



# Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 19/12/2020

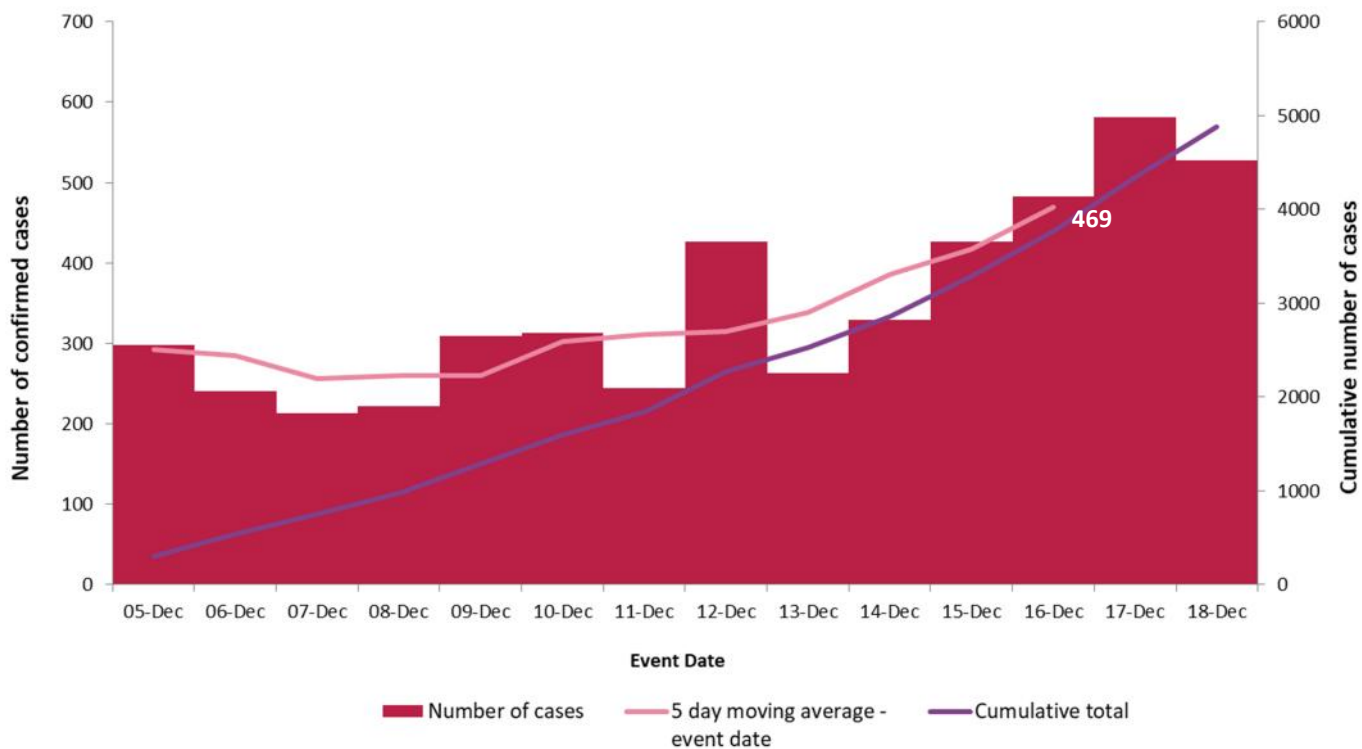
Summary characteristics of confirmed COVID-19 cases notified in Ireland from 05/12/2020 up to midnight 18/12/2020

	Number	Percent
Total number of confirmed cases	4,875	
National incidence of confirmed cases per 100,000 population	102.38	
Number of cases hospitalised*	240	4.92
Number of cases admitted to ICU*	13	0.27
Number of deaths among confirmed cases	9	0.18
Case fatality ratio (CFR, %)	0.18	
National incidence of confirmed deaths per 100,000 population	0.19	
Number of cases** associated with clusters	1,504	30.85
Number of imported cases	16	0.33
Number of cases in healthcare workers	514	10.54
Males	2,358	48.37
Females	2,502	51.32
M:F ratio	0.94	
Median age (years)	36	
Mean age (years)	38	
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  
05/12/2020 - 18/12/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 09:44 on 19/12/2020 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 05/12/2020 up to midnight on 18/12/202**

Characteristic		Number of cases	Percent
<b>Total number of confirmed cases</b>		<b>4,875</b>	<b>100</b>
<b>Sex</b>	Male:Female ratio	0.94	
	Male	2,358	48.37
	Female	2,502	51.32
	Unknown	15	0.31
<b>Age</b>	Median age (years)	36	
	Mean age (years)	38	
	Age range (years)	0 - 100	
	0-4 yrs	196	4.02
	5-12 yrs	473	9.7
	13-18 yrs	357	7.32
	19-24 yrs	455	9.33
	25-34 yrs	839	17.21
	35-44 yrs	779	15.98
	45-54 yrs	716	14.69
	55-64 yrs	518	10.63
	65-74 yrs	241	4.94
	75-84 yrs	176	3.61
	85+ yrs	125	2.56
<b>Underlying clinical conditions</b>	Yes	1,361	27.92
	No	2,876	58.99
	Unknown	638	13.09
<b>Symptom status at time of test*</b>	Yes	2,960	60.72
	No	1,164	23.88
	Unknown	751	15.41

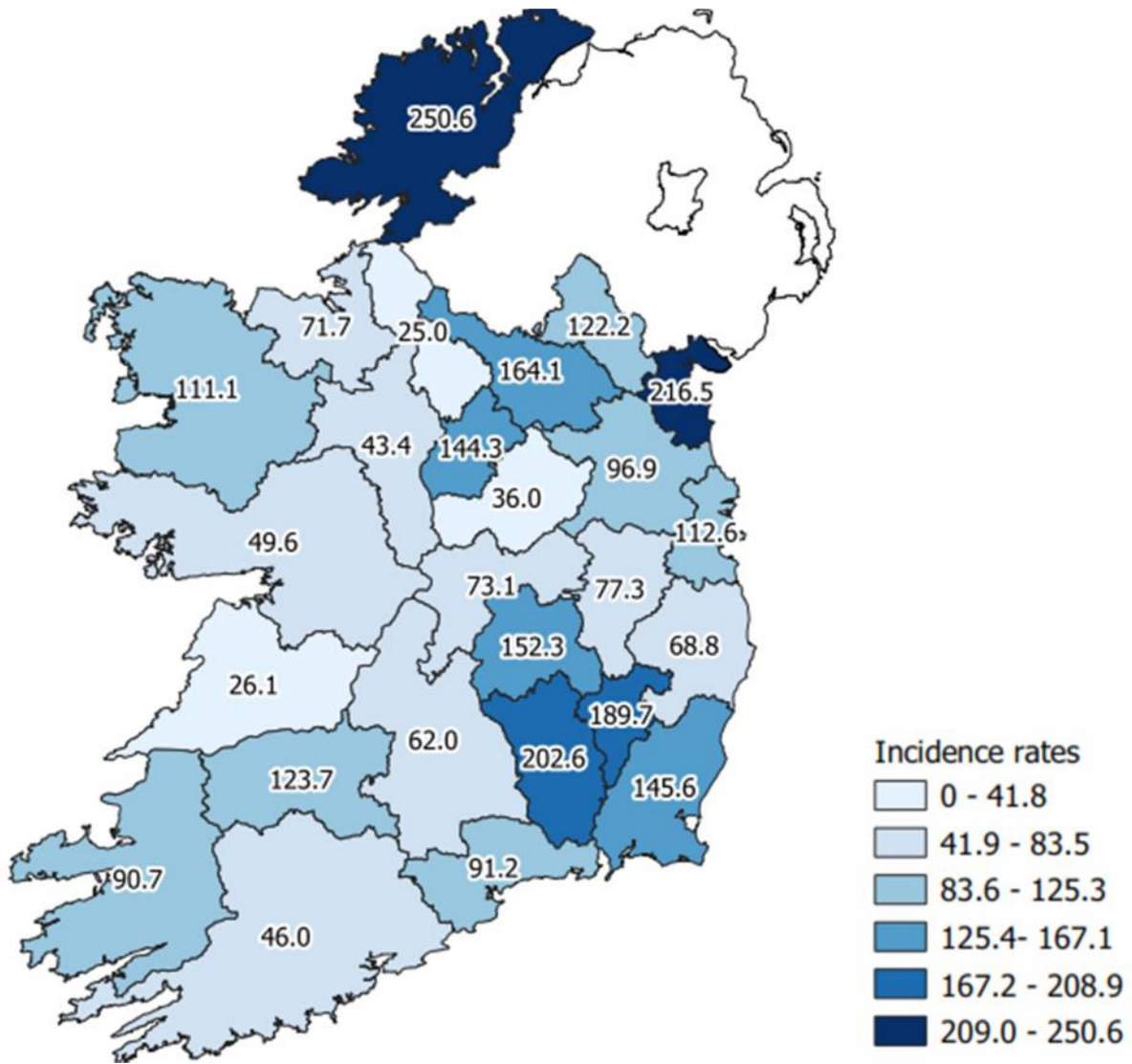
\*Symptom status is recorded at the time of test and is not updated, therefore a proportion of the asymptomatic cases may subsequently develop symptoms however this will not be captured in the data.

**Table 2: Number of confirmed COVID-19 cases by community healthcare organisation (CHO) notified in Ireland from 05/12/2020 to midnight 18/12/2020**

CHO Area	Number of confirmed cases	Incidence per 100,000 population
CHO1	654	167.1
CHO2	301	66.4
CHO3	309	80.3
CHO4	384	55.6
CHO5	695	136.2
CHO6	436	113.8
CHO7	512	72.3
CHO8	745	120.3
CHO9	839	135.0
Unknown	0	
<b>Total</b>	<b>4,875</b>	<b>102.4</b>

**Table 3: Number of confirmed COVID-19 cases by county notified in Ireland from 05/12/2020 to midnight 18/12/2020**

County	Number of confirmed cases	Incidence per 100,000 population
Donegal	399	250.6
Louth	279	216.5
Kilkenny	201	202.6
Carlow	108	189.7
Cavan	125	164.1
Laois	129	152.3
Wexford	218	145.6
Longford	59	144.3
Limerick	241	123.7
Monaghan	75	122.2
Dublin	1517	112.6
Mayo	145	111.1
Meath	189	96.9
Waterford	106	91.2
Kerry	134	90.7
Kildare	172	77.3
Offaly	57	73.1
Sligo	47	71.7
Wicklow	98	68.8
Tipperary	99	62.0
Galway	128	49.6
Cork	250	46.1
Roscommon	28	43.4
Westmeath	32	36.0
Clare	31	26.1
Leitrim	8	25.0
<b>Total</b>	<b>4,875</b>	<b>102.4</b>



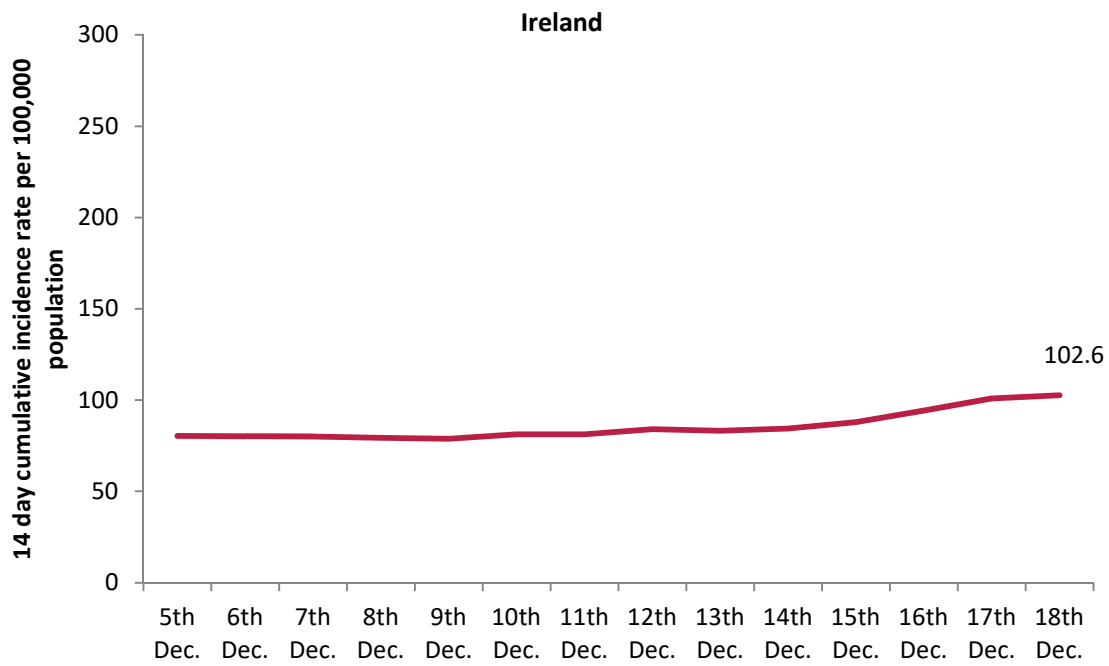
**Figure 2: Cumulative incidence rates of confirmed COVID-19 cases per 100,000 population by county notified in Ireland between 05/12/2020 and 18/12/2020**

*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 05/12/2020 and 18/12/2020**

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	92	67.6
CCA2	Dublin South East	247	199.7
CCA3	Dublin South City	99	66.0
CCA4	Dublin South West	104	64.6
CCA5	Dublin West	136	87.5
CCA6	Dublin North West	259	124.7
CCA7	Dublin North Central	264	170.8
CCA8	Dublin North	316	121.9
	<b>Dublin</b>	<b>1517</b>	<b>112.6</b>

**Note:** Local health offices (LHOs) came into operation on 1<sup>st</sup> 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 (05/12/2020 to 18/12/2020)**

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 05/12/2020 to midnight 18/12/2020**

Most likely transmission source	Number of cases	Percent
Travel related*	100	2.05%
Close contact with a known confirmed case	2378	48.78%
Healthcare setting acquired: patient	237	4.86%
Healthcare setting acquired: staff	235	4.82%
Community transmission	1037	21.27%
Under investigation	888	18.22%
<b>Total</b>	<b>4875</b>	<b>100.00%</b>

\*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 05/12/2020 to midnight 18/12/2020 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	196	1	0.42	0	0
5-12 yrs	473	2	0.83	0	0
13-18 yrs	357	9	3.75	0	0
19-24 yrs	455	8	3.33	1	7.69
25-34 yrs	839	15	6.25	0	0.00
35-44 yrs	779	16	6.67	1	7.69
45-54 yrs	716	23	9.58	2	15.38
55-64 yrs	518	32	13.33	2	15.38
65-74 yrs	241	50	20.83	3	23.08
75-84 yrs	176	54	22.5	3	23.08
85+ yrs	125	30	12.5	1	7.69
<b>Total</b>	<b>4,875</b>	<b>240</b>	<b>100</b>	<b>13</b>	<b>100</b>

\* 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 09:44 on 19/12/2020. 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  $\geq 85$  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.

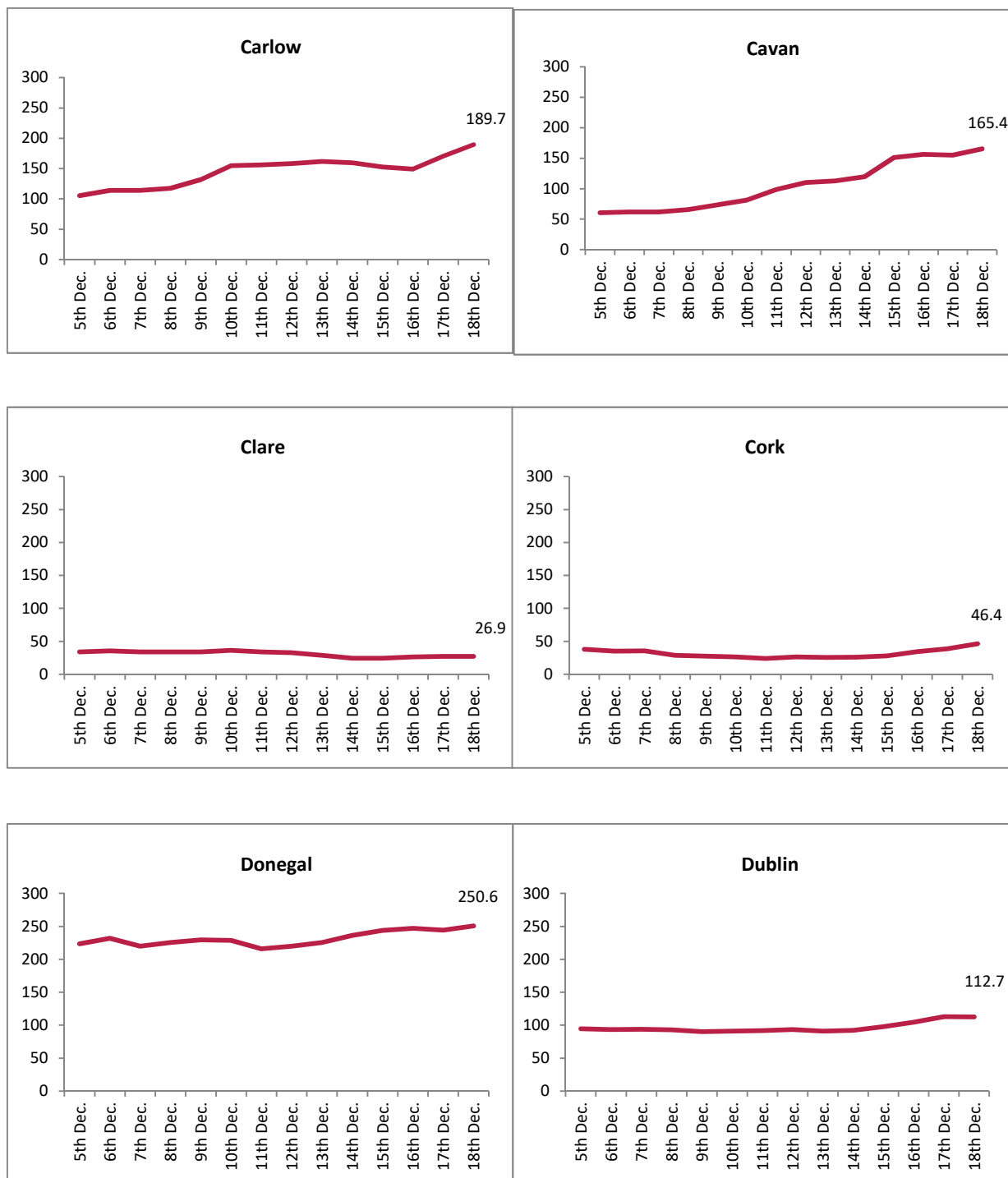
### 5. Outbreak location

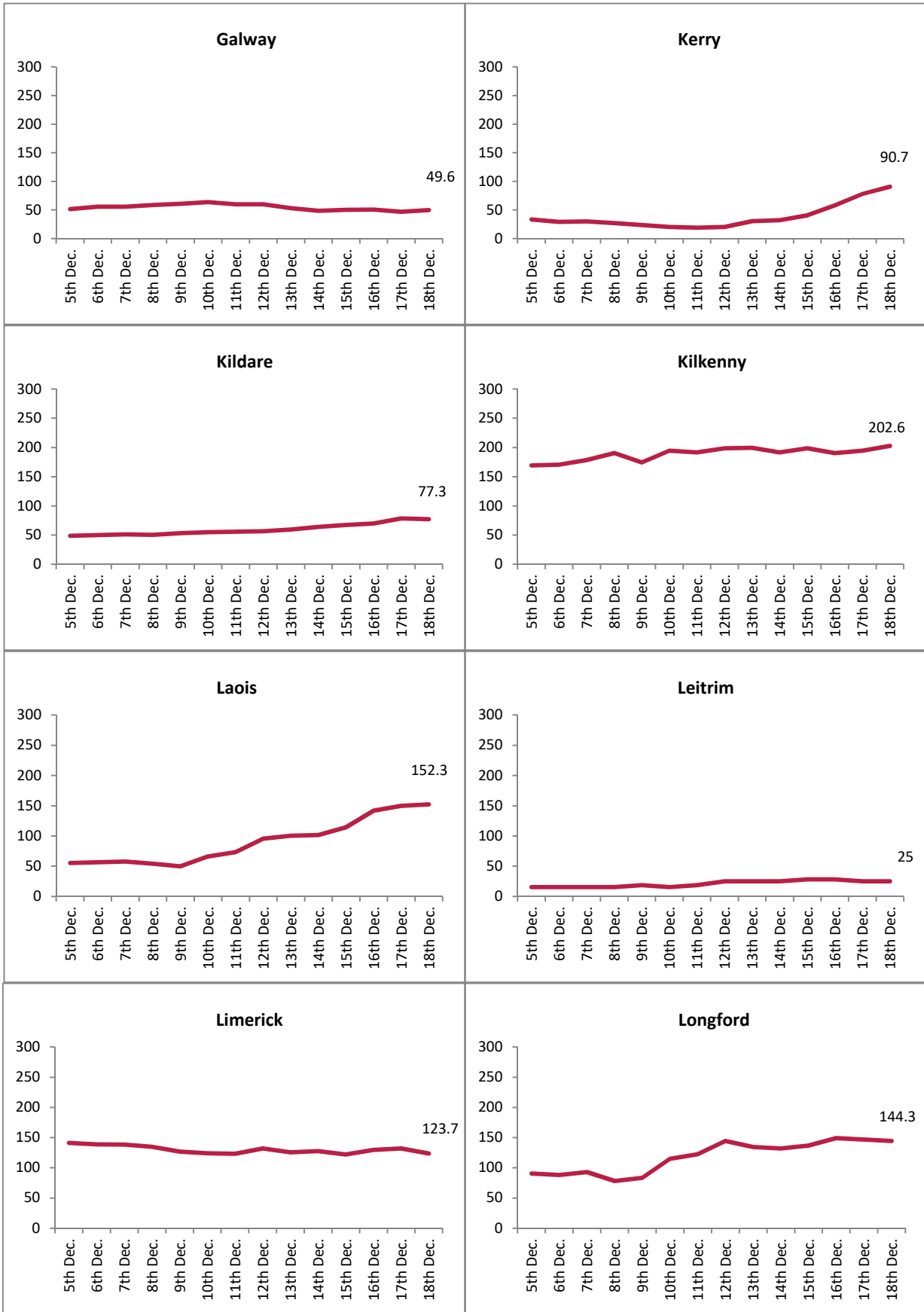
Where an outbreak location is reported as a residential facility (RF) this includes nursing homes, community hospitals, long-stay units and residential institutions including mental health facilities, prisons and direct provision centres.

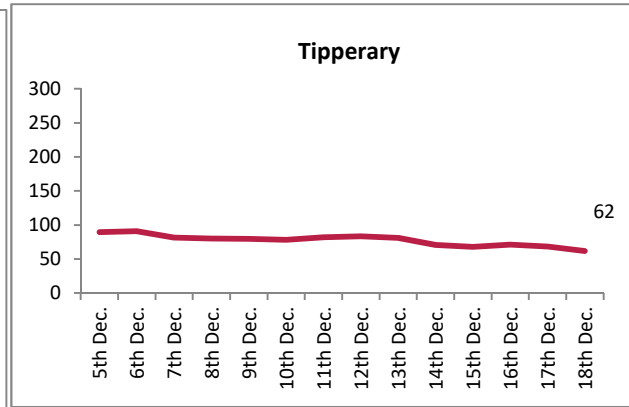
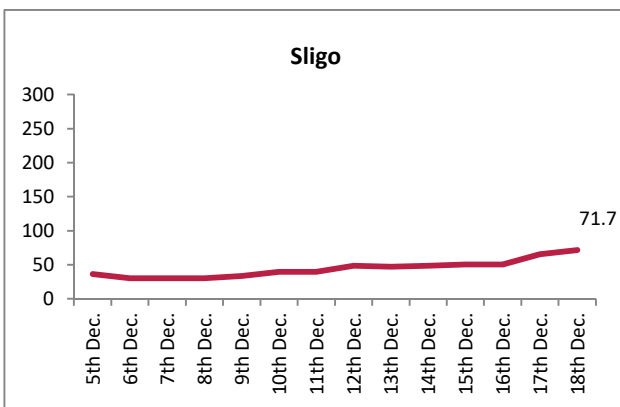
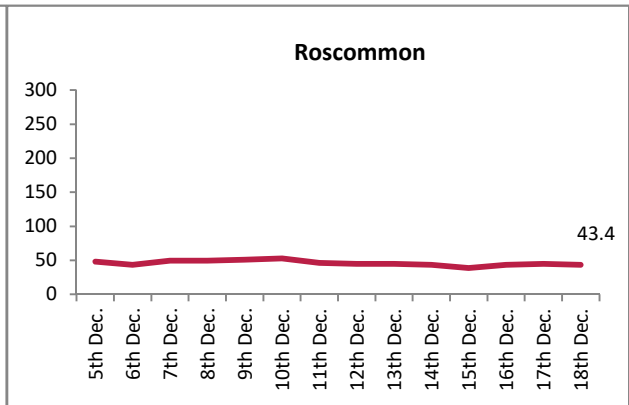
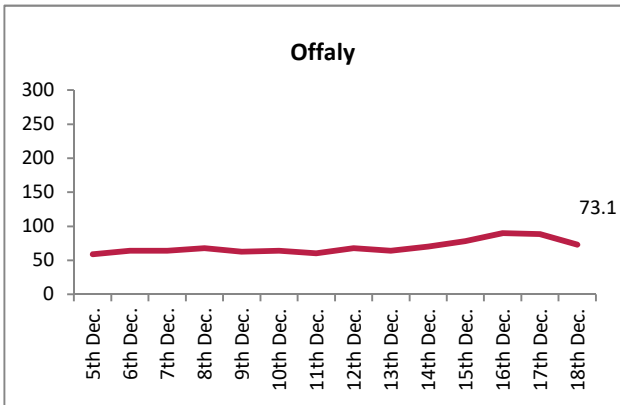
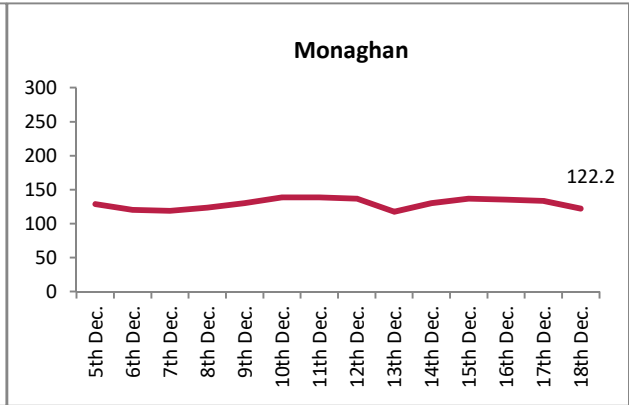
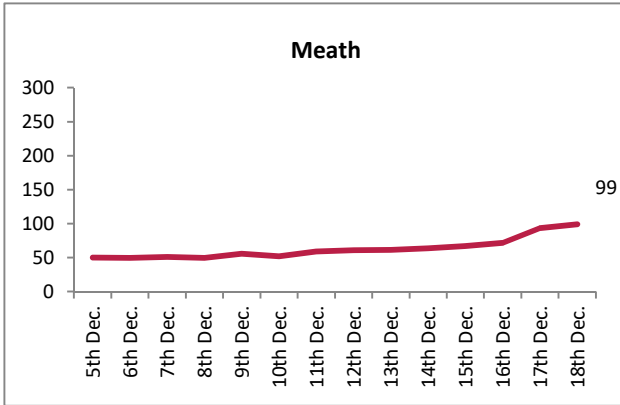
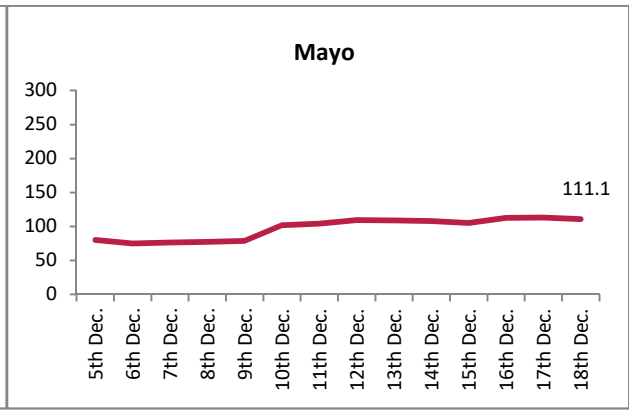
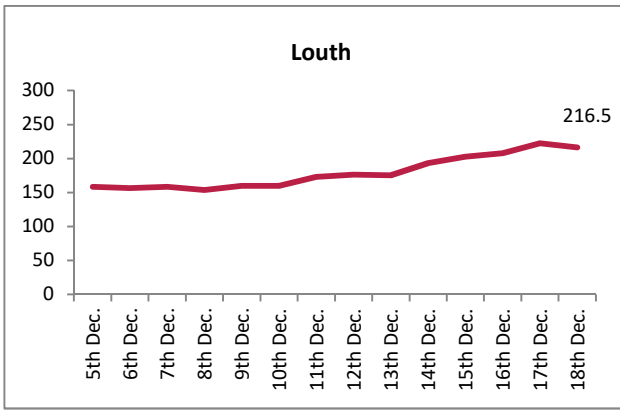
Other outbreak location includes community, extended family, hotel, public house, retail outlet, travel related and all other locations.

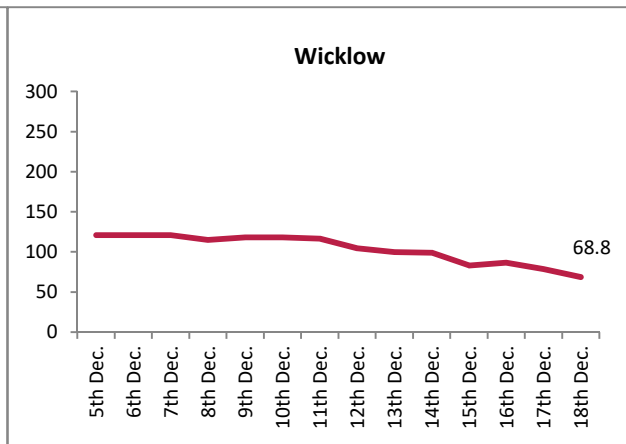
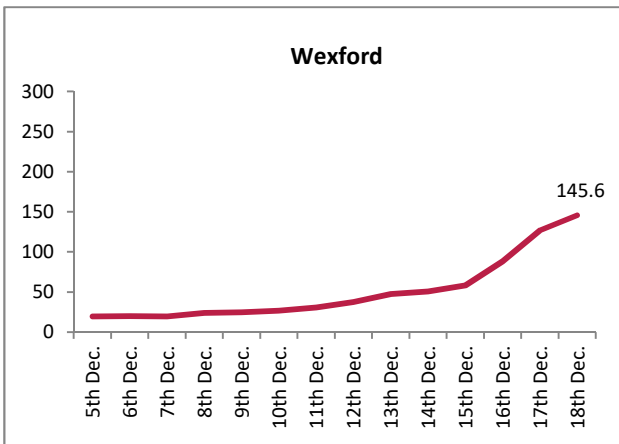
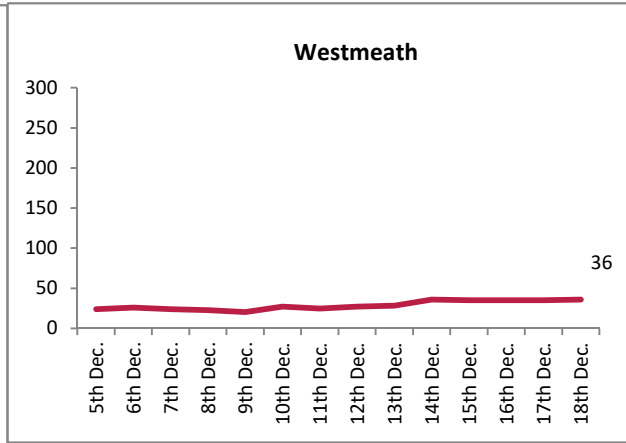
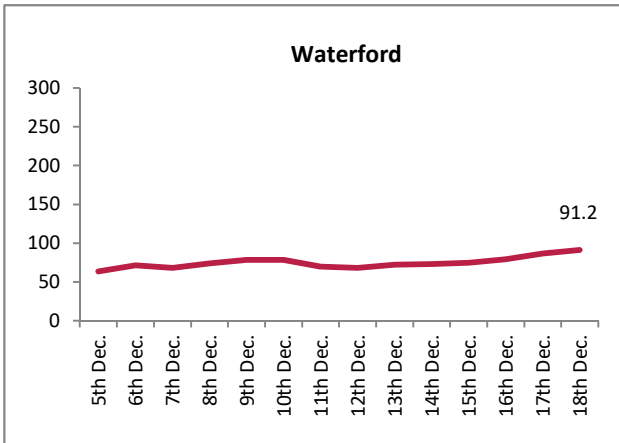
## Appendix 1

Figure A. 14 day cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 by county (05/12/2020 to 18/12/2020)









**Figure B. 14 day cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 by Dublin CCA (05/12/2020 to 18/12/2020)**

