



Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 18/12/2020

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 04/12/2020 up to midnight 17/12/2020

	Number	Percent
Total number of confirmed cases	4,798	
National incidence of confirmed cases per 100,000 population	100.76	
Number of cases hospitalised*	257	5.36
Number of cases admitted to ICU*	14	0.29
Number of deaths among confirmed cases	12	0.25
Case fatality ratio (CFR, %)	0.25	
National incidence of confirmed deaths per 100,000 population	0.25	
Number of cases** associated with clusters	1,555	32.41
Number of imported cases	15	0.31
Number of cases in healthcare workers	526	10.96
Males	2,305	48.04
Females	2,477	51.63
M:F ratio	0.93	
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
04/12/2020 - 17/12/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 09:20 on 18/12/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.

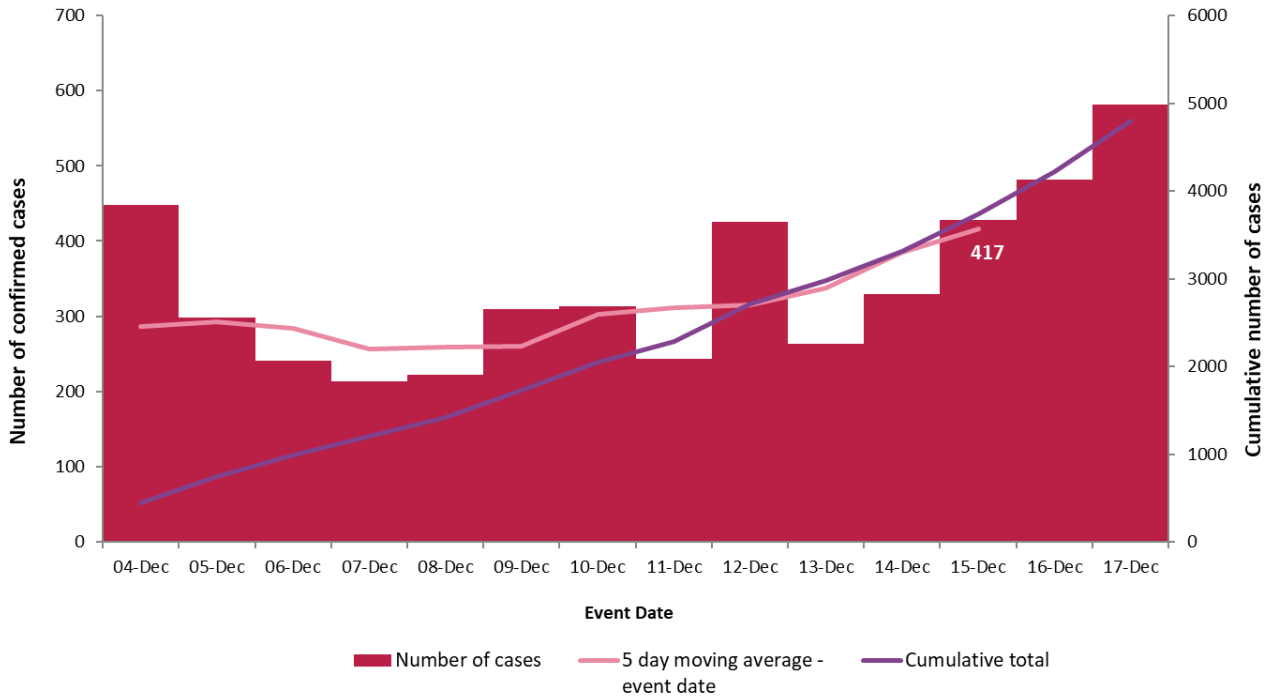


Figure 1. Daily number and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date (n=4,798)

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 04/12/2020 up to midnight on 17/12/202

Characteristic		Number of cases	Percent
Total number of confirmed cases		4,798	100
Sex	Male:Female ratio	0.93	
	Male	2,305	48.04
	Female	2,477	51.63
	Unknown	16	0.33
Age	Median age (years)	36	
	Mean age (years)	38	
	Age range (years)	0 - 102	
	0-4 yrs	189	3.94
	5-12 yrs	469	9.77
	13-18 yrs	355	7.4
	19-24 yrs	438	9.13
	25-34 yrs	824	17.17
	35-44 yrs	745	15.53
	45-54 yrs	694	14.46
	55-64 yrs	507	10.57
	65-74 yrs	248	5.17
	75-84 yrs	188	3.92
	85+ yrs	141	2.94
Underlying clinical conditions	Yes	1,333	27.78
	No	2,715	56.59
	Unknown	750	15.63
Symptom status at time of test*	Yes	2,826	58.9
	No	1,122	23.38
	Unknown	850	17.72

*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 04/12/2020 to midnight 17/12/2020

CHO Area	Number of confirmed cases	Incidence per 100,000 population
CHO1	639	163.3
CHO2	298	65.8
CHO3	329	85.5
CHO4	325	47.1
CHO5	651	127.6
CHO6	464	121.1
CHO7	529	74.7
CHO8	752	121.4
CHO9	811	130.5
Unknown	0	
Total	4,798	100.8

Table 3: Number of confirmed COVID-19 cases by county notified in Ireland from 04/12/2020 to midnight 17/12/2020

County	Number of confirmed cases	Incidence per 100,000 population
Donegal	389	244.4
Louth	287	222.7
Kilkenny	193	194.5
Carlow	97	170.4
Cavan	117	153.6
Laois	127	149.9
Longford	60	146.8
Monaghan	82	133.6
Limerick	259	132.9
Wexford	191	127.6
Mayo	148	113.4
Dublin	1519	112.7
Meath	178	91.3
Offaly	69	88.5
Waterford	101	86.9
Kerry	116	78.5
Kildare	174	78.2
Wicklow	111	77.9
Tipperary	109	68.3
Sligo	43	65.6
Galway	121	46.9
Roscommon	29	44.9
Cork	209	38.5
Westmeath	31	34.9
Clare	30	25.2
Leitrim	8	25.0
Total	4,798	100.8

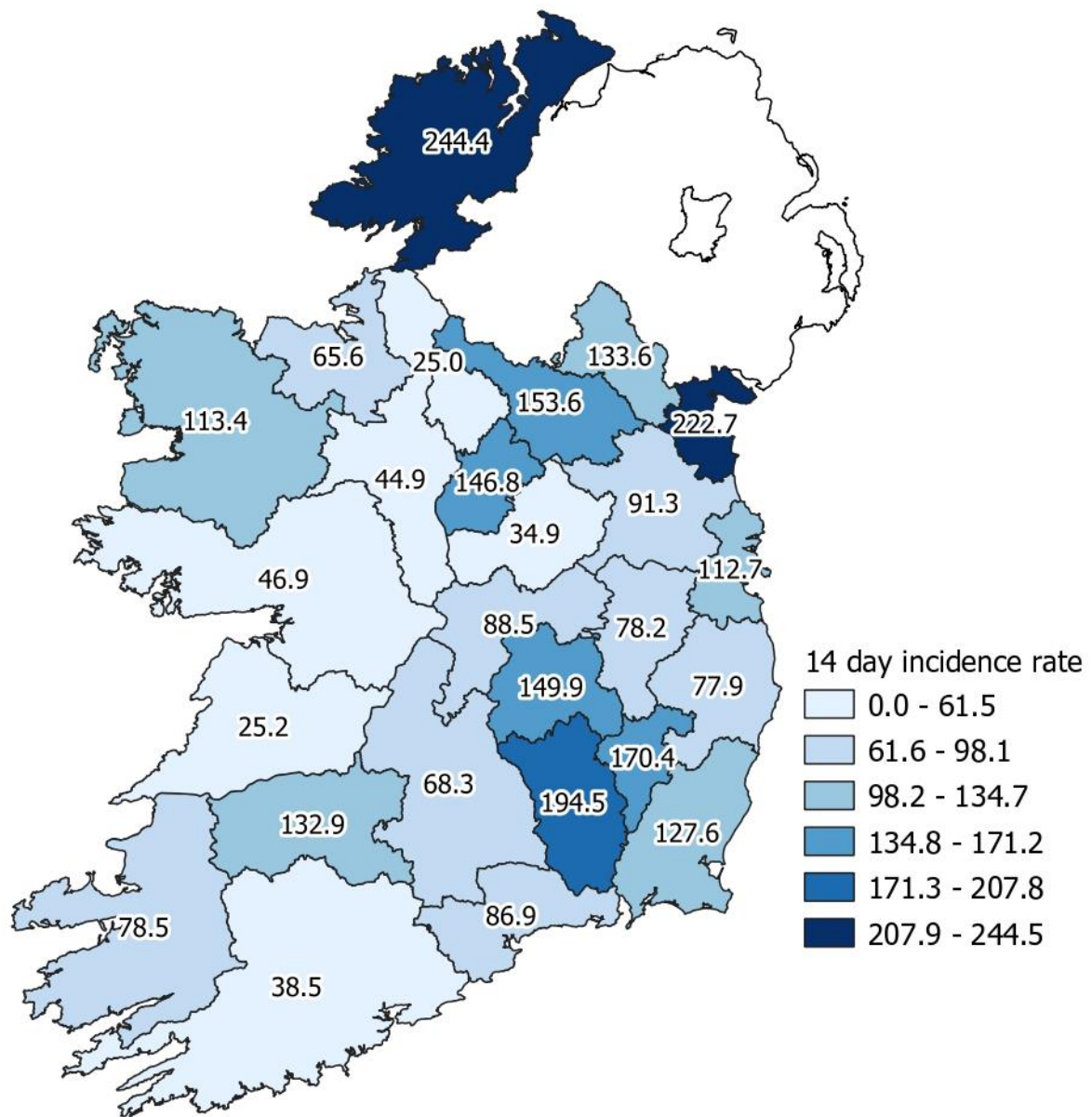


Figure 2: Cumulative incidence rates of confirmed COVID-19 cases per 100,000 population by county notified in Ireland between 04/12/2020 and 17/12/2020

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 04/12/2020 and 17/12/2020

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	102	75.0
CCA2	Dublin South East	252	203.7
CCA3	Dublin South City	107	71.4
CCA4	Dublin South West	105	65.3
CCA5	Dublin West	142	91.4
CCA6	Dublin North West	254	122.3
CCA7	Dublin North Central	255	165.0
CCA8	Dublin North	302	116.5
	Dublin	1,519	112.7

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.

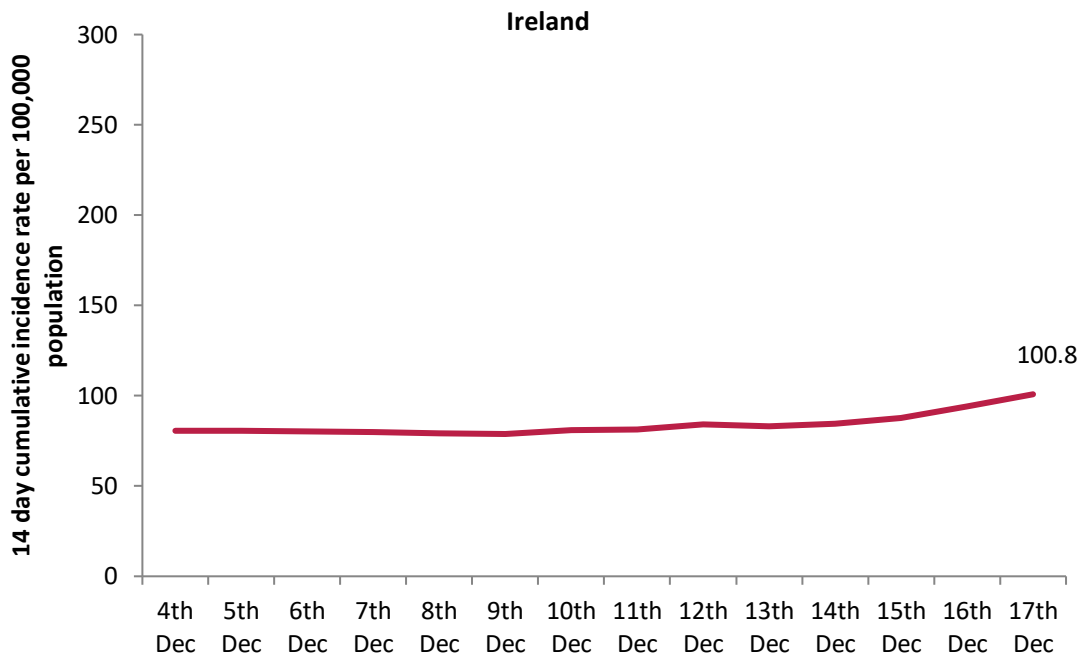


Figure 3: 14 day cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 in Ireland (04/12/2020 to 17/12/2020)

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 04/12/2020 to midnight 17/12/2020

Most likely transmission source	Number of cases	Percent
Travel related*	91	1.90%
Close contact with a known confirmed case	2298	47.89%
Healthcare setting acquired: patient	251	5.23%
Healthcare setting acquired: staff	249	5.19%
Community transmission	965	20.11%
Under investigation	944	19.67%
Total	4798	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 04/12/2020 to midnight 17/12/2020 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	189	1	0.39	0	0
5-12 yrs	469	3	1.17	0	0
13-18 yrs	355	7	2.72	0	0
19-24 yrs	438	8	3.11	0	0
25-34 yrs	824	15	5.84	0	0
35-44 yrs	745	15	5.84	2	14.29
45-54 yrs	694	25	9.73	3	21.43
55-64 yrs	507	34	13.23	2	14.29
65-74 yrs	248	56	21.79	3	21.43
75-84 yrs	188	57	22.18	3	21.43
85+ yrs	141	36	14.01	1	7.14
Total	4,798	257	100	14	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 09:20 on 18/12/2020. 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.

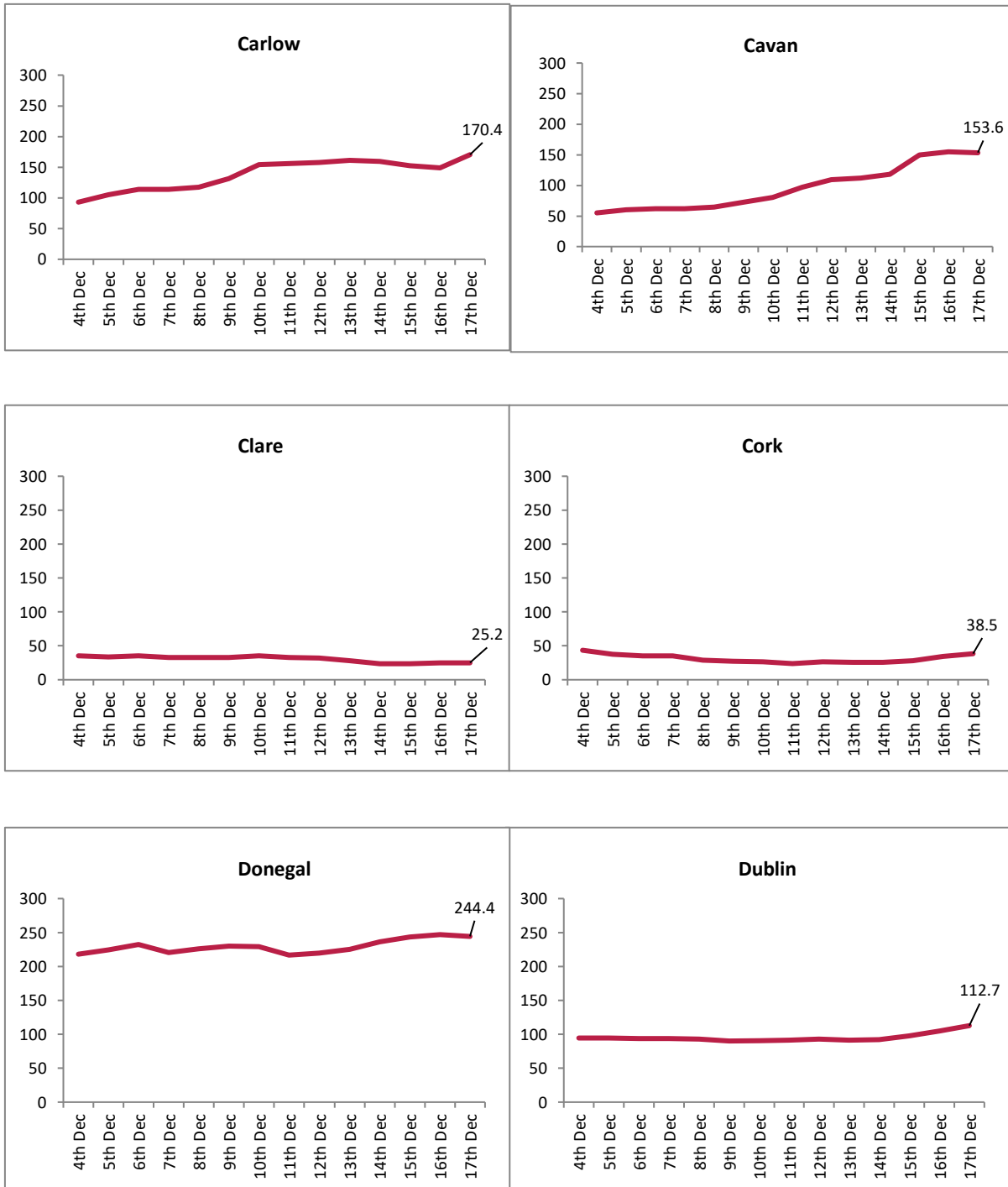
5. Outbreak location

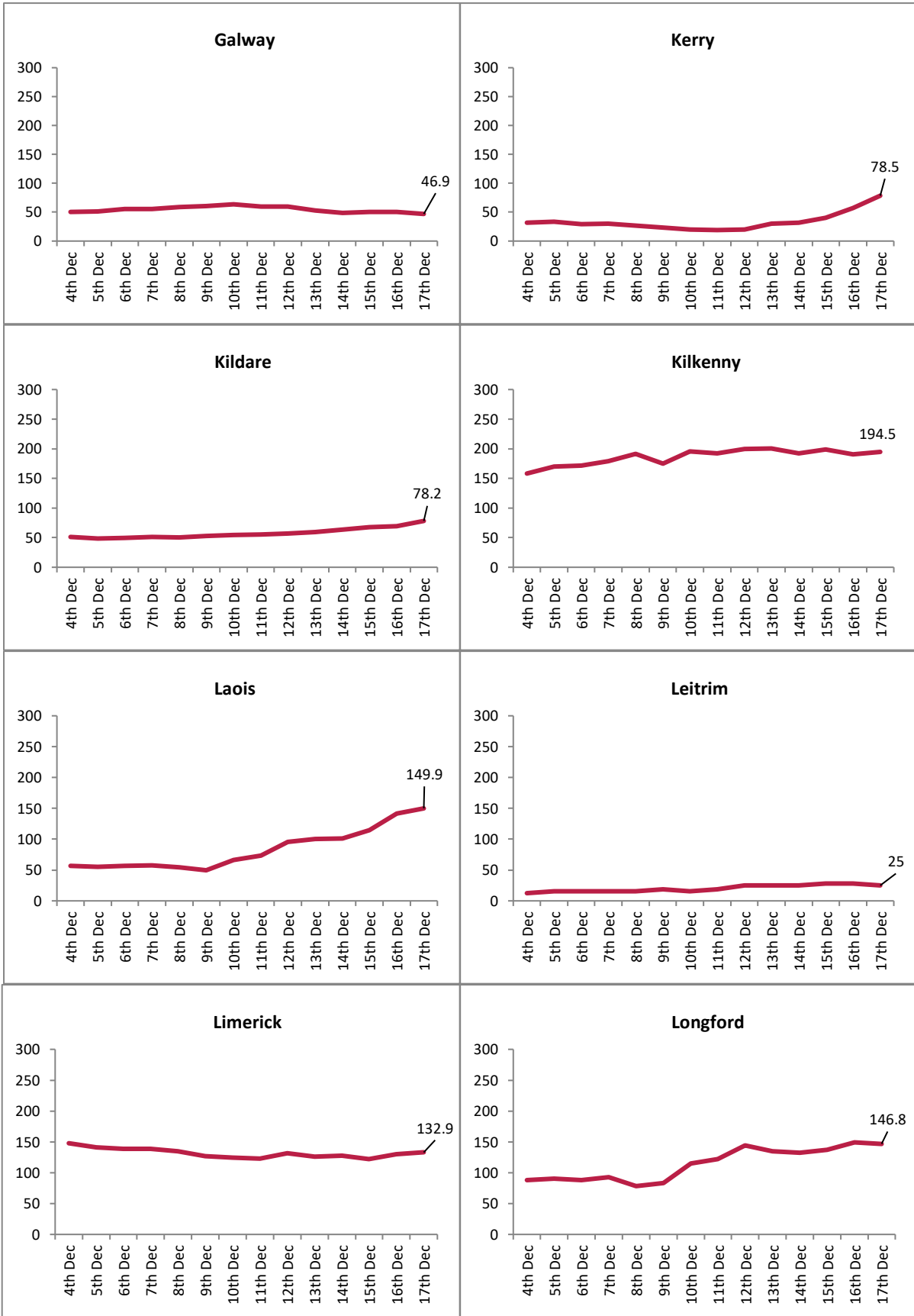
Where an outbreak location is reported as a residential facility (RF) this includes nursing homes, community hospitals, long-stay units and residential institutions including mental health facilities, prisons and direct provision centres.

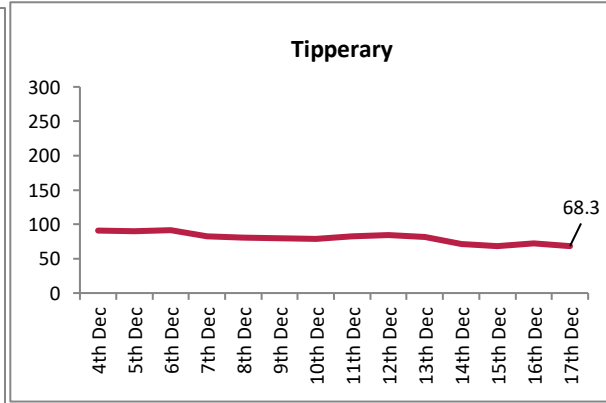
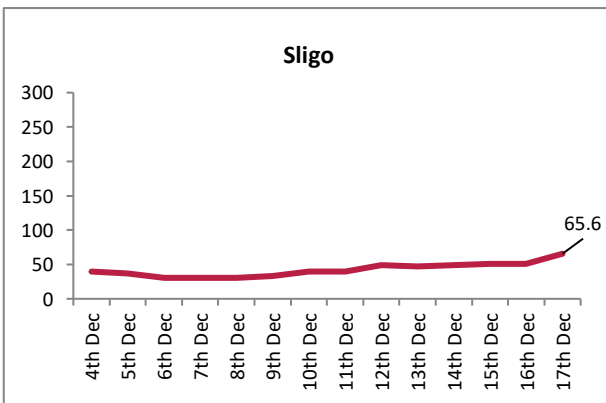
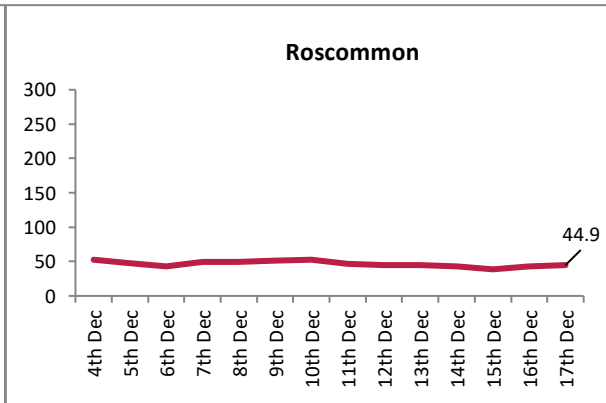
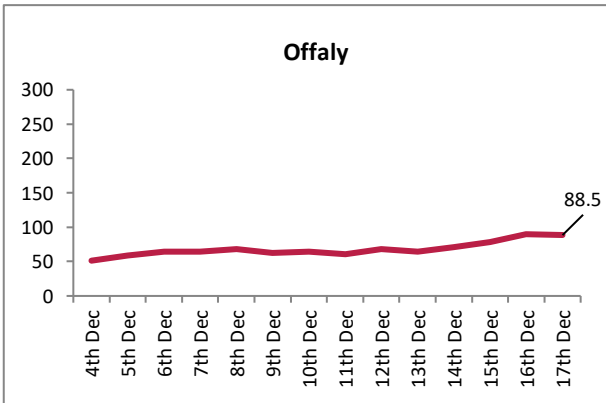
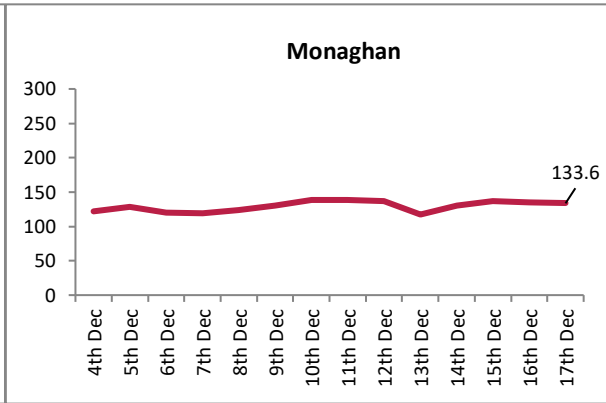
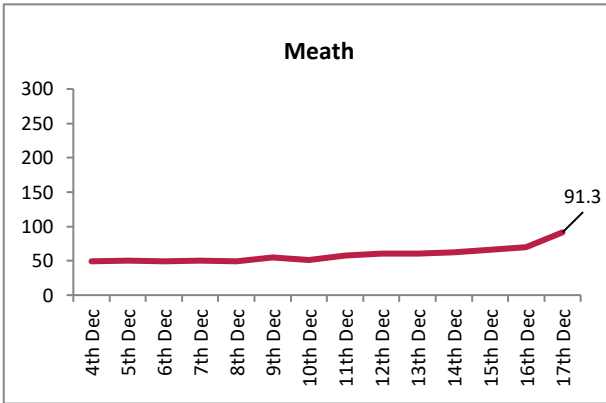
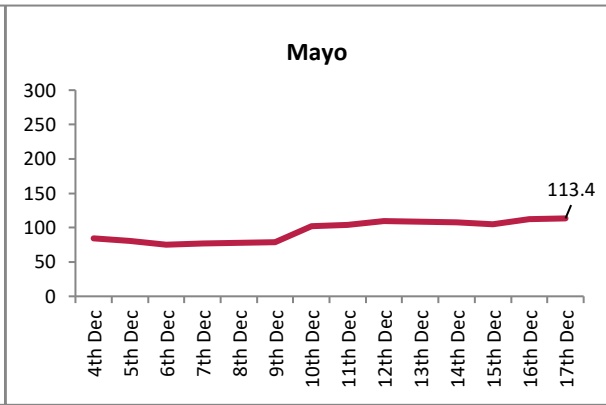
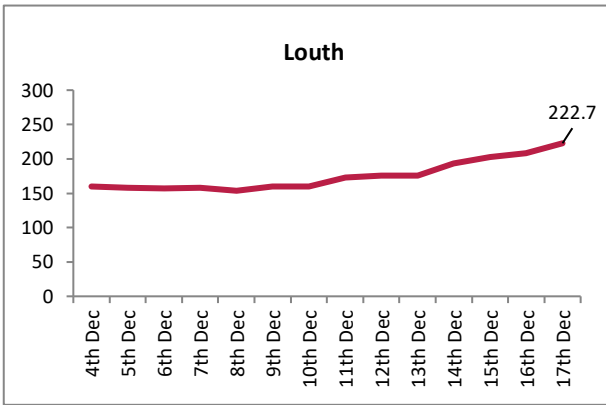
Other outbreak location includes community, extended family, hotel, public house, retail outlet, travel related and all other locations.

Appendix 1

Figure A. 14 day cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 by county (04/12/2020 to 17/12/2020)







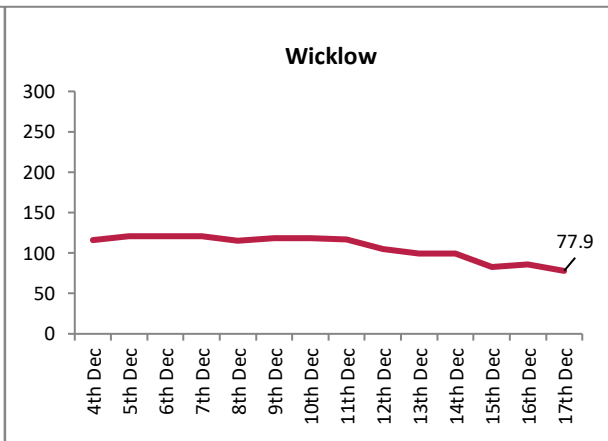
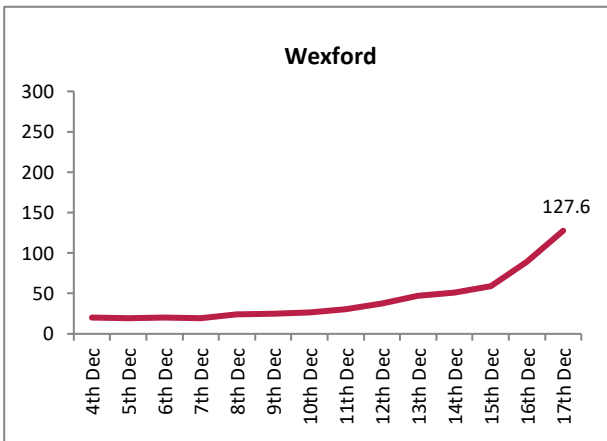
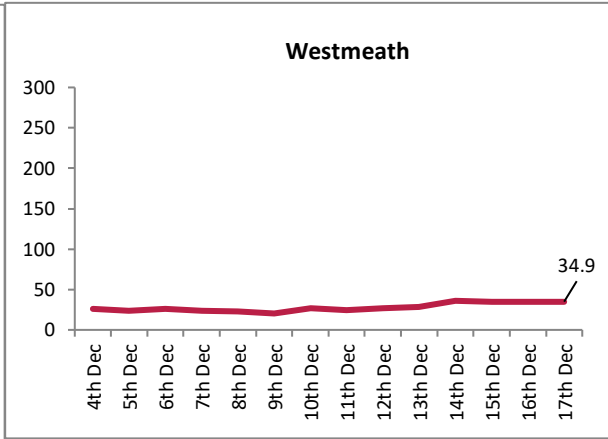
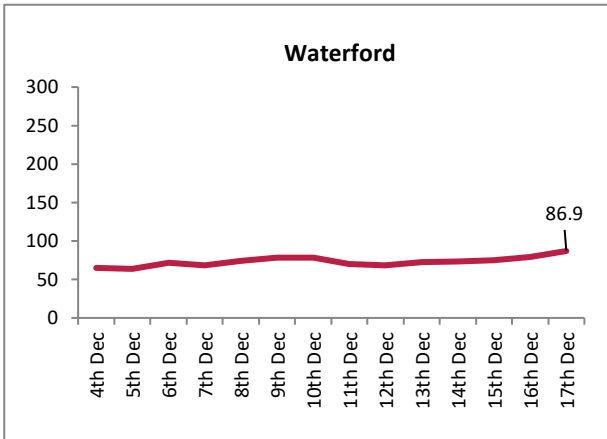


Figure B. 14 day cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 by Dublin CCA (04/12/2020 to 17/12/2020)

