



Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 23/12/2020

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 09/12/2020 up to midnight 22/12/2020

	Number	Percent
Total number of confirmed cases	7,297	
National incidence of confirmed cases per 100,000 population	153.24	
Number of cases hospitalised*	331	4.54
Number of cases admitted to ICU*	13	0.18
Number of deaths among confirmed cases	17	0.23
Case fatality ratio (CFR, %)	0.23	
National incidence of confirmed deaths per 100,000 population	0.36	
Number of cases** associated with clusters	1,587	21.75
Number of imported cases	19	0.26
Number of cases in healthcare workers	708	9.7
% HCW where HCW status known	6,070	11.66
Males	3,571	48.94
Females	3,705	50.77
M:F ratio	0.96	
Median age (years)	36	
Mean age (years)	38	
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
09/12/2020 - 22/12/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 09:20 on 23/12/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.

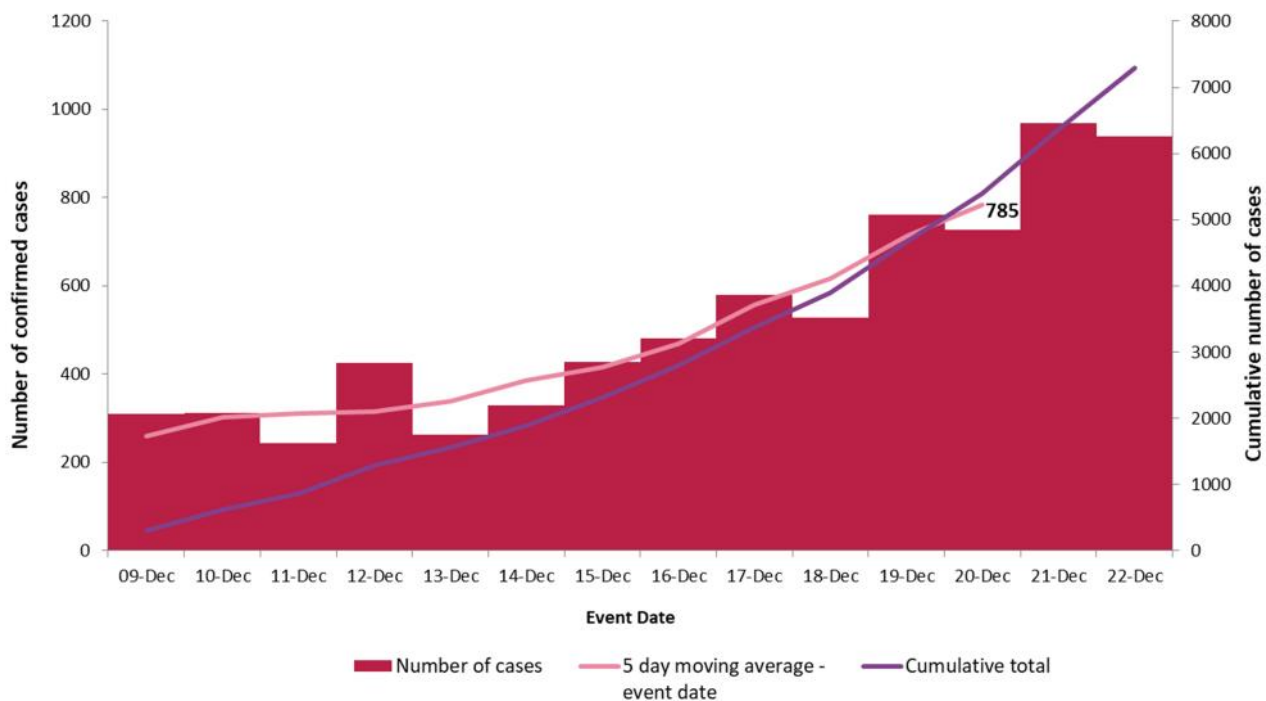


Figure 1. Daily number and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date (n=7,297)

Table 1: Age and sex of confirmed COVID-19 cases notified in Ireland from 09/12/2020 up to midnight on 22/12/2020

Characteristic		Number of cases	Percent
Total number of confirmed cases		7,297	100
Sex	Male:Female ratio	0.96	
	Male	3,571	48.94
	Female	3,705	50.77
	Unknown	21	0.29
Age	Median age (years)	36	
	Mean age (years)	38	
	Age range (years)	0 - 102	
	0-4 yrs	283	3.88
	5-12 yrs	588	8.06
	13-18 yrs	513	7.03
	19-24 yrs	820	11.24
	25-34 yrs	1,259	17.25
	35-44 yrs	1,216	16.66
	45-54 yrs	1,056	14.47
	55-64 yrs	797	10.92
	65-74 yrs	354	4.85
	75-84 yrs	257	3.52
	85+ yrs	153	2.1
Unknown	1	0.01	

Table 2: Characteristics of confirmed COVID-19 cases notified in Ireland from 09/12/2020 up to midnight on 22/12/2020

Characteristic		Number of cases	Percent	Percent where known
Total number of cases		7,297	100	
Underlying clinical conditions	Yes	1,866	25.57	30.52
	No	4,248	58.22	69.48
	Unknown	1,183	16.21	
	Total cases where known	6,114		
Symptom status at time of test*	Yes	4,399	60.29	73.73
	No	1,567	21.47	26.27
	Unknown	1,331	18.24	
	Total cases where known	5,966		
Healthcare worker	Yes	708	9.7	11.66
	No	5,362	73.48	88.34
	Unknown	1,227	16.82	
	Total cases where known	6,070		

*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 09/12/2020 to midnight 22/12/2020

CHO Area	Number of confirmed cases	Incidence per 100,000 population
CHO1	902	230.5
CHO2	389	85.9
CHO3	529	137.4
CHO4	713	103.2
CHO5	938	183.8
CHO6	650	169.6
CHO7	845	119.4
CHO8	999	161.3
CHO9	1332	214.4
Unknown	0	
Total	7,297	153.2

Table 4: Number of confirmed COVID-19 cases by county notified in Ireland from 09/12/2020 to midnight 22/12/2020

County	Number of confirmed cases	Incidence per 100,000 population
Carlow	114	200.2
Cavan	146	191.7
Clare	49	41.2
Cork	472	86.9
Donegal	506	317.9
Dublin	2430	180.4
Galway	193	74.8
Kerry	241	163.2
Kildare	280	125.8
Kilkenny	238	239.8
Laois	165	194.8
Leitrim	11	34.3
Limerick	424	217.5
Longford	59	144.3
Louth	376	291.7
Mayo	161	123.4
Meath	295	151.2
Monaghan	158	257.4
Offaly	53	68.0
Roscommon	35	54.2
Sligo	81	123.6
Tipperary	106	66.4
Waterford	151	130.0
Westmeath	50	56.3
Wexford	386	257.8
Wicklow	117	82.1
Total	7,297	153.2

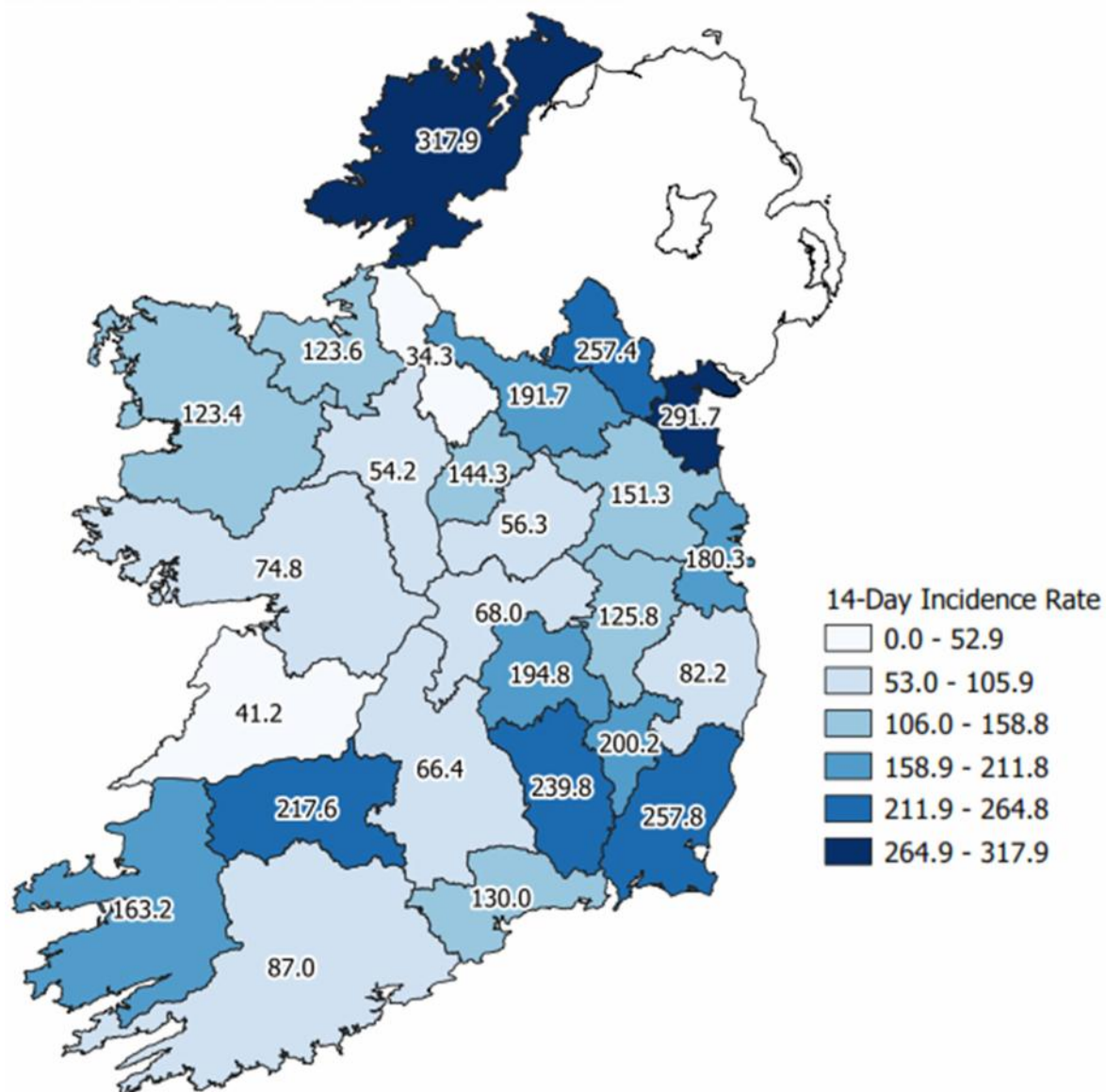


Figure 2: Cumulative incidence rates of confirmed COVID-19 cases per 100,000 population by county notified in Ireland between 09/12/2020 and 22/12/2020

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 09/12/2020 and 22/12/2020

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	147	108.0	136,074
CCA2	Dublin South East	390	315.3	123,704
CCA3	Dublin South City	160	106.7	149,935
CCA4	Dublin South West	149	92.6	160,898
CCA5	Dublin West	252	162.2	155,343
CCA6	Dublin North West	455	219.1	207,670
CCA7	Dublin North Central	465	300.8	154,583
CCA8	Dublin North	412	159.0	259,152
	Dublin	2430	180.4	1,347,359

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.

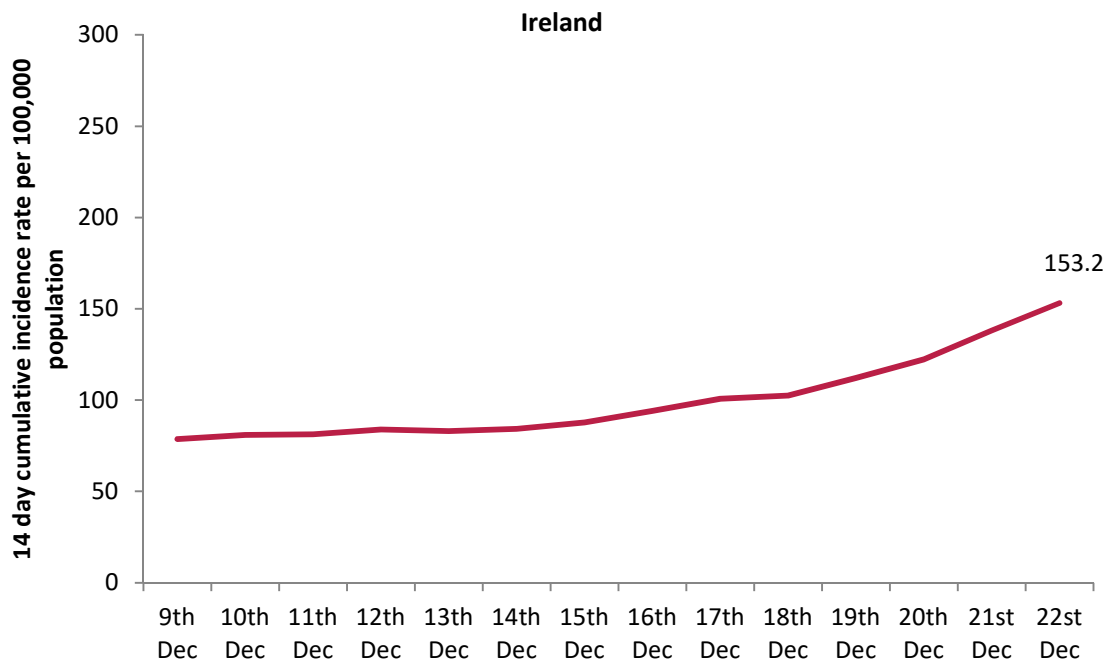


Figure 3: 14 day cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 in Ireland (09/12/2020 to 22/12/2020)

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 09/12/2020 to midnight 22/12/2020

Most likely transmission source	Number of cases	Percent
Travel related	125	1.71%
Close contact with a known confirmed case	3,418	46.84%
Healthcare setting acquired: patient	252	3.45%
Healthcare setting acquired: staff	323	4.43%
Community transmission	1,585	21.72%
Under investigation	1,594	21.84%
Total cases with known most likely transmission source	5,703	
Total	7,297	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 09/12/2020 to midnight 22/12/2020 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	283	2	0.6	0	0
5-12 yrs	588	2	0.6	0	0
13-18 yrs	513	10	3.02	0	0
19-24 yrs	820	19	5.74	0	0
25-34 yrs	1259	20	6.04	0	0
35-44 yrs	1216	28	8.46	0	0
45-54 yrs	1056	39	11.78	4	30.77
55-64 yrs	797	47	14.2	4	30.77
65-74 yrs	354	49	14.8	2	15.38
75-84 yrs	257	75	22.66	3	23.08
85+ yrs	153	40	12.08	0	0
Unknown	1			0	0
Total	7,297	331	100	13	100

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 09:20 on 23/12/2020. 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.

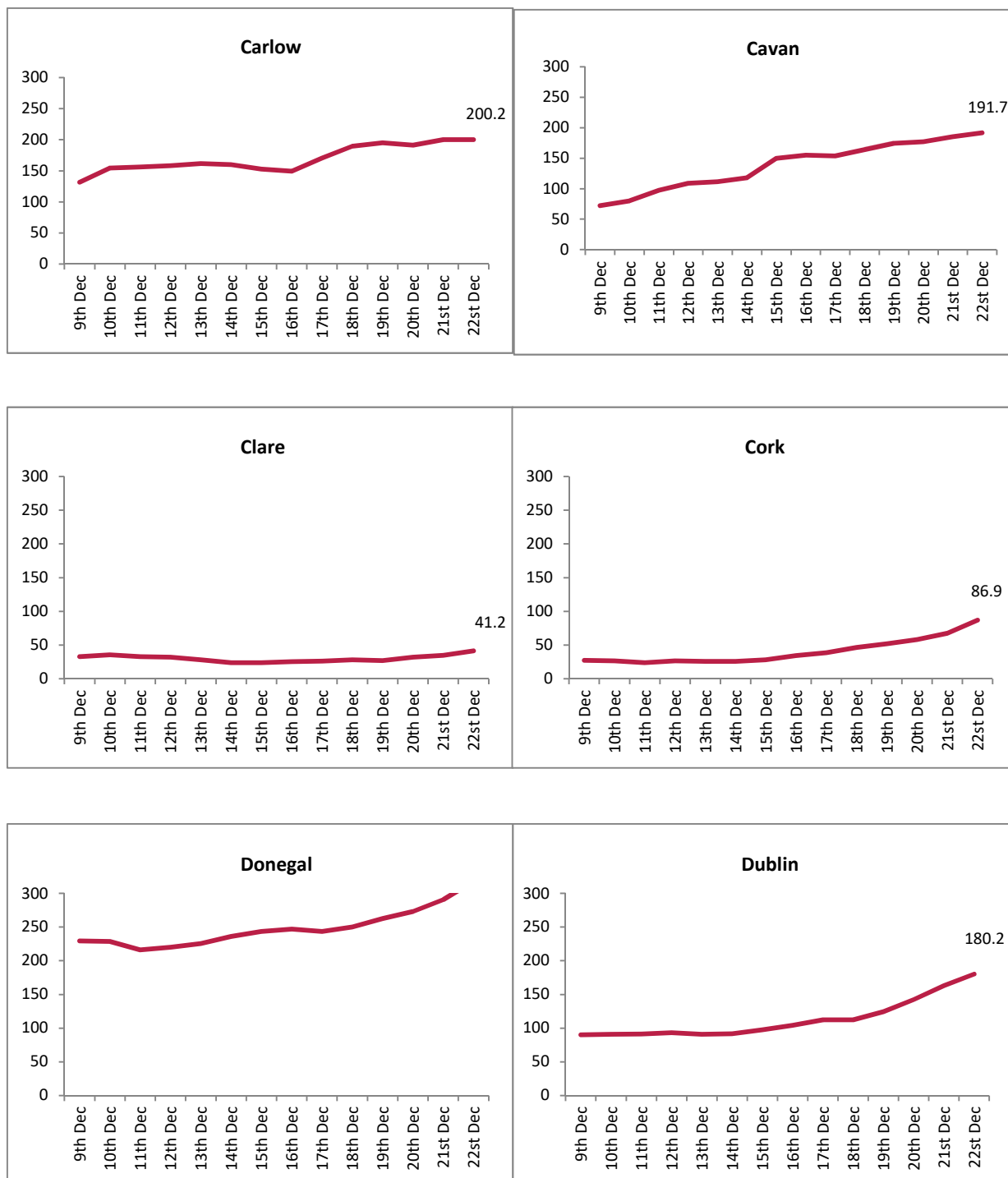
5. Outbreak location

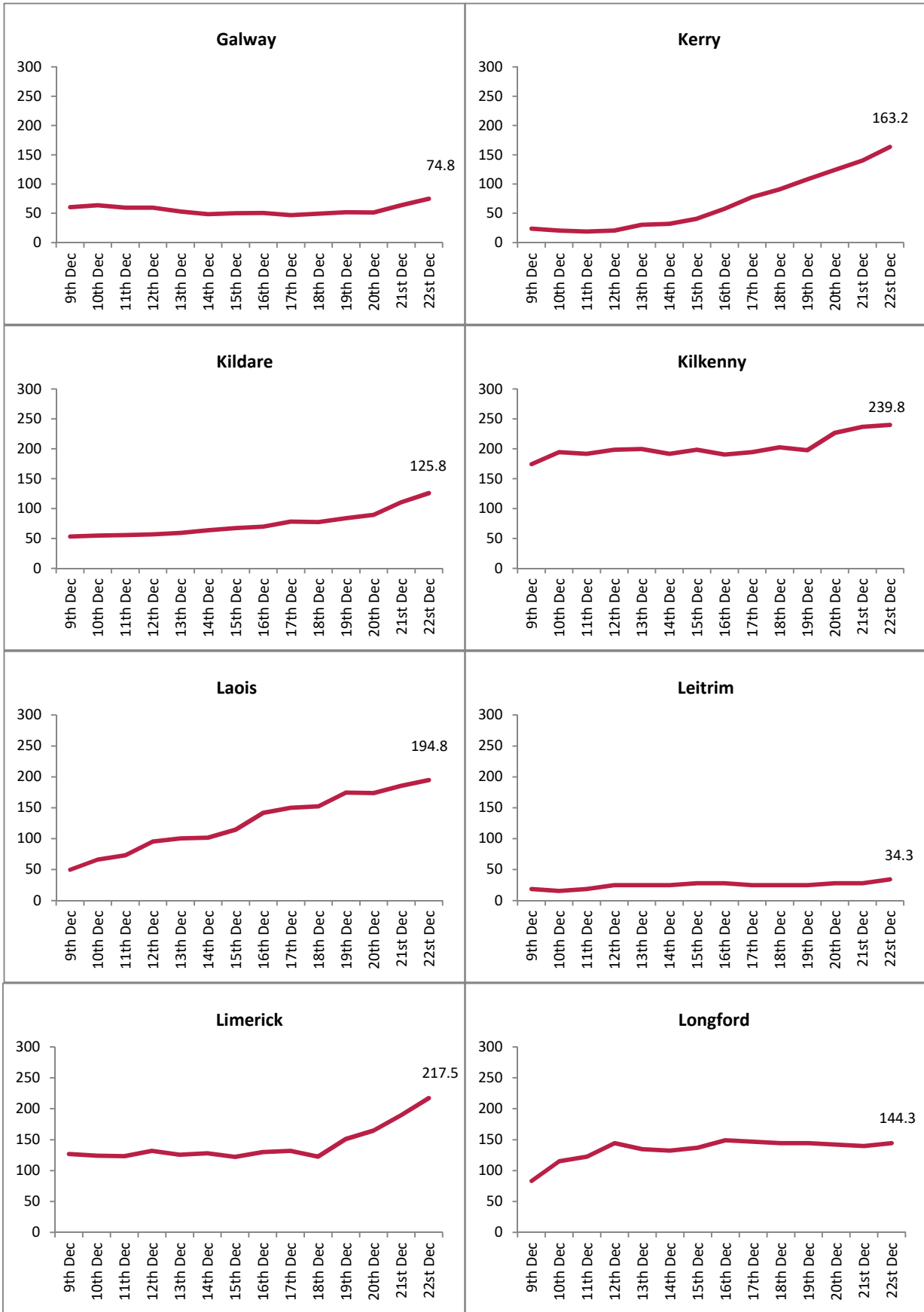
Where an outbreak location is reported as a residential facility (RF) this includes nursing homes, community hospitals, long-stay units and residential institutions including mental health facilities, prisons and direct provision centres.

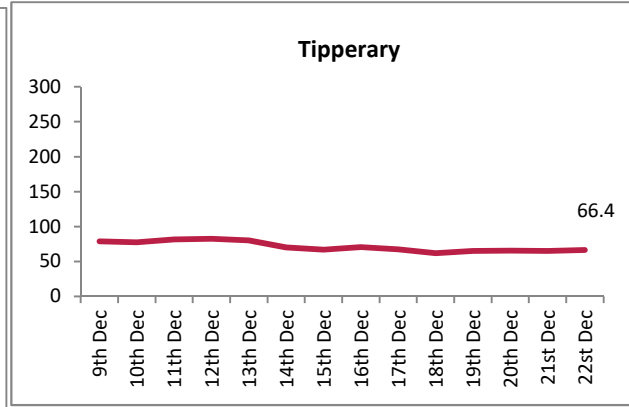
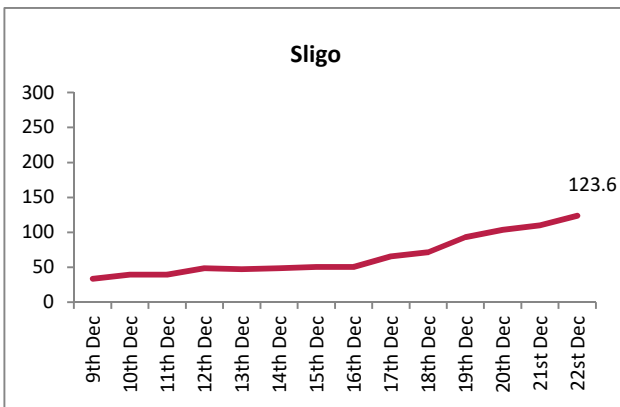
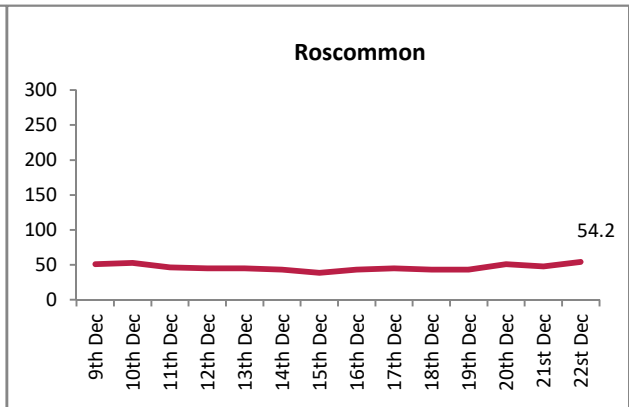
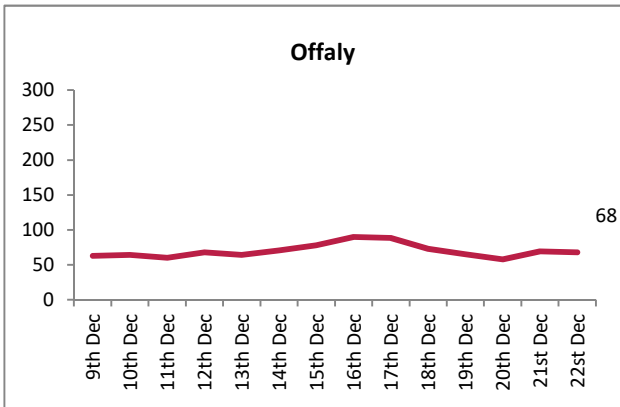
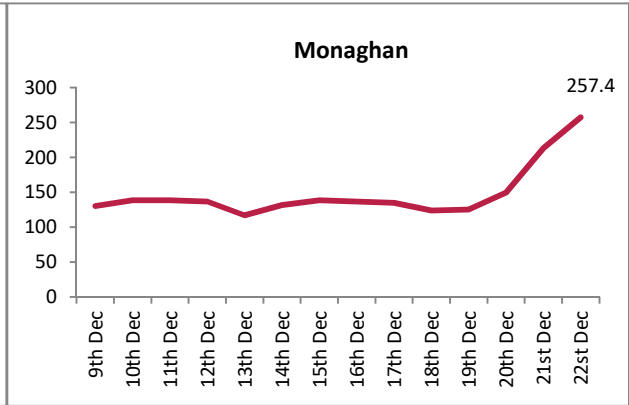
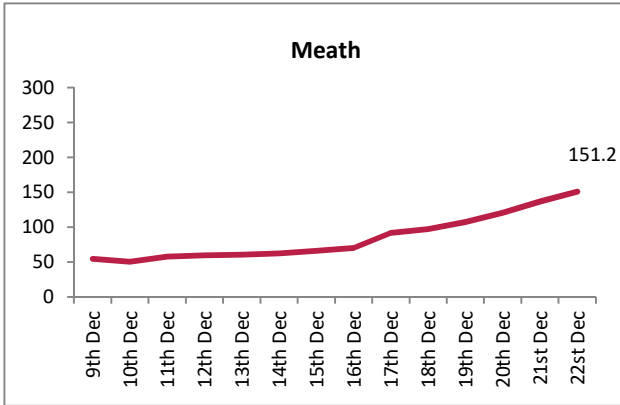
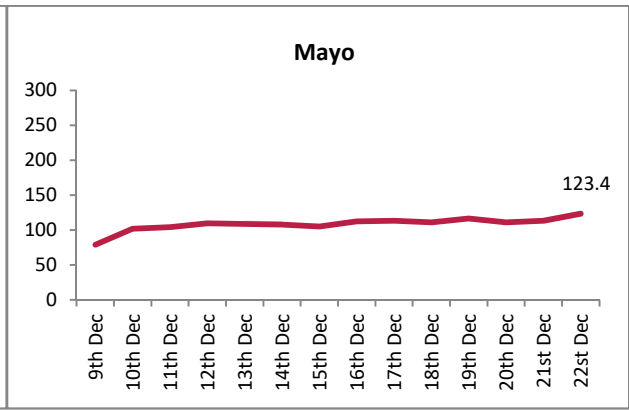
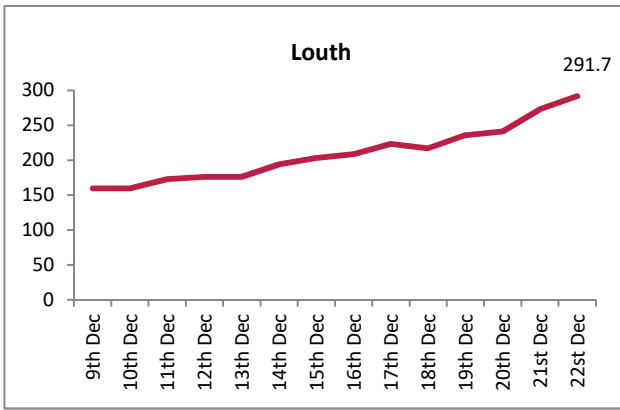
Other outbreak location includes community, extended family, hotel, public house, retail outlet, travel related and all other locations.

Appendix 1

Figure A. 14 day cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 by county (09/12/2020 to 22/12/2020)







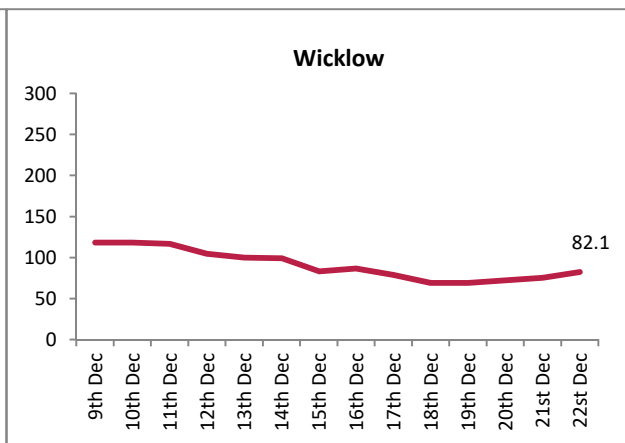
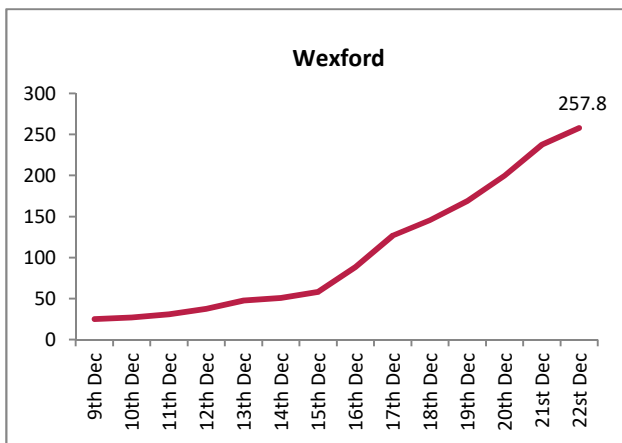
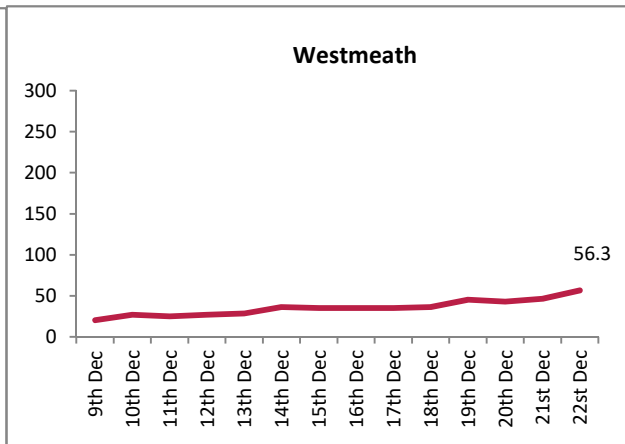
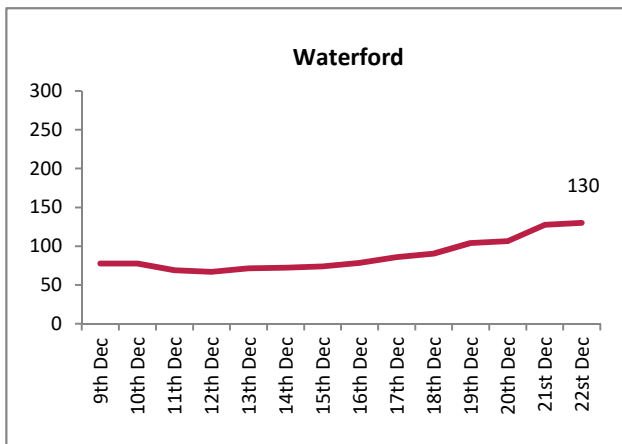


Figure B. 14 day cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 by Dublin CCA (09/12/2020 to 22/12/2020)

