



Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 31/12/2020

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 17/12/2020 up to midnight 30/12/2020

	Number	Percent
Total number of confirmed cases	14,128	
National incidence of confirmed cases per 100,000 population	296.69	
Number of cases hospitalised*	451	3.19
Number of cases admitted to ICU*	10	0.07
Number of deaths among confirmed cases	36	0.25
Case fatality ratio (CFR, %)	0.25	
National incidence of confirmed deaths per 100,000 population	0.76	
Number of cases** associated with clusters	1,334	9.44
Number of imported cases	14	0.1
Number of cases in healthcare workers	619	4.38
Males	7,030	49.76
Females	7,050	49.9
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
17/12/2020 - 30/12/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 09:24 on 31/12/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.

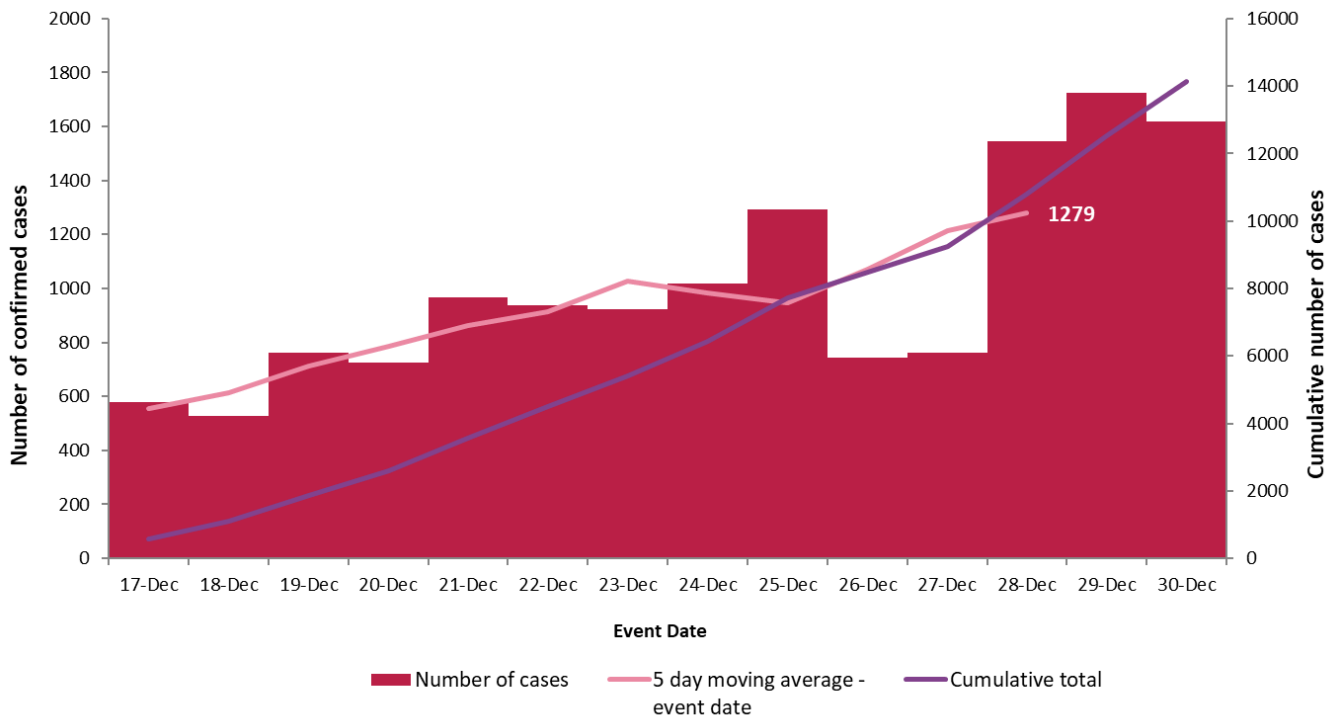


Figure 1. Daily number and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date (n=14,128)

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 17/12/2020 up to midnight on 30/12/202

Characteristic		Number of cases	Percent
Total number of confirmed cases		14,128	100
Sex	Male:Female ratio	1	
	Male	7,030	49.76
	Female	7,050	49.9
	Unknown	48	0.34
Age	Median age (years)	35	
	Mean age (years)	37	
	Age range (years)	0 - 102	
	0-4 yrs	457	3.23
	5-12 yrs	805	5.7
	13-18 yrs	834	5.9
	19-24 yrs	2,179	15.42
	25-34 yrs	2,784	19.71
	35-44 yrs	2,196	15.54
	45-54 yrs	1,941	13.74
	55-64 yrs	1,543	10.92
	65-74 yrs	729	5.16
	75-84 yrs	404	2.86
	85+ yrs	253	1.79
Unknown	3	0.02	
Underlying clinical conditions	Yes	1,600	11.33
	No	4,419	31.28
	Unknown	8,109	57.4
Symptom status at time of test*	Yes	4,475	31.67
	No	1,423	10.07
	Unknown	8,230	58.25

*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 17/12/2020 to midnight 30/12/2020

CHO Area	Number of confirmed cases	Incidence per 100,000 population
CHO1	1,688	431.4
CHO2	966	213.2
CHO3	1352	351.2
CHO4	1,739	251.8
CHO5	1,392	272.8
CHO6	1269	331.2
CHO7	1,651	233.3
CHO8	1,809	292.1
CHO9	2,261	363.9
Unknown	1	
Total	14,128	296.7

Table 4: Number of confirmed COVID-19 cases by county notified in Ireland from 17/12/2020 to midnight 30/12/2020

County	Number of confirmed cases	Incidence per 100,000 population
Monaghan	340	553.9
Donegal	847	532.1
Louth	683	529.9
Limerick	965	495.1
Wexford	584	390.1
Cavan	261	342.6
Kilkenny	333	335.6
Dublin	4506	334.4
Sligo	204	311.3
Meath	570	292.2
Kerry	427	289.1
Carlow	159	279.3
Laois	228	269.2
Mayo	330	252.9
Cork	1312	241.7
Clare	263	221.3
Galway	554	214.7
Kildare	466	209.4
Waterford	242	208.3
Westmeath	166	187.0
Wicklow	210	147.4
Offaly	102	130.8
Tipperary	206	129.1
Longford	52	127.2
Roscommon	82	127.0
Leitrim	36	112.3
Total	14,128	296.7

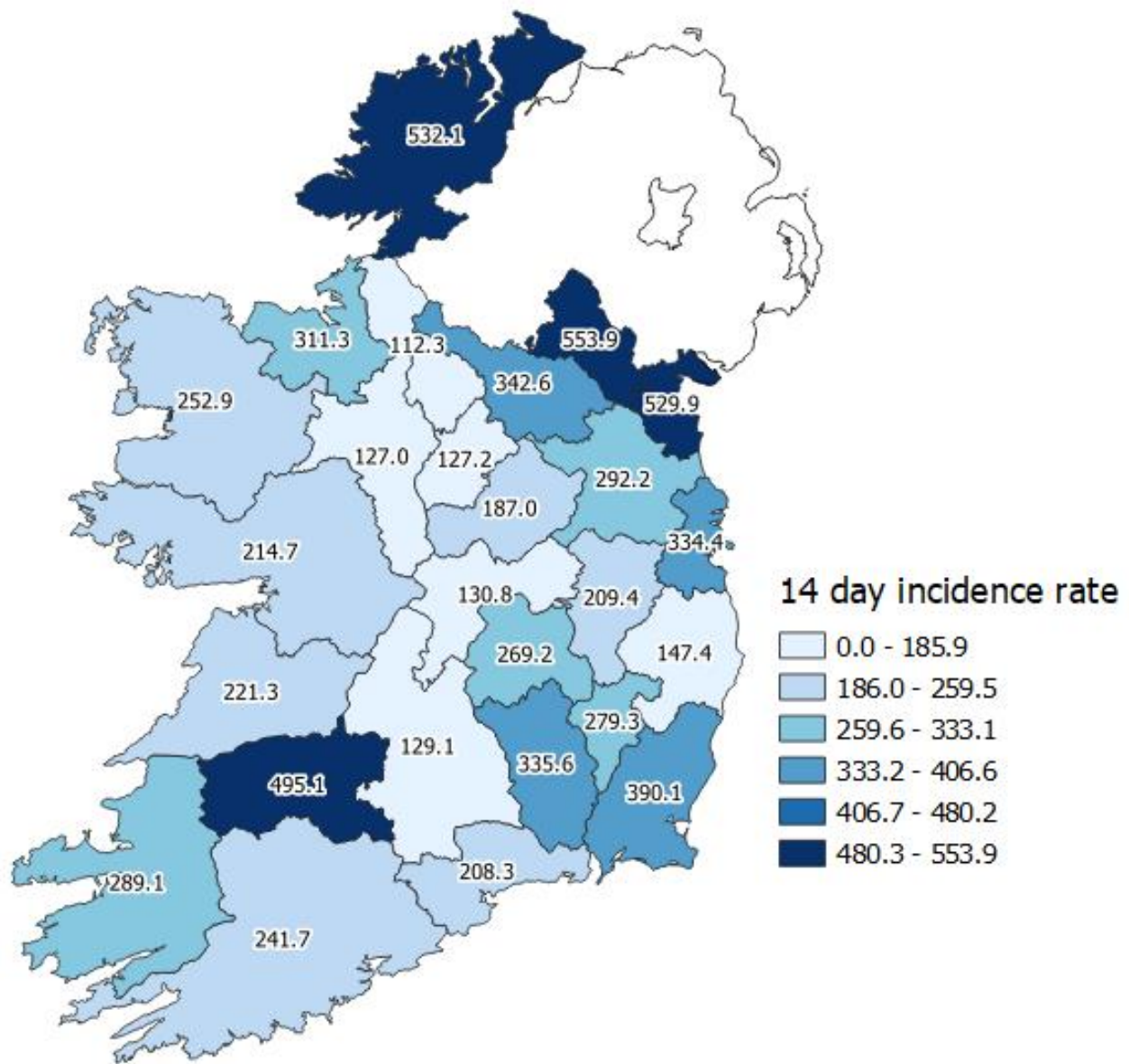


Figure 2: Cumulative incidence rates of confirmed COVID-19 cases per 100,000 population by county notified in Ireland between 17/12/2020 and 30/12/2020

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 17/12/2020 and 30/12/2020

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	306	224.9
CCA2	Dublin South East	764	617.6
CCA3	Dublin South City	347	231.4
CCA4	Dublin South West	373	231.8
CCA5	Dublin West	454	292.3
CCA6	Dublin North West	792	381.4
CCA7	Dublin North Central	805	520.8
CCA8	Dublin North	664	256.2
	Unknown	1	
	Dublin	4,506	334.4

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.

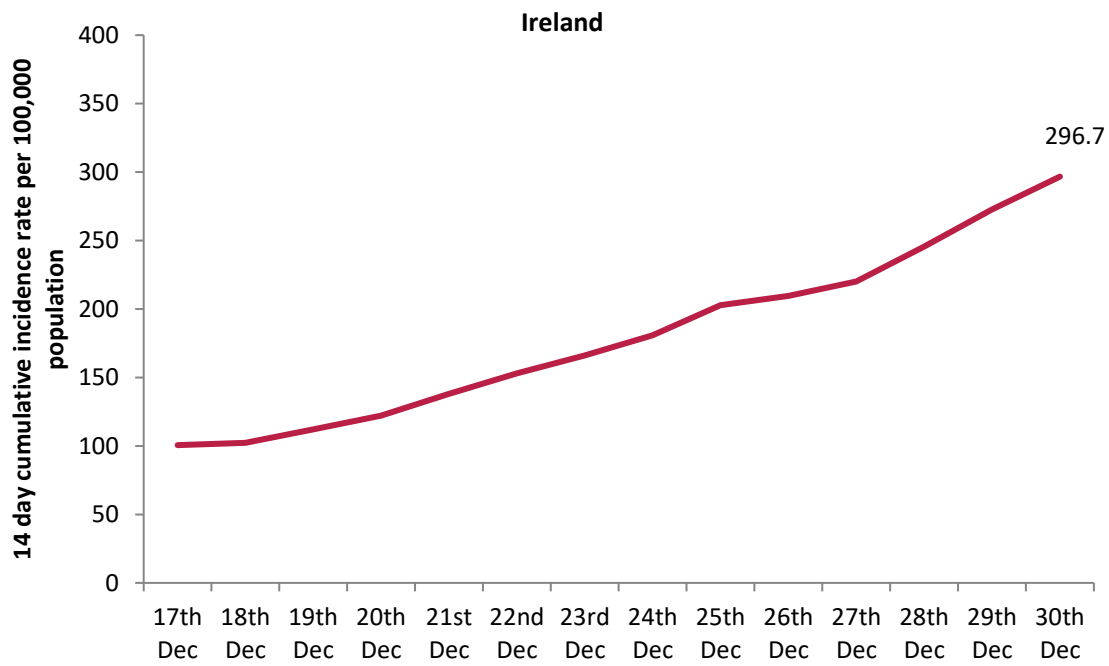


Figure 3: 14 day cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 in Ireland (17/12/2020 to 30/12/2020)

14 day incidence rates per 100,000 populations of confirmed cases of COVID-19 for individual counties can be found in appendix 5 of this report

Table 5: Number of confirmed COVID-19 cases by most likely transmission source notified from 17/12/2020 to midnight 30/12/2020

Most likely transmission source	Number of cases	Percent
Travel related*	115	0.81%
Close contact with a known confirmed case	3164	22.40%
Healthcare setting acquired: patient	187	1.32%
Healthcare setting acquired: staff	257	1.82%
Community transmission	1746	12.36%
Under investigation	8659	61.29%
Total	14,128	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 17/12/2020 to midnight 30/12/2020 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	457	3	0.67	0	0
5-12 yrs	805	8	1.77	0	0
13-18 yrs	834	9	2.00	0	0
19-24 yrs	2179	29	6.43	0	0
25-34 yrs	2784	43	9.53	1	10
35-44 yrs	2196	34	7.54	1	10
45-54 yrs	1941	51	11.31	1	10
55-64 yrs	1543	51	11.31	2	20
65-74 yrs	729	68	15.08	3	30
75-84 yrs	404	85	18.85	2	20
85+ yrs	253	70	15.52	0	0
Unknown	3			0	0
Total	14,128	451	100	10	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 31/12/2020. 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.

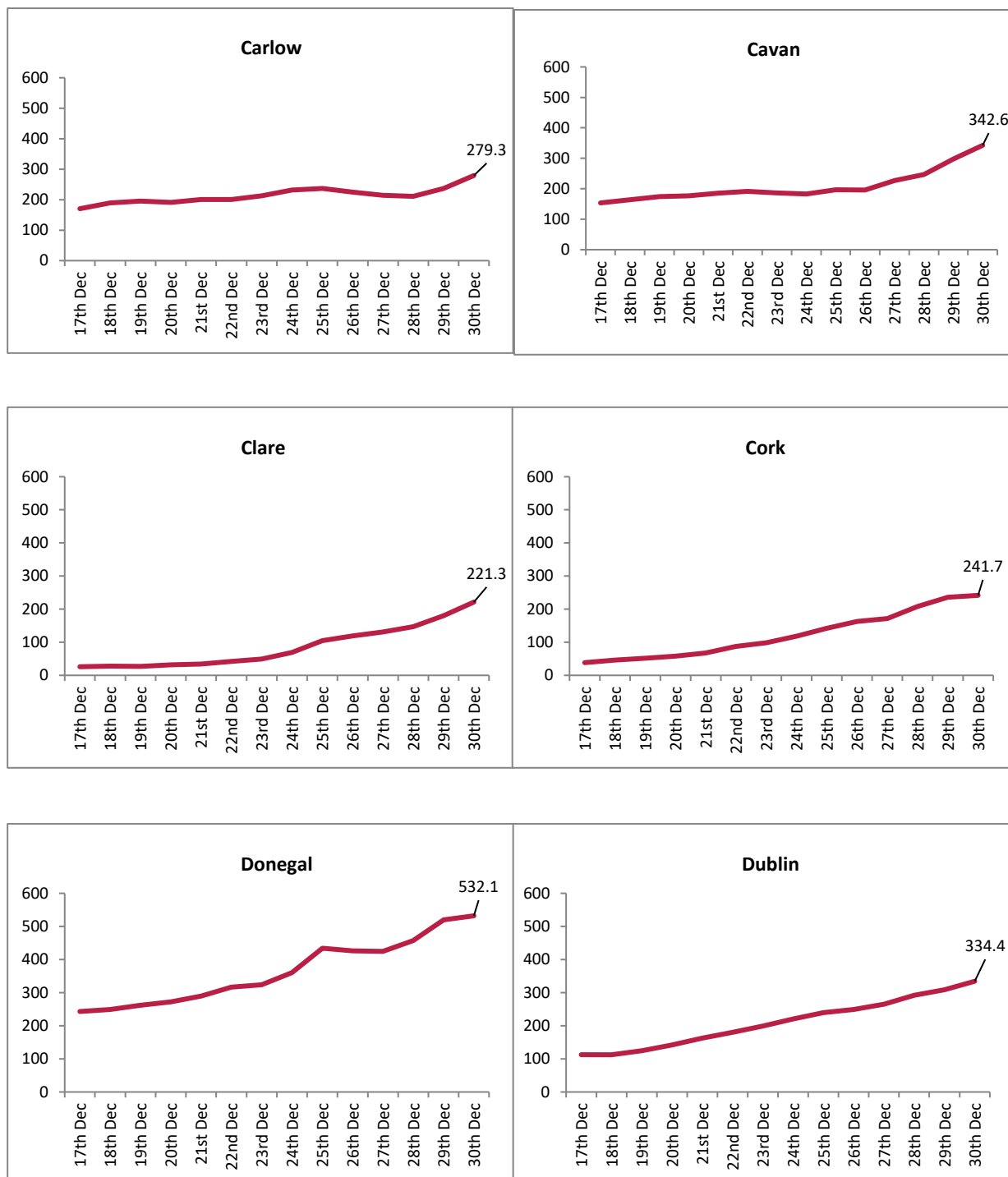
5. Outbreak location

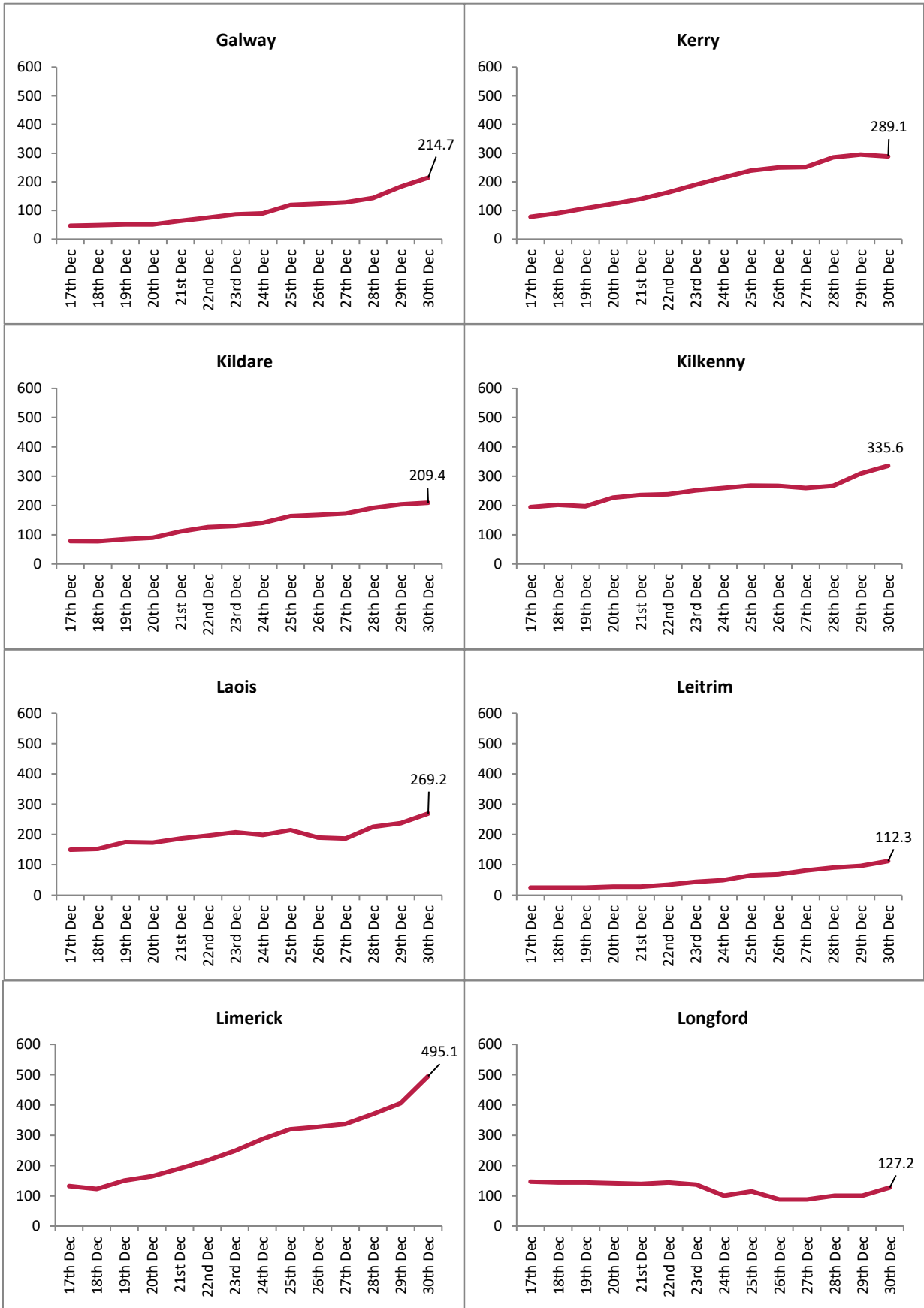
Where an outbreak location is reported as a residential facility (RF) this includes nursing homes, community hospitals, long-stay units and residential institutions including mental health facilities, prisons and direct provision centres.

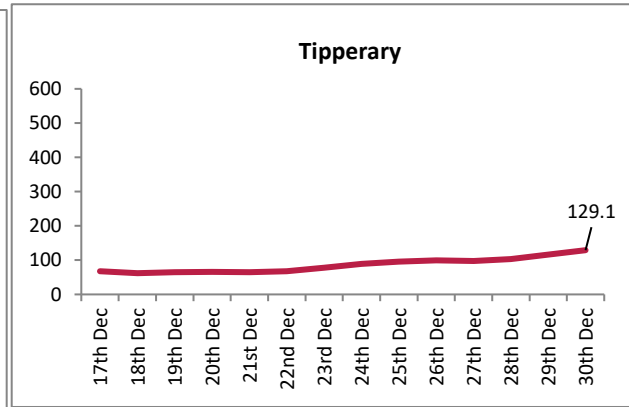
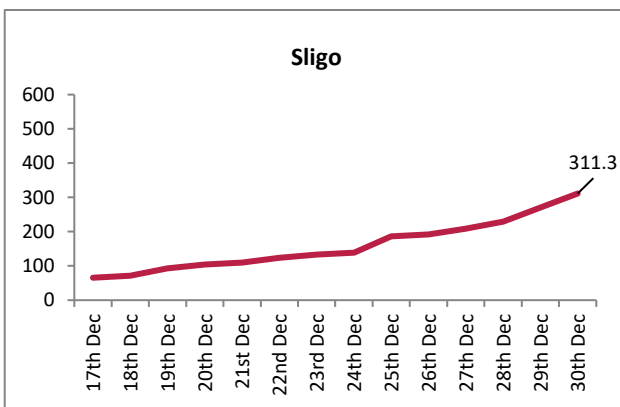
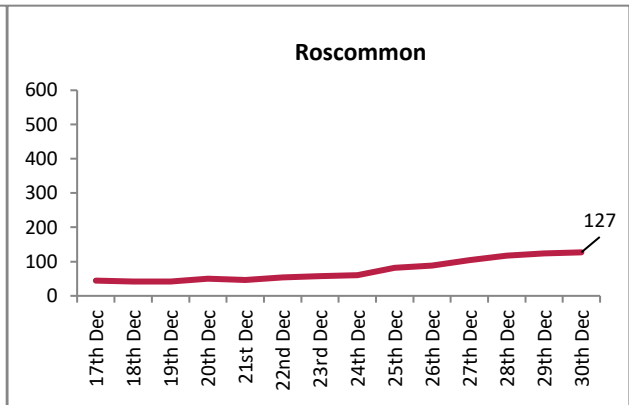
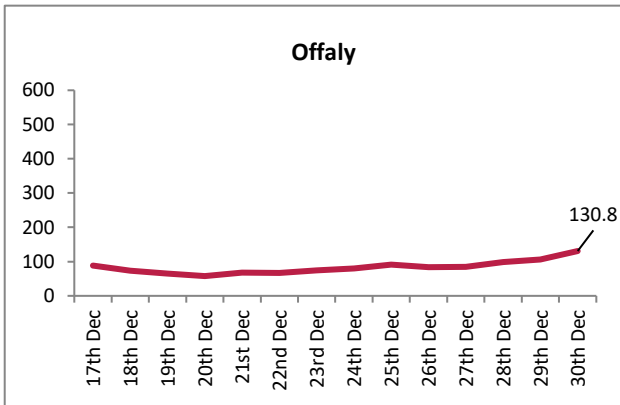
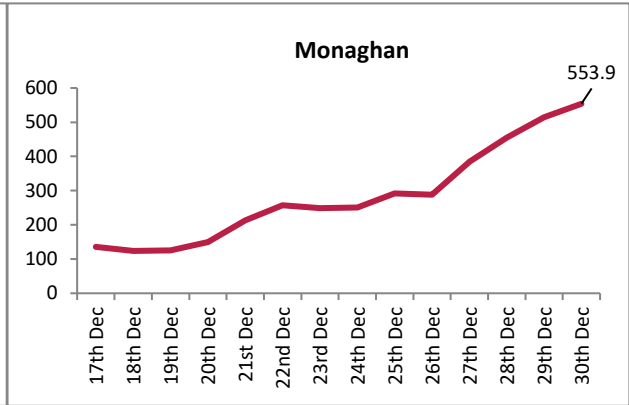
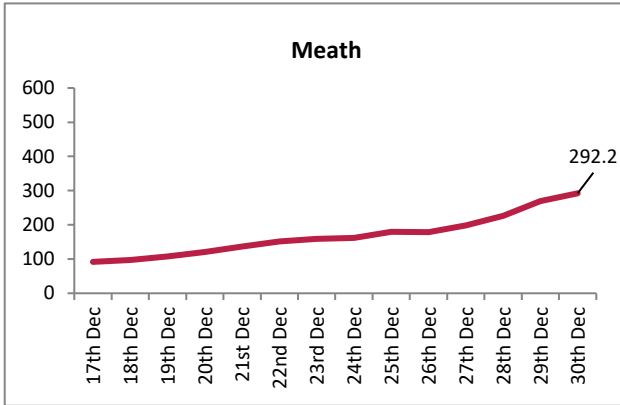
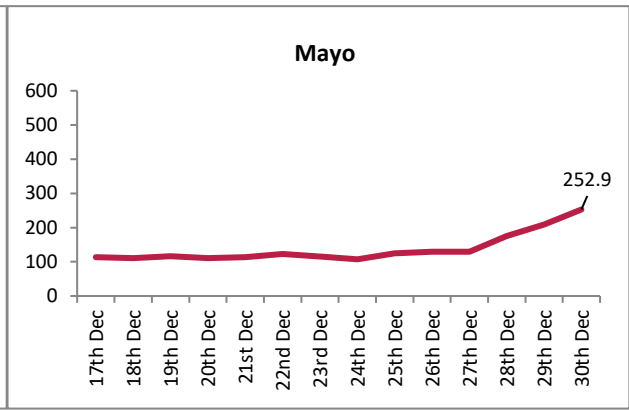
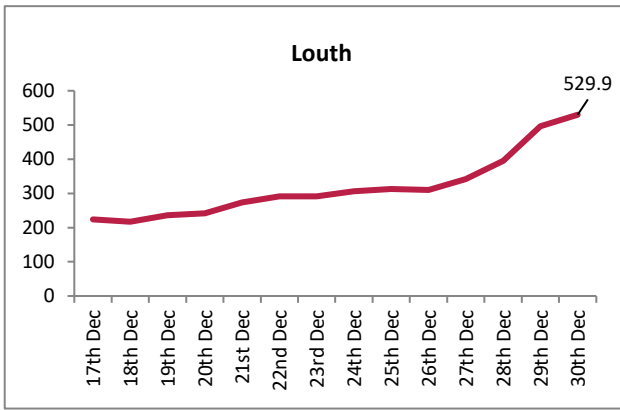
Other outbreak location includes community, extended family, hotel, public house, retail outlet, travel related and all other locations.

Appendix 1

Figure A. 14 day cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 by county (17/12/2020 to 30/12/2020)







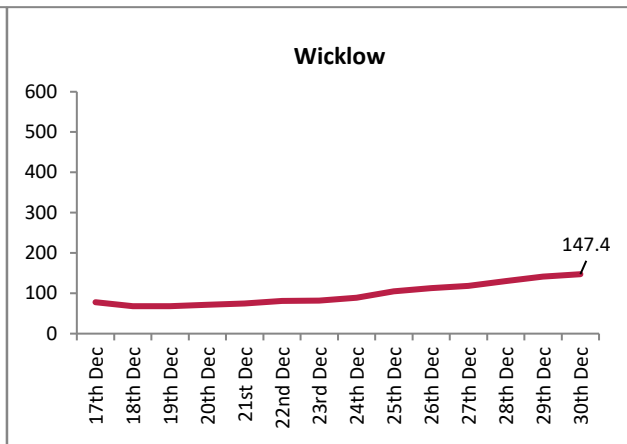
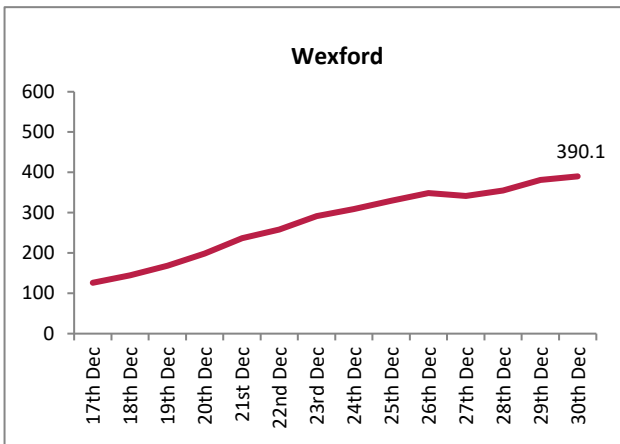
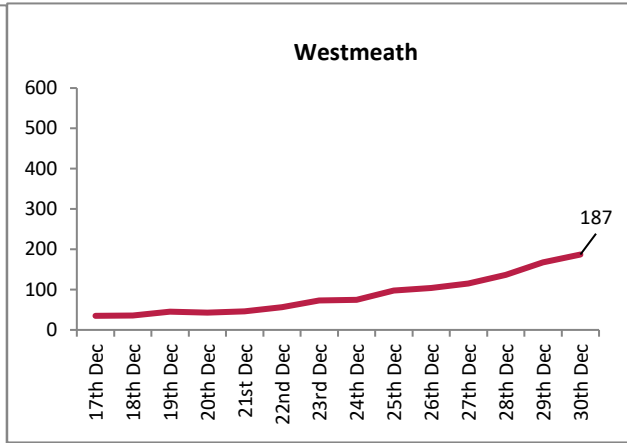
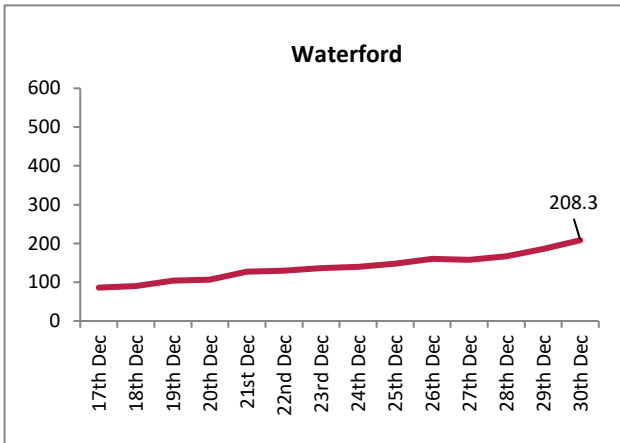


Figure B. 14 day cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 by Dublin CCA (17/12/2020 to 30/12/2020)

