



Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 30/12/2020

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 16/12/2020 up to midnight 29/12/2020

	Number	Percent
Total number of confirmed cases	12,987	
National incidence of confirmed cases per 100,000 population	272.73	
Number of cases hospitalised*	436	3.36
Number of cases admitted to ICU*	13	0.1
Number of deaths among confirmed cases	32	0.25
Case fatality ratio (CFR, %)	0.25	
National incidence of confirmed deaths per 100,000 population	0.67	
Number of cases** associated with clusters	1,290	9.93
Number of imported cases	16	0.12
Number of cases in healthcare workers	657	5.06
Males	6,479	49.89
Females	6,466	49.79
M:F ratio	1	
Median age (years)	35	
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
16/12/2020 - 29/12/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 09:24 on 30/12/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.

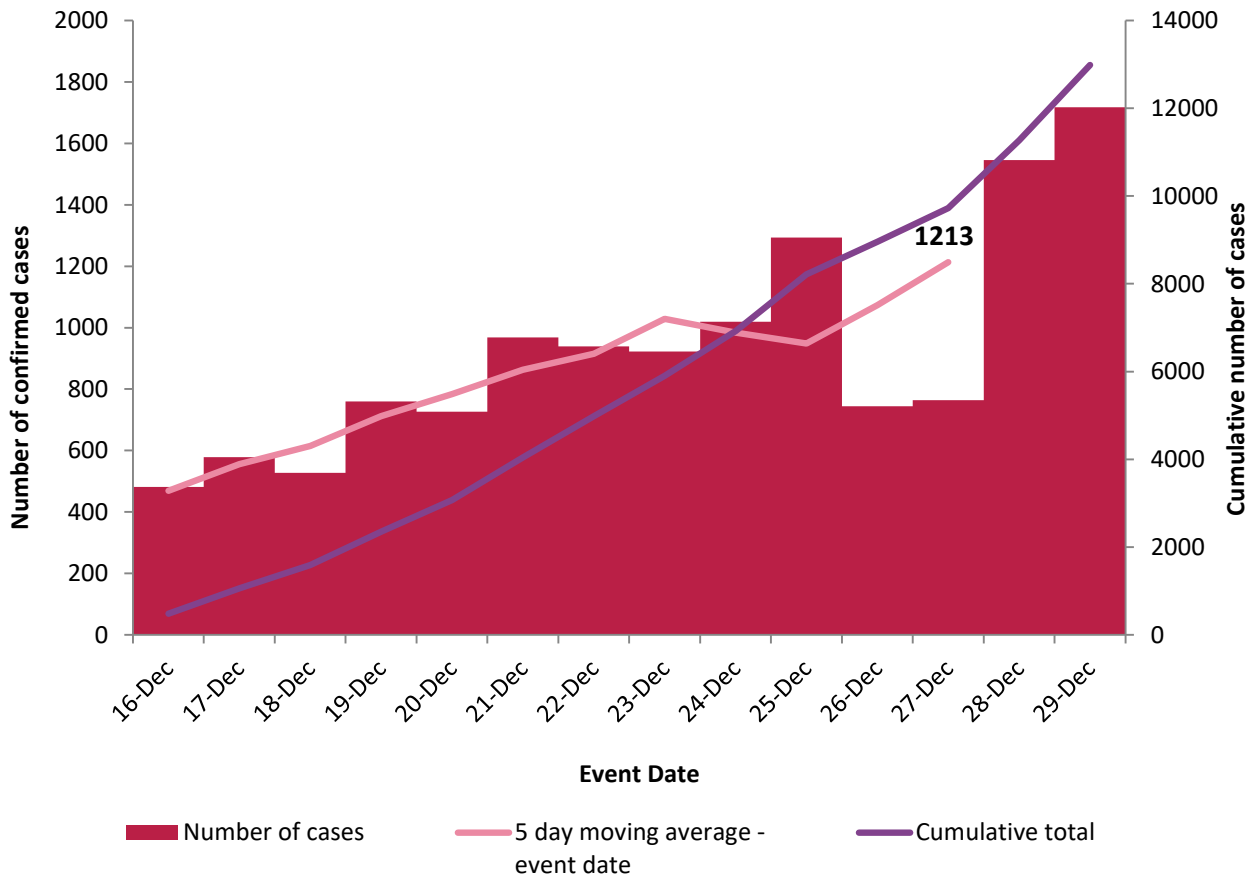


Figure 1. Daily number and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date (n=12,987)

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 16/12/2020 up to midnight on 29/12/202

Characteristic		Number of cases	Percent
Total number of confirmed cases		12,987	100
Sex	Male:Female ratio	1	
	Male	6,479	49.89
	Female	6,466	49.79
	Unknown	42	0.32
Age	Median age (years)	35	
	Mean age (years)	37	
	Age range (years)	0 - 102	
	0-4 yrs	442	3.4
	5-12 yrs	779	6
	13-18 yrs	783	6.03
	19-24 yrs	1,917	14.76
	25-34 yrs	2,517	19.38
	35-44 yrs	2,046	15.75
	45-54 yrs	1,791	13.79
	55-64 yrs	1,427	10.99
	65-74 yrs	671	5.17
	75-84 yrs	384	2.96
	85+ yrs	227	1.75
	Unknown	3	0.02
Underlying clinical conditions	Yes	1,725	13.28
	No	4,536	34.93
	Unknown	6,726	51.79
Symptom status at time of test*	Yes	4,650	35.81
	No	1,485	11.43
	Unknown	6,852	52.76

*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 16/12/2020 to midnight 29/12/2020

CHO Area	Number of confirmed cases	Incidence per 100,000 population
CHO1	1,579	403.5
CHO2	826	182.3
CHO3	1121	291.2
CHO4	1,710	247.6
CHO5	1,298	254.3
CHO6	1192	311.1
CHO7	1,542	217.9
CHO8	1,641	265.0
CHO9	2,077	334.2
Unknown	1	
Total	12,987	272.7

Table 3: Number of confirmed COVID-19 cases by county notified in Ireland from 16/12/2020 to midnight 29/12/2020

County	Number of confirmed cases	Incidence per 100,000 population
Donegal	828	520.1
Monaghan	316	514.8
Louth	641	497.3
Limerick	792	406.4
Wexford	571	381.4
Kilkenny	308	310.4
Dublin	4157	308.5
Cavan	227	298.0
Kerry	436	295.2
Sligo	178	271.6
Meath	525	269.2
Laois	201	237.3
Carlow	135	237.1
Cork	1274	234.7
Mayo	273	209.2
Kildare	453	203.6
Waterford	216	185.9
Galway	473	183.3
Clare	214	180.1
Westmeath	149	167.8
Wicklow	202	141.8
Roscommon	80	123.9
Tipperary	184	115.3
Offaly	83	106.5
Longford	41	100.3
Leitrim	30	93.6
Total	12,987	272.7

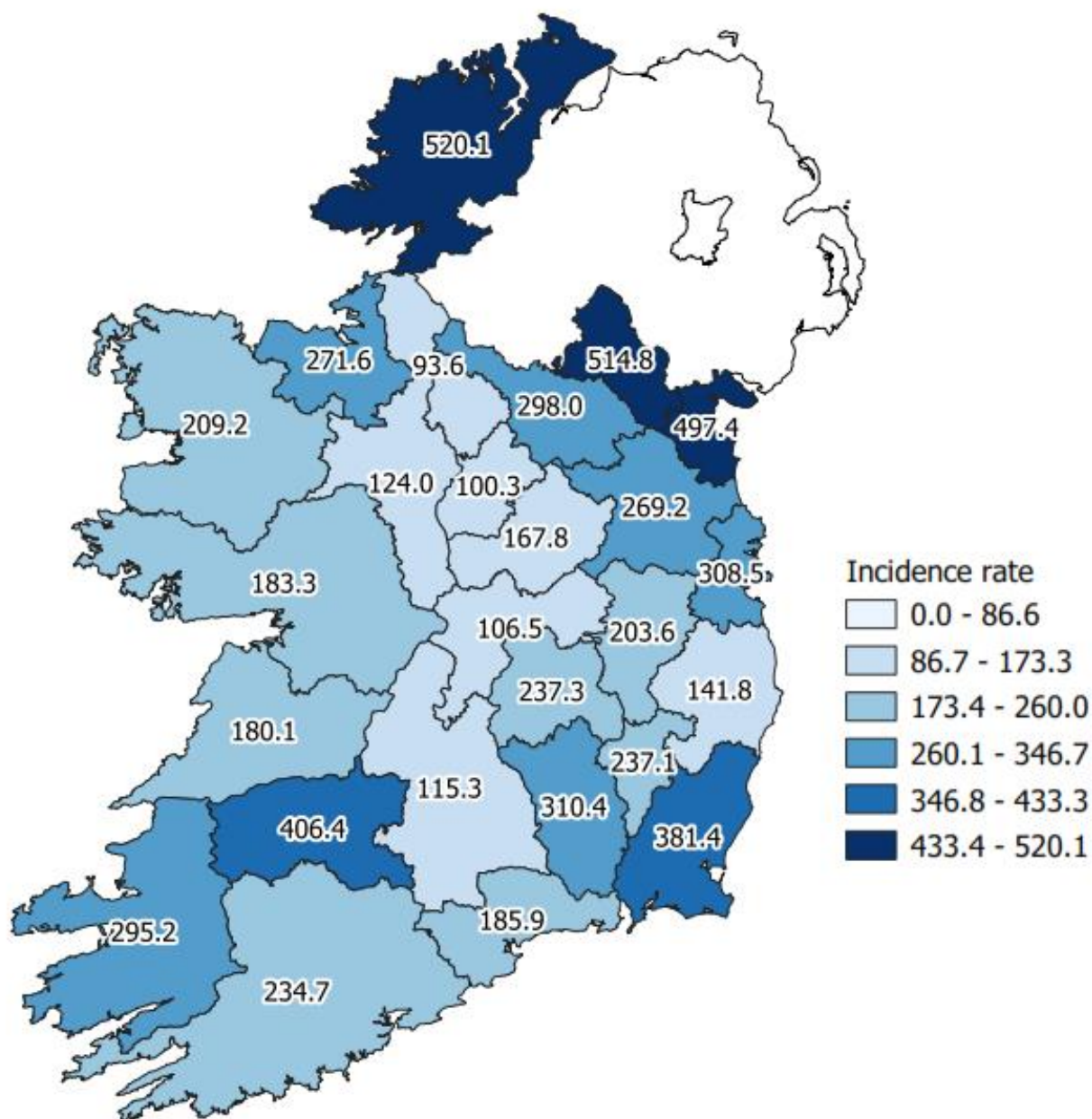


Figure 2: Cumulative incidence rates of confirmed COVID-19 cases per 100,000 population by county notified in Ireland between 16/12/2020 and 29/12/2020

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 16/12/2020 and 29/12/2020

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	282	207.2
CCA2	Dublin South East	718	580.4
CCA3	Dublin South City	317	211.4
CCA4	Dublin South West	342	212.6
CCA5	Dublin West	420	270.4
CCA6	Dublin North West	716	344.8
CCA7	Dublin North Central	749	484.5
CCA8	Dublin North	612	236.2
	Unknown	1	
	Dublin	4157	308.5

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.

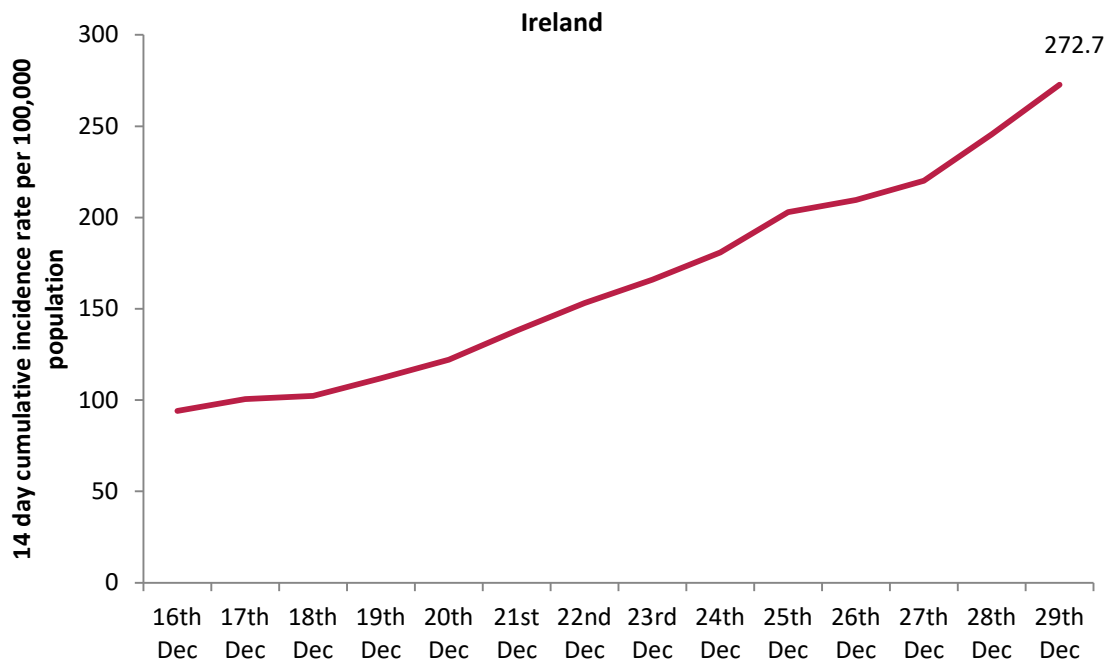


Figure 3: 14 day cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 in Ireland (16/12/2020 to 29/12/2020)

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 16/12/2020 to midnight 29/12/2020

Most likely transmission source	Number of cases	Percent
Travel related	122	0.94%
Close contact with a known confirmed case	3272	25.19%
Healthcare setting acquired: patient	208	1.60%
Healthcare setting acquired: staff	280	2.16%
Community transmission	1850	14.25%
Under investigation	7255	55.86%
Total	12987	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 16/12/2020 to midnight 29/12/2020 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	442	3	0.69	0	0
5-12 yrs	779	9	2.06	0	0
13-18 yrs	783	10	2.29	0	0
19-24 yrs	1917	27	6.19	0	0
25-34 yrs	2517	35	8.03	1	7.69
35-44 yrs	2046	32	7.34	1	7.69
45-54 yrs	1791	52	11.93	1	7.69
55-64 yrs	1427	52	11.93	6	46.15
65-74 yrs	671	62	14.22	2	15.38
75-84 yrs	384	88	20.18	2	15.38
85+ yrs	227	66	15.14	0	0
Unknown	3	0	0	0	0
Total	12,987	436	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 09:24 on 30/12/2020. 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.

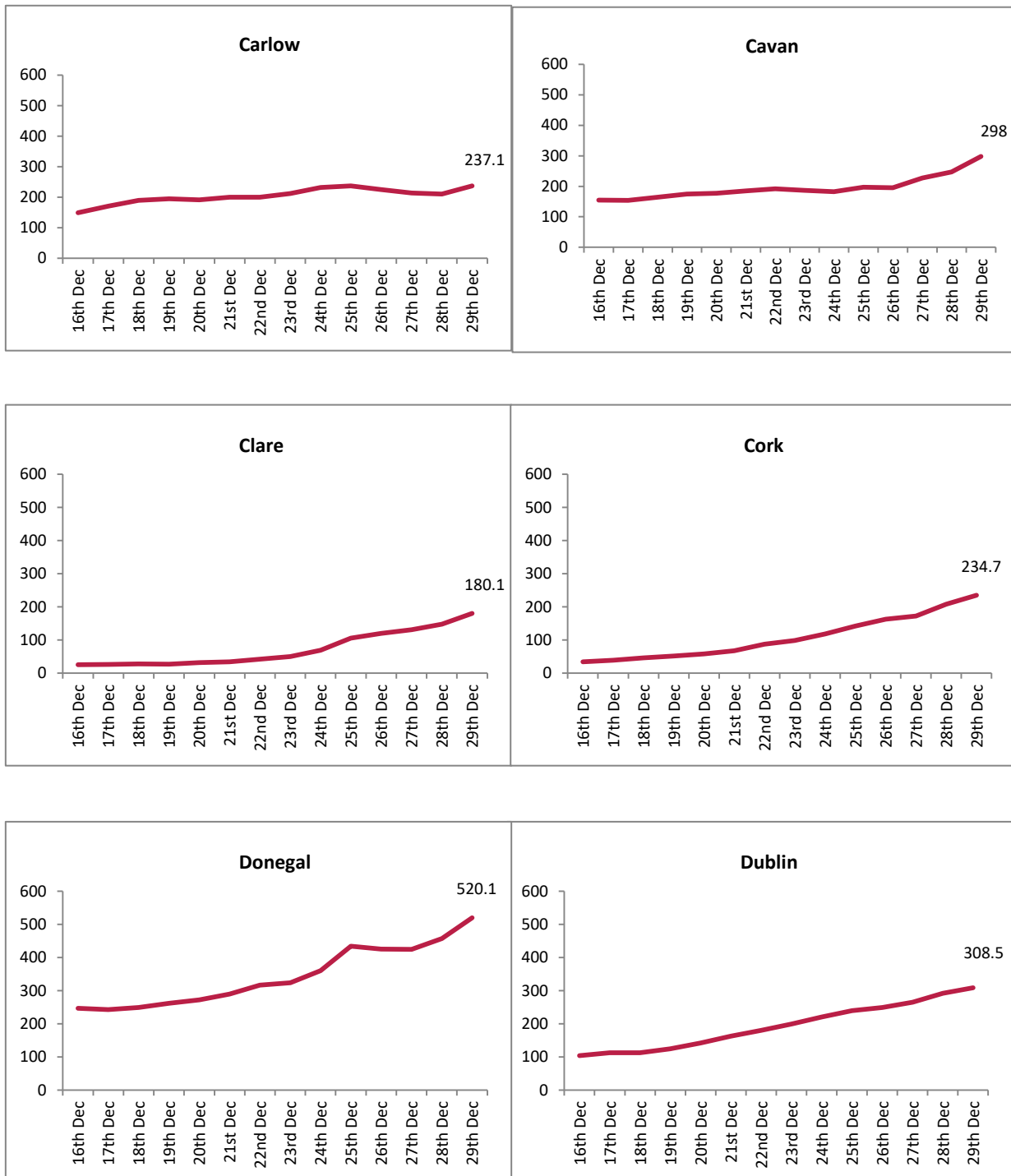
5. Outbreak location

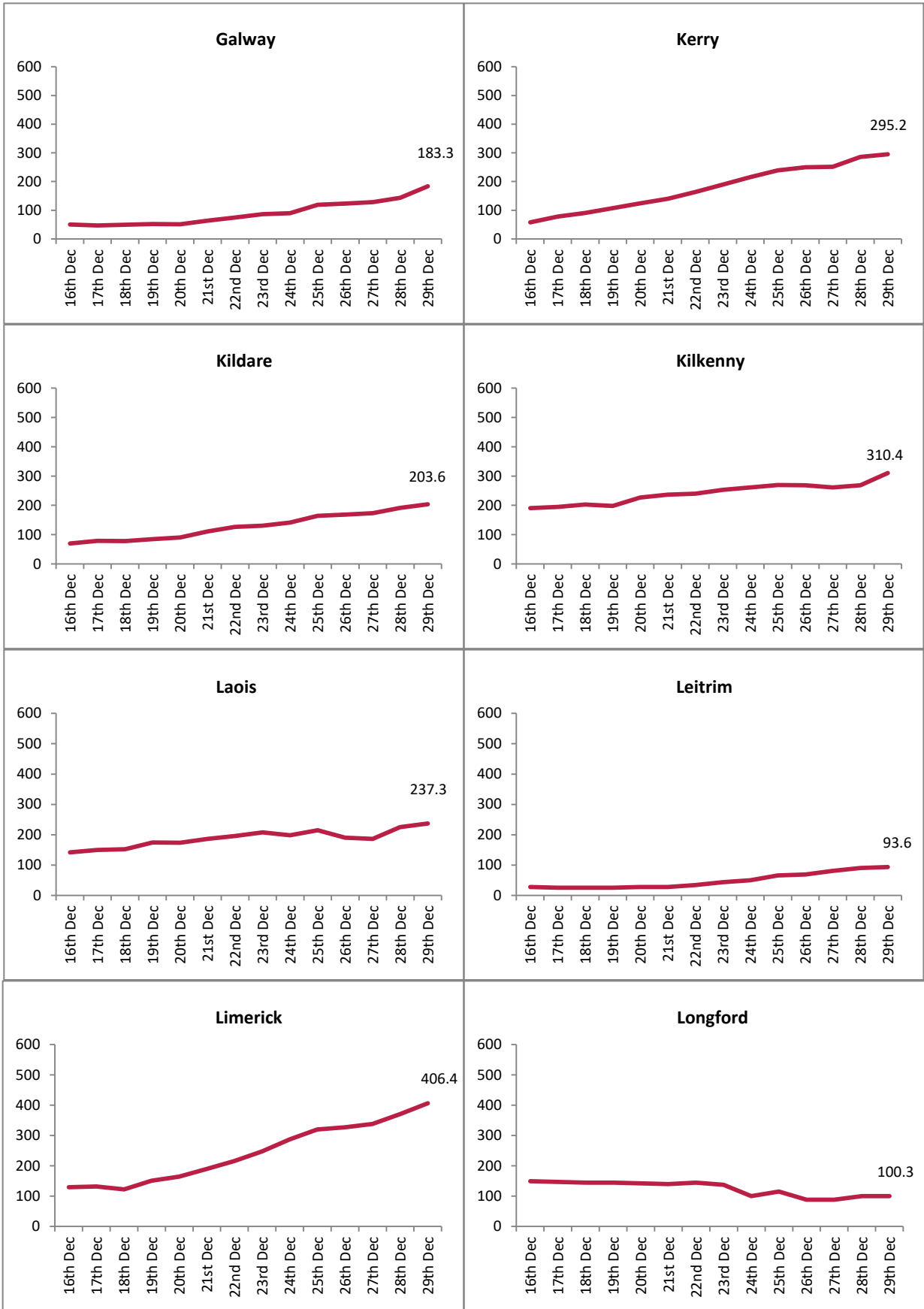
Where an outbreak location is reported as a residential facility (RF) this includes nursing homes, community hospitals, long-stay units and residential institutions including mental health facilities, prisons and direct provision centres.

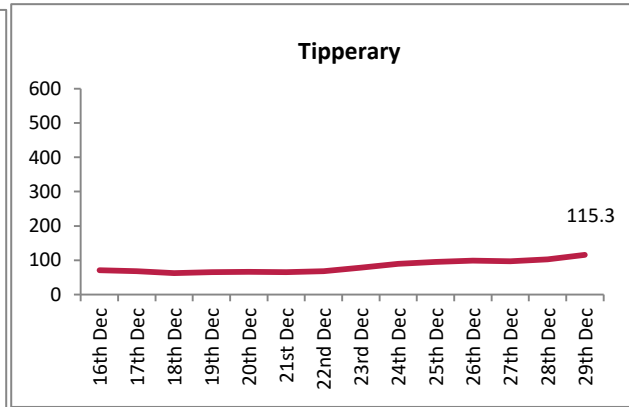
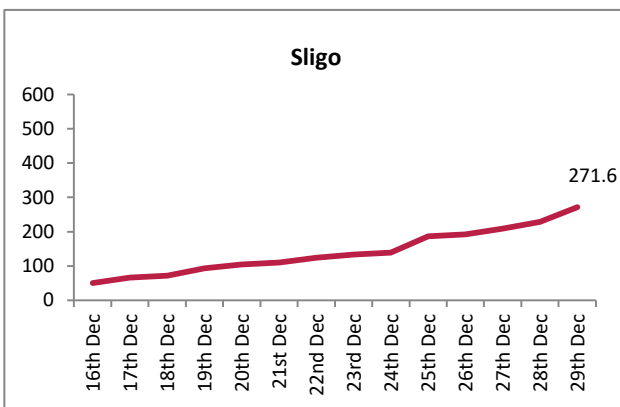
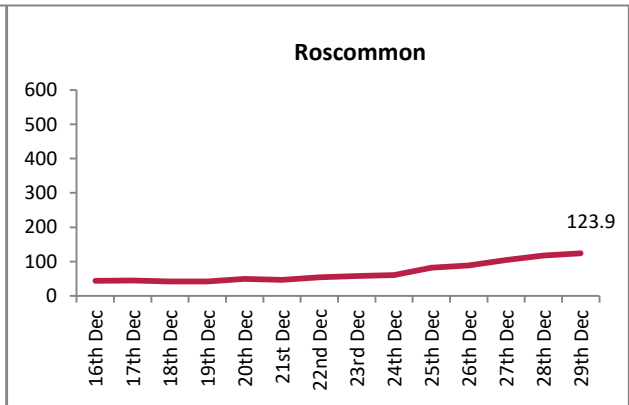
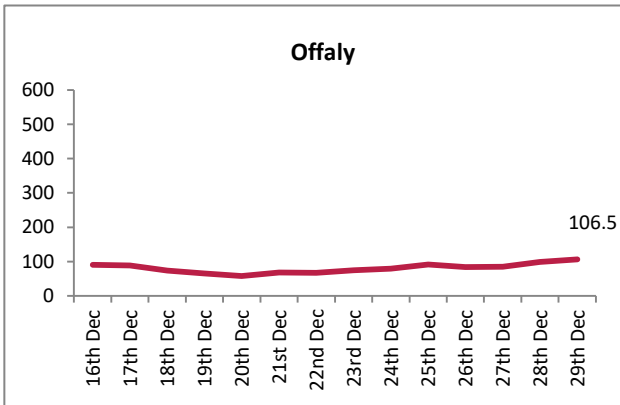
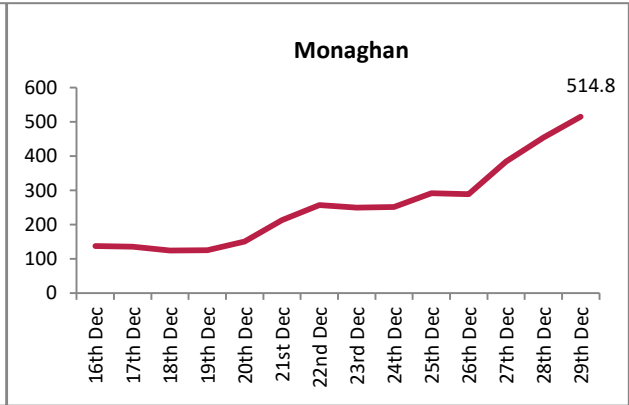
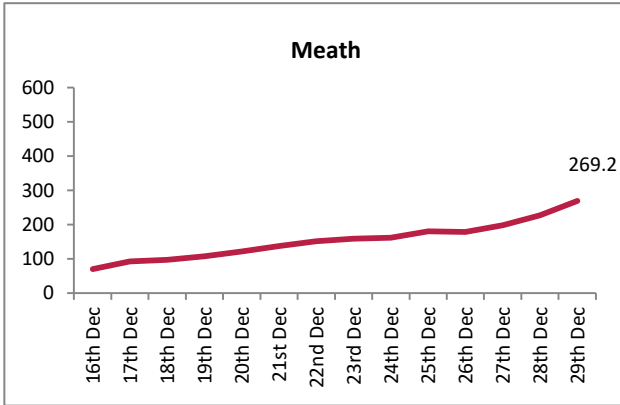
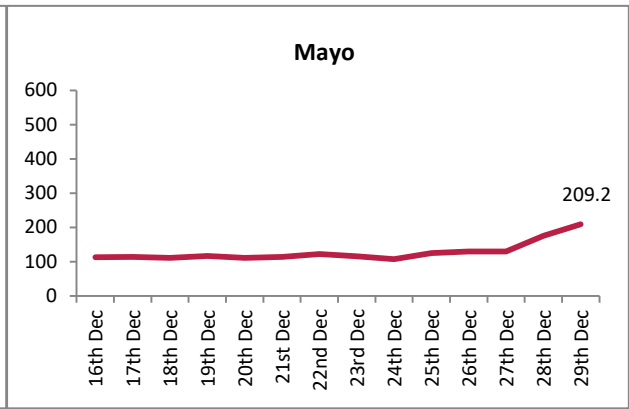
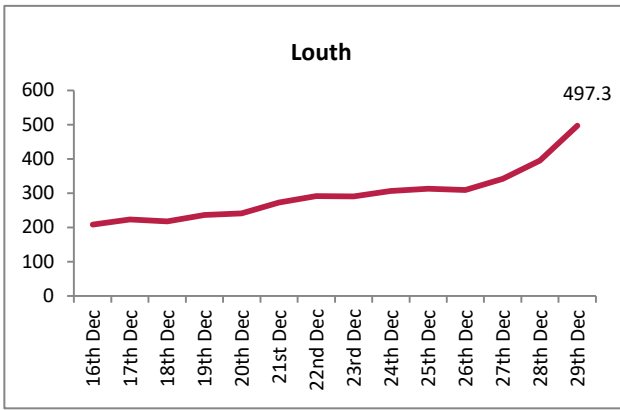
Other outbreak location includes community, extended family, hotel, public house, retail outlet, travel related and all other locations.

Appendix 1

Figure A. 14 day cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 by county (16/12/2020 to 29/12/2020)







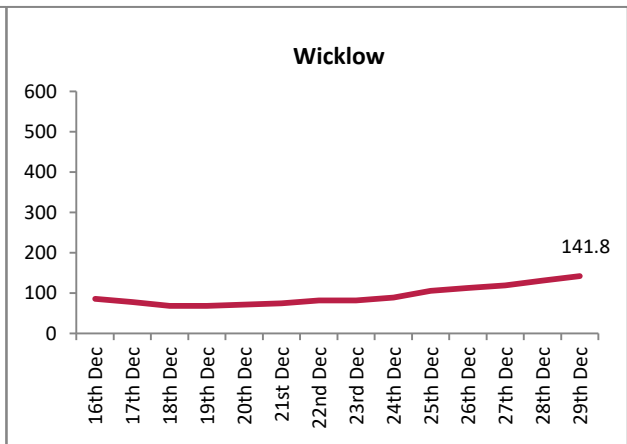
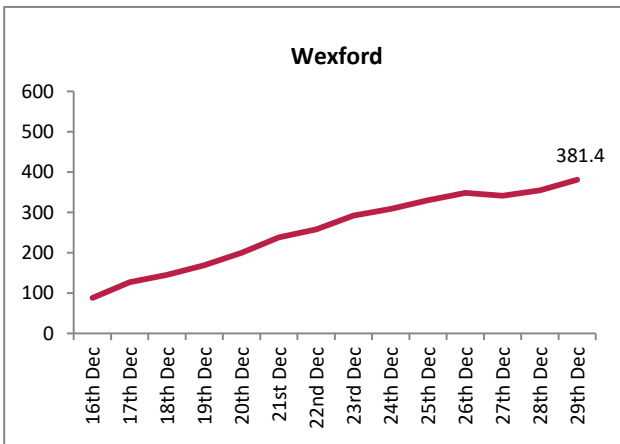
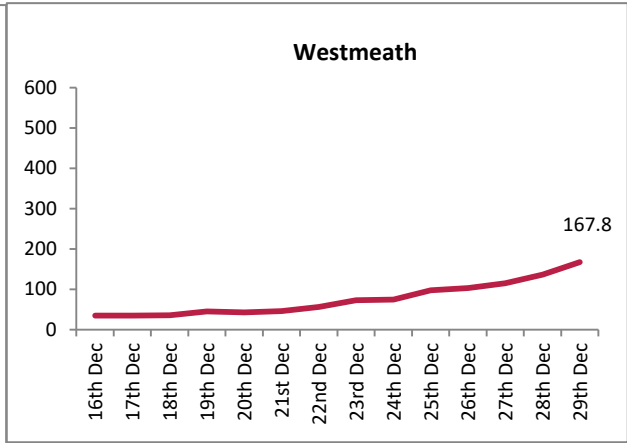
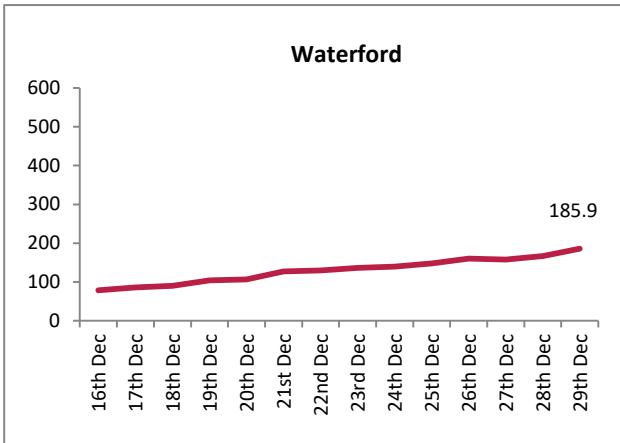


Figure B. 14 day cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 by Dublin CCA (16/12/2020 to 29/12/2020)

