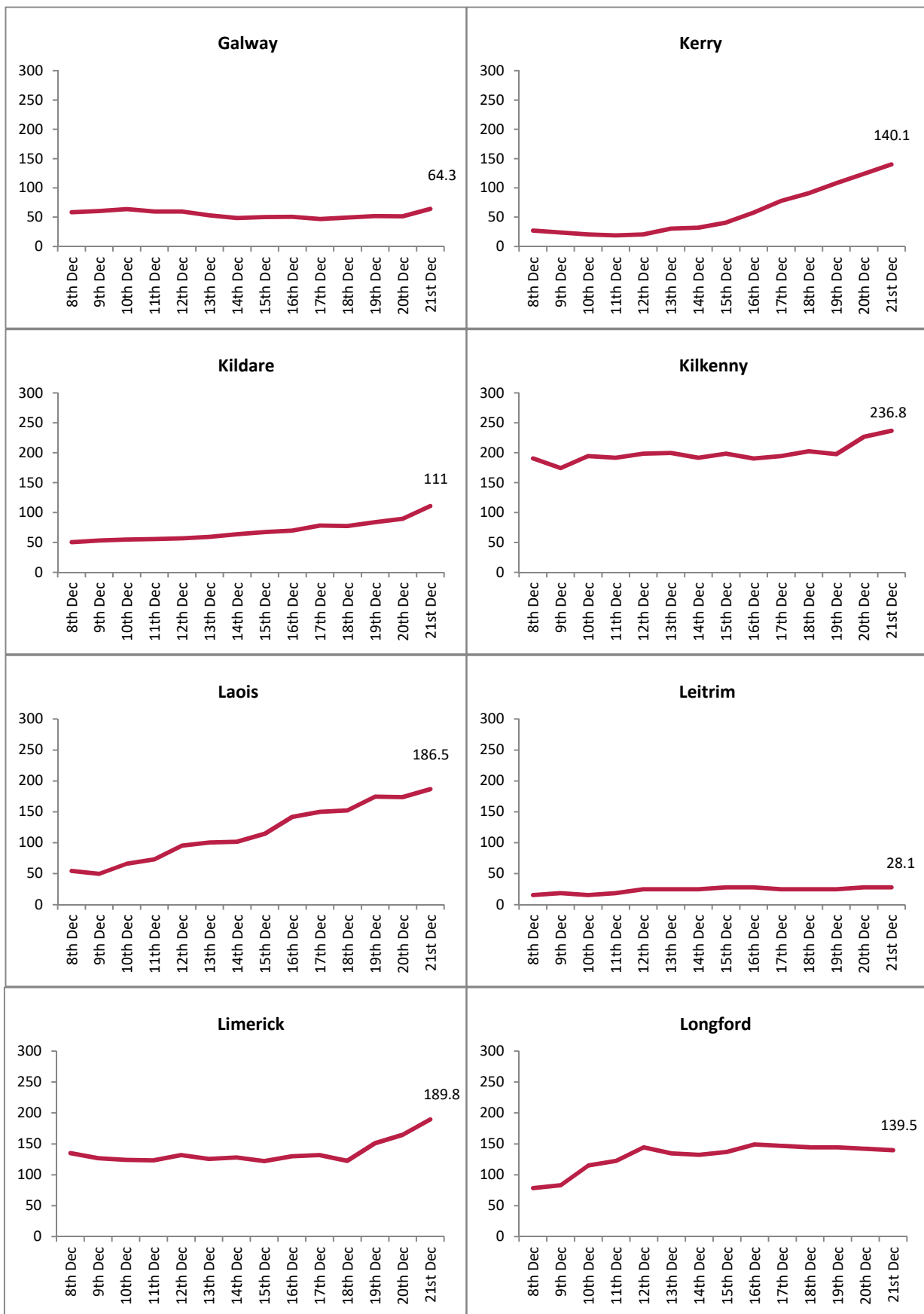
Where an outbreak location is reported as a residential facility (RF) this includes nursing homes, community hospitals, long-stay units and residential institutions including mental health facilities, prisons and direct provision centres.

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 (08/12/2020 to 21/12/2020)







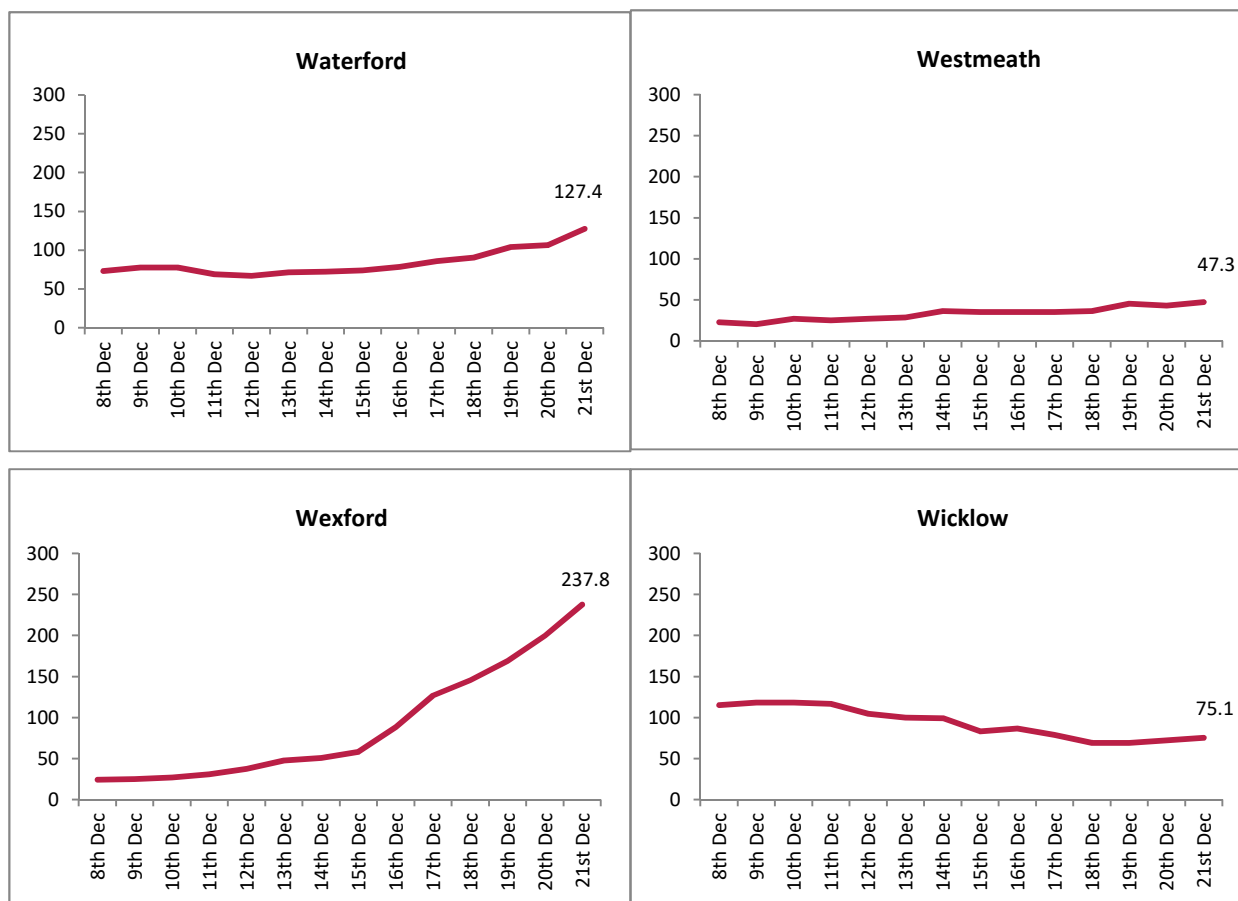


Figure B. 14 day cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 by Dublin CCA (08/12/2020 to 21/12/2020)

