Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 04/12/2020

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 20/11/2020 up to midnight 03/12/2020

	Number	Percent
Total number of confirmed cases	3,727	
National incidence of confirmed cases per 100,000 population	78.27	
Number of cases hospitalised*	215	5.77
Number of cases admitted to ICU*	7	0.19
Number of deaths among confirmed cases	16	0.43
Case fatality ratio (CFR, %)	0.43	
National incidence of confirmed deaths per 100,000 population	0.34	
Number of cases** associated with clusters	1,345	36.09
Number of imported cases	5	0.13
Number of cases in healthcare workers	410	11
Males	1,845	49.5
Females	1,869	50.15
M:F ratio	0.99	
Median age (years)	34	
Mean age (years)	37	
Age range (years)	0 - 101	

* 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 20/11/2020 - 03/12/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 09:31 on 04/12/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.
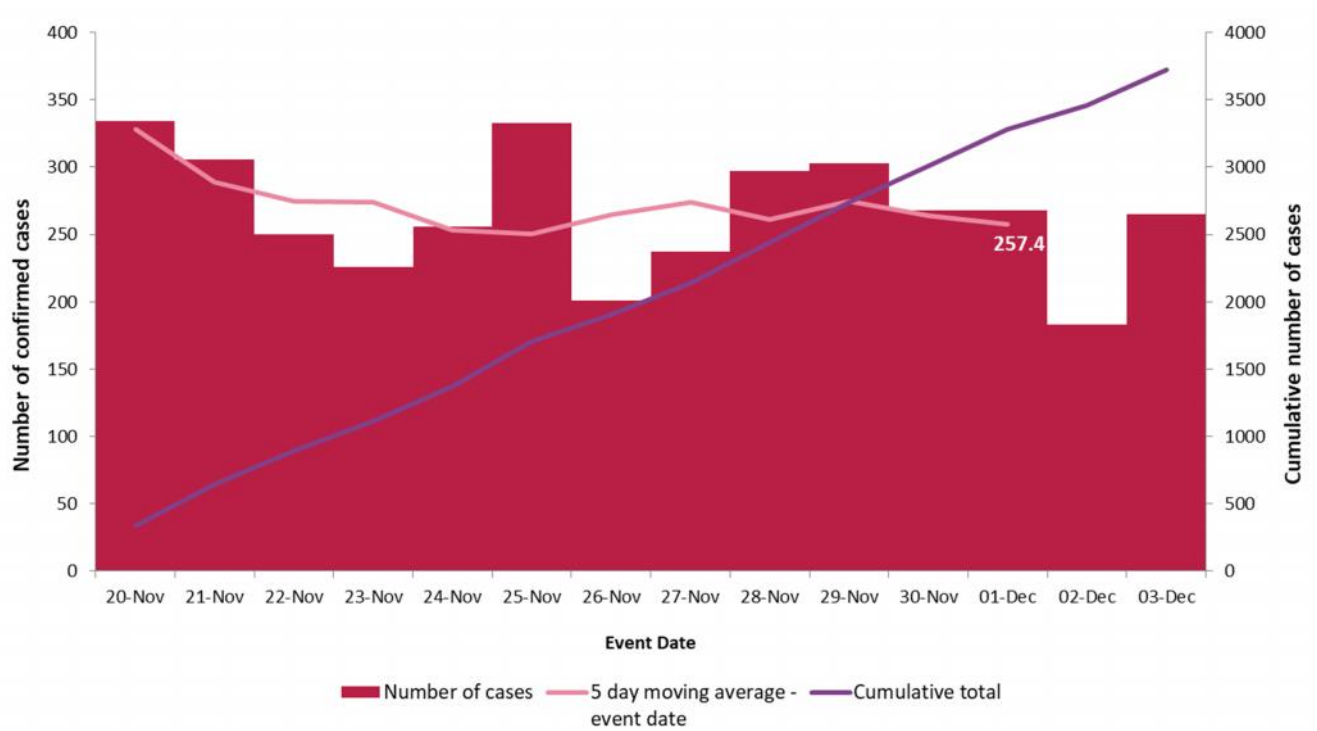
Figure 1. Daily number and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date (n=3,727)

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 20/11/2020 up to midnight on 03/12/202

Characteristic		Number of cases	Percent
Total number of confirmed cases		**3,727**	**100**
Sex	Male:Female ratio	0.99	
	Male	1,845	49.5
	Female	1,869	50.15
	Unknown	13	0.35
Age	Median age (years)	34	
	Mean age (years)	37	
	Age range (years)	0 - 101	
	0-4 yrs	155	4.16
	5-12 yrs	349	9.36
	13-18 yrs	351	9.42
	19-24 yrs	477	12.8
	25-34 yrs	550	14.76
	35-44 yrs	574	15.4
	45-54 yrs	504	13.52
	55-64 yrs	314	8.43
	65-74 yrs	183	4.91
	75-84 yrs	169	4.53
	85+ yrs	99	2.66
	Unknown	2	0.05
Underlying clinical conditions	Yes	1,029	27.61
	No	2,150	57.69
	Unknown	548	14.7
Symptom status at time of test*	Yes	2,157	57.87
	No	948	25.44
	Unknown	622	16.69

*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 20/11/2020 to midnight 03/12/2020

CHO Area	Number of confirmed cases	Incidence per 100,000 population
CHO1	477	121.9
CHO2	268	59.1
CHO3	357	92.7
CHO4	320	46.3
CHO5	403	79.0
CHO6	415	108.3
CHO7	453	64.0
CHO8	438	70.7
CHO9	596	95.9
Unknown	0	
Total	**3,727**	**79.7**

Table 3: Number of confirmed COVID-19 cases by county notified in Ireland from 20/11/2020 to midnight 03/12/2020

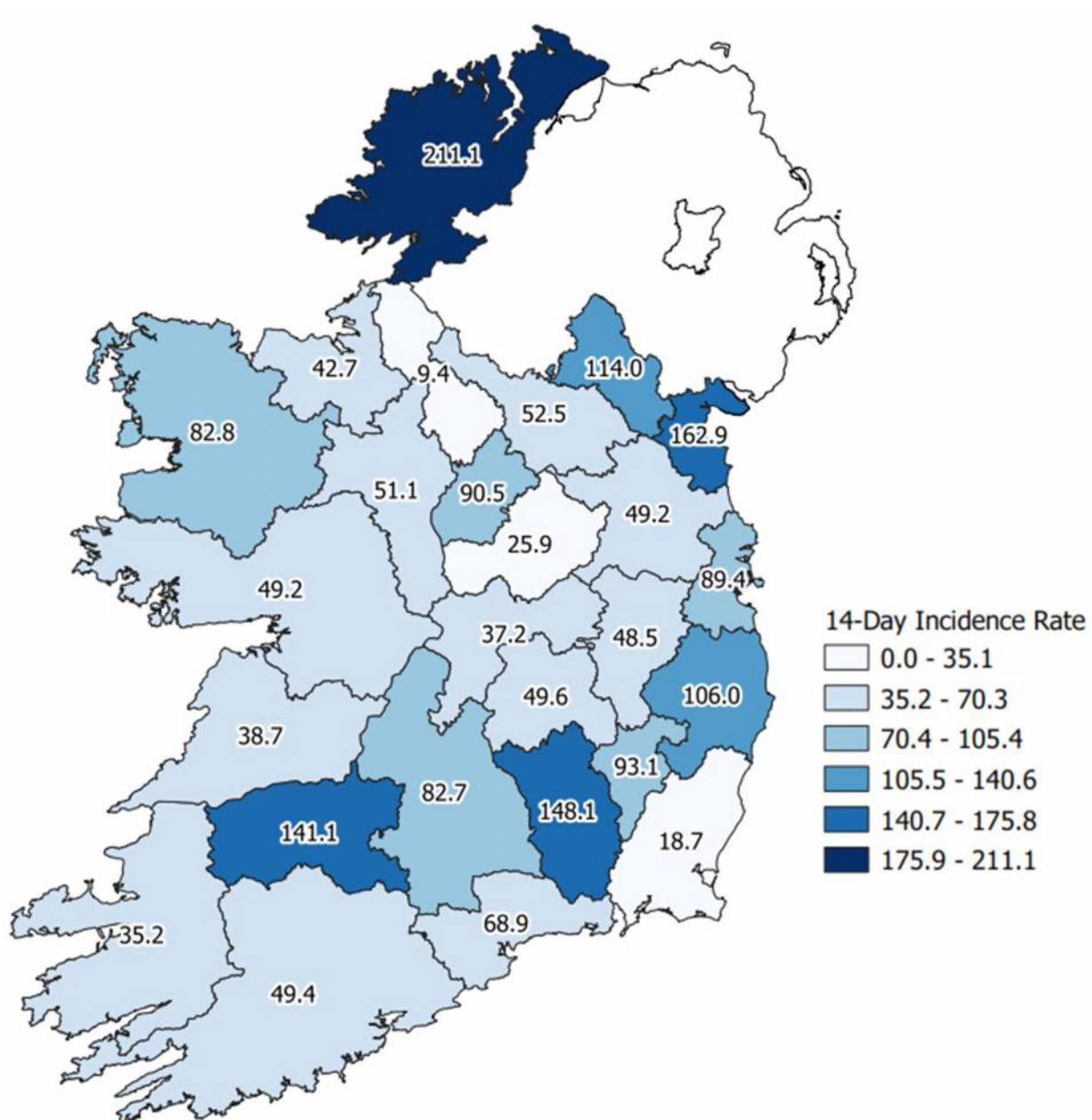| County	Number of confirmed cases	Incidence per 100,000 population
Carlow	53	93.1
Cavan	40	52.5
Clare	46	38.7
Cork	268	49.4
Donegal	336	211.1
Dublin	1205	89.4
Galway	127	49.2
Kerry	52	35.2
Kildare	108	48.5
Kilkenny	147	148.1
Laois	42	49.6
Leitrim	3	9.4
Limerick	275	141.1
Longford	37	90.5
Louth	210	162.9
Mayo	108	82.8
Meath	96	49.2
Monaghan	70	114.0
Offaly	29	37.2
Roscommon	33	51.1
Sligo	28	42.7
Tipperary	132	82.7
Waterford	80	68.9
Westmeath	23	25.9
Wexford	28	18.7
Wicklow	151	106.0
Total	**3,727**	**78.3**

Figure 2: Cumulative incidence rates of confirmed COVID-19 cases per 100,000 population by county notified in Ireland between 20/11/2020 and 03/12/2020

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 20/11/2020 and 03/12/2020

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	99	72.8	136,074
CCA2	Dublin South East	167	135.0	123,704
CCA3	Dublin South City	94	62.7	149,935
CCA4	Dublin South West	126	78.3	160,898
CCA5	Dublin West	123	79.2	155,343
CCA6	Dublin North West	197	94.9	207,670
CCA7	Dublin North Central	220	142.3	154,583
CCA8	Dublin North	179	69.1	259,152
	Dublin	**1205**	**89.4**	**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.
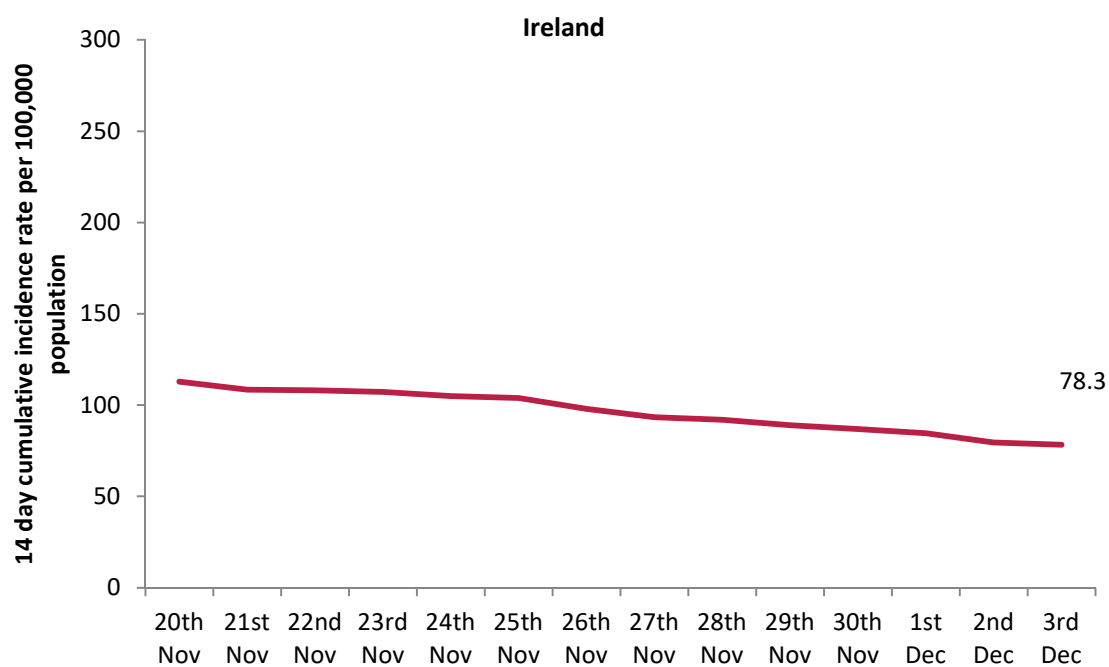
Ireland

78.3

Figure 3: 14 day cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 in Ireland (20/11/2020 to 03/12/2020)

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: Cumulative number of confirmed cases of COVID-19 notified in Ireland from 20/11/2020 to midnight 03/12/2020 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	155	1	0.47	0	0
5-12 yrs	349	1	0.47	0	0
13-18 yrs	351	1	0.47	0	0
19-24 yrs	477	3	1.4	0	0
25-34 yrs	550	17	7.91	0	0
35-44 yrs	574	15	6.98	0	0
45-54 yrs	504	21	9.77	0	0
55-64 yrs	314	25	11.63	5	71.43
65-74 yrs	183	34	15.81	0	0
75-84 yrs	169	61	28.37	2	28.57
85+ yrs	99	36	16.74	0	0
Unknown	2			0	0
Total	**3,727**	**215**	**100**	**7**	**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

1. Data Source

Data are based on statutory notifications and were extracted from Computerised Infectious Disease Reporting (CIDR) system at 09:31 on 04/12/2020. 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;
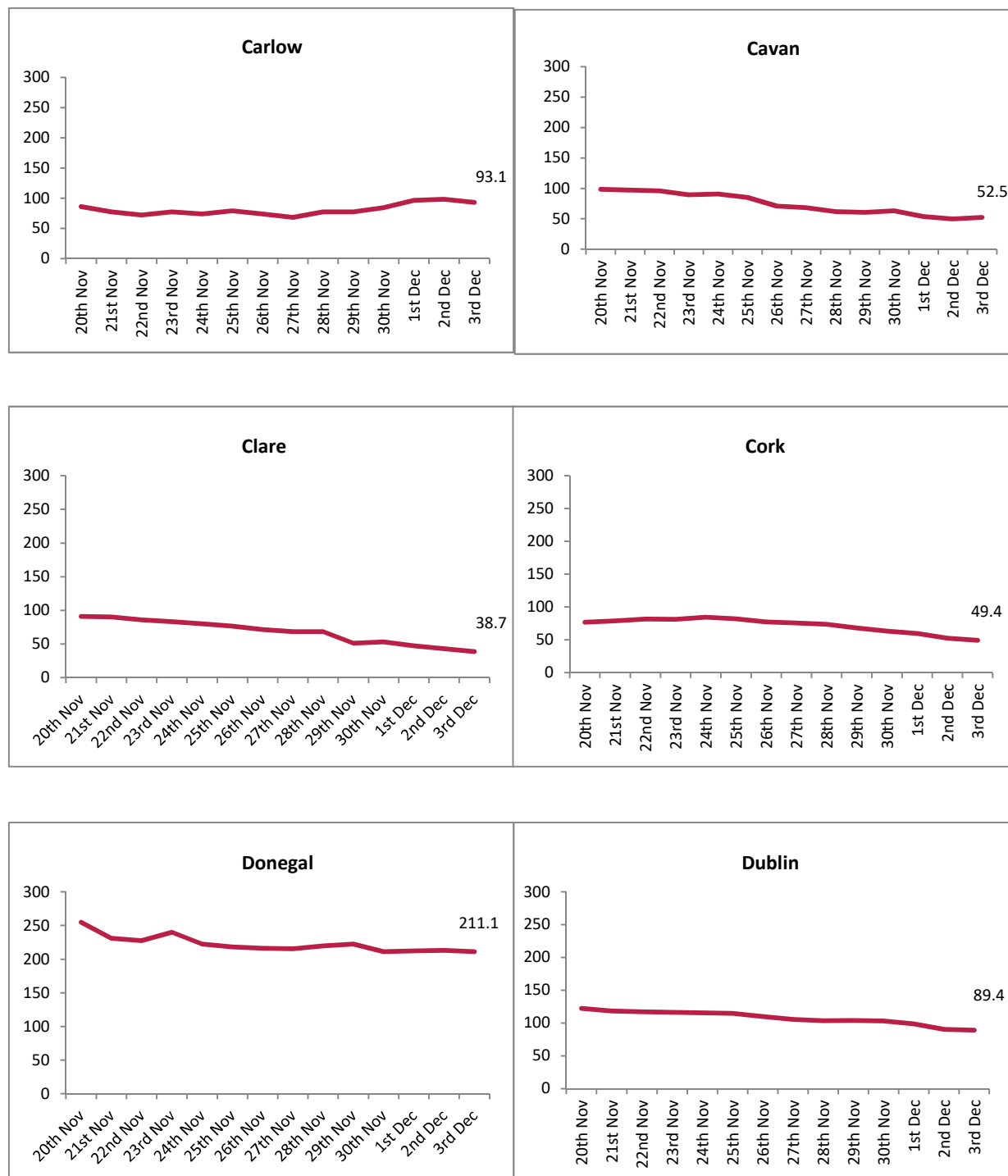 HSE West (W): Galway, Mayo & Roscommon.
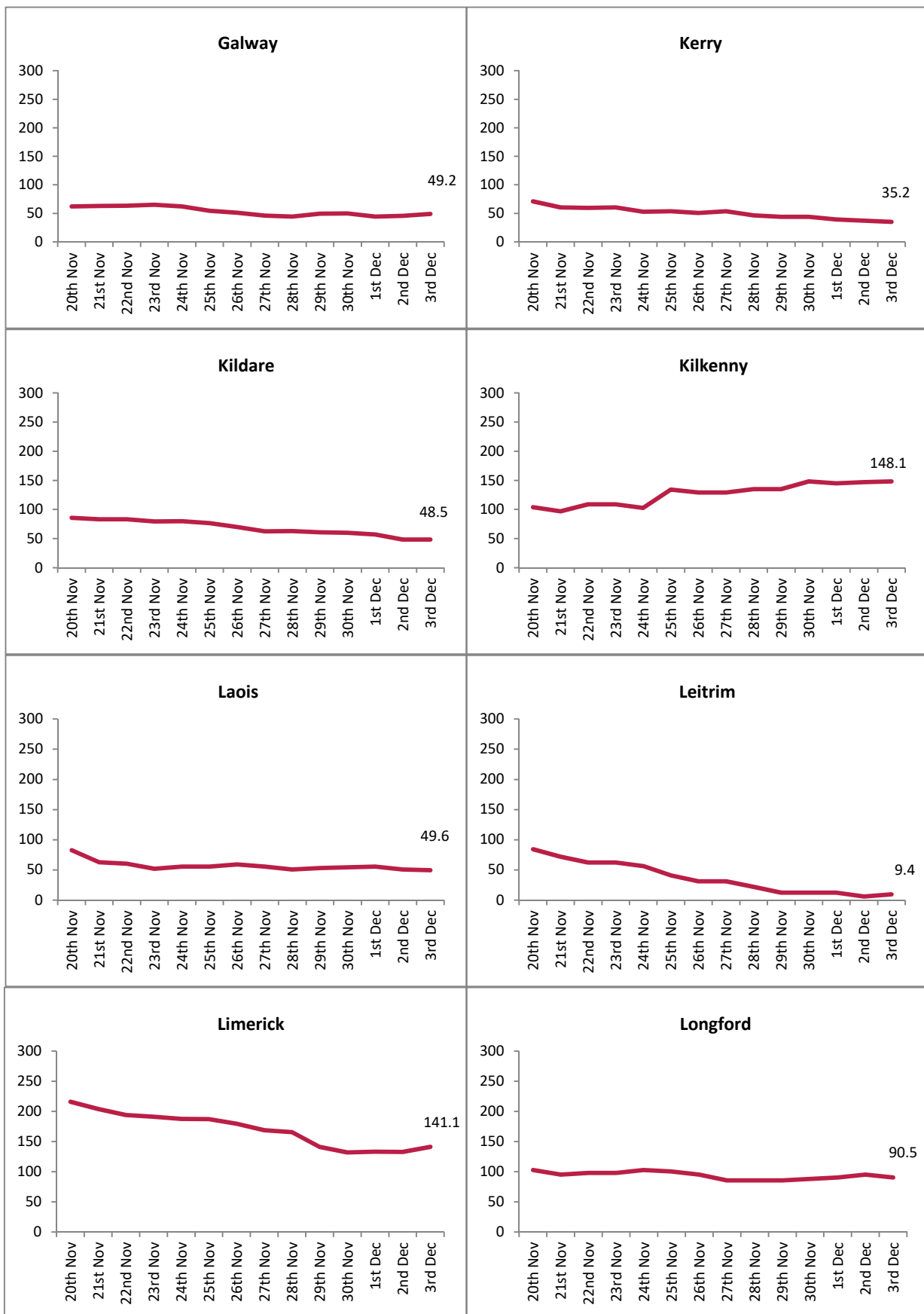
5. Outbreak location

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 (20/11/2020 to 03/12/2020)
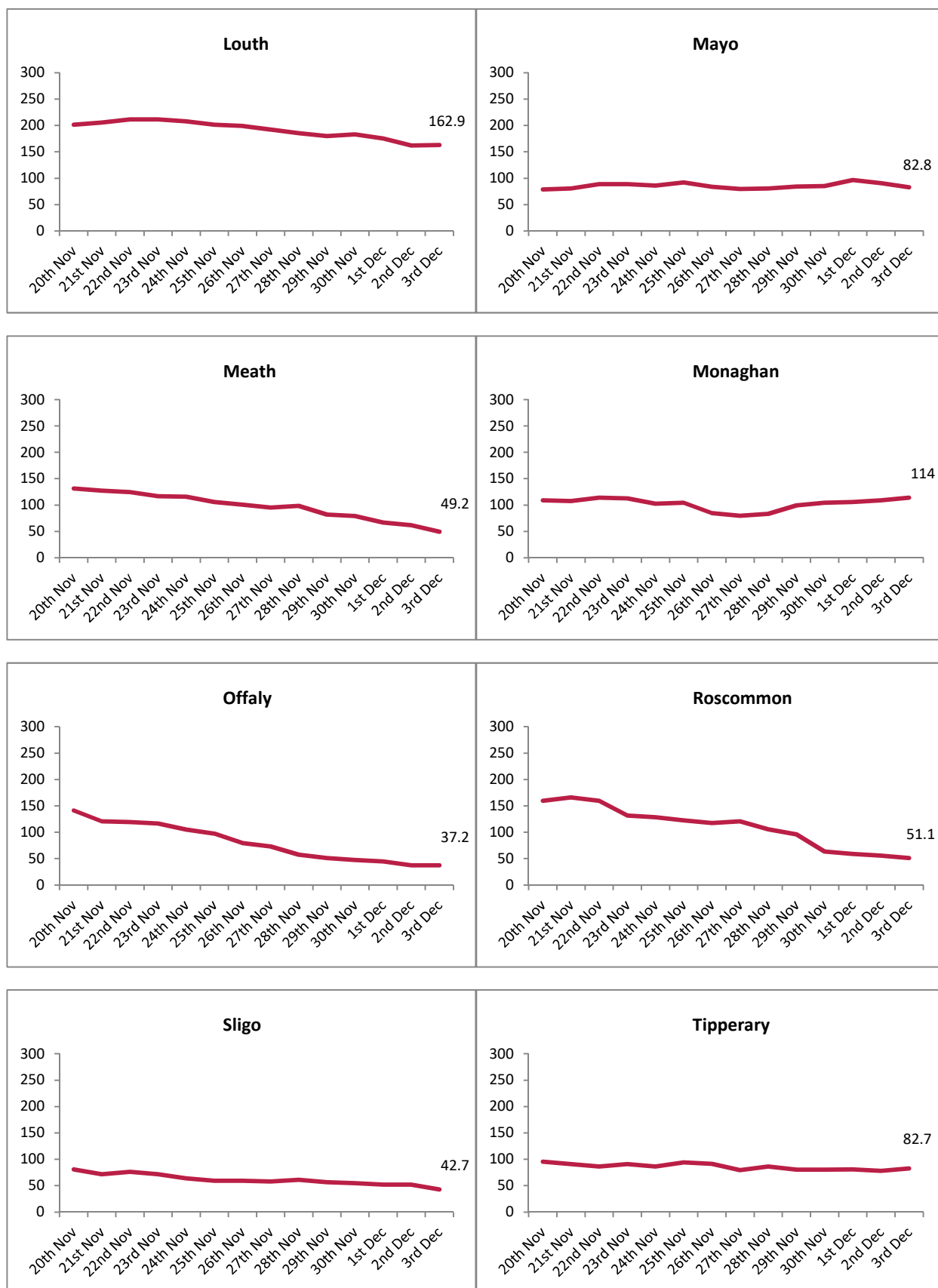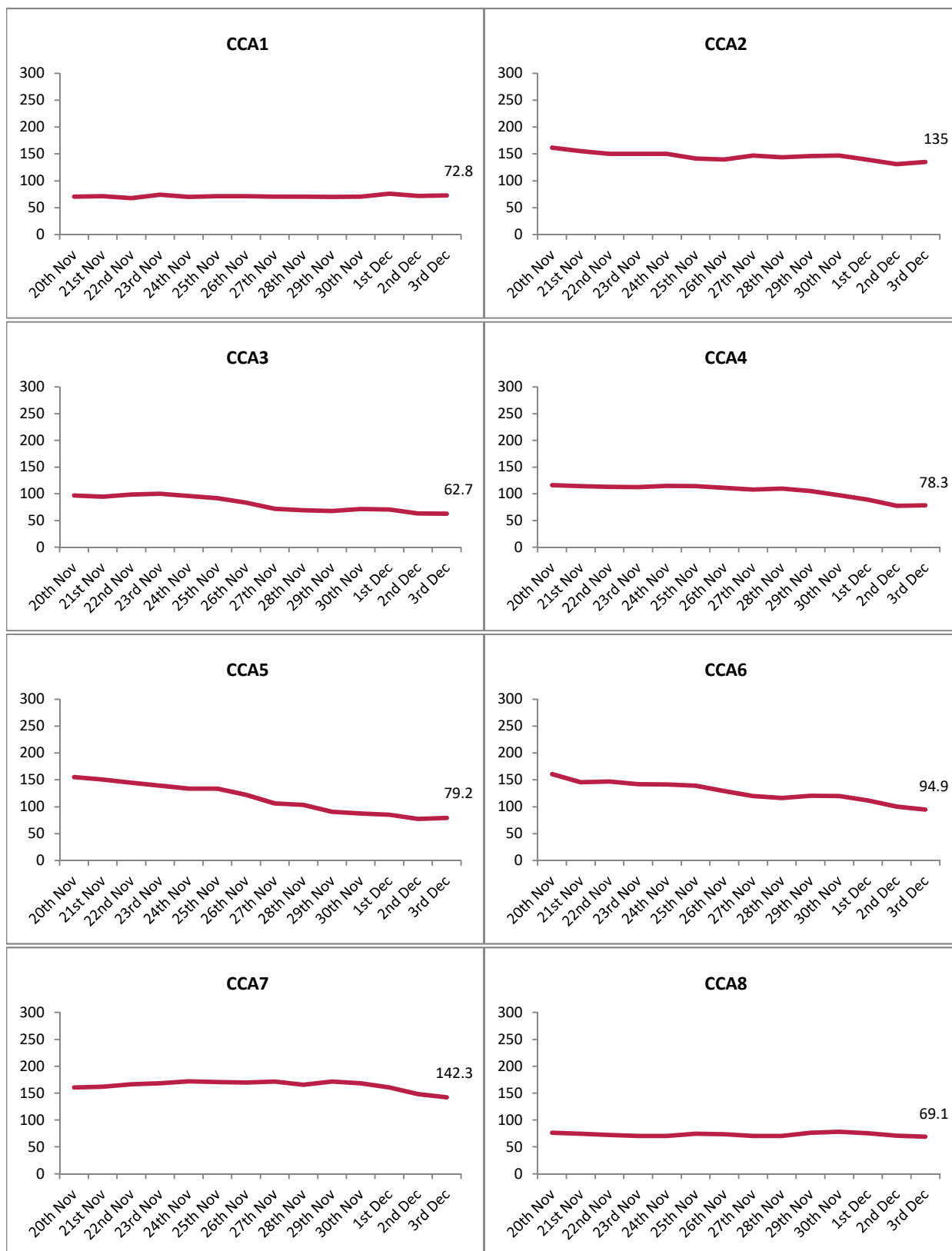
Galway

49.2

Kerry

35.2

Kildare

48.5

Kilkenny

148.1

Laois

49.6

Leitrim

9.4

Limerick

141.1

Longford

90.5

Louth

162.9

Mayo

82.8

Meath

49.2

Monaghan

114

Offaly

37.2

Roscommon

51.1

Sligo

42.7

Tipperary

82.7

Waterford

68.9

Westmeath

25.9

Wexford

18.7

Wicklow

106

Figure B. 14 day cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 by Dublin CCA (20/11/2020 to 03/12/2020)