



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

Report prepared by HPSC on 01/01/2021

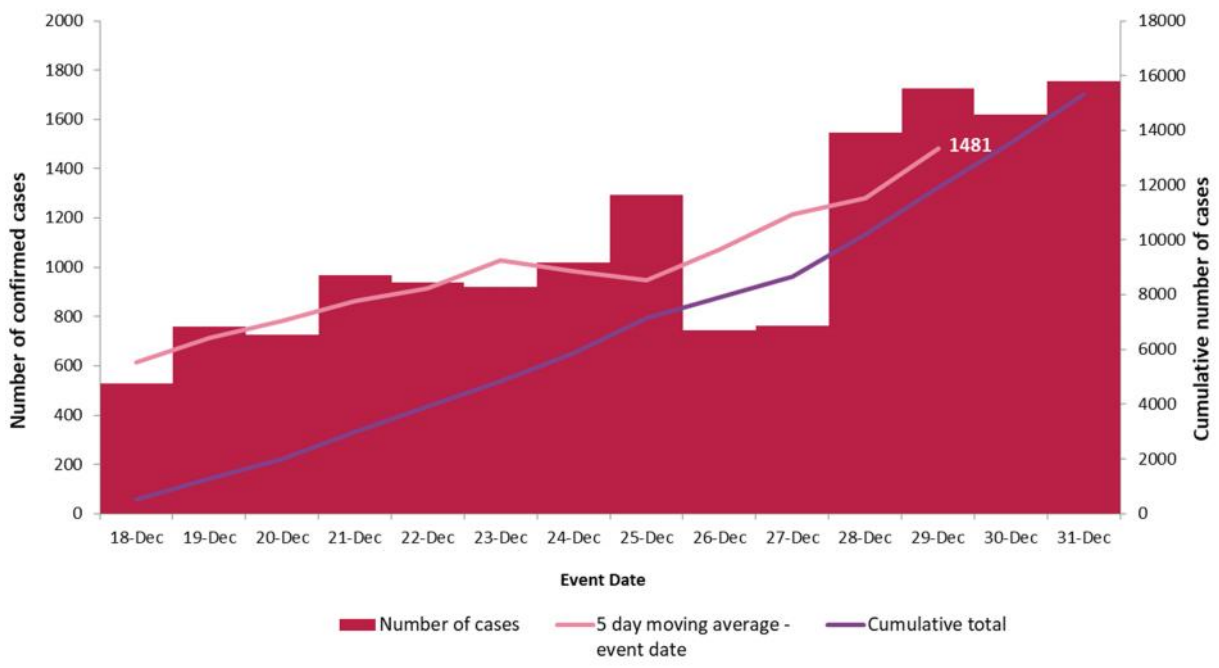
Summary characteristics of confirmed COVID-19 cases notified in Ireland from 18/12/2020 up to midnight 31/12/2020

	Number	Percent
Total number of confirmed cases	15,302	
National incidence of confirmed cases per 100,000 population	321.34	
Number of cases hospitalised*	484	3.16
Number of cases admitted to ICU*	14	0.09
Number of deaths among confirmed cases	34	0.22
Case fatality ratio (CFR, %)	0.22	
National incidence of confirmed deaths per 100,000 population	0.71	
Number of cases** associated with clusters	1,260	8.23
Number of imported cases	13	0.08
Number of cases in healthcare workers	569	3.72
Males	7,567	49.45
Females	7,685	50.22
M:F ratio	0.98	
Median age (years)	34	
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  
18/12/2020 - 31/12/2020

**Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 09:46 on 01/01/2021 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=15,302)**

**Table 1: Age and sex of confirmed COVID-19 cases notified in Ireland from 18/12/2020 up to midnight on 31/12/2020**

Characteristic		Number of cases	Percent
<b>Total number of confirmed cases</b>		<b>15,302</b>	<b>100</b>
<b>Sex</b>	Male:Female ratio	0.98	
	Male	7,567	49.45
	Female	7,685	50.22
	Unknown	50	0.33
<b>Age</b>	Median age (years)	34	
	Mean age (years)	37	
	Age range (years)	0 - 102	
	0-4 yrs	473	3.09
	5-12 yrs	831	5.43
	13-18 yrs	920	6.01
	19-24 yrs	2,422	15.83
	25-34 yrs	3,023	19.76
	35-44 yrs	2,364	15.45
	45-54 yrs	2,107	13.77
	55-64 yrs	1,670	10.91
	65-74 yrs	795	5.2
	75-84 yrs	422	2.76
	85+ yrs	272	1.78
Unknown	3	0.02	

**Table 2: Characteristics of confirmed COVID-19 cases notified in Ireland from 18/12/2020 up to midnight on 31/12/2020**

Characteristic		Number of cases	Percent	Percent where known
<b>Total number of cases</b>		<b>15,302</b>	<b>100</b>	
<b>Underlying clinical conditions</b>	Yes	1,457	9.52	25.93
	No	4,162	27.2	74.07
	Unknown	9,683	63.28	
	Total cases where known	5,619		
<b>Symptom status at time of test*</b>	Yes	4,183	27.34	75.97
	No	1,323	8.65	24.03
	Unknown	9,796	64.02	
	Total cases where known	5,506		
<b>Healthcare worker</b>	Yes	569	3.72	10.1
	No	5,062	33.08	89.9
	Unknown	9,671	63.2	
	Total cases where known	5,631		

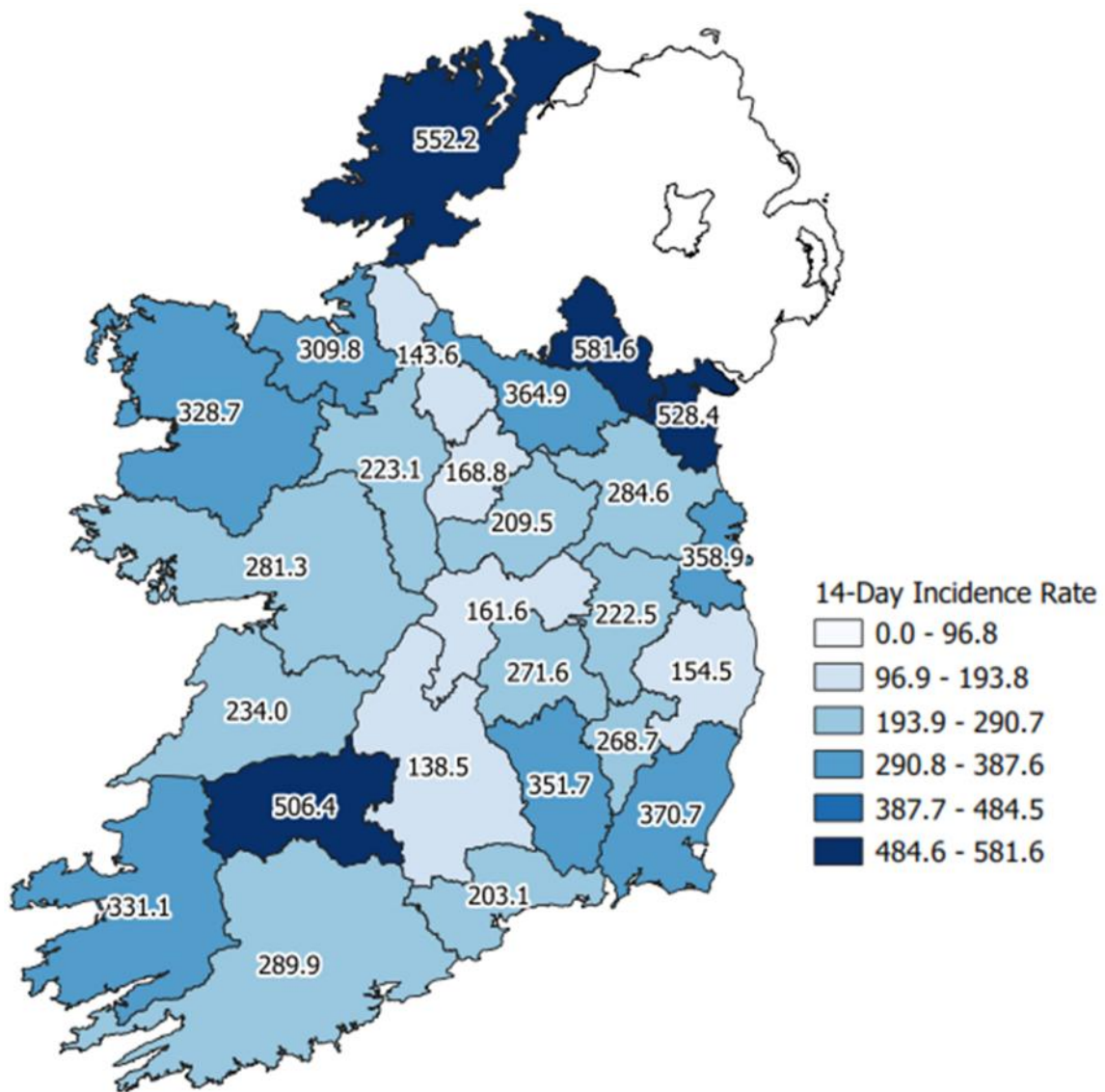
\*Symptom status is recorded at the time of test and is not updated, therefore a proportion of the asymptomatic cases may subsequently develop symptoms however this will not be captured in the data.

**Table 3: Number of confirmed COVID-19 cases by community healthcare organisation (CHO) notified in Ireland from 18/12/2020 to midnight 31/12/2020**

CHO Area	Number of confirmed cases	Incidence per 100,000 population
CHO1	1,763	450.6
CHO2	1299	286.7
CHO3	1400	363.6
CHO4	2,063	298.7
CHO5	1,368	268.1
CHO6	1340	349.7
CHO7	1,757	248.3
CHO8	1,858	300.0
CHO9	2,453	394.8
Unknown	1	
<b>Total</b>	<b>15,302</b>	<b>321.3</b>

**Table 4: Number of confirmed COVID-19 cases by county notified in Ireland from 18/12/2020 to midnight 31/12/2020**

County	Number of confirmed cases	Incidence per 100,000 population
Monaghan	357	581.6
Donegal	879	552.2
Louth	681	528.4
Limerick	987	506.4
Wexford	555	370.7
Cavan	278	364.9
Dublin	4836	358.9
Kilkenny	349	351.7
Kerry	489	331.1
Mayo	429	328.7
Sligo	203	309.8
Cork	1574	289.9
Meath	555	284.6
Galway	726	281.3
Laois	230	271.6
Carlow	153	268.7
Clare	278	234.0
Roscommon	144	223.1
Kildare	495	222.5
Westmeath	186	209.5
Waterford	236	203.1
Longford	69	168.8
Offaly	126	161.6
Wicklow	220	154.5
Leitrim	46	143.6
Tipperary	221	138.5
<b>Total</b>	<b>15,302</b>	<b>321.3</b>



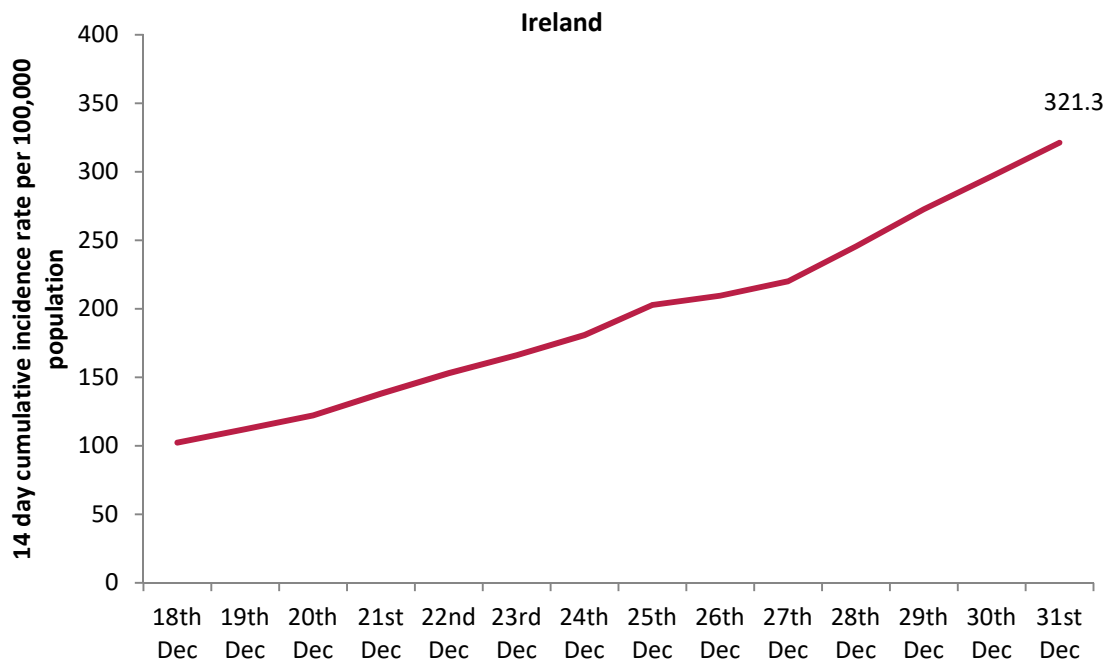
**Figure 2: Cumulative incidence rates of confirmed COVID-19 cases per 100,000 population by county notified in Ireland between 18/12/2020 and 31/12/2020**

*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 18/12/2020 and 31/12/2020**

CCA	Local Health Office	Number of cases in past 14 days based on notification date	14 day incidence rates based on notification dates	Population (2016 Census)
CCA1	Dublin South	306	224.9	136,074
CCA2	Dublin South East	764	617.6	123,704
CCA3	Dublin South City	347	231.4	149,935
CCA4	Dublin South West	373	231.8	160,898
CCA5	Dublin West	454	292.3	155,343
CCA6	Dublin North West	792	381.4	207,670
CCA7	Dublin North Central	805	520.8	154,583
CCA8	Dublin North	664	256.2	259,152
	Unknown	1		
	<b>Dublin</b>	<b>4,506</b>	<b>334.4</b>	<b>1,347,359</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 (18/12/2020 to 31/12/2020)**

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 18/12/2020 to midnight 31/12/2020**

Most likely transmission source	Number of cases	Percent
Travel related	102	0.67%
Close contact with a known confirmed case	2,974	19.44%
Healthcare setting acquired: patient	151	0.99%
Healthcare setting acquired: staff	231	1.51%
Community transmission	1,637	10.70%
Under investigation	10,207	66.70%
<b>Total cases with known most likely transmission source</b>	<b>5,095</b>	
<b>Total</b>	<b>15,302</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: Number and proportion of confirmed cases of COVID-19 notified in Ireland from 18/12/2020 to midnight 31/12/2020 by age-group, hospitalisation, ICU admission\* and vital status**

	0-4 yrs	5-12 yrs	13-18 yrs	19-24 yrs	25-34 yrs	35-44 yrs	45-54 yrs	55-64 yrs	65-74 yrs	75-84 yrs	85+ yrs	Unknown
Number of cases (n)	473	831	920	2,422	3,023	2,364	2,107	1,670	795	422	272	3
Cases hospitalised (n)	3	8	10	34	46	40	58	55	70	89	71	
Cases hospitalised (%)	0.63	0.96	1.09	1.4	1.52	1.69	2.75	3.29	8.81	21.09	26.1	
Cases admitted to ICU (n)	0	0	0	0	3	1	1	2	5	2	0	0
Cases admitted to ICU (%)	0	0	0	0	0.1	0.04	0.05	0.12	0.63	0.47	0	0
Deaths (n)	0	0	0	0	0	0	1	2	5	11	15	0
Case fatality ratio (%)	0	0	0	0	0	0	0.05	0.12	0.63	2.61	5.51	0

\* 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 09:46 on 01/01/2021. 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.

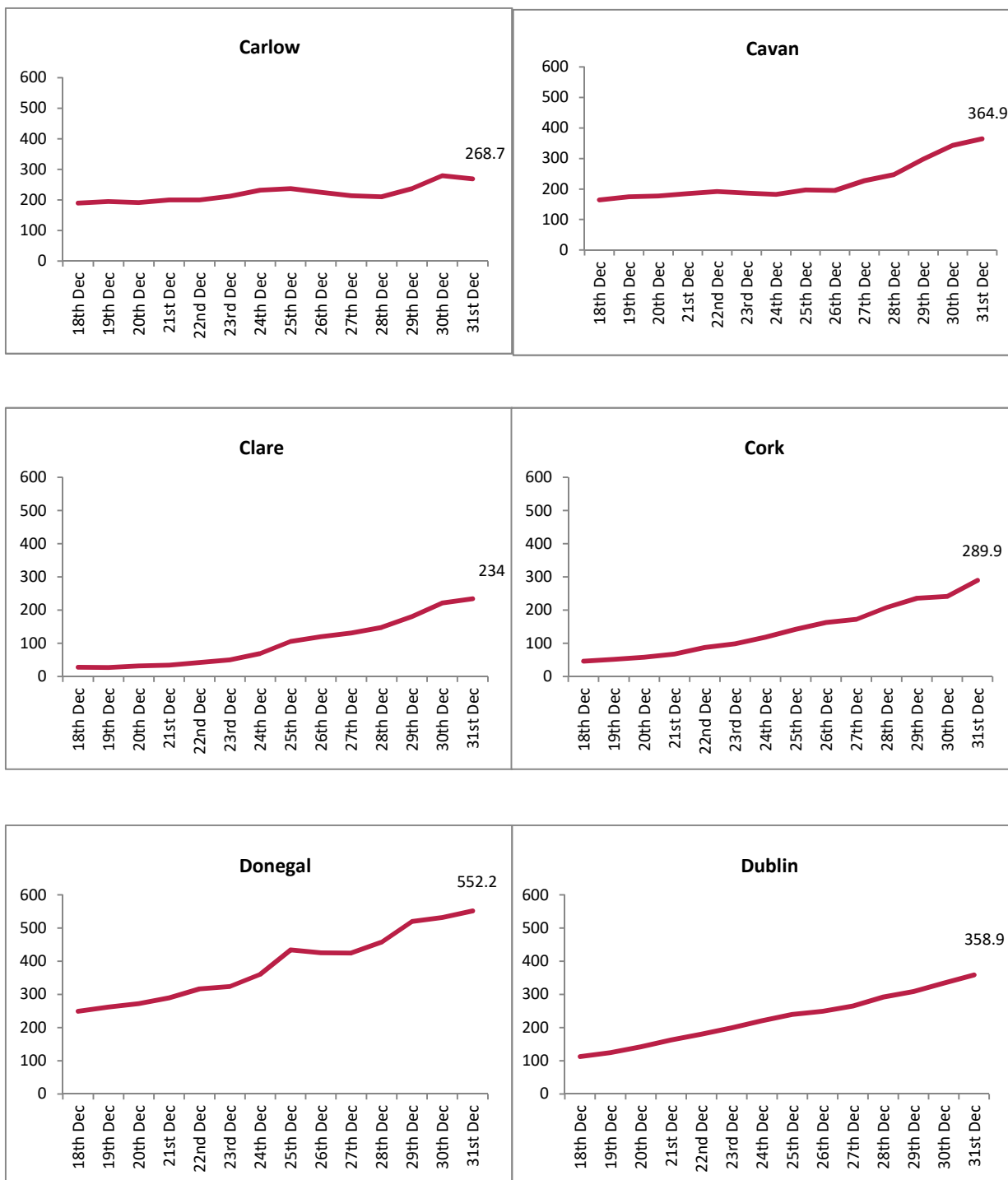
### 5. Outbreak location

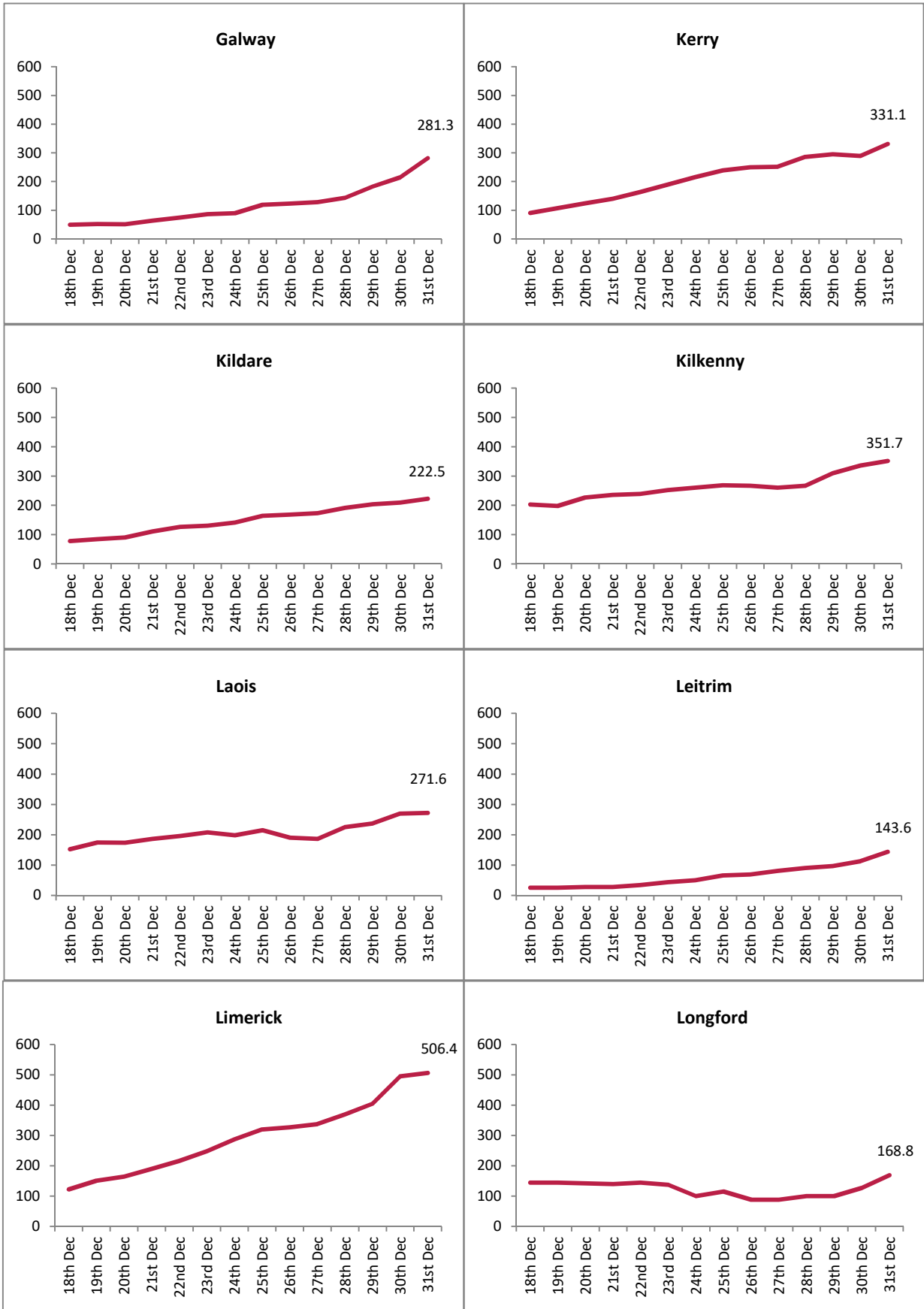
Where an outbreak location is reported as a residential facility (RF) this includes nursing homes, community hospitals, long-stay units and residential institutions including mental health facilities, prisons and direct provision centres.

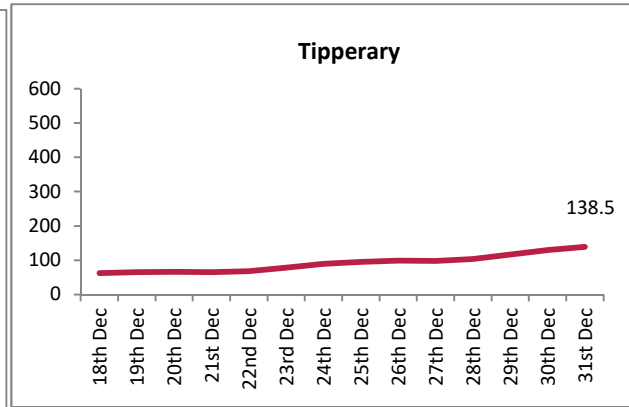
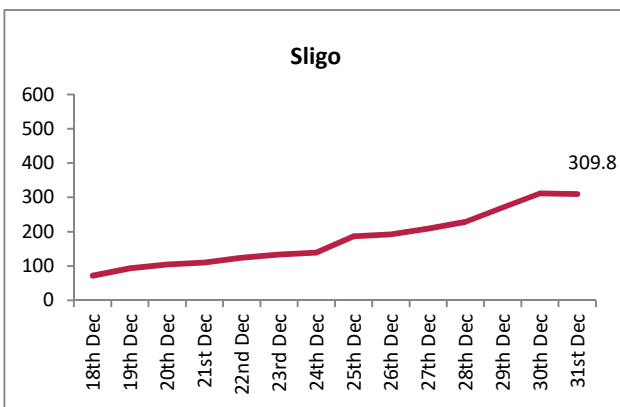
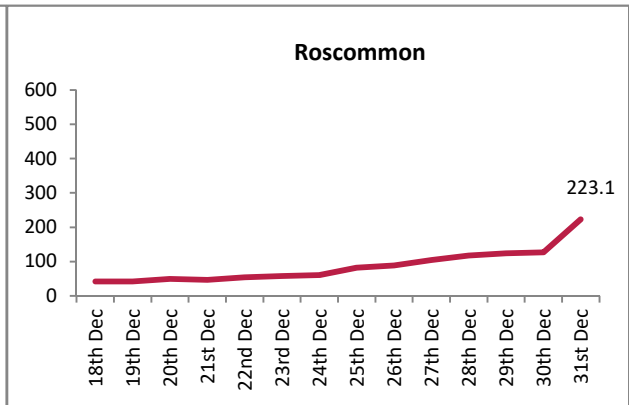
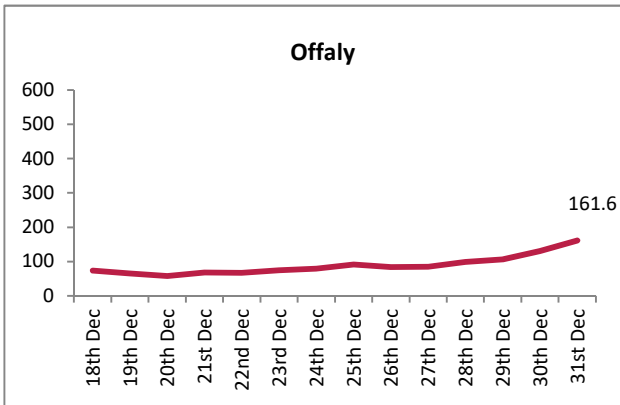
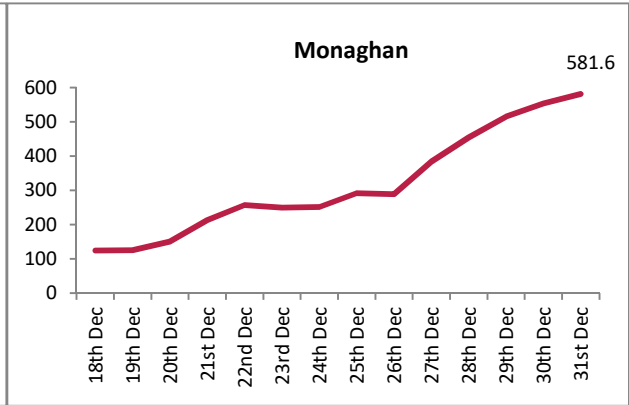
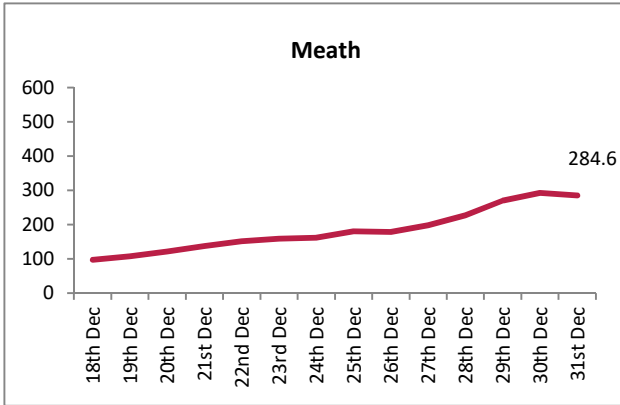
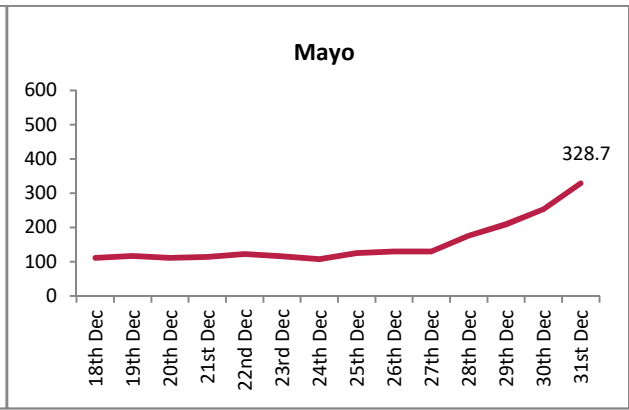
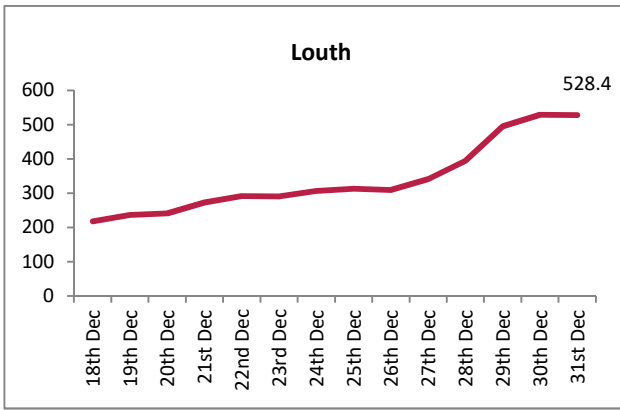
Other outbreak location includes community, extended family, hotel, public house, retail outlet, travel related and all other locations.

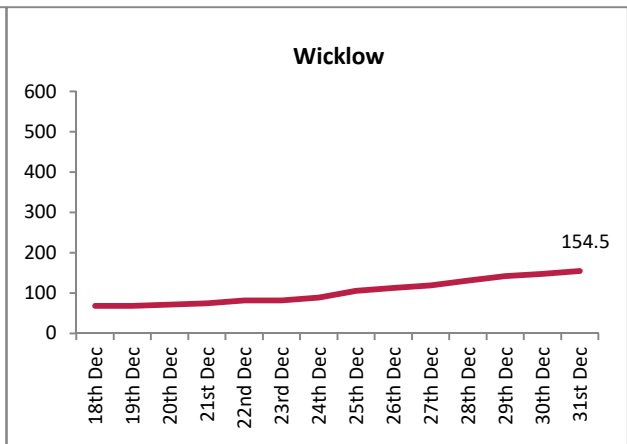
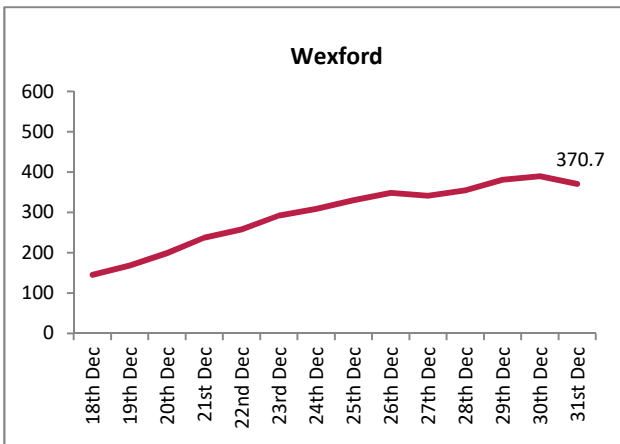
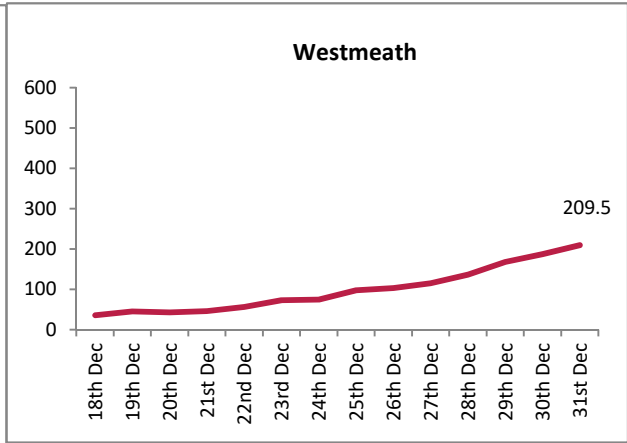
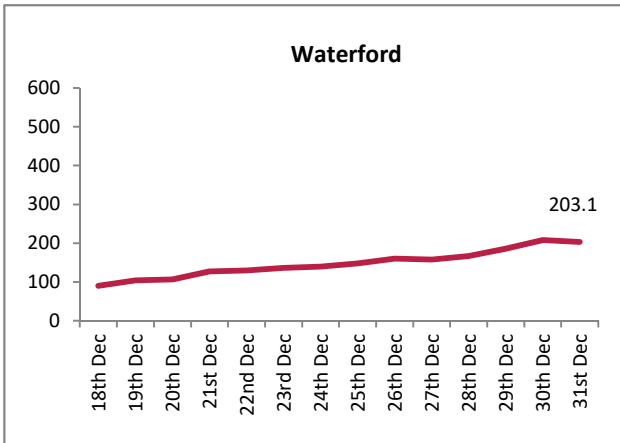
## Appendix 1

Figure A. 14 day cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 by county (18/12/2020 to 31/12/2020)









**Figure B. 14 day cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 by Dublin CCA (18/12/2020 to 31/12/2020)**

