



Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 17/12/2020

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 03/12/2020 up to midnight 16/12/2020

	Number	Percent
Total number of confirmed cases	4,486	
National incidence of confirmed cases per 100,000 population	94.21	
Number of cases hospitalised*	245	5.46
Number of cases admitted to ICU*	14	0.31
Number of deaths among confirmed cases	11	0.25
Case fatality ratio (CFR, %)	0.25	
National incidence of confirmed deaths per 100,000 population	0.23	
Number of cases** associated with clusters	1,498	33.39
Number of imported cases	17	0.38
Number of cases in healthcare workers	493	10.99
Males	2,133	47.55
Females	2,344	52.25
M:F ratio	0.91	
Median age (years)	36	
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
03/12/2020 - 16/12/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 09:20 on 17/12/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.

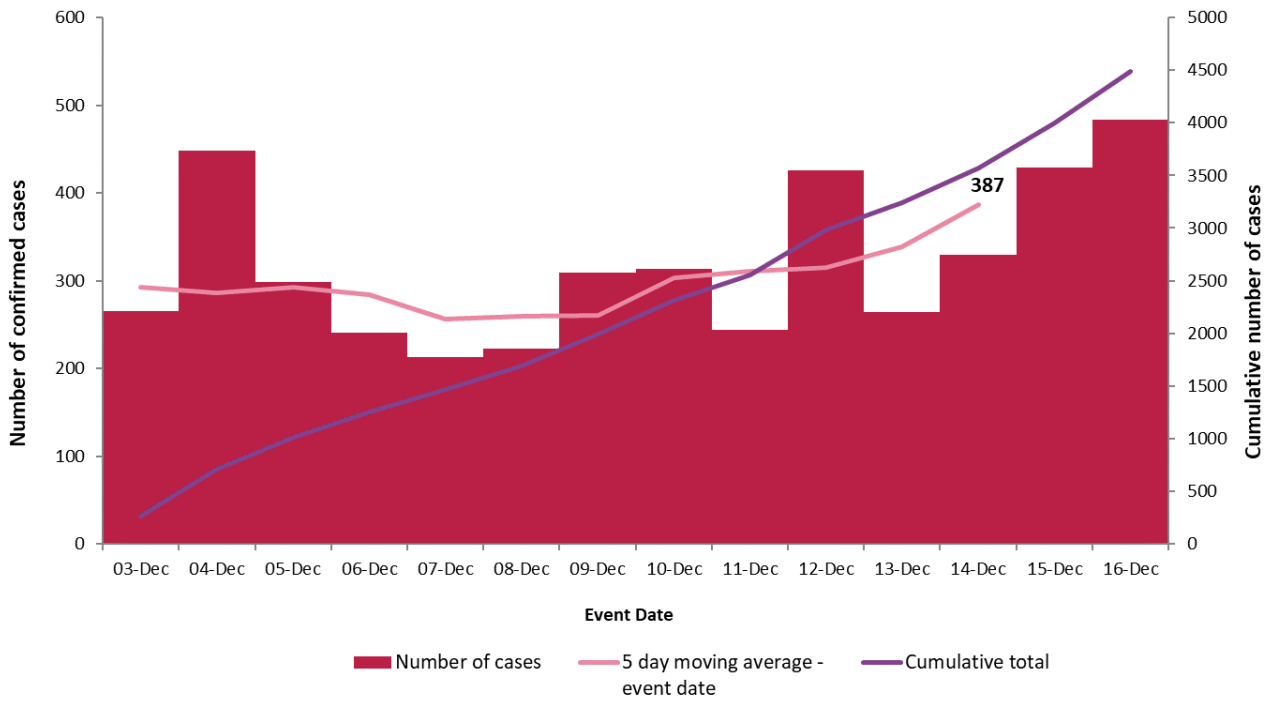


Figure 1. Daily number and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date (n=4,486)

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 03/12/2020 up to midnight on 16/12/202

Characteristic		Number of cases	Percent
Total number of confirmed cases		4,486	100
Sex	Male:Female ratio	0.91	
	Male	2,133	47.55
	Female	2,344	52.25
	Unknown	9	0.2
Age	Median age (years)	36	
	Mean age (years)	37	
	Age range (years)	0 - 102	
	0-4 yrs	181	4.03
	5-12 yrs	470	10.48
	13-18 yrs	344	7.67
	19-24 yrs	416	9.27
	25-34 yrs	743	16.56
	35-44 yrs	695	15.49
	45-54 yrs	663	14.78
	55-64 yrs	449	10.01
	65-74 yrs	224	4.99
	75-84 yrs	175	3.9
	85+ yrs	126	2.81
Underlying clinical conditions	Yes	1,279	28.51
	No	2,573	57.36
	Unknown	634	14.13
Symptom status at time of test*	Yes	2,679	59.72
	No	1,082	24.12
	Unknown	725	16.16

*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 03/12/2020 to midnight 16/12/2020

CHO Area	Number of confirmed cases	Incidence per 100,000 population
CHO1	636	162.5
CHO2	305	67.3
CHO3	326	84.7
CHO4	272	39.4
CHO5	573	112.3
CHO6	439	114.6
CHO7	493	69.7
CHO8	687	110.9
CHO9	755	121.5
Unknown	0	
Total	4,486	94.2

Table 3: Number of confirmed COVID-19 cases by county notified in Ireland from 03/12/2020 to midnight 16/12/2020

County	Number of confirmed cases	Incidence per 100,000 population
Donegal	393	246.9
Louth	268	207.9
Kilkenny	189	190.5
Cavan	118	154.9
Carlow	86	151.1
Longford	61	149.2
Laois	120	141.7
Monaghan	83	135.2
Limerick	255	130.8
Mayo	147	112.6
Dublin	1410	104.6
Offaly	71	91.1
Wexford	133	88.8
Wicklow	122	85.7
Waterford	92	79.2
Tipperary	114	71.4
Meath	136	69.7
Kildare	155	69.7
Kerry	85	57.5
Galway	130	50.4
Sligo	33	50.4
Roscommon	28	43.4
Westmeath	31	34.9
Cork	187	34.4
Leitrim	9	28.1
Clare	30	25.2
Total	4,486	94.2

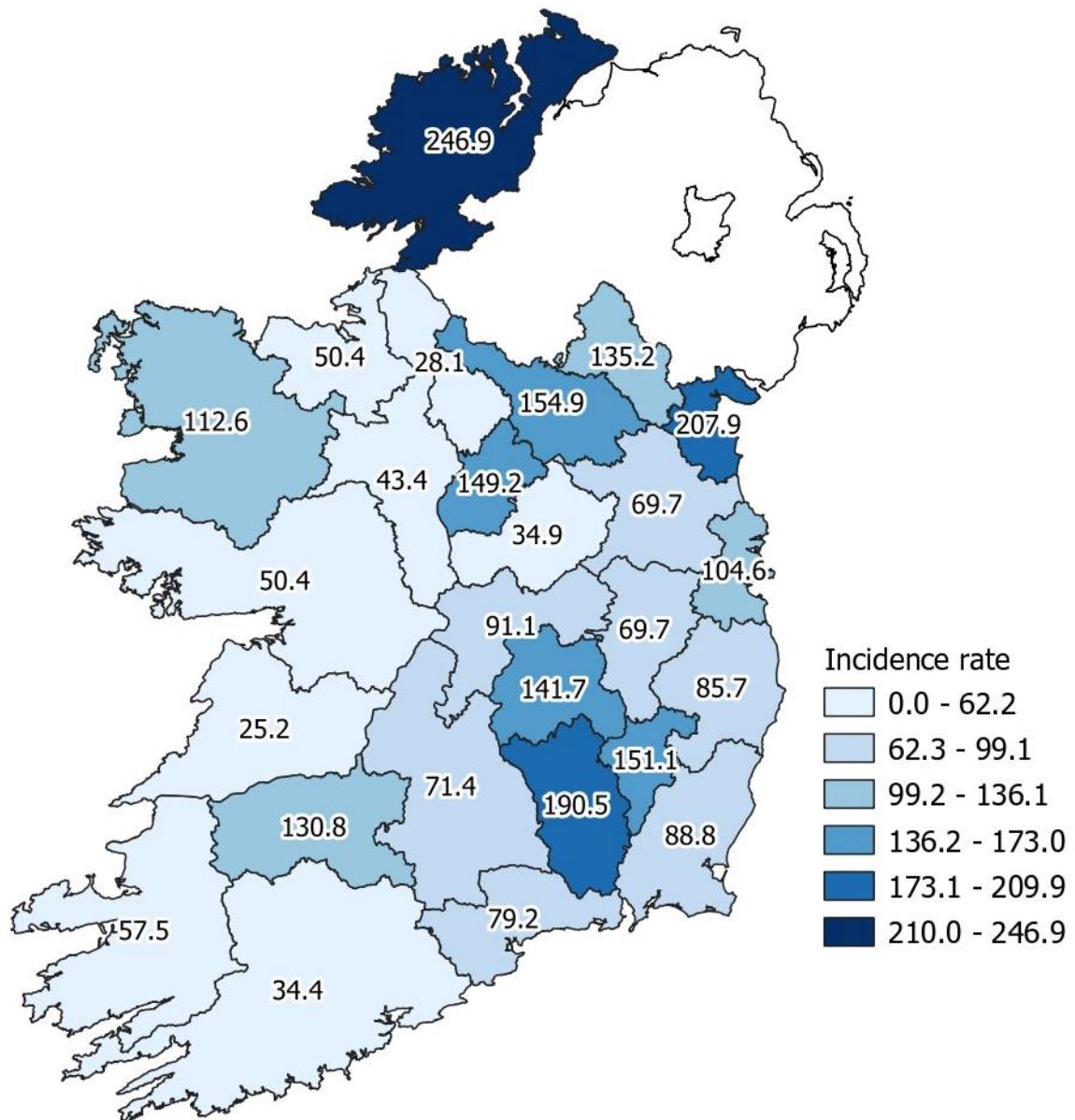


Figure 2: Cumulative incidence rates of confirmed COVID-19 cases per 100,000 population by county notified in Ireland between 03/12/2020 and 16/12/2020

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 03/12/2020 and 16/12/2020

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	96	70.5
CCA2	Dublin South East	222	179.5
CCA3	Dublin South City	98	65.4
CCA4	Dublin South West	97	60.3
CCA5	Dublin West	142	91.4
CCA6	Dublin North West	235	113.2
CCA7	Dublin North Central	239	154.6
CCA8	Dublin North	281	108.4
	Dublin	1,410	104.6

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.

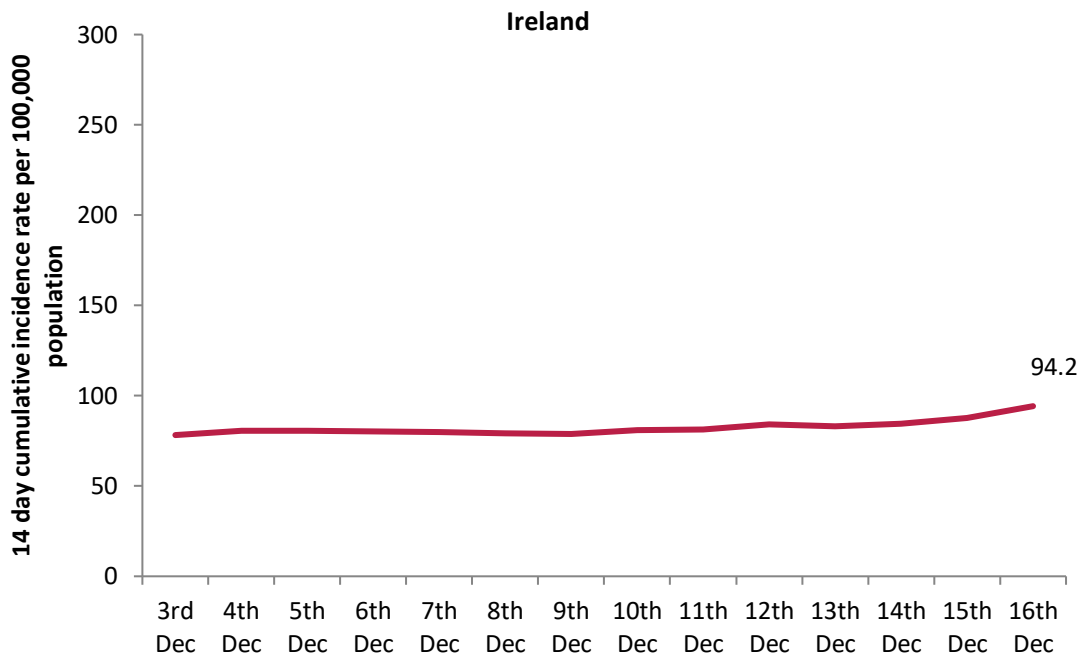


Figure 3: 14 day cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 in Ireland (03/12/2020 to 16/12/2020)

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 03/12/2020 to midnight 16/12/2020

Most likely transmission source	Number of cases	Percent
Travel related*	90	2.01%
Close contact with a known confirmed case	2226	49.62%
Healthcare setting acquired: patient	252	5.62%
Healthcare setting acquired: staff	226	5.04%
Community transmission	895	19.95%
Under investigation	797	17.77%
Total	4486	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 03/12/2020 to midnight 16/12/2020 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	181	2	0.82	0	0
5-12 yrs	470	3	1.22	0	0
13-18 yrs	344	8	3.27	0	0
19-24 yrs	416	6	2.45	0	0
25-34 yrs	743	15	6.12	1	7.14
35-44 yrs	695	15	6.12	2	14.29
45-54 yrs	663	22	8.98	3	21.43
55-64 yrs	449	33	13.47	2	14.29
65-74 yrs	224	52	21.22	2	14.29
75-84 yrs	175	55	22.45	3	21.43
85+ yrs	126	34	13.88	1	7.14
Total	4,486	245	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 09:32 on 17/12/2020. 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.

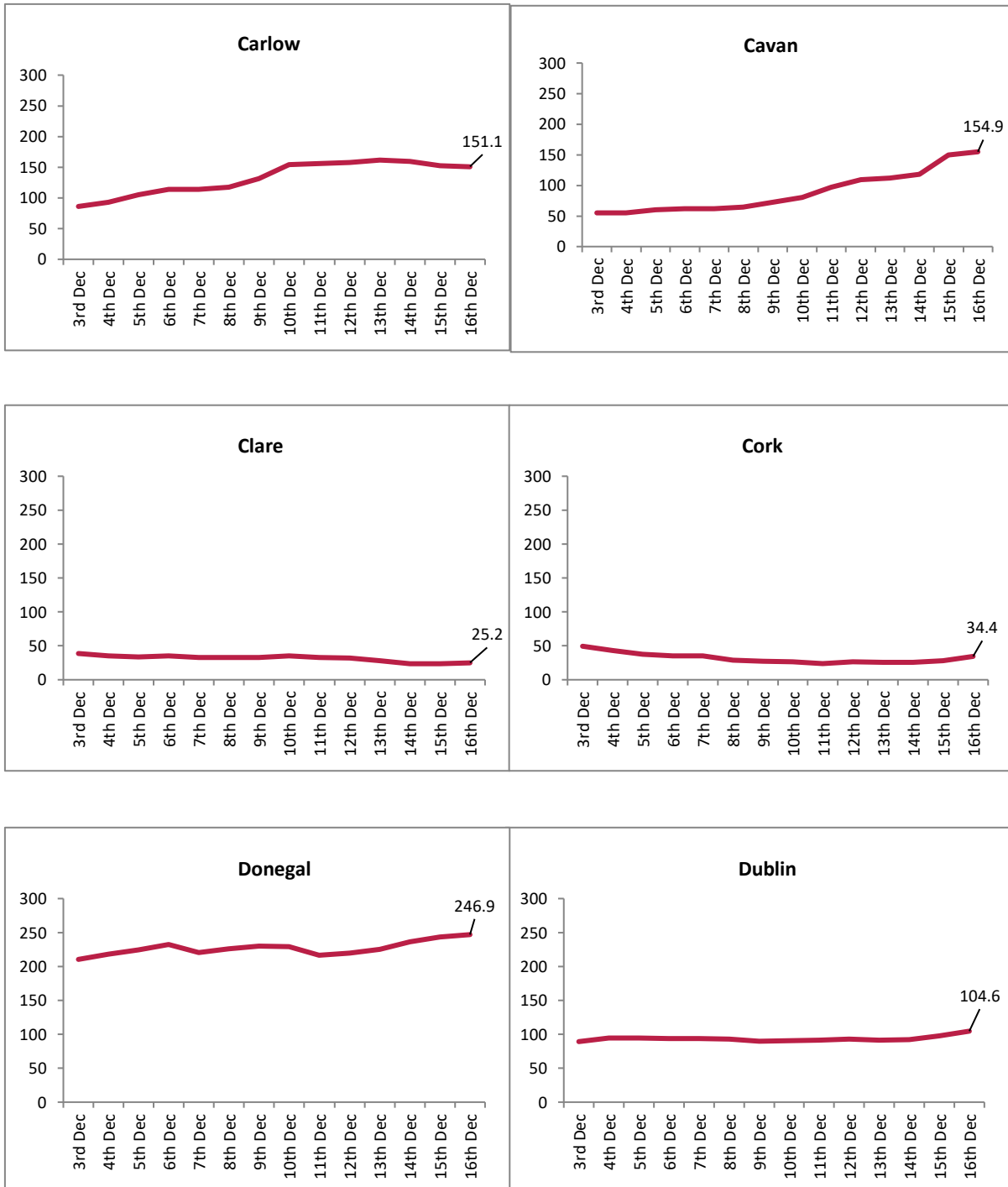
5. Outbreak location

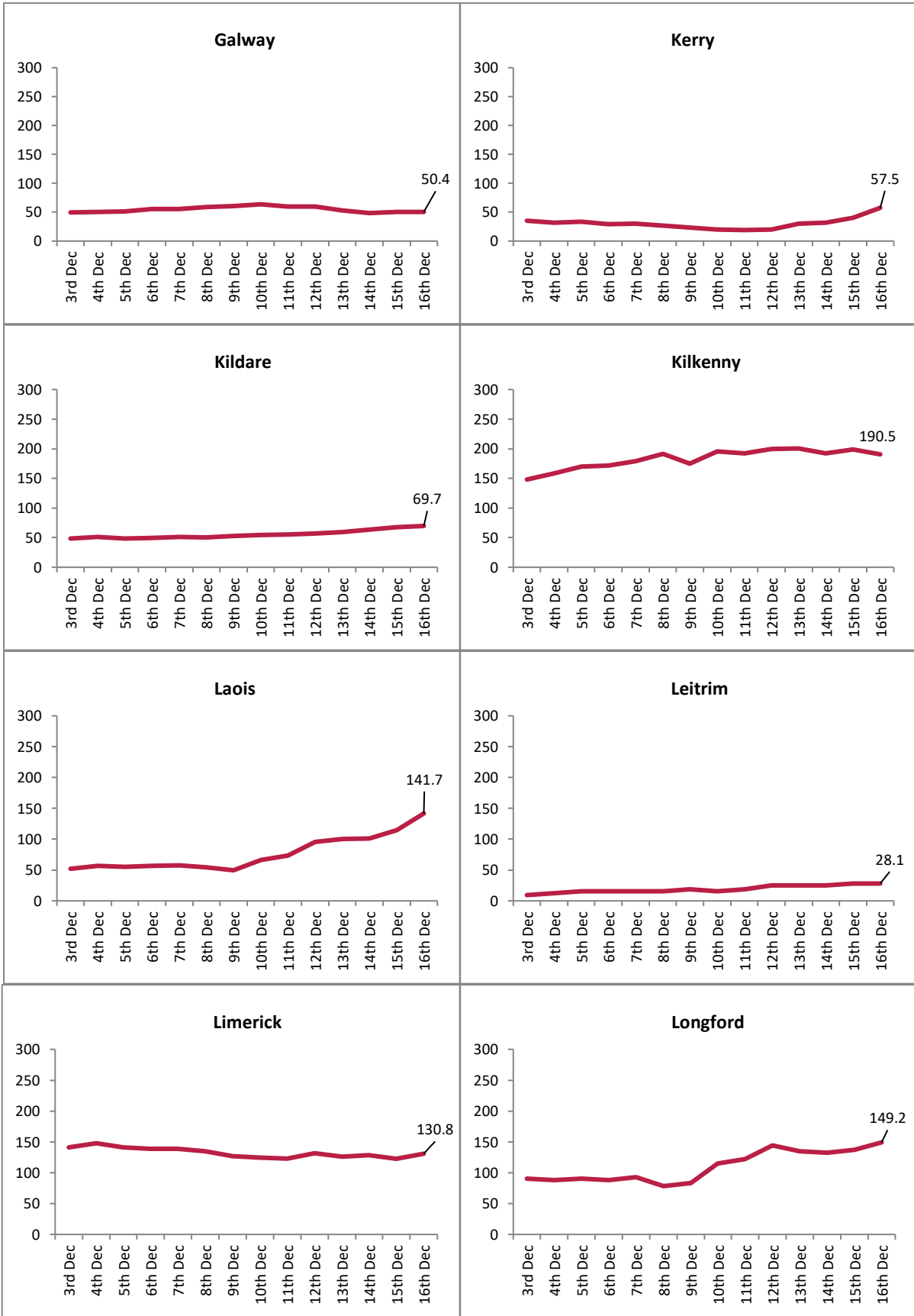
Where an outbreak location is reported as a residential facility (RF) this includes nursing homes, community hospitals, long-stay units and residential institutions including mental health facilities, prisons and direct provision centres.

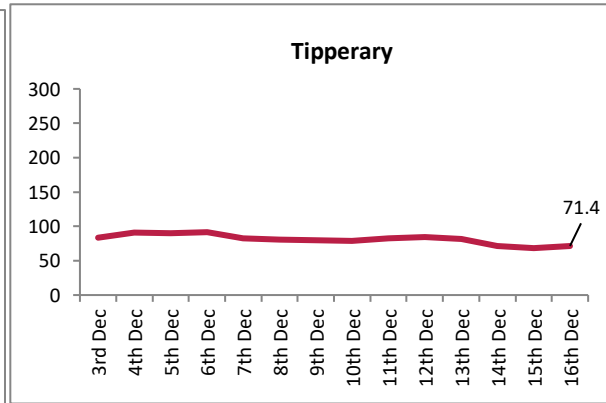
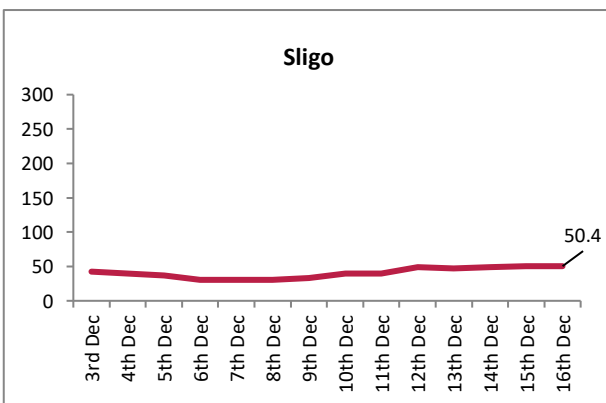
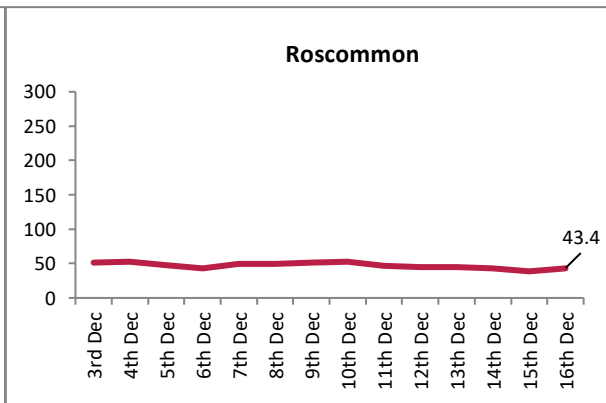
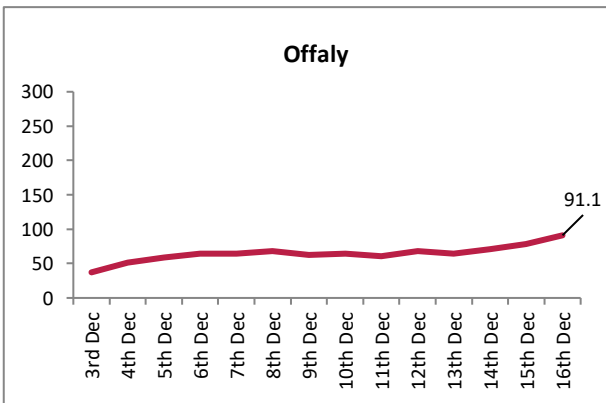
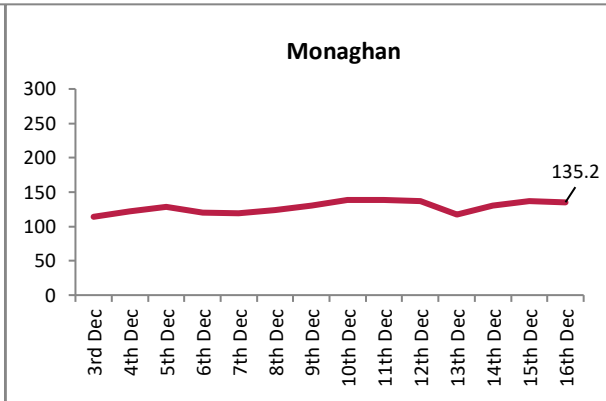
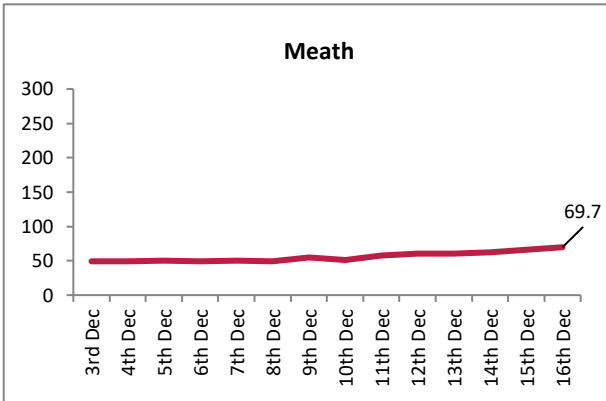
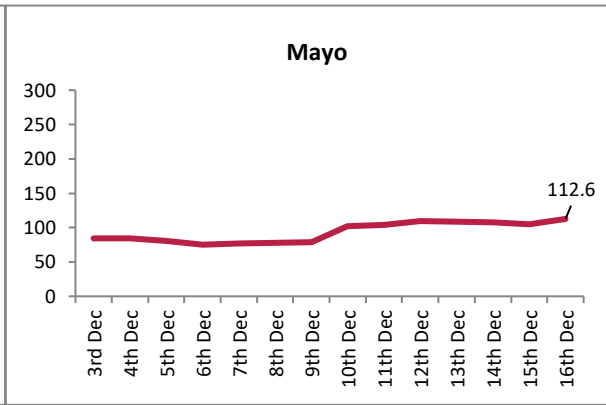
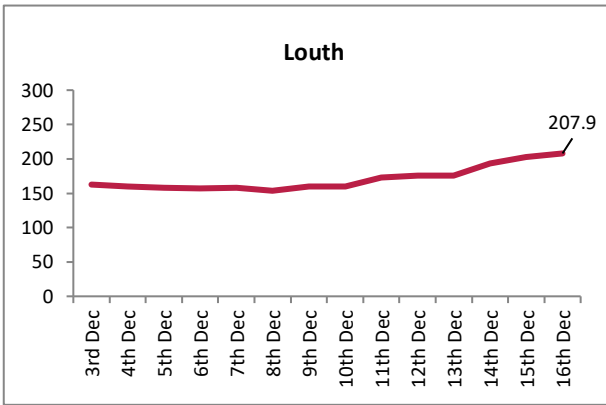
Other outbreak location includes community, extended family, hotel, public house, retail outlet, travel related and all other locations.

Appendix 1

Figure A. 14 day cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 by county (03/12/2020 to 16/12/2020)







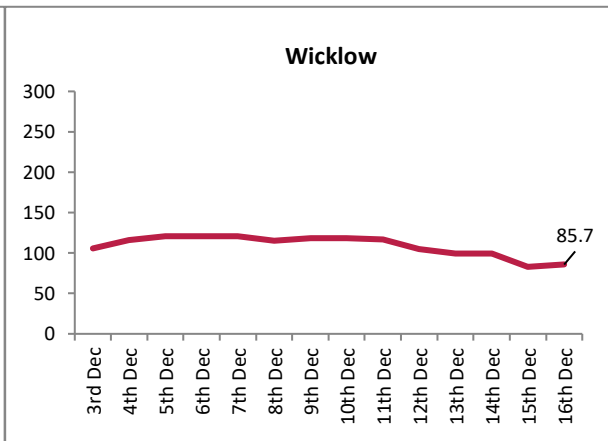
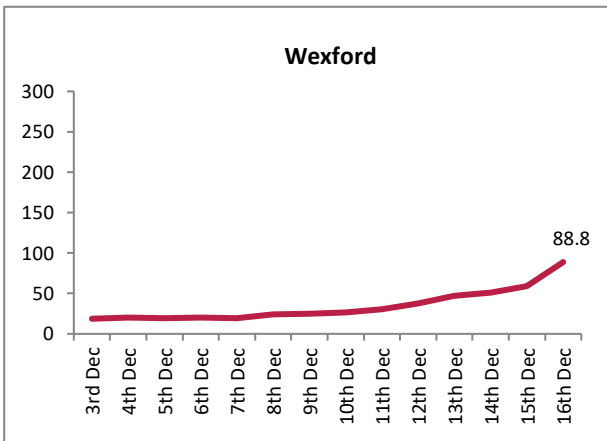
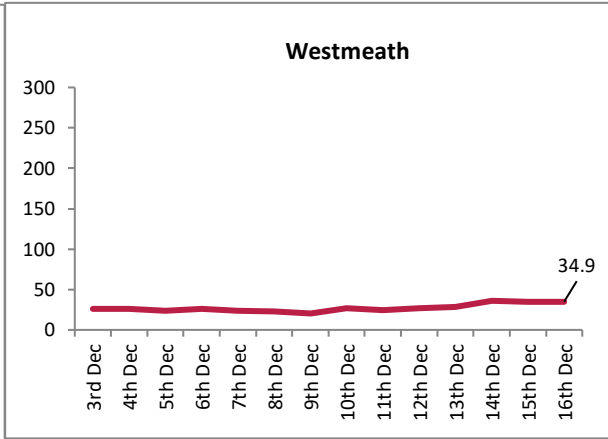
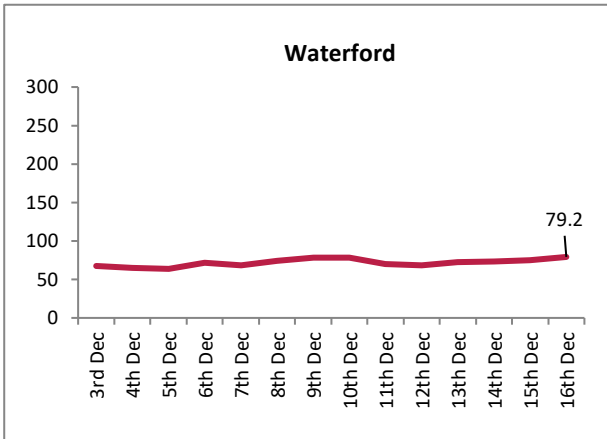


Figure B. 14 day cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 by Dublin CCA (03/12/2020 to 16/12/2020)

