



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

Report prepared by HPSC on 28/12/2020

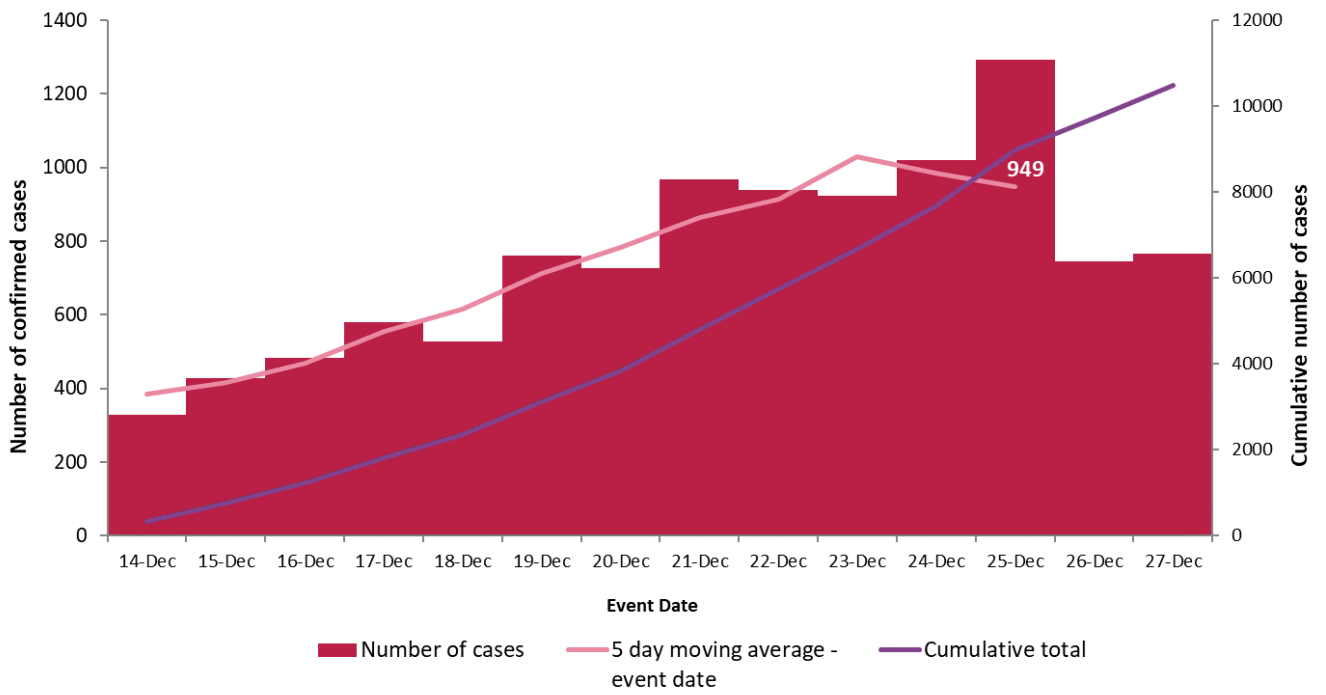
Summary characteristics of confirmed COVID-19 cases notified in Ireland from 14/12/2020 up to midnight 27/12/2020

	Number	Percent
Total number of confirmed cases	10,481	
National incidence of confirmed cases per 100,000 population	220.1	
Number of cases hospitalised*	409	3.9
Number of cases admitted to ICU*	11	0.1
Number of deaths among confirmed cases	19	0.18
Case fatality ratio (CFR, %)	0.18	
National incidence of confirmed deaths per 100,000 population	0.4	
Number of cases** associated with clusters	1,425	13.6
Number of imported cases	16	0.15
Number of cases in healthcare workers	716	6.83
Males	5,207	49.68
Females	5,222	49.82
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  
14/12/2020 - 27/12/2020

**Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 09:44 on 28/12/2020 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= 10,481)**

**Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 14/12/2020 up to midnight on 27/12/202**

Characteristic		Number of cases	Percent
<b>Total number of confirmed cases</b>		<b>10,481</b>	<b>100</b>
<b>Sex</b>	Male:Female ratio	1	
	Male	5,207	49.68
	Female	5,222	49.82
	Unknown	52	0.5
<b>Age</b>	Median age (years)	35	
	Mean age (years)	37	
	Age range (years)	0 - 102	
	0-4 yrs	388	3.7
	5-12 yrs	691	6.59
	13-18 yrs	672	6.41
	19-24 yrs	1,421	13.56
	25-34 yrs	1,965	18.75
	35-44 yrs	1,698	16.2
	45-54 yrs	1,443	13.77
	55-64 yrs	1,158	11.05
	65-74 yrs	520	4.96
	75-84 yrs	334	3.19
	85+ yrs	189	1.8
	Unknown	2	0.02
<b>Underlying clinical conditions</b>	Yes	1,880	17.94
	No	4,727	45.1
	Unknown	3,874	36.96
<b>Symptom status at time of test*</b>	Yes	4,813	45.92
	No	1,660	15.84
	Unknown	4,008	38.24

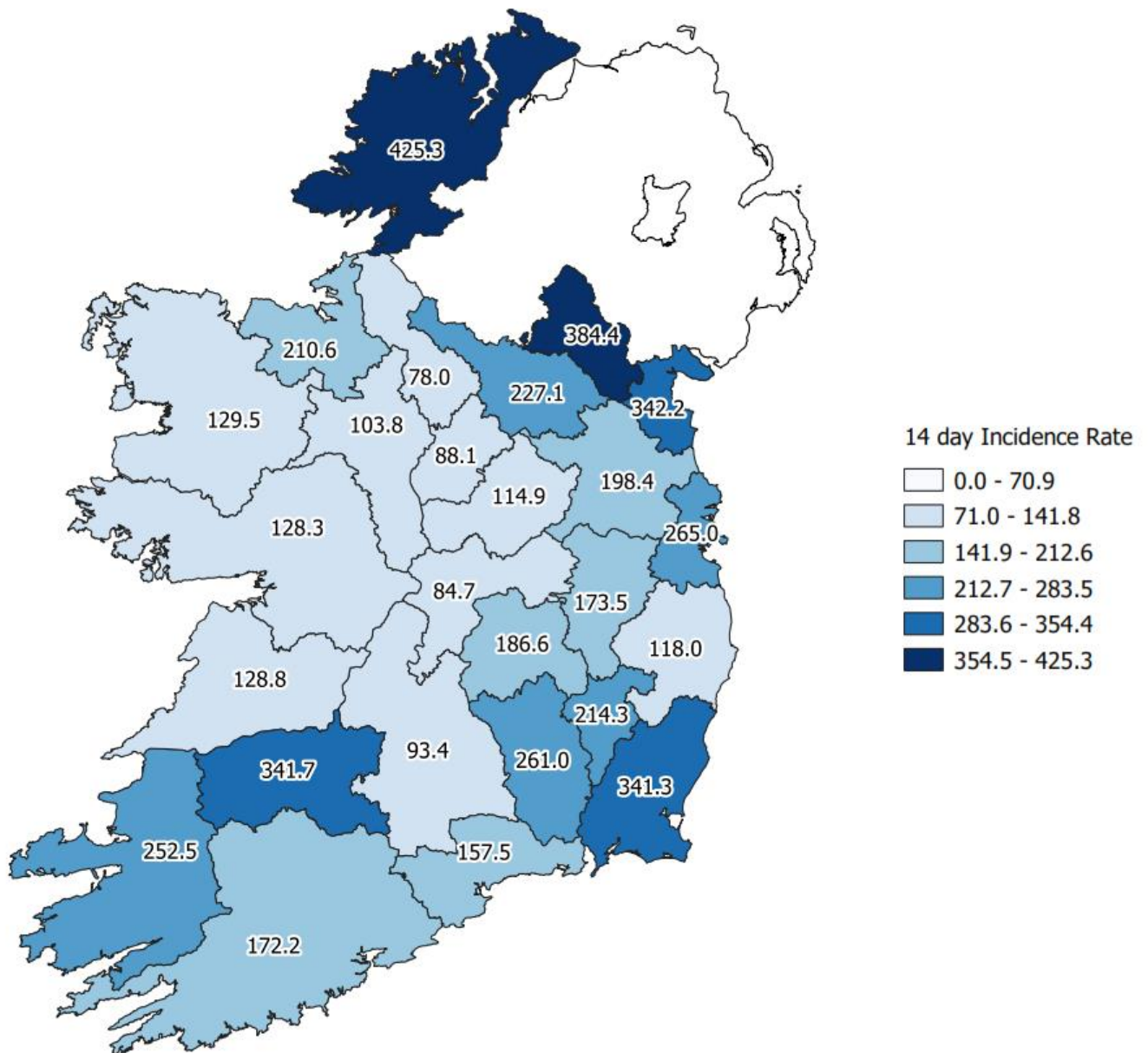
\*Symptom status is recorded at the time of test and is not updated, therefore a proportion of the asymptomatic cases may subsequently develop symptoms however this will not be captured in the data.

**Table 2: Number of confirmed COVID-19 cases by community healthcare organisation (CHO) notified in Ireland from 14/12/2020 to midnight 27/12/2020**

CHO Area	Number of confirmed cases	Incidence per 100,000 population
CHO1	1,249	319.2
CHO2	567	125.1
CHO3	916	237.9
CHO4	1,308	189.4
CHO5	1,126	220.6
CHO6	1002	261.5
CHO7	1,334	188.5
CHO8	1,191	192.3
CHO9	1,788	287.7
Unknown		
<b>Total</b>	<b>10,481</b>	<b>220.1</b>

**Table 3: Number of confirmed COVID-19 cases by county notified in Ireland from 14/12/2020 to midnight 27/12/2020**

County	Number of confirmed cases	Incidence per 100,000 population
Donegal	677	425.3
Monaghan	236	384.5
Louth	441	342.2
Limerick	666	341.7
Wexford	511	341.3
Dublin	3570	265.0
Kilkenny	259	261.0
Kerry	373	252.5
Cavan	173	227.1
Carlow	122	214.3
Sligo	138	210.6
Meath	387	198.4
Laois	158	186.5
Kildare	386	173.5
Cork	935	172.2
Waterford	183	157.5
Mayo	169	129.5
Clare	153	128.8
Galway	331	128.3
Wicklow	168	118.0
Westmeath	102	114.9
Roscommon	67	103.8
Tipperary	149	93.4
Longford	36	88.1
Offaly	66	84.7
Leitrim	25	78.0
<b>Total</b>	<b>10,481</b>	<b>220.1</b>



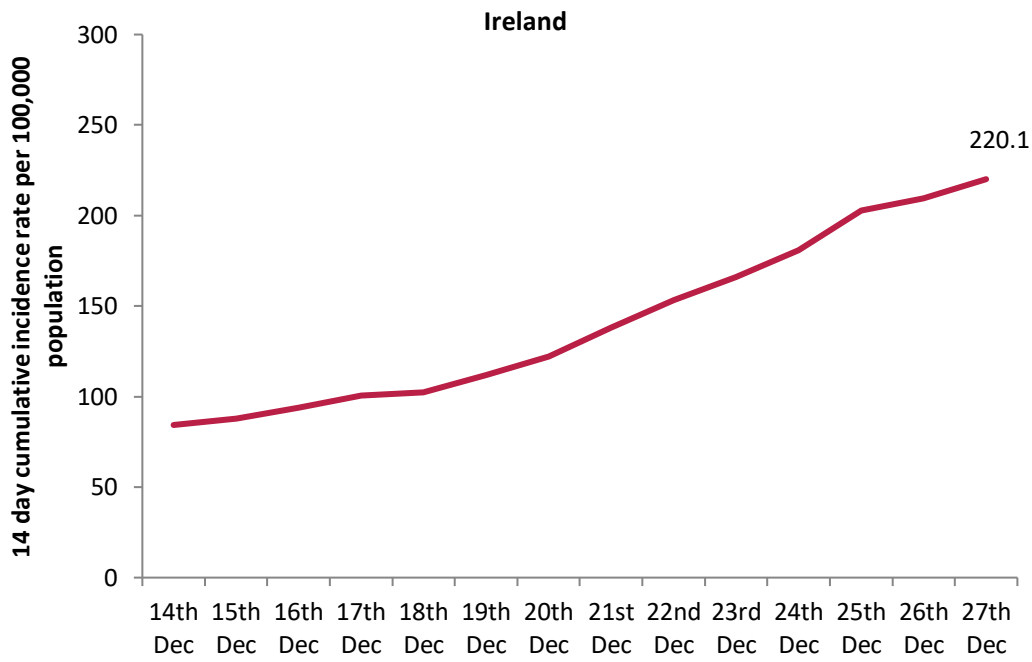
**Figure 2: Cumulative incidence rates of confirmed COVID-19 cases per 100,000 population by county notified in Ireland between 14/12/2020 and 27/12/2020**

*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 14/12/2020 and 27/12/2020**

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	240	176.4
CCA2	Dublin South East	600	485.0
CCA3	Dublin South City	272	181.4
CCA4	Dublin South West	295	183.3
CCA5	Dublin West	375	241.4
CCA6	Dublin North West	627	301.9
CCA7	Dublin North Central	643	416.0
CCA8	Dublin North	518	199.9
	<b>Dublin</b>	<b>3570</b>	<b>265.0</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 (14/12/2020 to 27/12/2020)**

14 day incidence rates per 100,000 populations of confirmed cases of COVID-19 for individual counties can be found in appendix 4 of this report

**Table 5: Number of confirmed COVID-19 cases by most likely transmission source notified from 14/12/2020 to midnight 27/12/2020**

Most likely transmission source	Number of cases	Percent
Travel related	124	1.18%
Close contact with a known confirmed case	3520	33.58%
Healthcare setting acquired: patient	245	2.34%
Healthcare setting acquired: staff	311	2.97%
Community transmission	1893	18.06%
Under investigation	4388	41.87%
<b>Total</b>	<b>10481</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 14/12/2020 to midnight 27/12/2020 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	388	2	0.5	0	0
5-12 yrs	691	7	1.7	0	0
13-18 yrs	672	9	2.2	0	0
19-24 yrs	1421	25	6.1	0	0
25-34 yrs	1965	30	7.3	0	0
35-44 yrs	1698	35	8.6	1	9.1
45-54 yrs	1443	42	10.3	1	9.1
55-64 yrs	1158	54	13.2	5	45.5
65-74 yrs	520	57	13.9	1	9.1
75-84 yrs	334	90	22.0	3	27.3
85+ yrs	189	58	14.2	0	0
Unknown	2			0	0
<b>Total</b>	<b>10,481</b>	<b>409</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 09:44 on 12/28/20. 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.

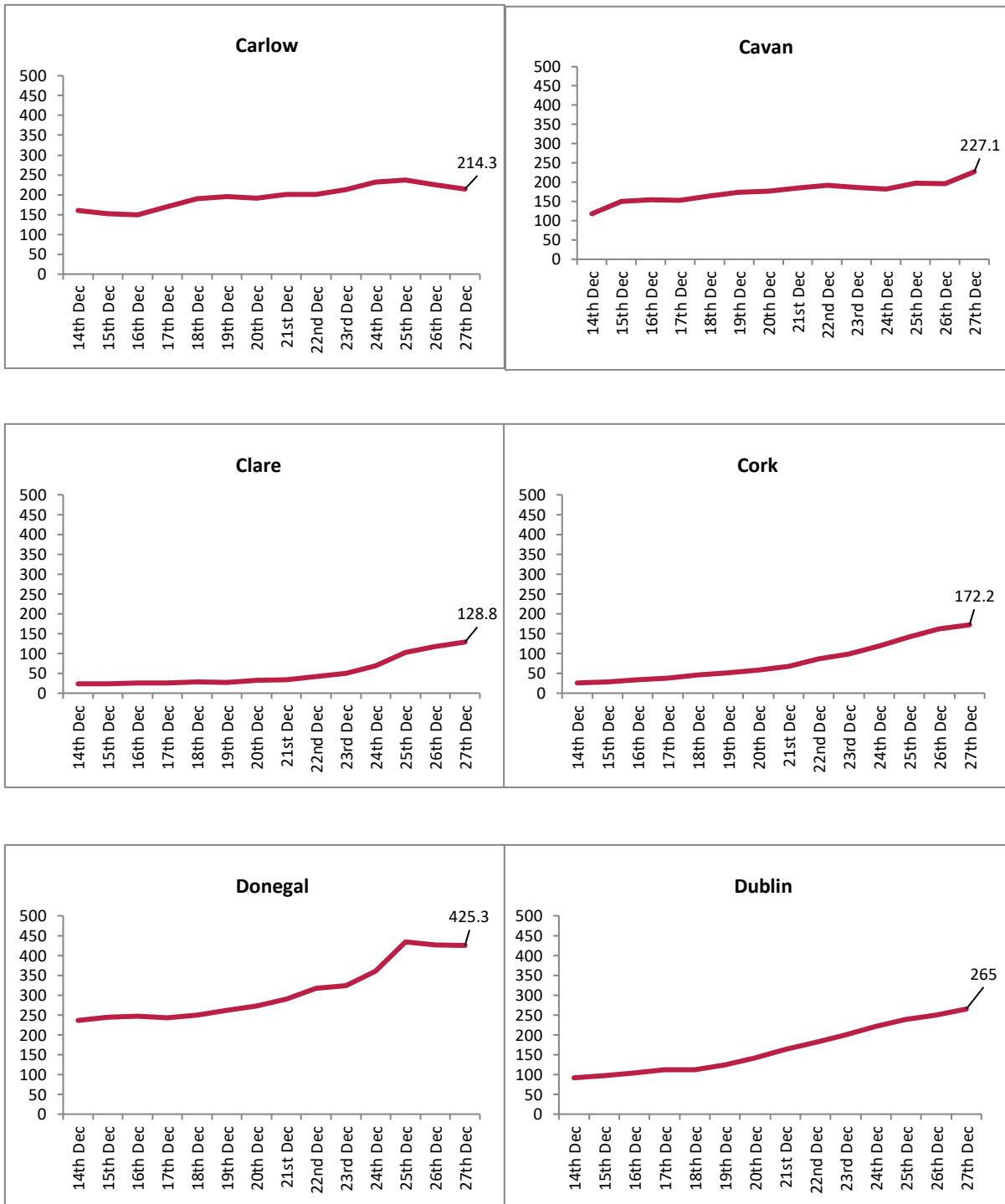
### 5. Outbreak location

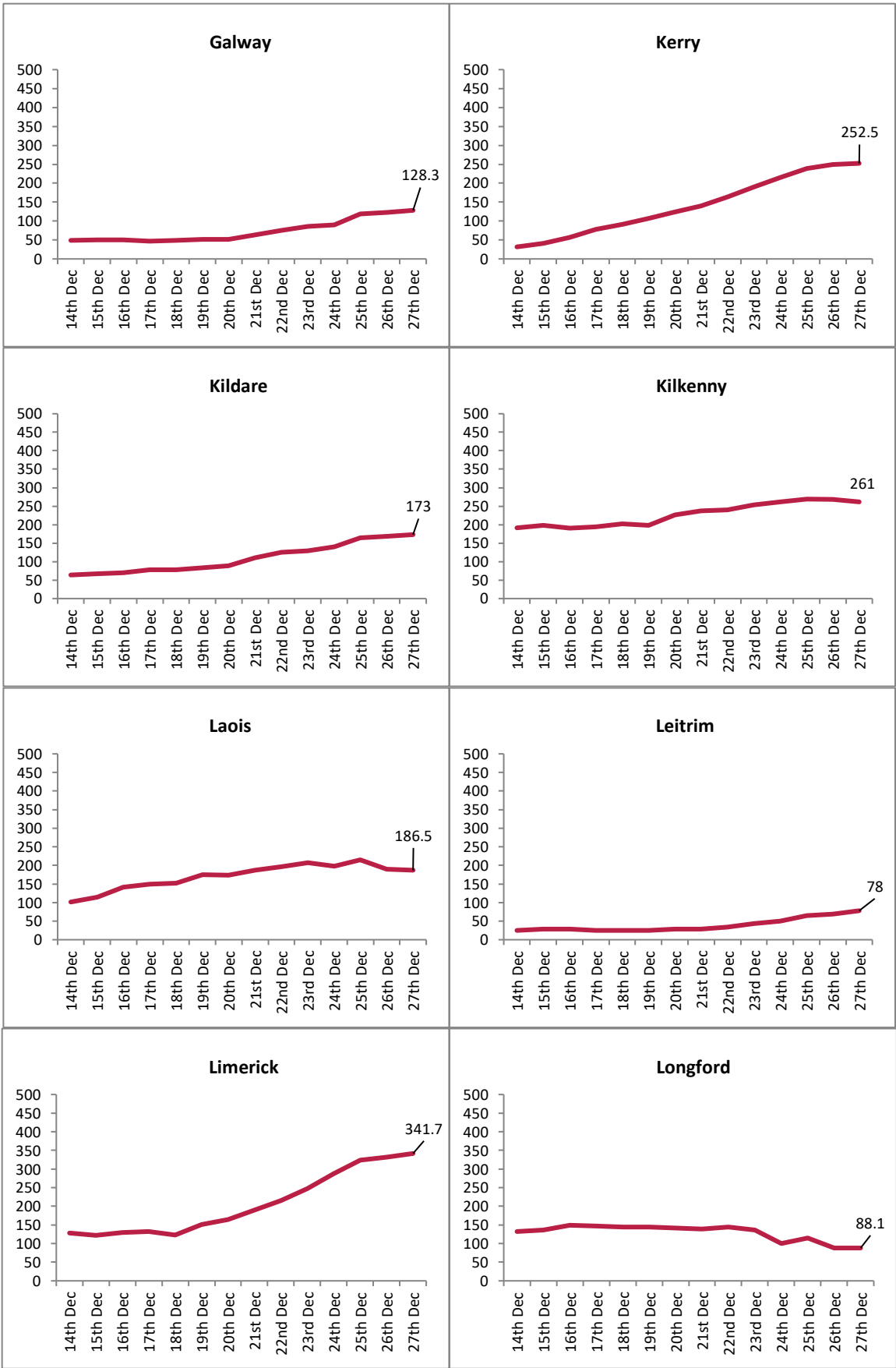
Where an outbreak location is reported as a residential facility (RF) this includes nursing homes, community hospitals, long-stay units and residential institutions including mental health facilities, prisons and direct provision centres.

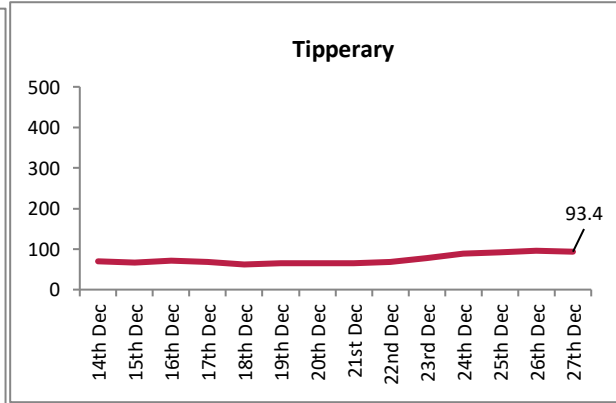
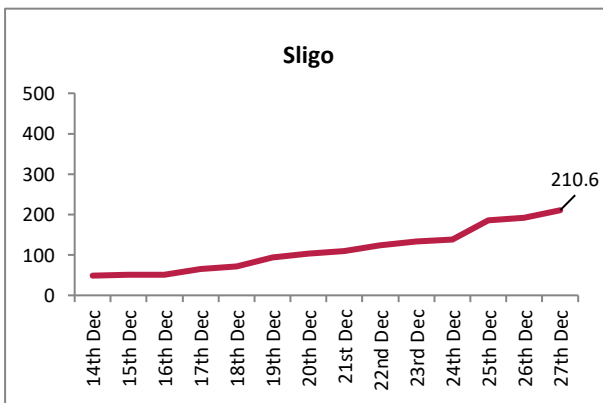
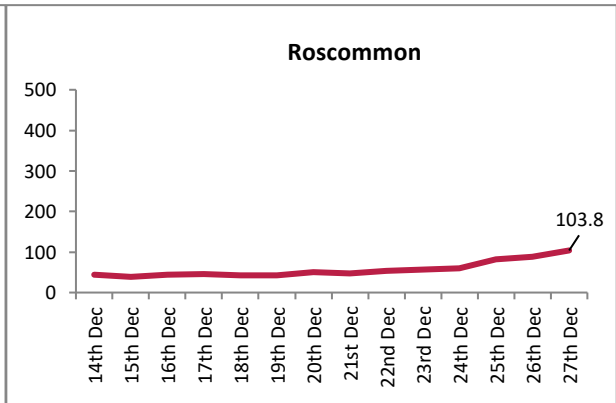
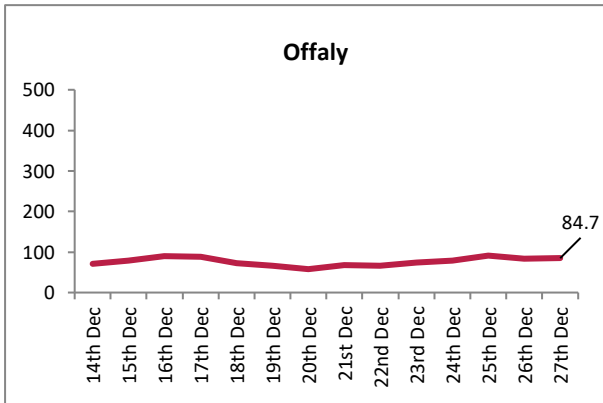
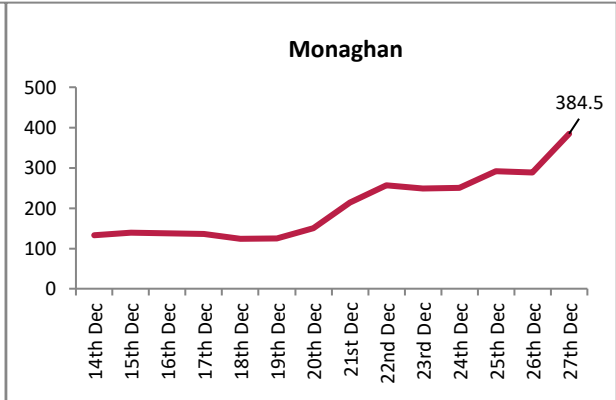
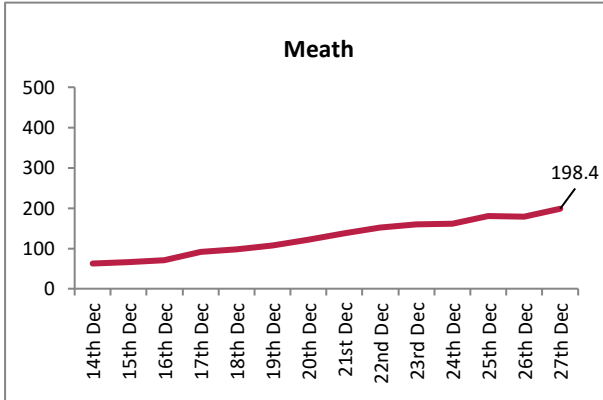
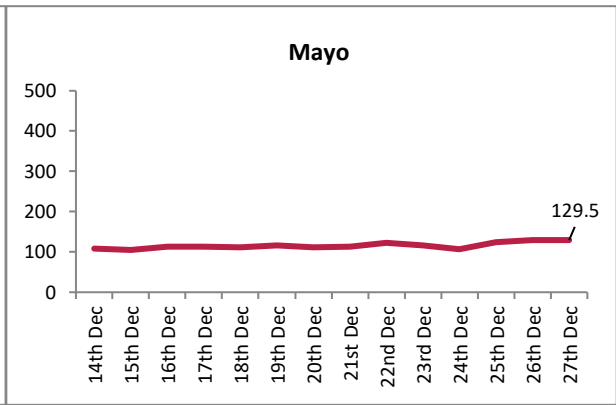
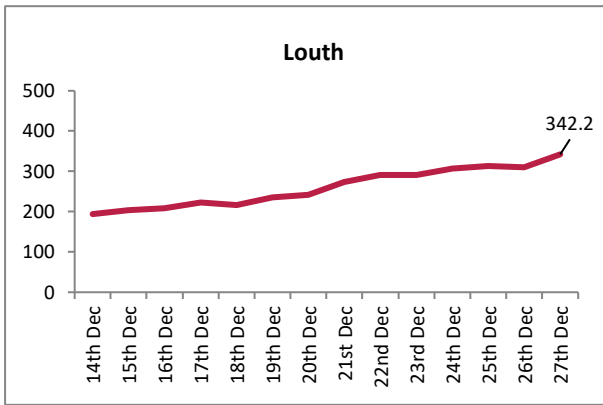
Other outbreak location includes community, extended family, hotel, public house, retail outlet, travel related and all other locations.

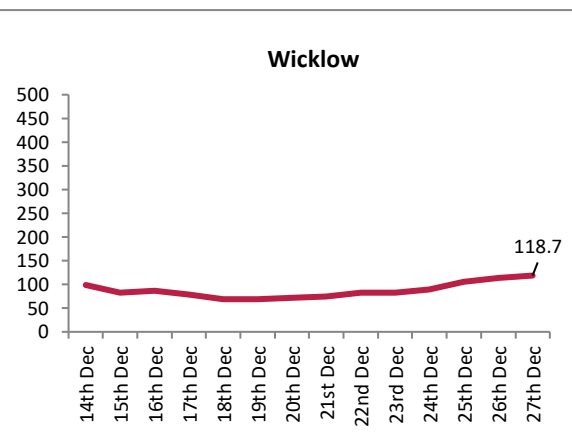
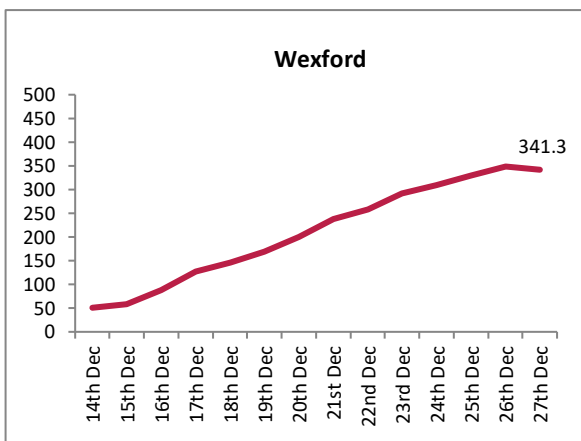
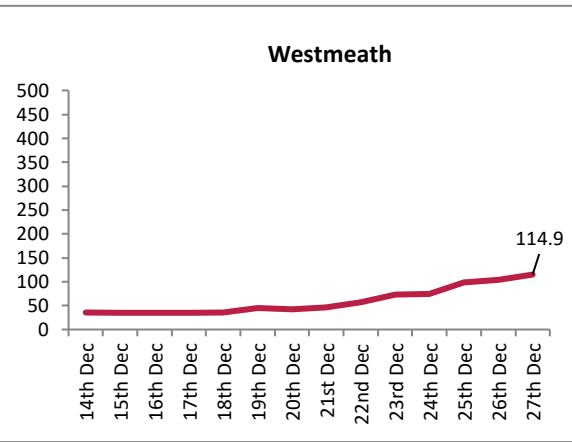
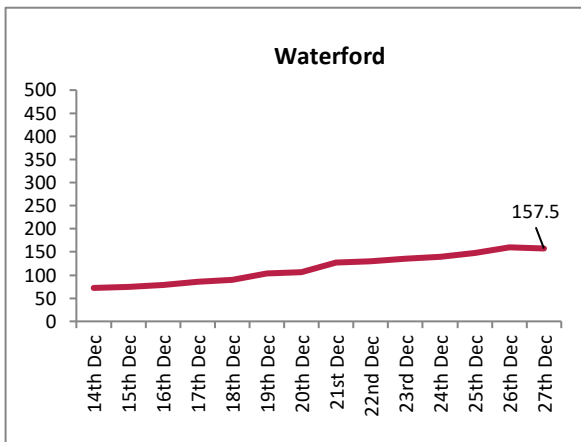
## Appendix 4

Figure A. 14 day cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 by county (14/12/2020 to 27/12/2020)









**Figure B. 14 day cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 by Dublin CCA (14/12/2020 to 27/12/2020)**

