



Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 20/12/2020

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 06/12/2020 up to midnight 19/12/2020

	Number	Percent
Total number of confirmed cases	5,343	
National incidence of confirmed cases per 100,000 population	112.2	
Number of cases hospitalised*	262	4.9
Number of cases admitted to ICU*	13	0.24
Number of deaths among confirmed cases	12	0.22
Case fatality ratio (CFR, %)	0.22	
National incidence of confirmed deaths per 100,000 population	0.25	
Number of cases** associated with clusters	1,360	25.45
Number of imported cases	16	0.3
Number of cases in healthcare workers	542	10.14
Males	2,628	49.19
Females	2,694	50.42
M:F ratio	0.98	
Median age (years)	36	
Mean age (years)	37	
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
06/12/2020 - 19/12/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 09:32 on 20/12/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.

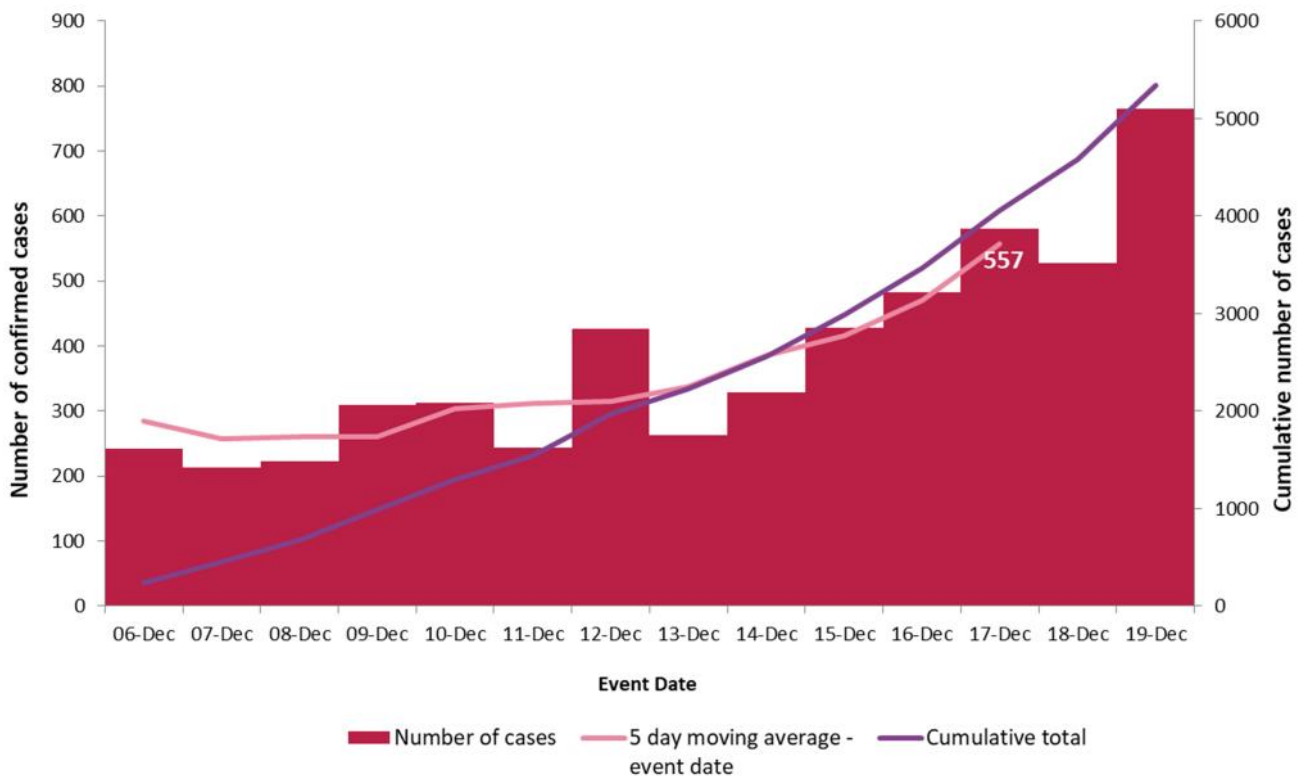


Figure 1. Daily number and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 06/12/2020 up to midnight on 19/12/202

Characteristic		Number of cases	Percent
Total number of confirmed cases		5,343	100
Sex	Male:Female ratio	0.98	
	Male	2,628	49.19
	Female	2,694	50.42
	Unknown	21	0.39
Age	Median age (years)	36	
	Mean age (years)	37	
	Age range (years)	0 - 100	
	0-4 yrs	200	3.74
	5-12 yrs	483	9.04
	13-18 yrs	396	7.41
	19-24 yrs	551	10.31
	25-34 yrs	913	17.09
	35-44 yrs	879	16.45
	45-54 yrs	780	14.6
	55-64 yrs	574	10.74
	65-74 yrs	260	4.87
	75-84 yrs	191	3.57
	85+ yrs	115	2.15
	Unknown	1	0.02
Underlying clinical conditions	Yes	1,433	26.82
	No	3,121	58.41
	Unknown	789	14.77
Symptom status at time of test*	Yes	3,252	60.86
	No	1,189	22.25
	Unknown	902	16.88

*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 3: Number of confirmed COVID-19 cases by community healthcare organisation (CHO) notified in Ireland from 06/12/2020 to midnight 19/12/2020

CHO Area	Number of confirmed cases	Incidence per 100,000 population
CHO1	698	178.4
CHO2	315	69.5
CHO3	371	96.4
CHO4	440	63.7
CHO5	741	145.2
CHO6	468	122.1
CHO7	584	82.5
CHO8	811	131.0
CHO9	914	147.1
Unknown	1	
Total	5,343	112.2

Table 4: Number of confirmed COVID-19 cases by county notified in Ireland from 06/12/2020 to midnight 19/12/2020

County	Number of confirmed cases	Incidence per 100,000 population
Carlow	111	195.0
Cavan	133	174.6
Clare	32	26.9
Cork	280	51.6
Donegal	420	263.8
Dublin	1682	124.8
Galway	135	52.3
Kerry	160	108.3
Kildare	187	84.0
Kilkenny	196	197.5
Laois	148	174.7
Leitrim	8	25.0
Limerick	298	152.9
Longford	59	144.3
Louth	303	235.1
Mayo	152	116.5
Meath	210	107.7
Monaghan	76	123.8
Offaly	51	65.4
Roscommon	28	43.4
Sligo	61	93.1
Tipperary	100	62.7
Waterford	122	105.0
Westmeath	40	45.1
Wexford	253	169.0
Wicklow	98	68.8
Total	5,343	112.2

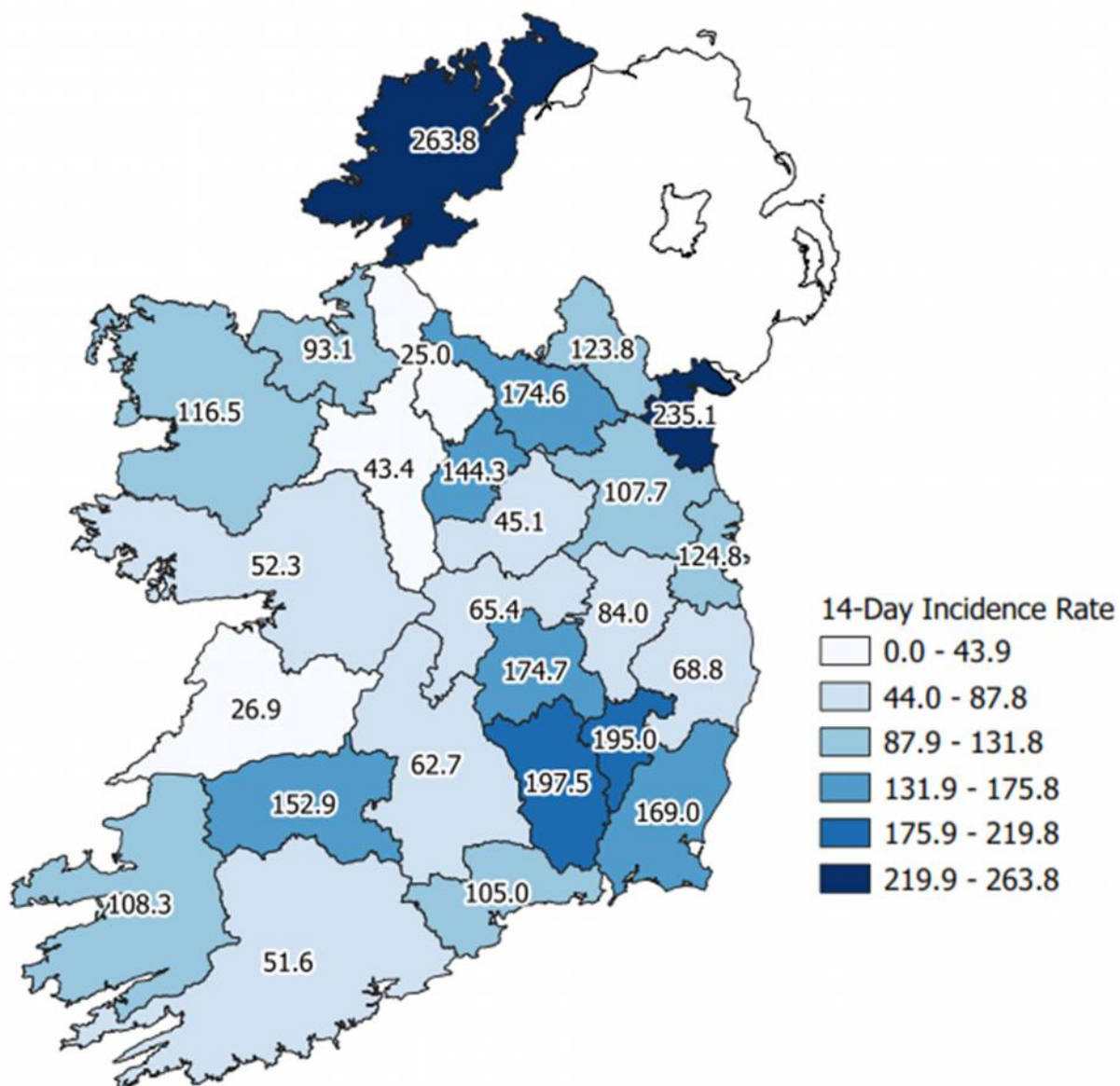


Figure 2: Cumulative incidence rates of confirmed COVID-19 cases per 100,000 population by county notified in Ireland between 06/12/2020 and 19/12/2020

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 06/12/2020 and 19/12/2020

CCA	Local Health Office	Number of cases in past 14 days based on notification date	14 day incidence rates based on notification dates	Population (2016 Census)
CCA1	Dublin South	104	76.4	136,074
CCA2	Dublin South East	270	218.3	123,704
CCA3	Dublin South City	115	76.7	149,935
CCA4	Dublin South West	113	70.2	160,898
CCA5	Dublin West	165	106.2	155,343
CCA6	Dublin North West	289	139.2	207,670
CCA7	Dublin North Central	310	200.5	154,583
CCA8	Dublin North	315	121.6	259,152
	Dublin	1681	124.8	1,347,359

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.

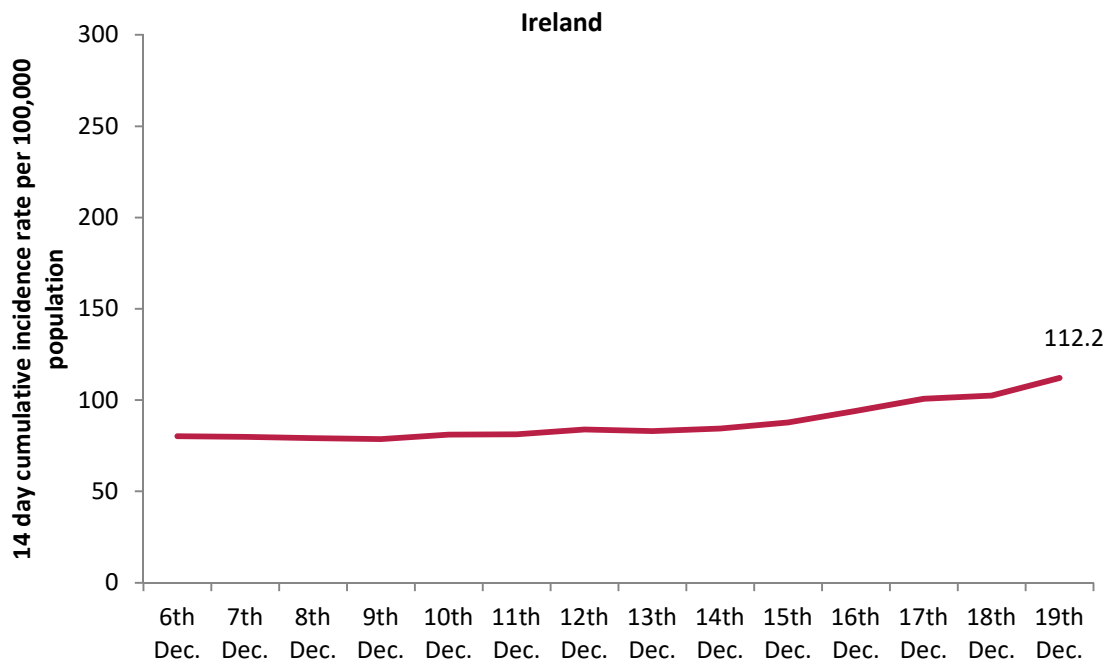


Figure 3: 14 day cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 in Ireland (06/12/2020 to 19/12/2020)

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 06/12/2020 to midnight 19/12/2020

Most likely transmission source	Number of cases	Percent
Travel related	110	2.06%
Close contact with a known confirmed case	2545	47.63%
Healthcare setting acquired: patient	232	4.34%
Healthcare setting acquired: staff	240	4.49%
Community transmission	1152	21.56%
Under investigation	1064	19.91%
Total	5343	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 06/12/2020 to midnight 19/12/2020 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	200	1	0.4	0	3.7
5-12 yrs	483	3	1.1	0	9.0
13-18 yrs	396	11	4.2	0	7.4
19-24 yrs	551	10	3.8	1	10.3
25-34 yrs	913	16	6.1	0	17.1
35-44 yrs	879	19	7.3	1	16.5
45-54 yrs	780	26	9.9	3	14.6
55-64 yrs	574	36	13.7	2	10.7
65-74 yrs	260	50	19.1	3	4.9
75-84 yrs	191	61	23.3	3	3.6
85+ yrs	115	29	11.1	0	2.2
Unknown	1				
Total	5,343	262	100	13	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 09:32 on 20/12/2020. 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.

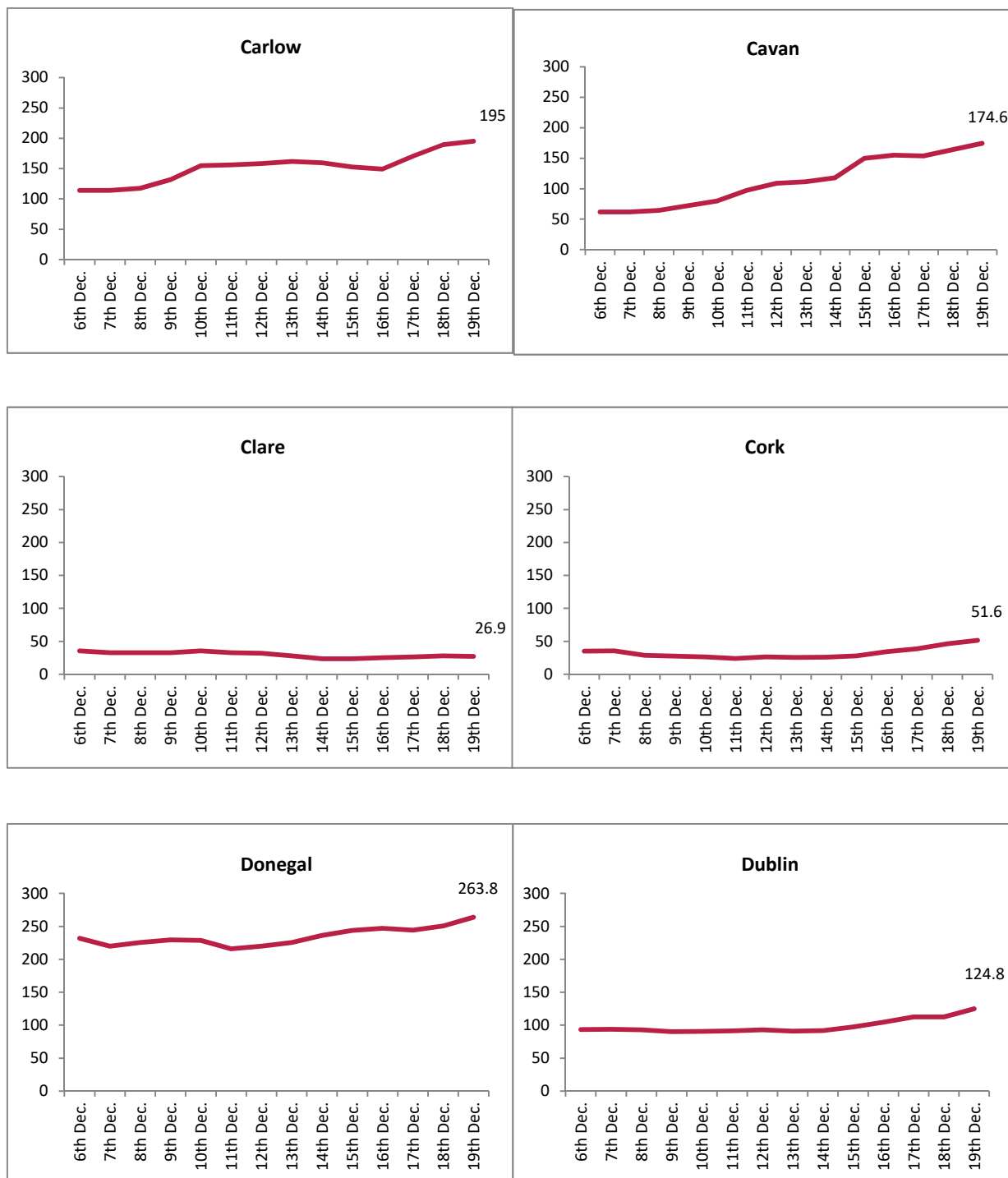
5. Outbreak location

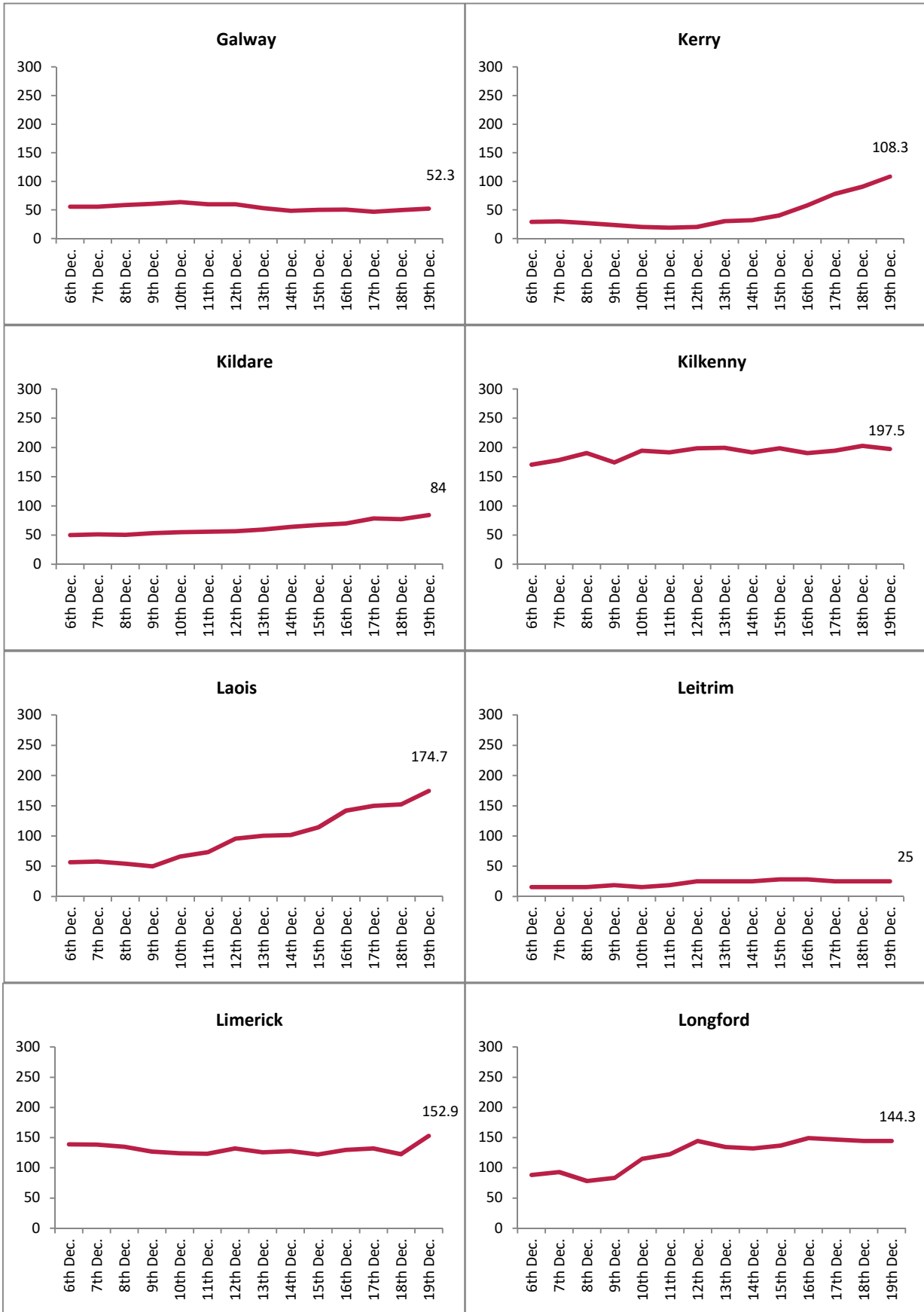
Where an outbreak location is reported as a residential facility (RF) this includes nursing homes, community hospitals, long-stay units and residential institutions including mental health facilities, prisons and direct provision centres.

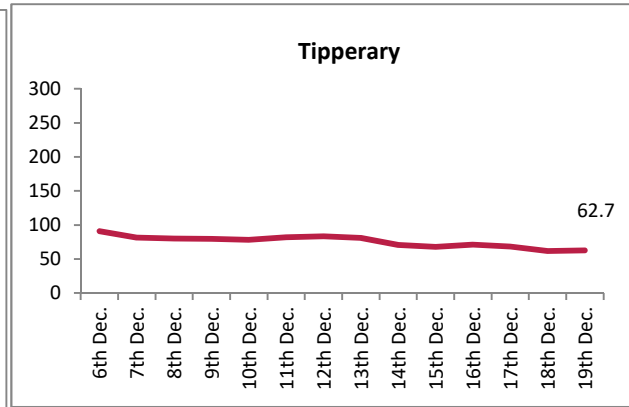
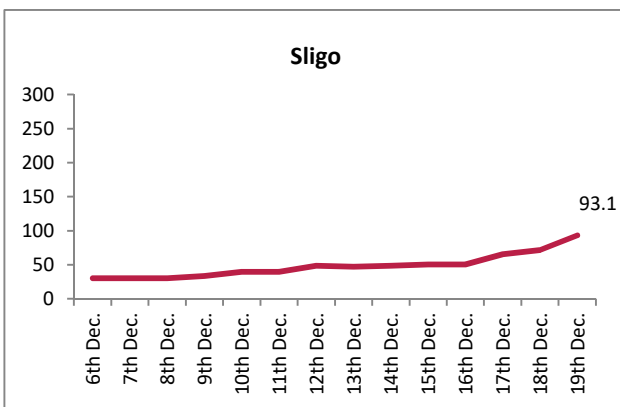
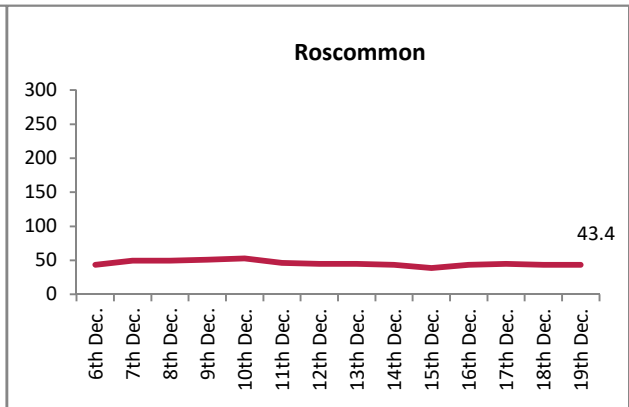
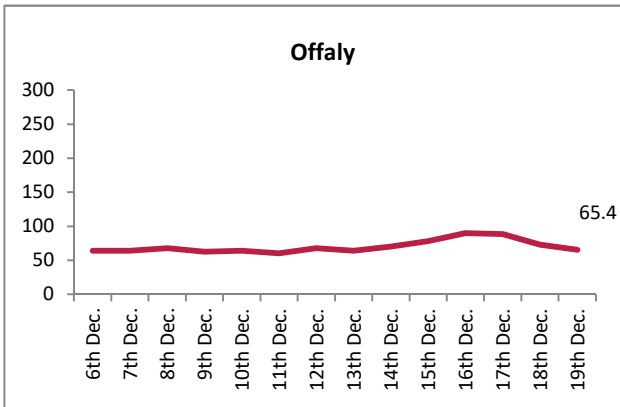
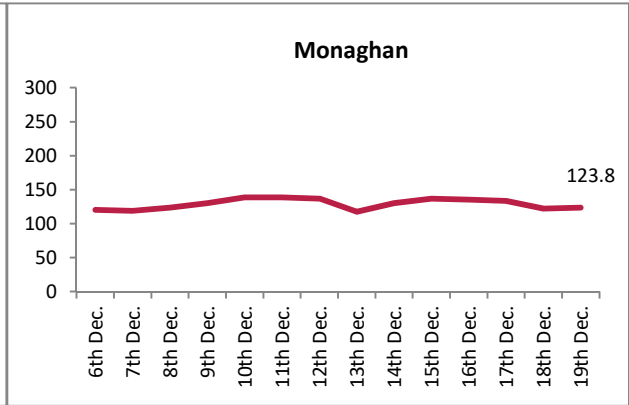
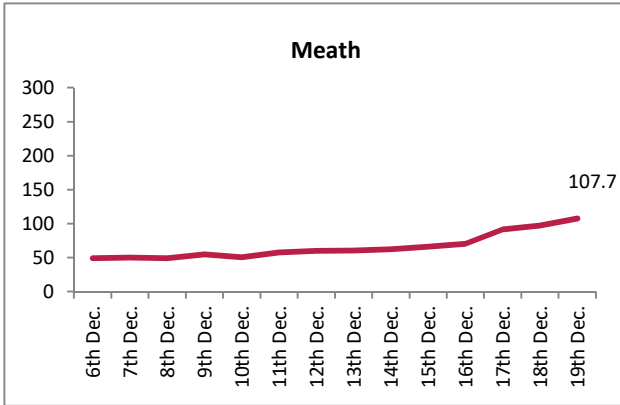
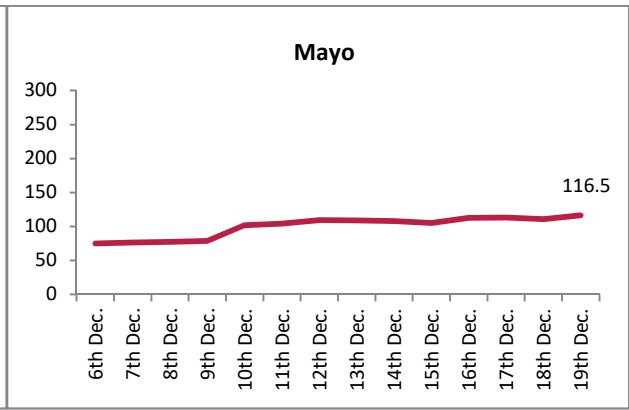
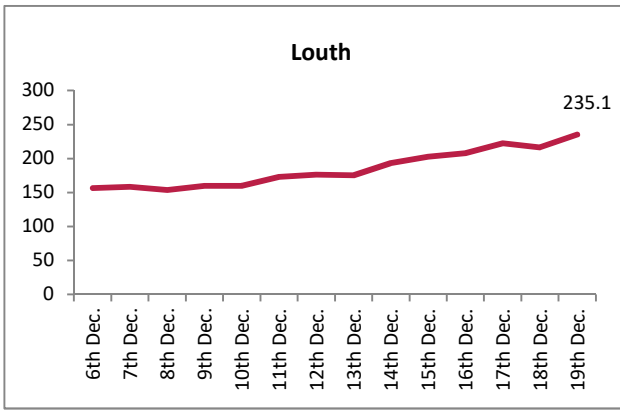
Other outbreak location includes community, extended family, hotel, public house, retail outlet, travel related and all other locations.

Appendix 1

Figure A. 14 day cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 by county (06/12/2020 to 19/12/2020)







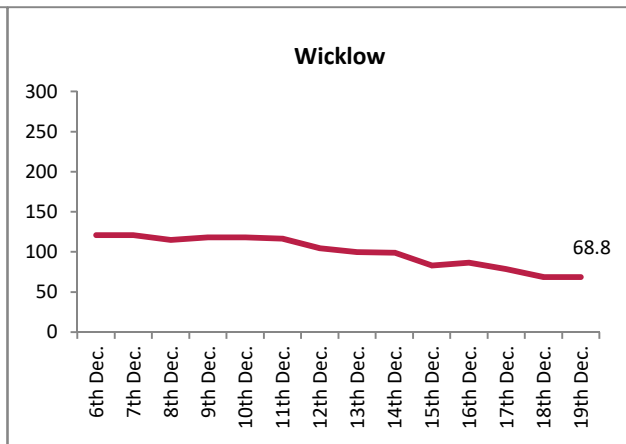
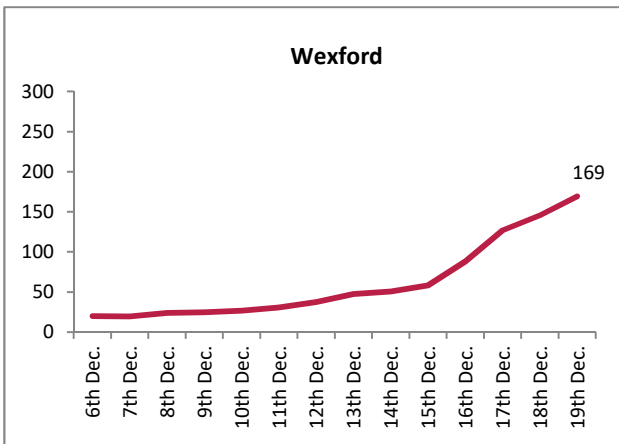
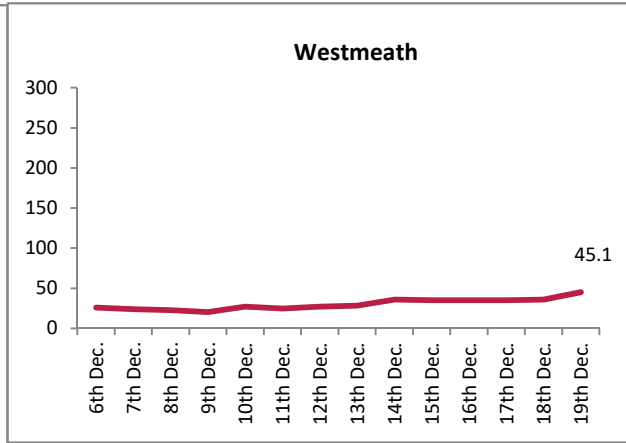
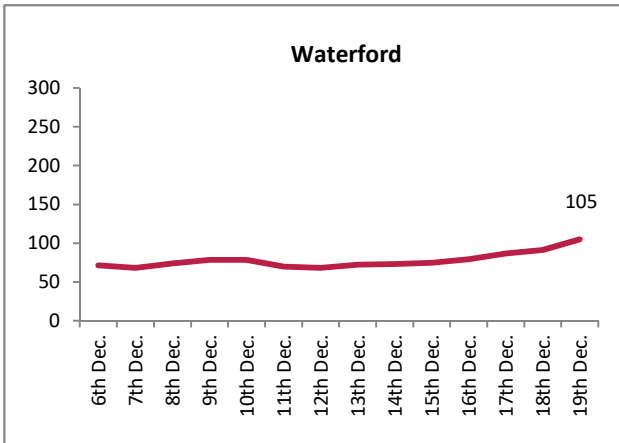


Figure B. 14 day cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 by Dublin CCA (06/12/2020 to 19/12/2020)

