Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 17/11/2020

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 03/11/2020 up to midnight 16/11/2020

	Number	Percent
Total number of confirmed cases	5,778	
National incidence of confirmed cases per 100,000 population	121.34	
Number of cases hospitalised*	384	6.65
Number of cases admitted to ICU*	16	0.28
Number of deaths among confirmed cases	23	0.4
Case fatality ratio (CFR, %)	0.4	
National incidence of confirmed deaths per 100,000 population	0.48	
Number of cases** associated with clusters	1,942	33.61
Number of imported cases	18	0.31
Number of cases in healthcare workers	742	12.84
Males	2,794	48.36
Females	2,976	51.51
M:F ratio	0.94	
Median age (years)	36	
Mean age (years)	38	
Age range (years)	0 - 108	

* 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 03/11/2020 - 16/11/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 09:21 on 17/11/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.
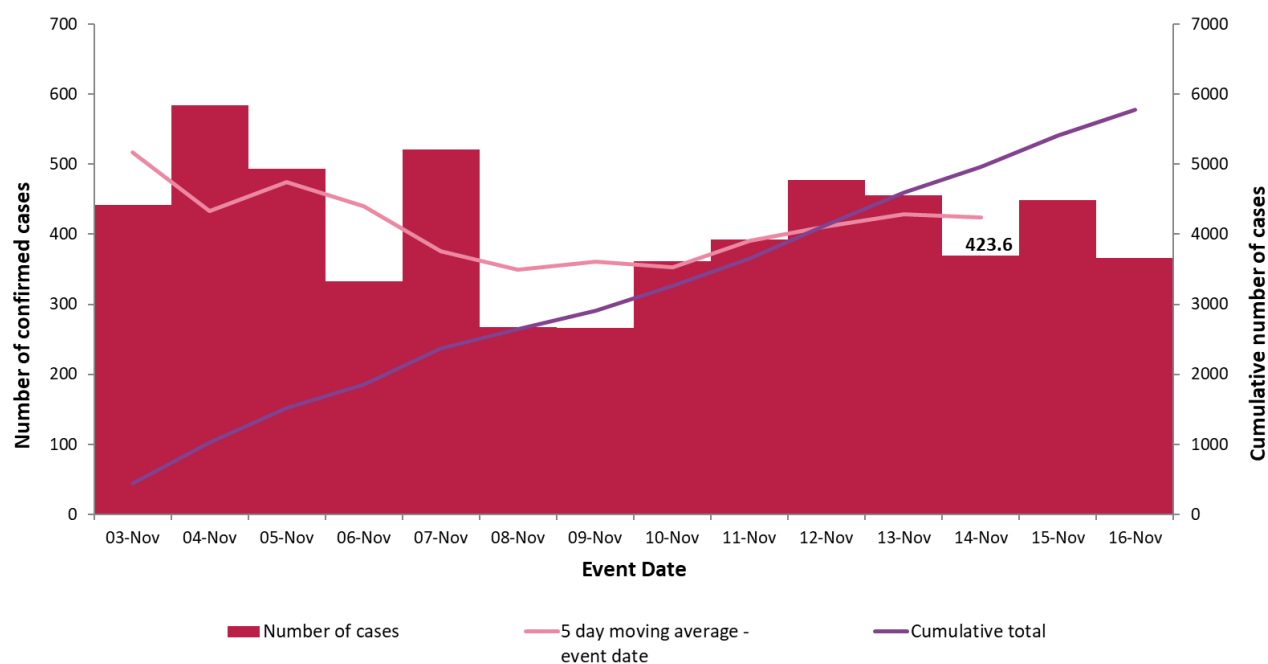
Figure 1. Daily number and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date from 03/11/2020 to midnight 16/11/2020 (n=5,778)

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 03/11/2020 up to midnight on 16/11/202

Characteristic		Number of cases	Percent
Total number of confirmed cases		**5,778**	**100**
Sex	Male:Female ratio	0.94	
	Male	2,794	48.36
	Female	2,976	51.51
	Unknown	8	0.14
Age	Median age (years)	36	
	Mean age (years)	38	
	Age range (years)	0 - 108	
	0-4 yrs	251	4.34
	5-12 yrs	427	7.39
	13-18 yrs	469	8.12
	19-24 yrs	662	11.46
	25-34 yrs	952	16.48
	35-44 yrs	891	15.42
	45-54 yrs	831	14.38
	55-64 yrs	537	9.29
	65-74 yrs	323	5.59
	75-84 yrs	245	4.24
	85+ yrs	190	3.29
Underlying clinical conditions	Yes	1,503	26.01
	No	3,740	64.73
	Unknown	535	9.26
Symptom status at time of test*	Yes	3,479	60.21
	No	1,621	28.05
	Unknown	678	11.73

*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 03/11/2020 to midnight 16/11/2020

CHO Area	Number of confirmed cases	Incidence per 100,000 population
CHO1	667	170.5
CHO2	474	104.6
CHO3	675	175.3
CHO4	647	93.7
CHO5	521	102.1
CHO6	386	100.7
CHO7	766	108.2
CHO8	849	137.1
CHO9	793	127.6
Unknown	0	
Total	**5,778**	**121.3**

Table 3: Number of confirmed COVID-19 cases by county notified in Ireland from 03/11/2020 to midnight 16/11/2020

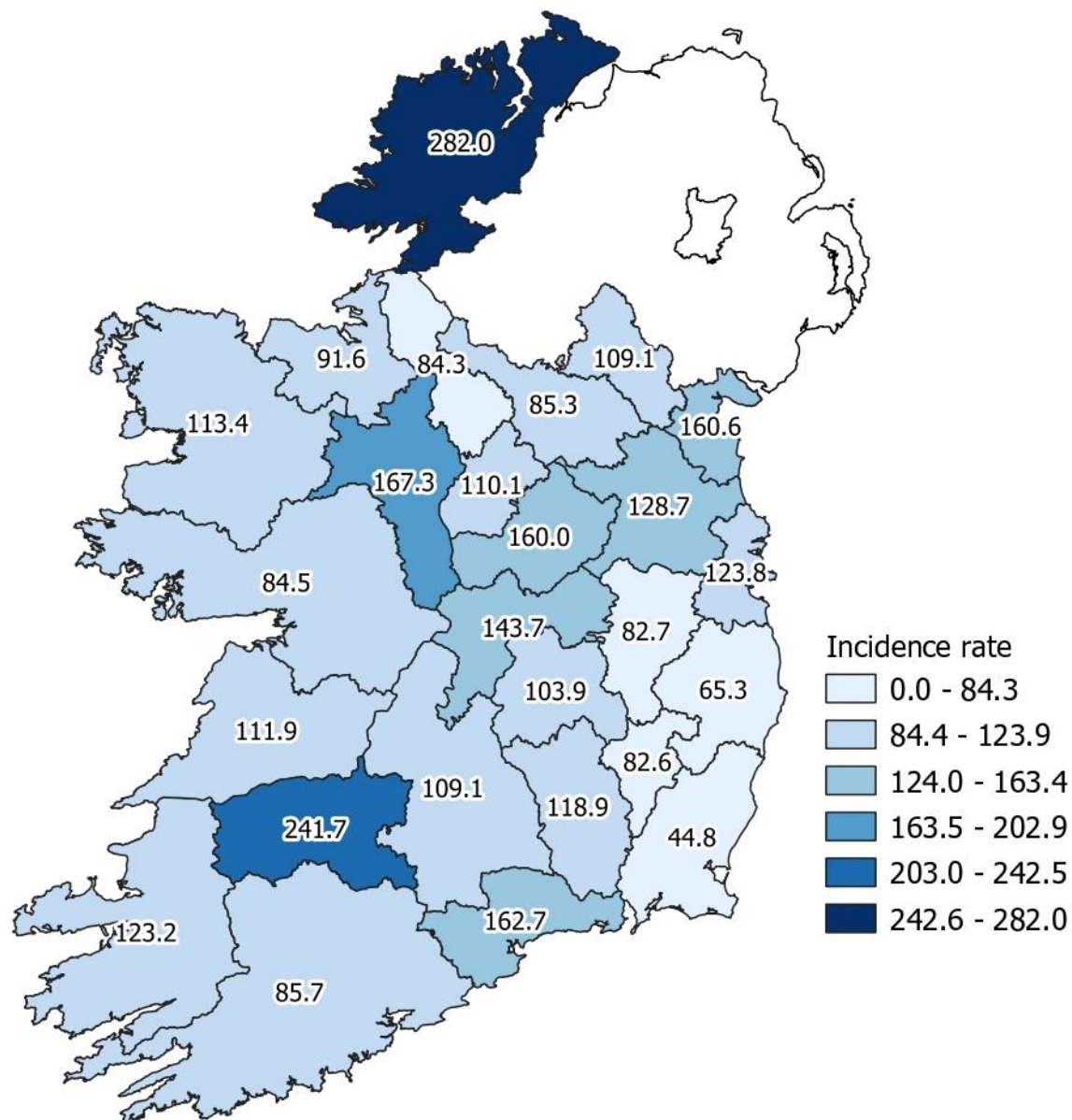| County	Number of confirmed cases	Incidence per 100,000 population
Donegal	449	282.0
Limerick	471	241.7
Roscommon	108	167.3
Waterford	189	162.7
Louth	207	160.6
Westmeath	142	160.0
Offaly	112	143.7
Meath	251	128.7
Dublin	1668	123.8
Kerry	182	123.2
Kilkenny	118	118.9
Mayo	148	113.4
Clare	133	111.9
Longford	45	110.1
Monaghan	67	109.1
Tipperary	174	109.1
Laois	88	103.9
Sligo	60	91.6
Cork	465	85.7
Cavan	65	85.3
Galway	218	84.5
Leitrim	27	84.3
Kildare	184	82.7
Carlow	47	82.6
Wicklow	93	65.3
Wexford	67	44.7
Total	**5,778**	**121.3**

Figure 2: Cumulative incidence rates of confirmed COVID-19 cases per 100,000 population by county notified in Ireland between 03/11/2020 and 16/11/2020

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 03/11/2020 and 16/11/2020

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	87	63.9
CCA2	Dublin South East	209	169.0
CCA3	Dublin South City	146	97.4
CCA4	Dublin South West	177	110.0
CCA5	Dublin West	256	164.8
CCA6	Dublin North West	339	163.2
CCA7	Dublin North Central	230	148.8
CCA8	Dublin North	224	86.4
	Unknown		
	Dublin	**1,668**	**123.8**

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.
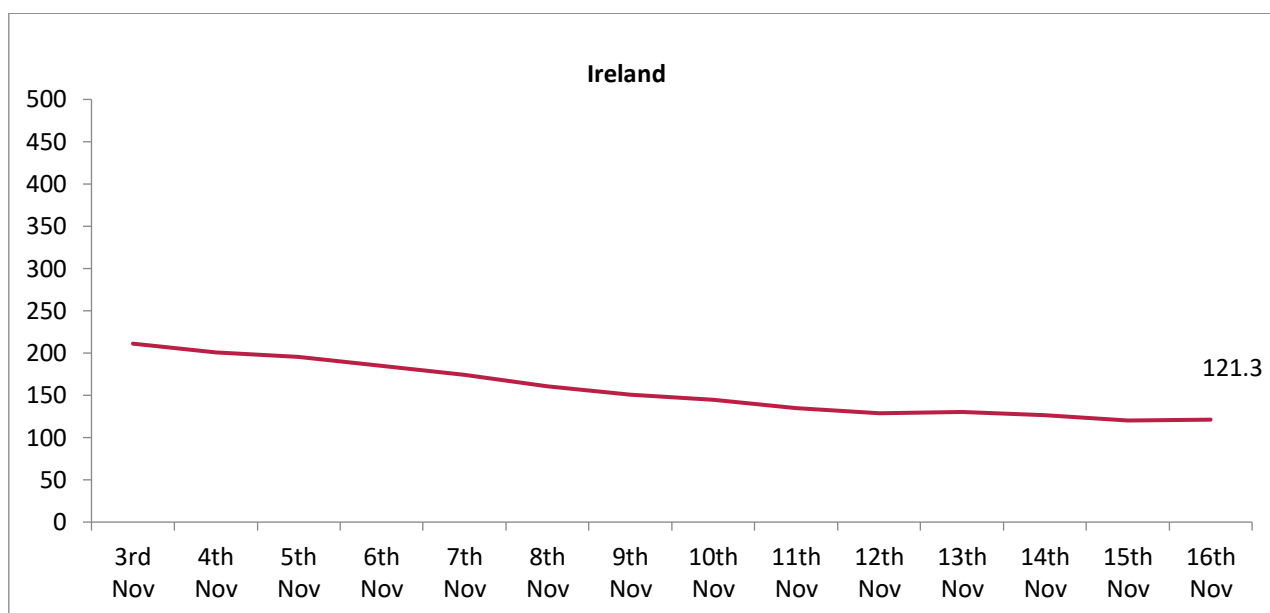
Ireland

121.3

Figure 3: 14 day incidence rates per 100,000 population of confirmed cases of COVID-19 in Ireland (Nov 3rd to Nov 16th 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: Cumulative number of confirmed cases of COVID-19 notified in Ireland from 03/11/2020 to midnight 16/11/2020 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	251	5	1.3	0	0
5-12 yrs	427	1	0.26	0	0
13-18 yrs	469	9	2.34	0	0
19-24 yrs	662	11	2.86	2	12.5
25-34 yrs	952	19	4.95	0	0
35-44 yrs	891	30	7.81	0	0
45-54 yrs	831	35	9.11	2	12.5
55-64 yrs	537	39	10.16	3	18.75
65-74 yrs	323	71	18.49	6	37.5
75-84 yrs	245	103	26.82	3	18.75
85+ yrs	190	61	15.89	0	0
Total	**5,778**	**384**	**100**	**16**	**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 09:21 on 17/11/2020. 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.

Figure A. 14 day incidence rates per 100,000 population of confirmed cases of COVID-19 by county (3ʳᵈ to Nov 16ᵗʰ2020)

Galway

84.5

Kerry

123.2

Kildare

82.7

Kilkenny

118.9

Laois

103.9

Leitrim

84.3

Limerick

241.7

Longford

110.1

Louth

Mayo

Meath

Monaghan

Offaly

Roscommon

Sligo

Tipperary

Waterford

162.7

Westmeath

160

Wexford

44.7

Wicklow

65.3