



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

Report prepared by HPSC on 21/12/2020

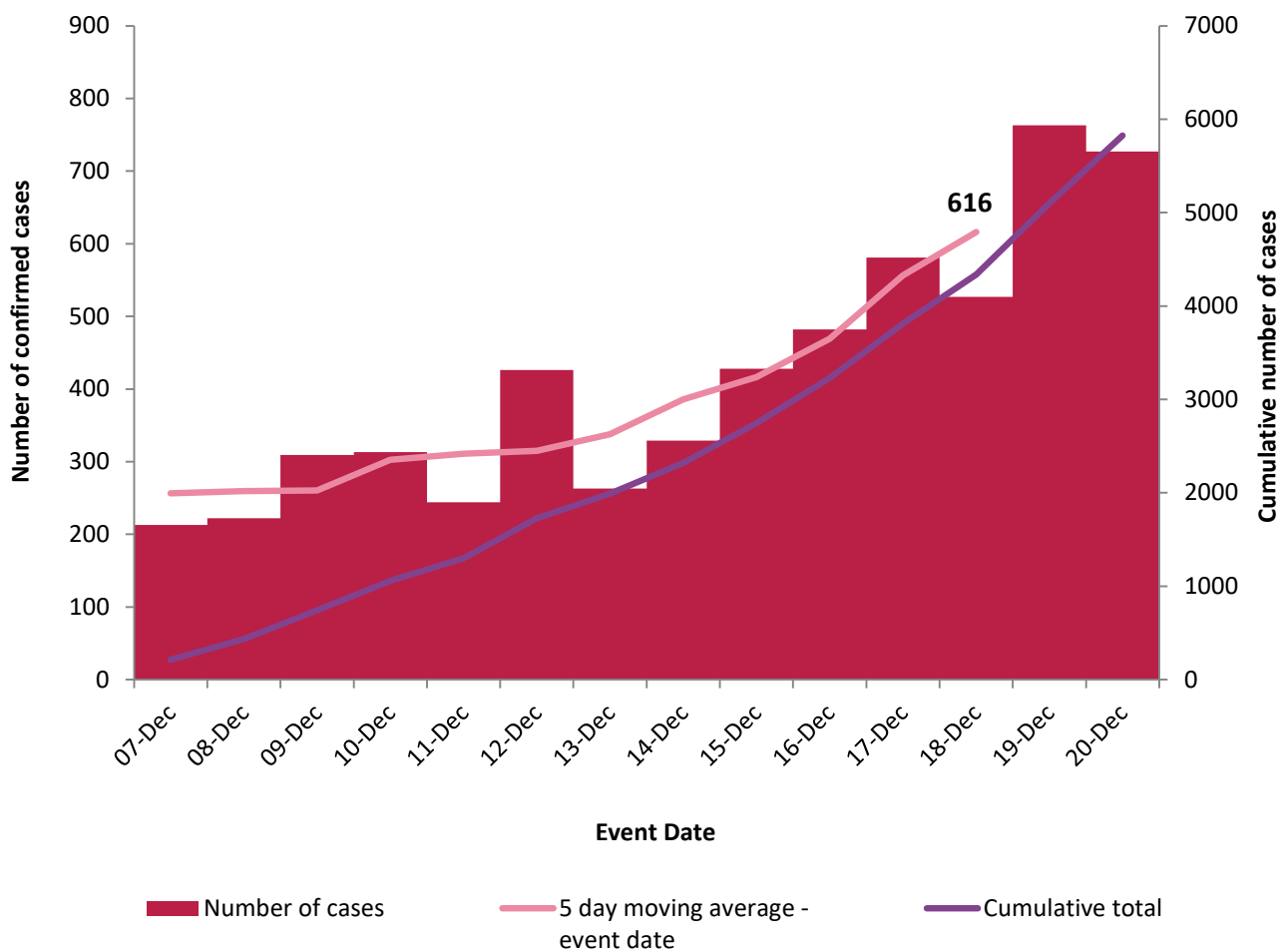
Summary characteristics of confirmed COVID-19 cases notified in Ireland from 07/12/2020 up to midnight 20/12/2020

	Number	Percent
Total number of confirmed cases	5,827	
National incidence of confirmed cases per 100,000 population	122.37	
Number of cases hospitalised*	276	4.74
Number of cases admitted to ICU*	11	0.19
Number of deaths among confirmed cases	11	0.19
Case fatality ratio (CFR, %)	0.19	
National incidence of confirmed deaths per 100,000 population	0.23	
Number of cases** associated with clusters	1,289	22.12
Number of imported cases	15	0.26
Number of cases in healthcare workers	576	9.89
Males	2,877	49.37
Females	2,933	50.33
M:F ratio	0.98	
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  
07/12/2020 - 20/12/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 09:30 on 21/12/2020 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=5,827)**

**Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 07/12/2020 up to midnight on 20/12/202**

Characteristic		Number of cases	Percent
<b>Total number of confirmed cases</b>		<b>5,827</b>	<b>100</b>
<b>Sex</b>	Male:Female ratio	0.98	
	Male	2,877	49.37
	Female	2,933	50.33
	Unknown	17	0.29
<b>Age</b>	Median age (years)	36	
	Mean age (years)	38	
	Age range (years)	0 - 100	
	0-4 yrs	219	3.76
	5-12 yrs	515	8.84
	13-18 yrs	404	6.93
	19-24 yrs	618	10.61
	25-34 yrs	1,013	17.38
	35-44 yrs	950	16.3
	45-54 yrs	854	14.66
	55-64 yrs	633	10.86
	65-74 yrs	285	4.89
	75-84 yrs	209	3.59
	85+ yrs	126	2.16
Unknown	1	0.02	
<b>Underlying clinical conditions</b>	Yes	1,565	26.86
	No	3,428	58.83
	Unknown	834	14.31
<b>Symptom status at time of test*</b>	Yes	3,594	61.68
	No	1,278	21.93
	Unknown	955	16.39

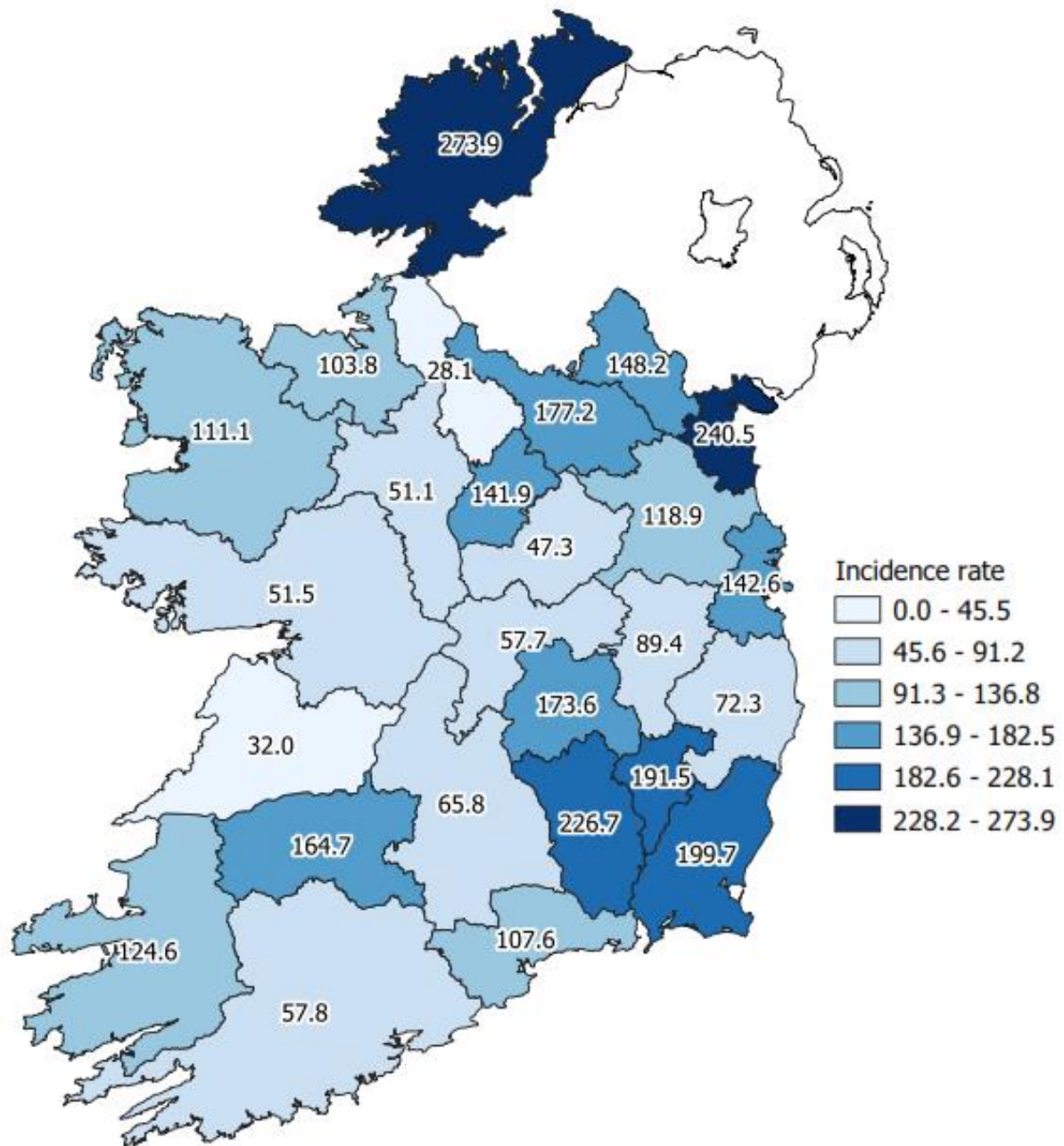
\*Symptom status is recorded at the time of test and is not updated, therefore a proportion of the asymptomatic cases may subsequently develop symptoms however this will not be captured in the data.

**Table 3: Number of confirmed COVID-19 cases by community healthcare organisation (CHO) notified in Ireland from 07/12/2020 to midnight 20/12/2020**

CHO Area	Number of confirmed cases	Incidence per 100,000 population
CHO1	739	188.9
CHO2	311	68.6
CHO3	407	105.7
CHO4	498	72.1
CHO5	815	159.7
CHO6	519	135.4
CHO7	643	90.9
CHO8	834	134.7
CHO9	1061	170.7
Unknown	0	
<b>Total</b>	<b>5,827</b>	<b>122.4</b>

**Table 4: Number of confirmed COVID-19 cases by county notified in Ireland from 07/12/2020 to midnight 20/12/2020**

County	Number of confirmed cases	Incidence per 100,000 population
Donegal	436	273.9
Louth	310	240.5
Kilkenny	225	226.7
Wexford	299	199.7
Carlow	109	191.5
Cavan	135	177.2
Laois	147	173.6
Limerick	321	164.7
Monaghan	91	148.2
Dublin	1921	142.6
Longford	58	141.9
Kerry	184	124.6
Meath	232	118.9
Mayo	145	111.1
Waterford	125	107.6
Sligo	68	103.8
Kildare	199	89.4
Wicklow	103	72.3
Tipperary	105	65.8
Cork	314	57.8
Offaly	45	57.7
Galway	133	51.5
Roscommon	33	51.1
Westmeath	42	47.3
Clare	38	32.0
Leitrim	9	28.1
<b>Total</b>	<b>5,827</b>	<b>122.4</b>



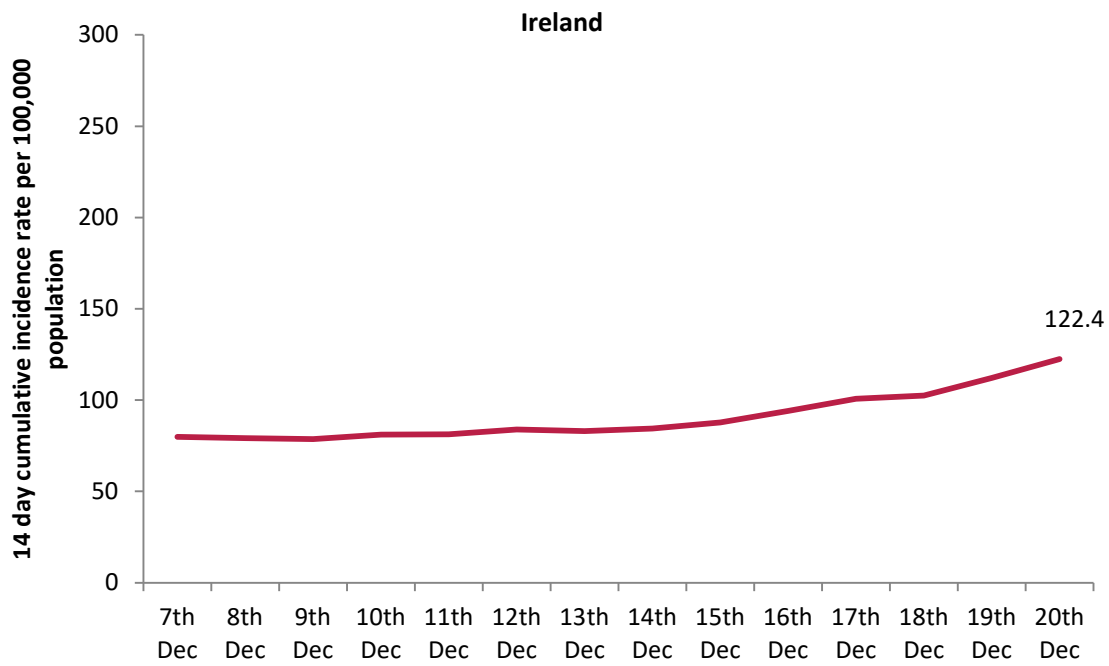
**Figure 2: Cumulative incidence rates of confirmed COVID-19 cases per 100,000 population by county notified in Ireland between 07/12/2020 and 20/12/2020**

*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 07/12/2020 and 20/12/2020**

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	118	86.7
CCA2	Dublin South East	303	244.9
CCA3	Dublin South City	126	84.0
CCA4	Dublin South West	124	77.1
CCA5	Dublin West	189	121.7
CCA6	Dublin North West	352	169.5
CCA7	Dublin North Central	368	238.1
CCA8	Dublin North	341	131.6
	<b>Dublin</b>	<b>1,921</b>	<b>142.6</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 (07/12/2020 to 20/12/2020)**

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 07/12/2020 to midnight 20/12/2020**

Most likely transmission source	Number of cases	Percent
Travel related	112	1.92%
Close contact with a known confirmed case	2784	47.78%
Healthcare setting acquired: patient	250	4.29%
Healthcare setting acquired: staff	263	4.51%
Community transmission	1273	21.85%
Under investigation	1145	19.65%
<b>Total</b>	<b>5827</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 07/12/2020 to midnight 20/12/2020 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	219	1	0.36	0	0
5-12 yrs	515	3	1.09	0	0
13-18 yrs	404	9	3.26	0	0
19-24 yrs	618	9	3.26	0	0
25-34 yrs	1013	17	6.16	0	0
35-44 yrs	950	20	7.25	1	9.09
45-54 yrs	854	29	10.51	2	18.18
55-64 yrs	633	35	12.68	2	18.18
65-74 yrs	285	54	19.57	2	18.18
75-84 yrs	209	68	24.64	4	36.36
85+ yrs	126	31	11.23	0	0
Unknown	1			0	0
<b>Total</b>	<b>5,827</b>	<b>276</b>	<b>100</b>	<b>11</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 09:30 on 21/12/2020. 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.

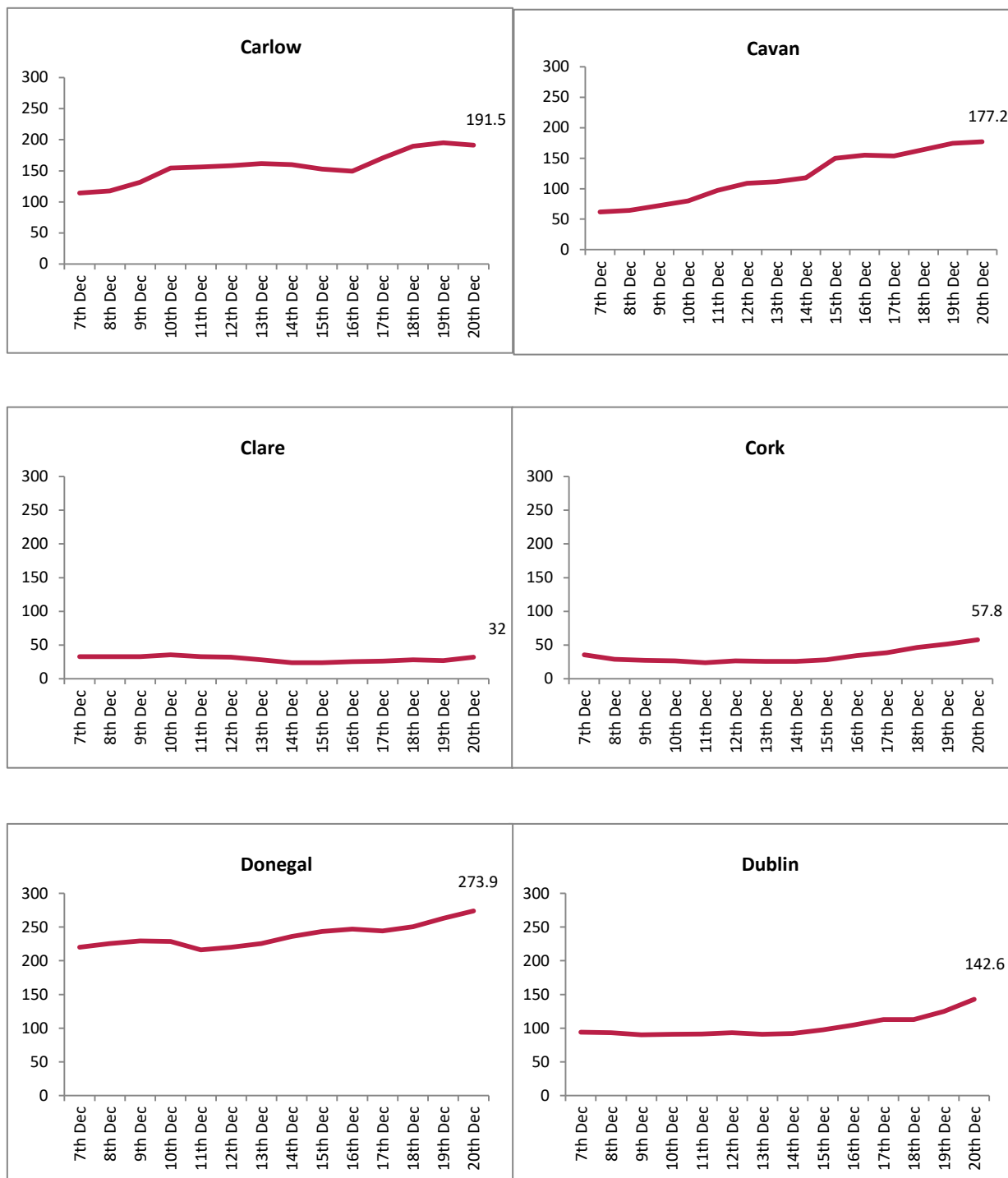
### 5. Outbreak location

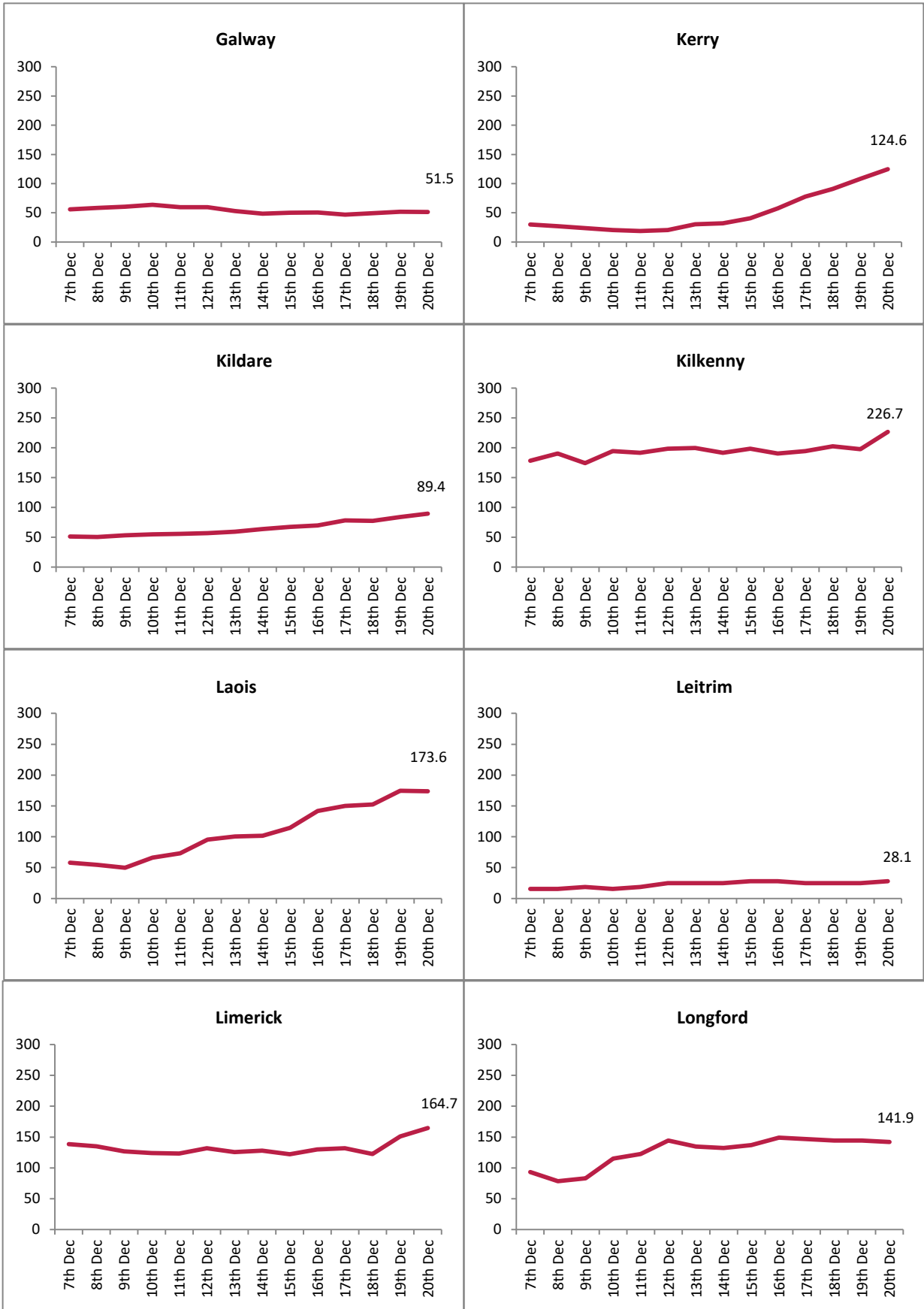
Where an outbreak location is reported as a residential facility (RF) this includes nursing homes, community hospitals, long-stay units and residential institutions including mental health facilities, prisons and direct provision centres.

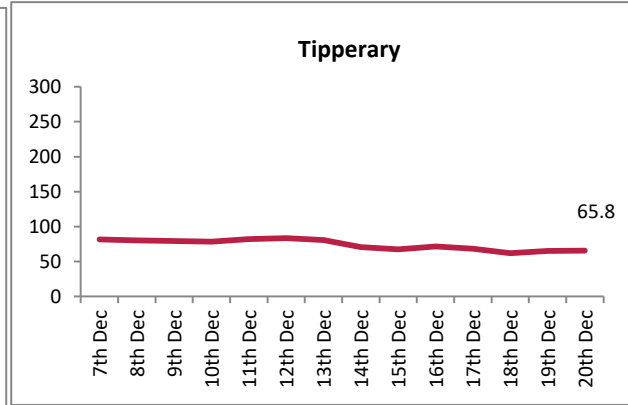
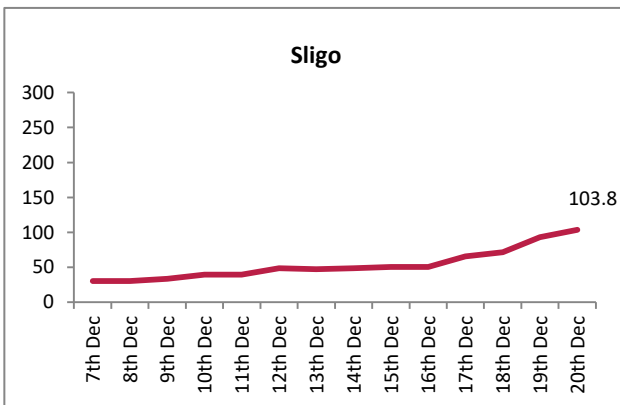
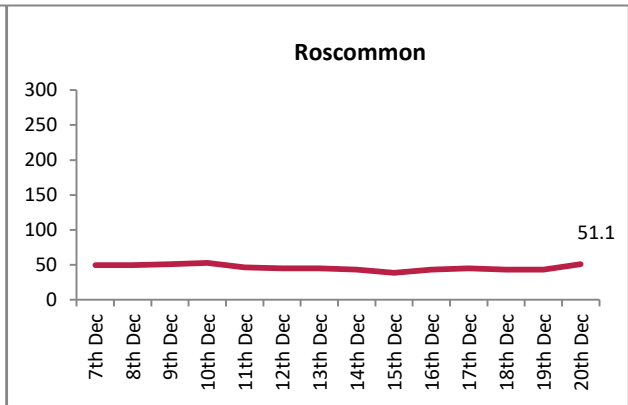
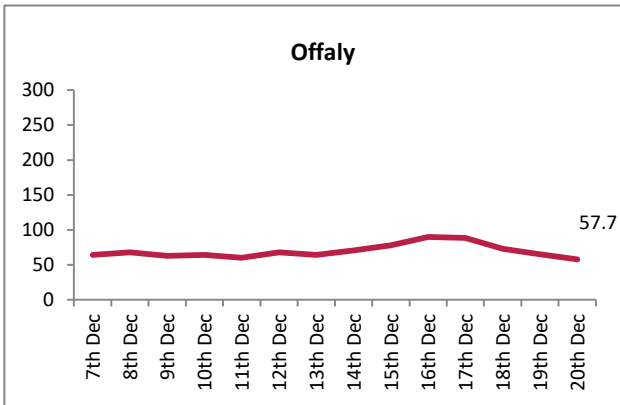
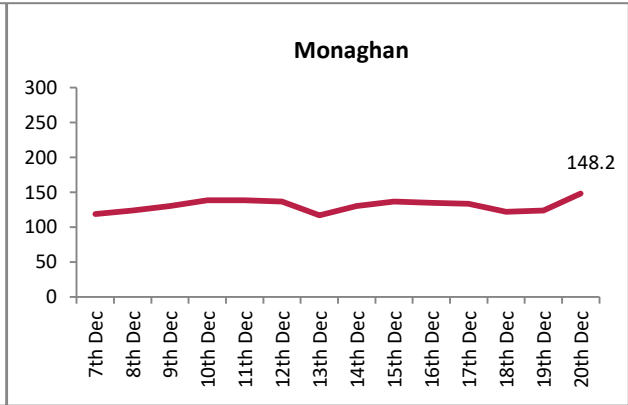
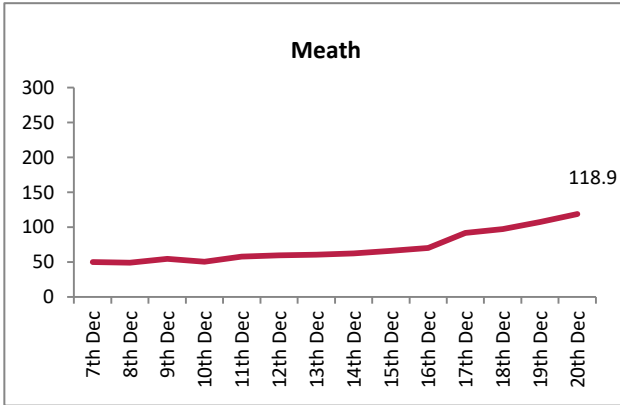
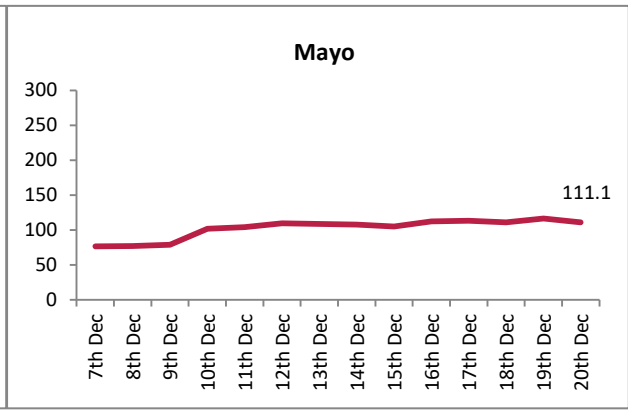
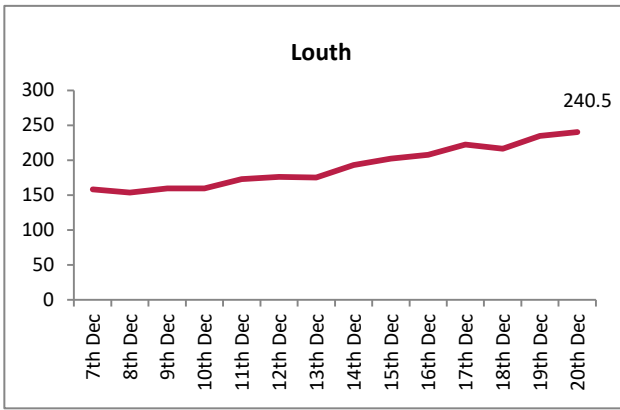
Other outbreak location includes community, extended family, hotel, public house, retail outlet, travel related and all other locations.

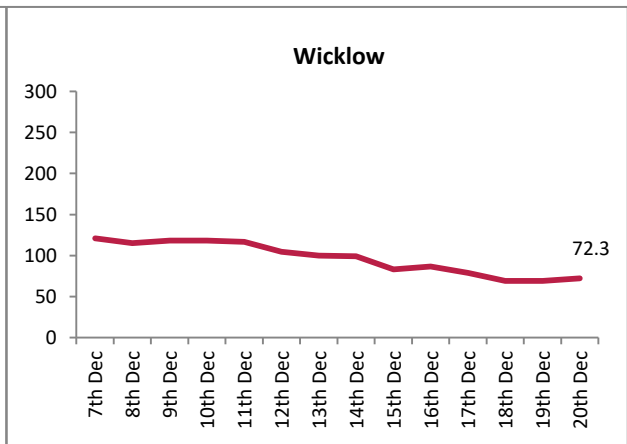
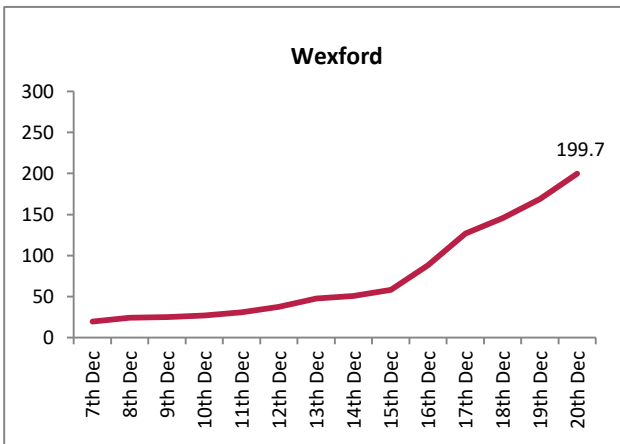
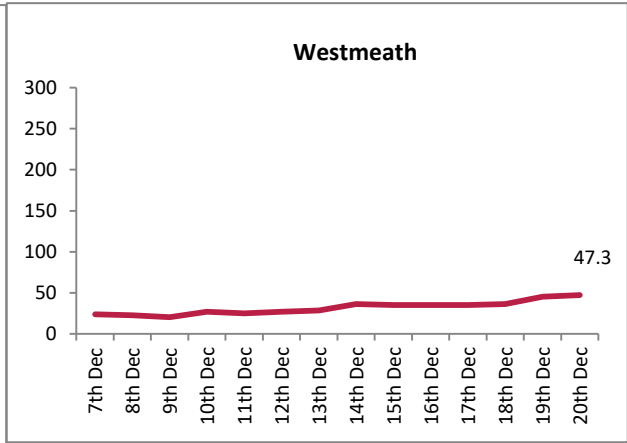
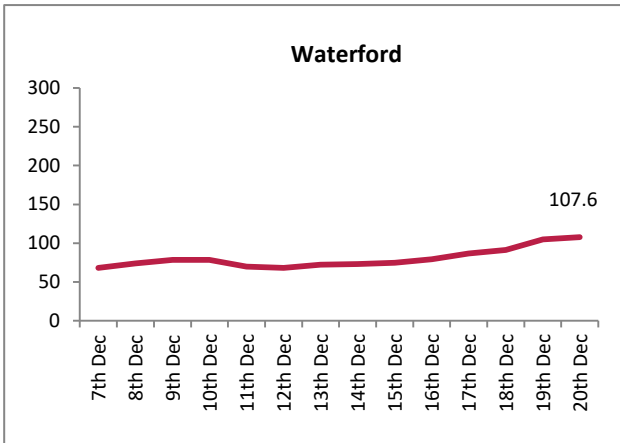
## Appendix 1

Figure A. 14 day cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 by county (07/12/2020 to 20/12/2020)









**Figure B. 14 day cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 by Dublin CCA (07/12/2020 to 20/12/2020)**

