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Epidemiology of COVID-19 in Ireland - 14 day report Report prepared by HPSC on 13/12/2020

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Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 13/12/2020

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 29/11/2020 up to midnight 12/12/2020

	Number	Percent
Total number of confirmed cases	4,012	
National incidence of confirmed cases per 100,000 population	84.25	
Number of cases hospitalised*	212	5.28
Number of cases admitted to ICU*	11	0.27
Number of deaths among confirmed cases	12	0.3
Case fatality ratio (CFR, %)	0.3	
National incidence of confirmed deaths per 100,000 population	0.25	
Number of cases** associated with clusters	1,465	36.52
Number of imported cases	17	0.42
Number of cases in healthcare workers	479	11.94
Males	1,923	47.93
Females	2,080	51.84
M:F ratio	0.92	
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
29/11/2020 - 12/12/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 09:31 on 13/12/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.

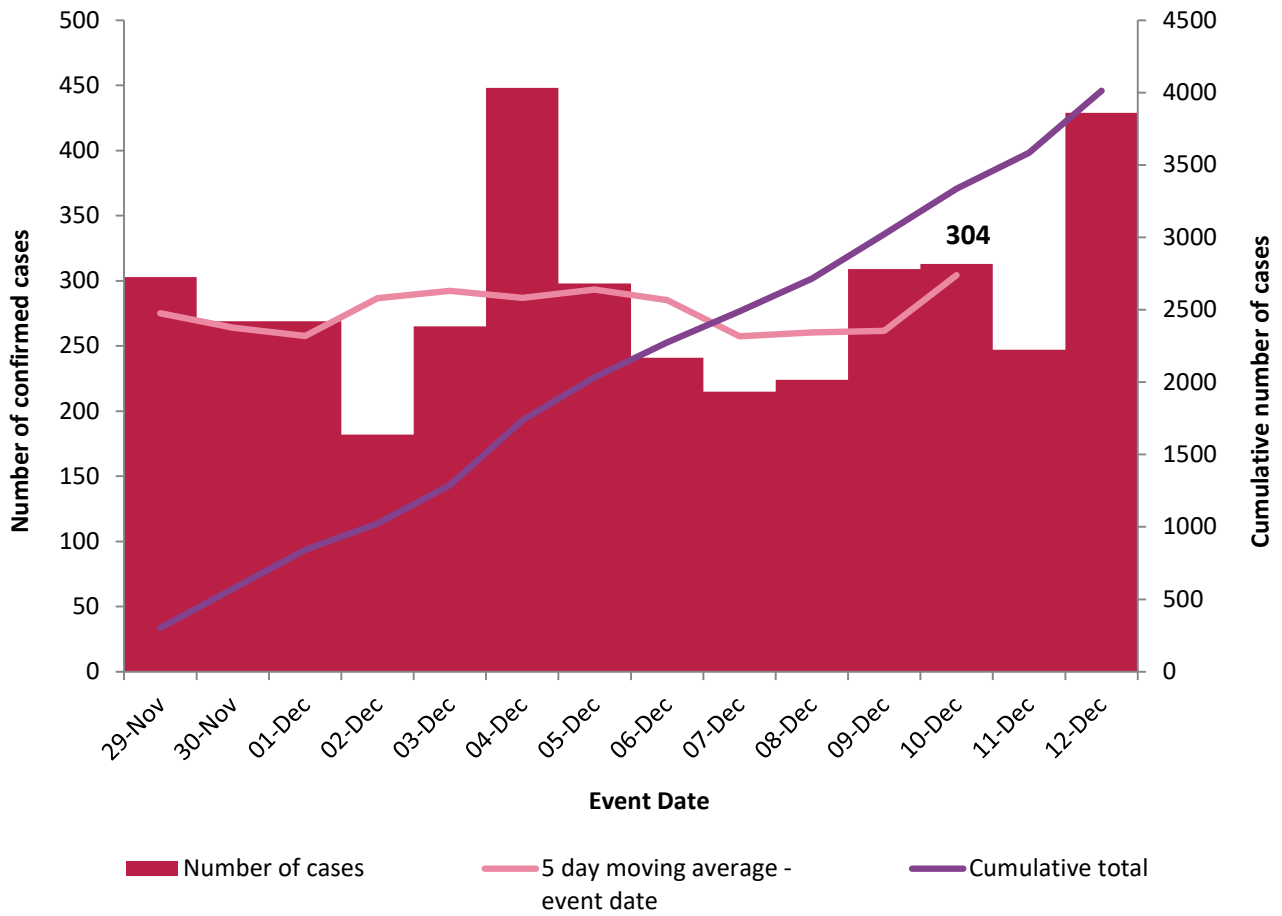


Figure 1. Daily number and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date (n=4,012)

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 29/11/2020 up to midnight on 12/12/202

Characteristic		Number of cases	Percent
Total number of confirmed cases		4,012	100
Sex	Male:Female ratio	0.92	
	Male	1,923	47.93
	Female	2,080	51.84
	Unknown	9	0.22
Age	Median age (years)	35	
	Mean age (years)	37	
	Age range (years)	0 - 102	
	0-4 yrs	177	4.41
	5-12 yrs	409	10.19
	13-18 yrs	314	7.83
	19-24 yrs	386	9.62
	25-34 yrs	659	16.43
	35-44 yrs	615	15.33
	45-54 yrs	587	14.63
	55-64 yrs	372	9.27
	65-74 yrs	207	5.16
	75-84 yrs	162	4.04
	85+ yrs	124	3.09
Underlying clinical conditions	Yes	1,216	30.31
	No	2,220	55.33
	Unknown	576	14.36
Symptom status at time of test*	Yes	2,388	59.52
	No	970	24.18
	Unknown	654	16.3

*Symptom status is recorded at the time of test and is not updated. A proportion of the asymptomatic cases may subsequently develop symptoms. 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 29/11/2020 to midnight 12/12/2020

CHO Area	Number of confirmed cases	Incidence per 100,000 population
CHO1	557	142.4
CHO2	324	71.5
CHO3	338	87.8
CHO4	172	24.9
CHO5	517	101.3
CHO6	438	114.3
CHO7	462	65.3
CHO8	560	90.4
CHO9	644	103.6
Unknown	0	
Total	4,012	84.3

Table 3: Number of confirmed COVID-19 cases by county notified in Ireland from 29/11/2020 to midnight 12/12/2020

County	Number of confirmed cases	Incidence per 100,000 population
Donegal	350	219.9
Kilkenny	197	198.5
Louth	225	174.6
Carlow	91	159.8
Longford	59	144.3
Monaghan	84	136.8
Limerick	261	133.9
Cavan	83	109.0
Mayo	140	107.3
Wicklow	148	103.9
Laois	80	94.5
Dublin	1270	94.3
Tipperary	130	81.5
Waterford	84	72.3
Offaly	53	68.0
Meath	118	60.5
Galway	155	60.1
Kildare	126	56.6
Sligo	32	48.8
Roscommon	29	44.9
Wexford	55	36.7
Clare	38	32.0
Westmeath	24	27.0
Cork	142	26.2
Leitrim	8	25.0
Kerry	30	20.3
Total	4,012	84.3

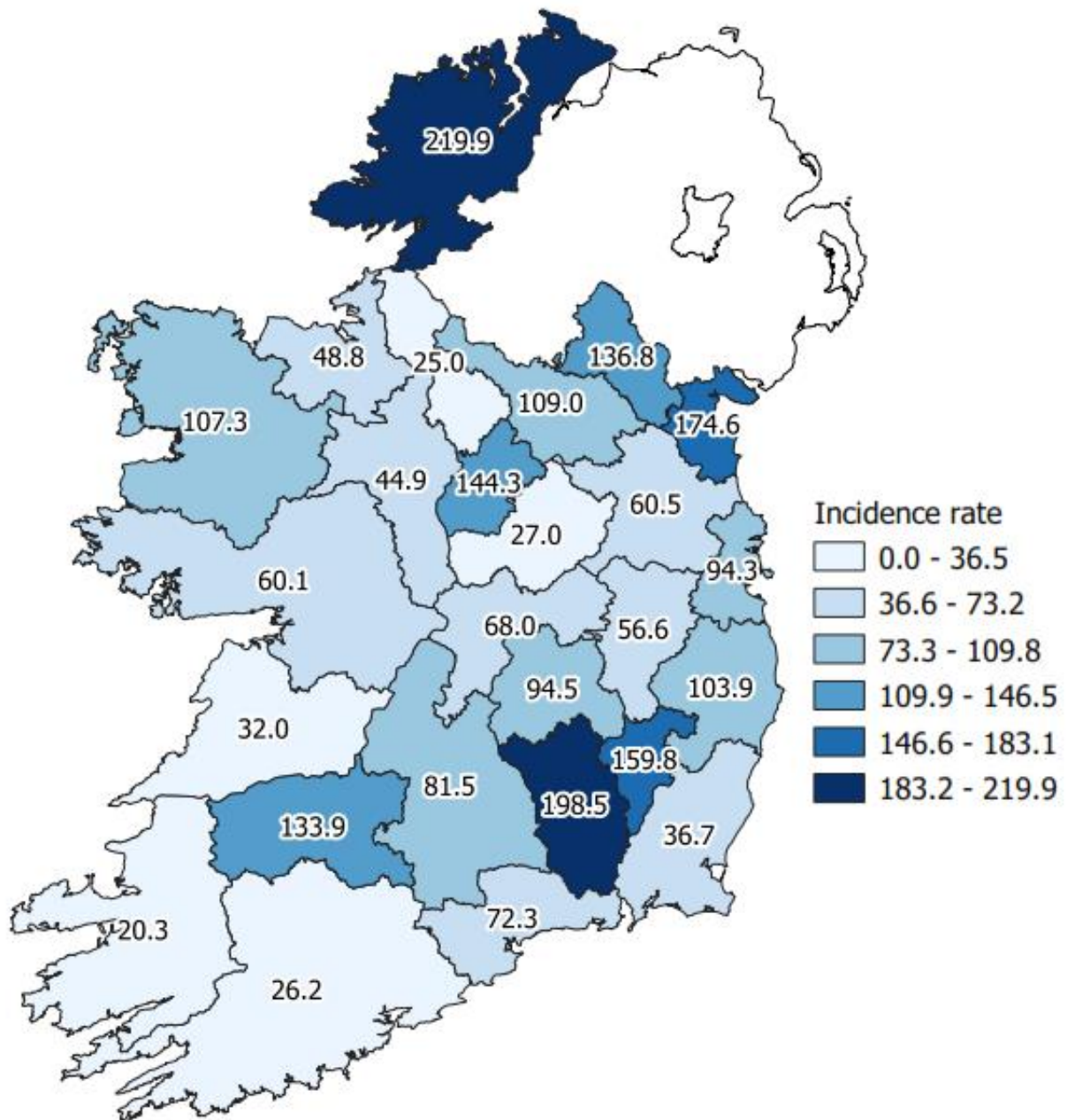


Figure 2: Cumulative incidence rates of confirmed COVID-19 cases per 100,000 population by county notified in Ireland between 29/11/2020 and 12/12/2020

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 29/11/2020 and 12/12/2020

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	96	70.5
CCA2	Dublin South East	196	158.4
CCA3	Dublin South City	97	64.7
CCA4	Dublin South West	105	65.3
CCA5	Dublin West	132	85.0
CCA6	Dublin North West	200	96.3
CCA7	Dublin North Central	212	137.1
CCA8	Dublin North	232	89.5
	Dublin	1,270	94.3

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.

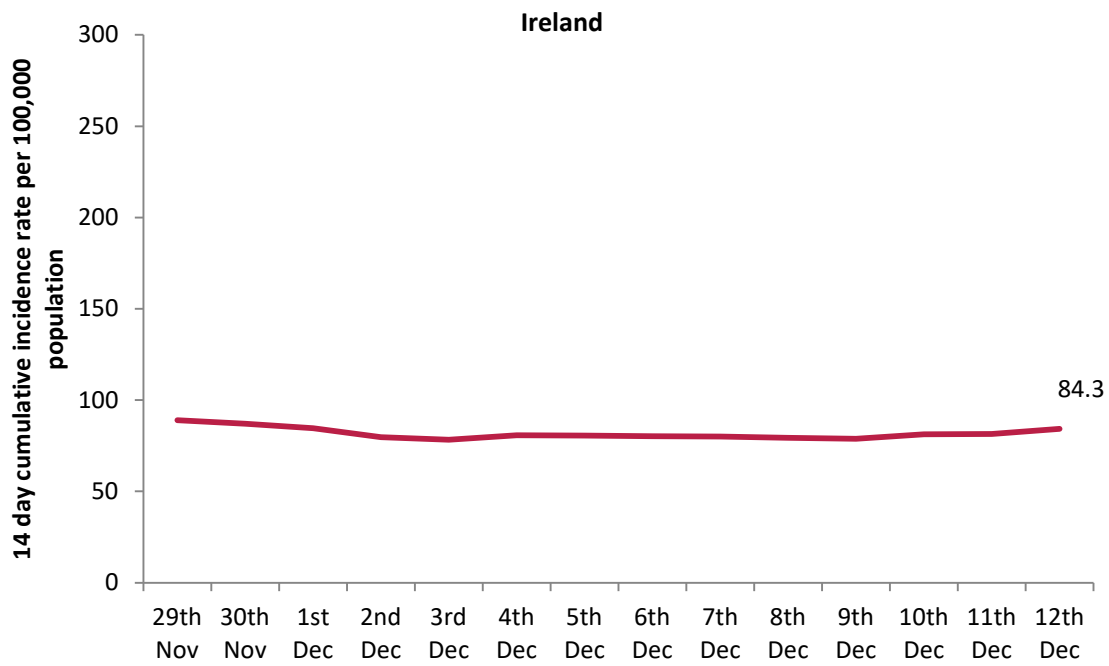


Figure 3: 14 day cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 in Ireland (29/11/2020 to 12/12/2020)

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 29/11/2020 to midnight 12/12/2020

Most likely transmission source	Number of cases	Percent
Travel related *	89	2.22%
Close contact with a known confirmed case	1,963	48.93%
Healthcare setting acquired: patient	255	6.36%
Healthcare setting acquired: staff	237	5.91%
Community transmission	776	19.34%
Under investigation	692	17.25%
Total	4,012	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 29/11/2020 to midnight 12/12/2020 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	177	3	1.42	0	0
5-12 yrs	409	2	0.94	0	0
13-18 yrs	314	6	2.83	0	0
19-24 yrs	386	4	1.89	0	0
25-34 yrs	659	19	8.96	1	9.09
35-44 yrs	615	8	3.77	2	18.18
45-54 yrs	587	20	9.43	2	18.18
55-64 yrs	372	29	13.68	1	9.09
65-74 yrs	207	48	22.64	1	9.09
75-84 yrs	162	43	20.28	4	36.36
85+ yrs	124	30	14.15	0	0
Total	4,012	212	100	11	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

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 09:31 on 13/12/2020. 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.

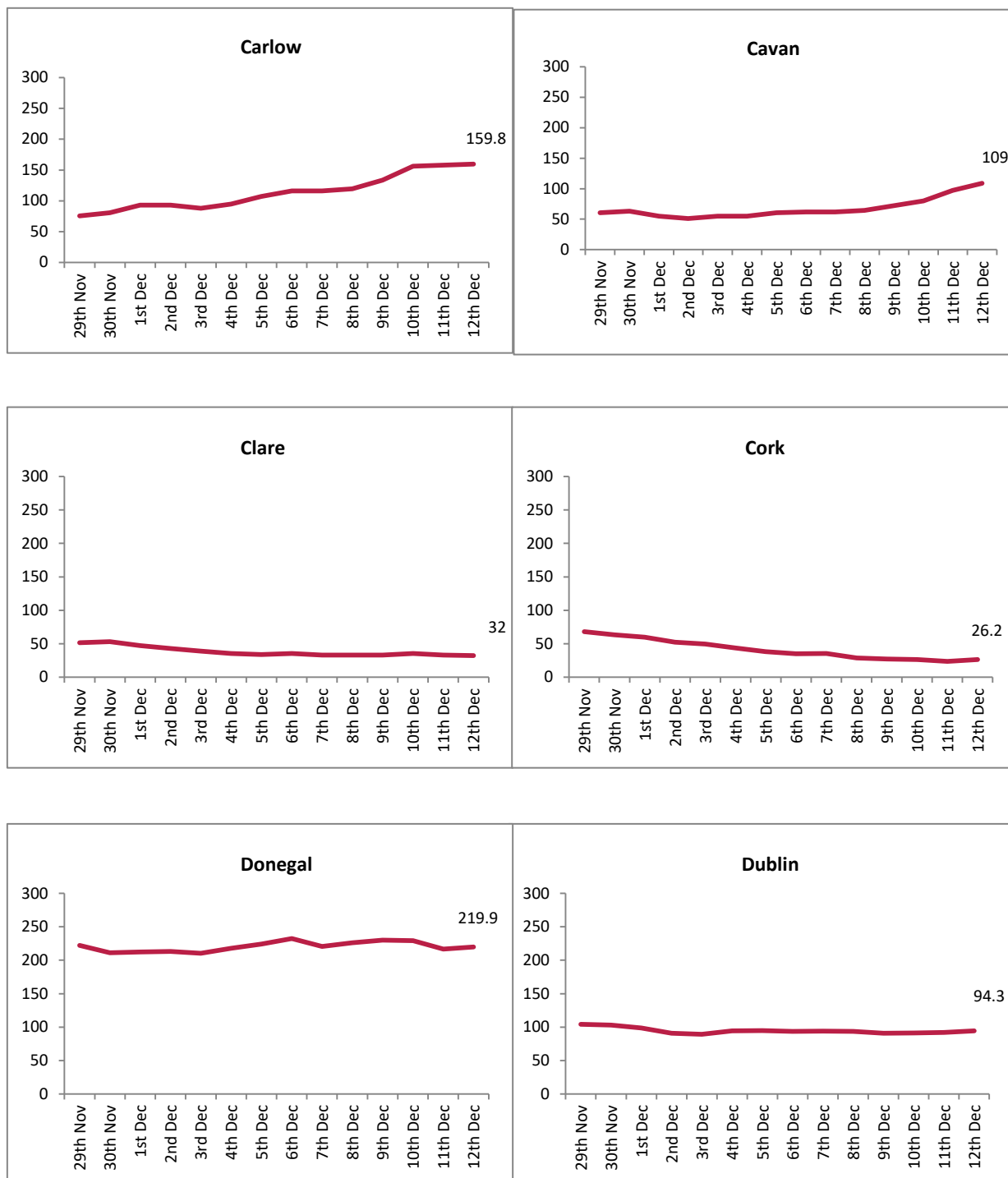
5. Outbreak location

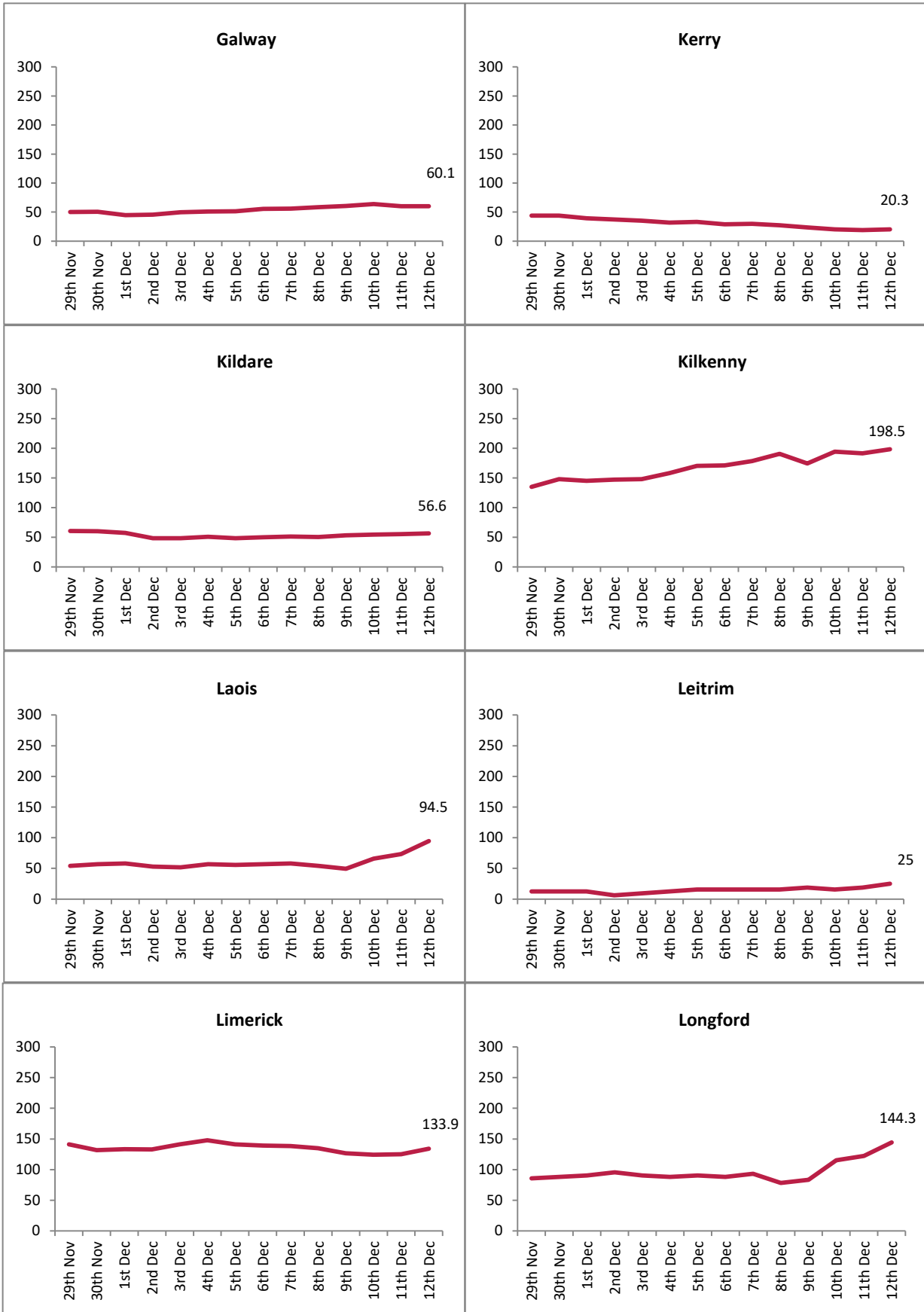
Where an outbreak location is reported as a residential facility (RF) this includes nursing homes, community hospitals, long-stay units and residential institutions including mental health facilities, prisons and direct provision centres.

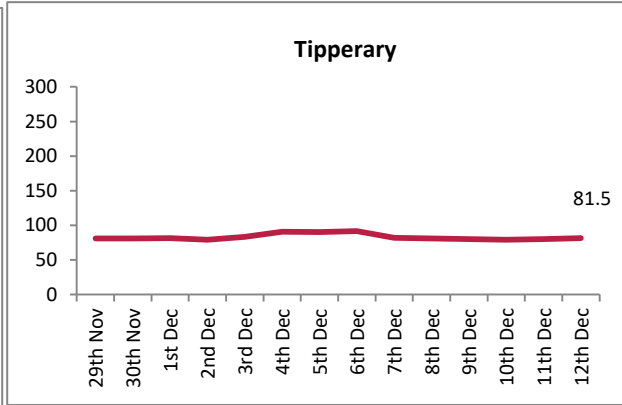
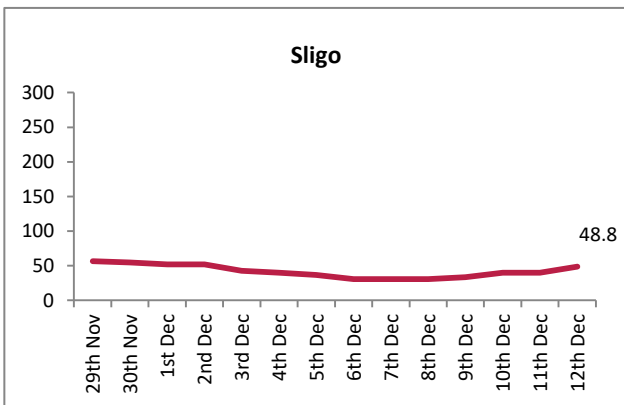
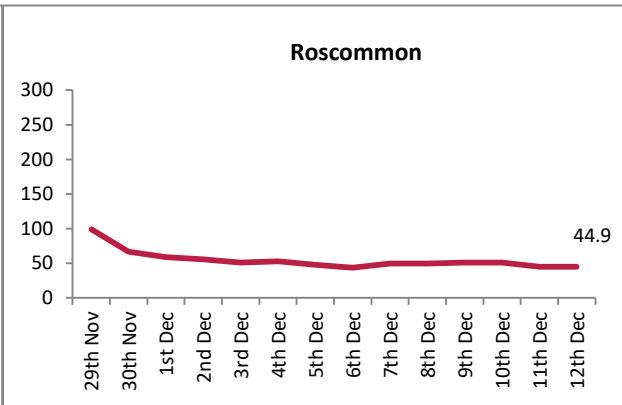
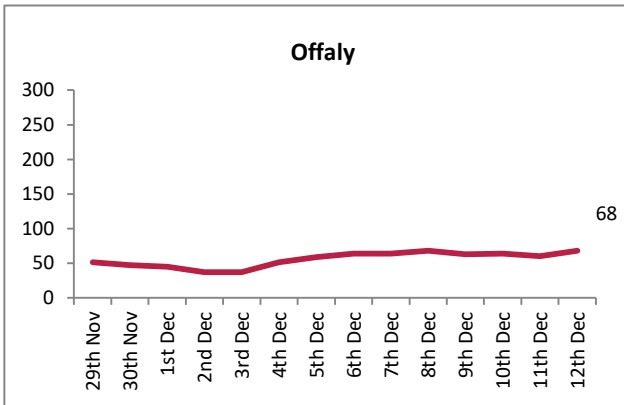
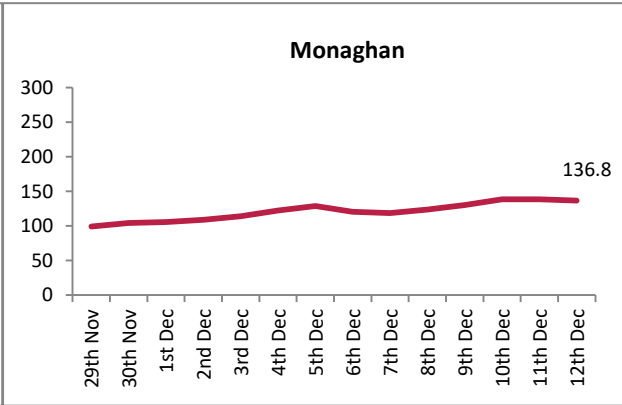
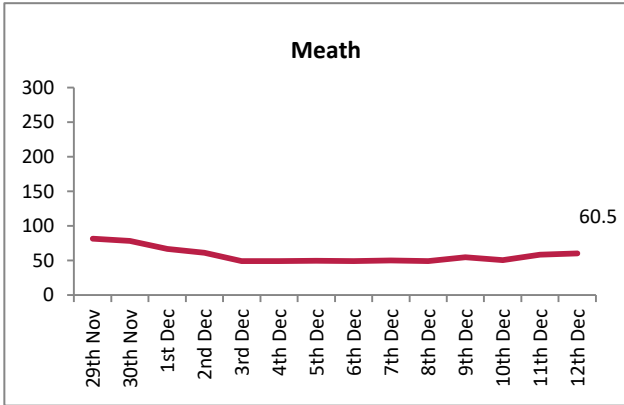
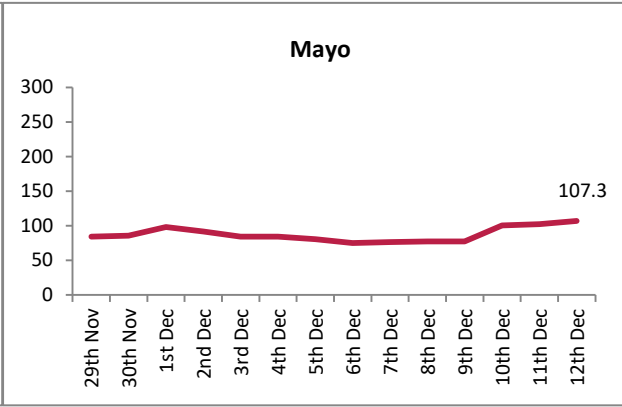
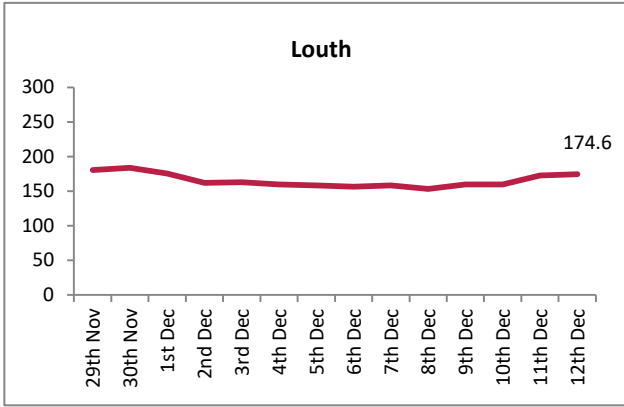
Other outbreak location includes community, extended family, hotel, public house, retail outlet, travel related and all other locations.

Appendix 1

Figure A. 14 day cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 by county (29/11/2020 to 12/12/2020)







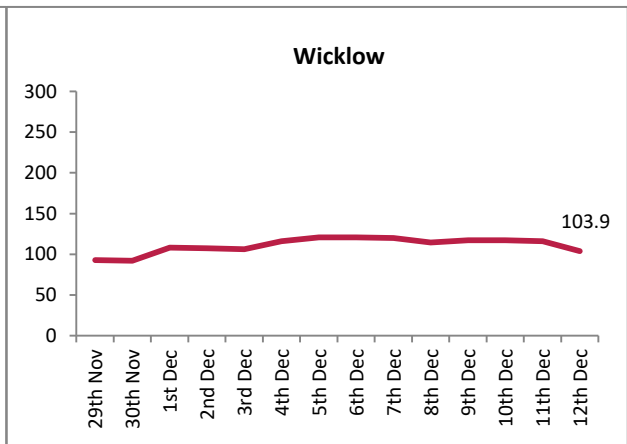
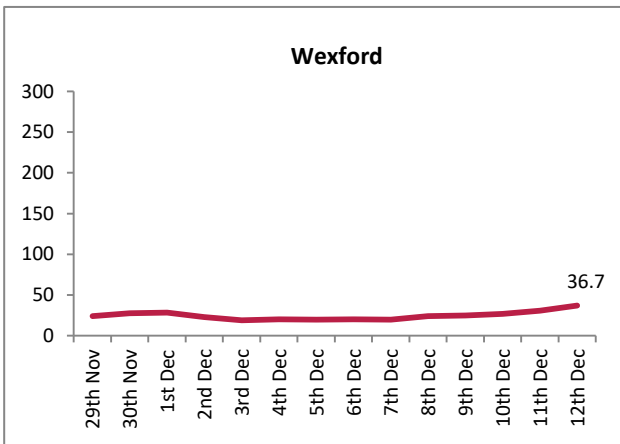
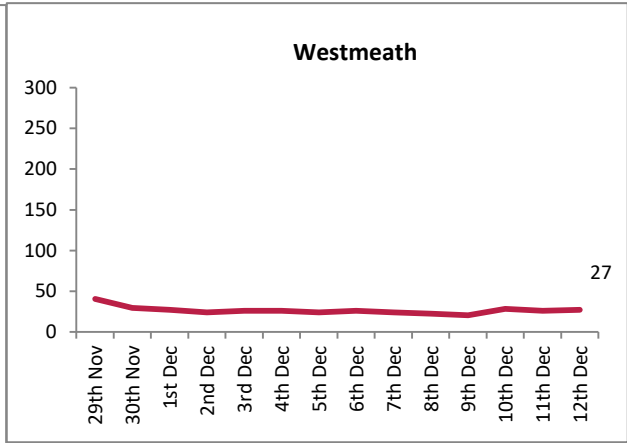
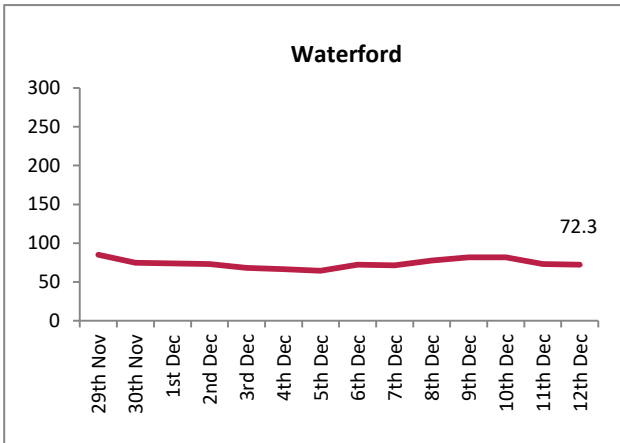


Figure B. 14 day cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 by Dublin CCA (29/11/2020 to 12/12/2020)

