Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 27/10/2020

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 13/10/2020 up to midnight 26/10/2020

	Number	Percent
Total number of confirmed cases	14,648	
National incidence of confirmed cases per 100,000 population	307.61	
Number of cases hospitalised*	346	2.36
Number of cases admitted to ICU*	19	0.13
Number of deaths among confirmed cases	13	0.09
Case fatality ratio (CFR, %)	0.09	
National incidence of confirmed deaths per 100,000 population	0.27	
Number of cases** associated with clusters	2,705	18.47
Males	7,222	49.3
Females	7,416	50.63
M:F ratio	0.97	
Median age (years)	32	
Mean age (years)	35	
Age range (years)	0 - 102	

* The number of cases hospitalised and admitted to ICU relate only to events notified in the last 14days 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 13/10/2020 - 26/10/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 11:31 on 27/10/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.

Note 2: Due to the large volume of COVID-19 cases in recent days, the collection of surveillance data has been considerably reduced. Consequently, HPSC is currently producing an abridged version of the 14 day report.
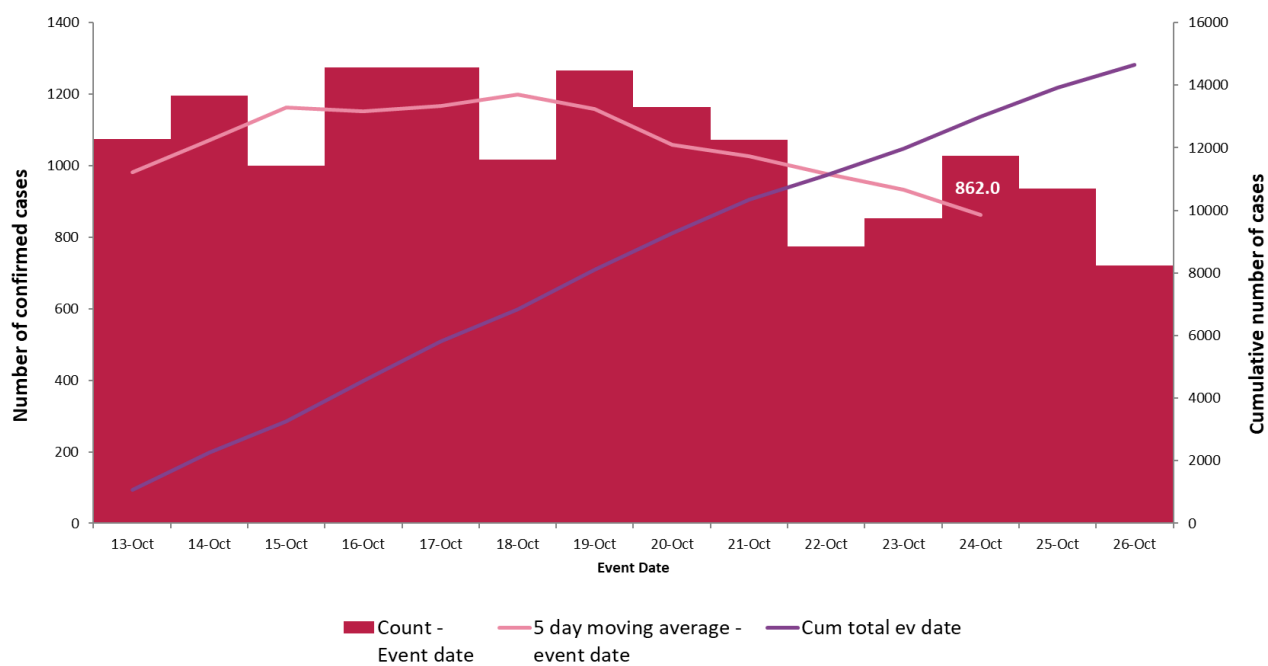
Figure 1. Daily number and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date (n=14,648)

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 13/10/2020 up to midnight on 26/10/202

Characteristic		Number of cases	Percent
Total number of confirmed cases		**14,648**	**100**
Sex	Male:Female ratio	0.97	
	Male	7,222	49.3
	Female	7,416	50.63
	Unknown	10	0.07
Age	Median age (years)	32	
	Mean age (years)	35	
	Age range (years)	0 - 102	
	0-4 yrs	534	3.65
	5-14 yrs	1,384	9.45
	15-24 yrs	3,662	25
	25-34 yrs	2,267	15.48
	35-44 yrs	2,027	13.84
	45-54 yrs	1,946	13.29
	55-64 yrs	1,525	10.41
	65-74 yrs	726	4.96
	75-84 yrs	364	2.48
	85+ yrs	210	1.43
	Unknown	3	0.02

Table 2: Number of confirmed COVID-19 cases by community healthcare organisation (CHO) notified in Ireland from 13/10/2020 to midnight 26/10/2020

CHO Area	Number of confirmed cases	Incidence per 100,000 population	95% CI	
CHO1	1818	464.6	443.5	486.5
CHO2	1512	333.7	317.1	350.9
CHO3	1005	261.0	245.1	277.7
CHO4	2201	318.7	305.5	332.3
CHO5	1085	212.6	200.1	225.6
CHO6	724	189.0	175.4	203.2
CHO7	1787	252.5	240.9	264.5
CHO8	2614	422.1	406.1	438.6
CHO9	1861	299.5	286.0	313.4
Unknown	41			
Total	**14,648**	**307.6**	**302.6**	**312.6**

Table 3: Number of confirmed COVID-19 cases by county notified in Ireland from 13/10/2020 to midnight 26/10/2020

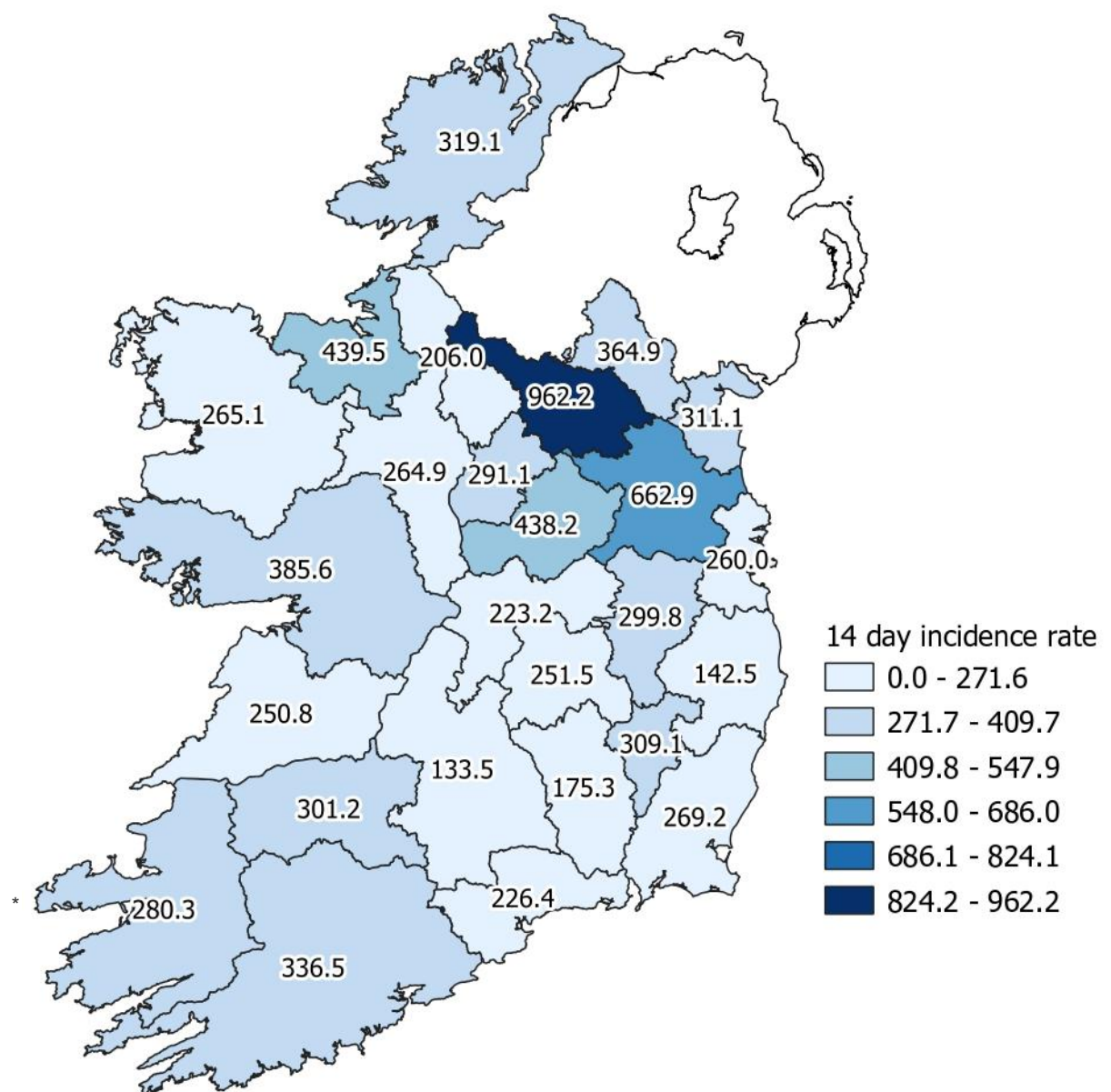| County	Number of confirmed cases	Incidence per 100,000 population	95% CI	
Cavan	733	962.2	893.8	1034.5
Meath	1293	662.9	627.3	700.1
Sligo	288	439.5	390.2	493.3
Westmeath	389	438.2	395.7	484.0
Galway	995	385.6	362.0	410.3
Monaghan	224	364.9	318.7	415.9
Cork	1827	336.5	321.3	352.3
Donegal	508	319.1	292.0	348.1
Louth	401	311.1	281.4	343.1
Carlow	176	309.1	265.2	358.3
Limerick	587	301.2	277.3	326.6
Kildare	667	299.8	277.4	323.4
Longford	119	291.1	241.2	348.4
Kerry	414	280.3	253.9	308.6
Wexford	403	269.2	243.5	296.8
Mayo	346	265.1	237.9	294.6
Roscommon	171	264.9	226.7	307.8
Dublin	3503	260.0	251.4	268.6
Laois	213	251.5	218.8	287.6
Clare	298	250.8	223.1	281.0
Waterford	263	226.4	199.8	255.5
Offaly	174	223.2	191.3	258.9
Leitrim	66	206.0	159.3	262.0
Kilkenny	174	175.3	150.3	203.4
Wicklow	203	142.5	123.6	163.5
Tipperary	213	133.5	116.2	152.7
Total	**14,648**	**307.6**	**302.6**	**312.6**

Figure 2: Cumulative incidence rates of confirmed COVID-19 cases per 100,000 population, by county, notified in Ireland from 13/10/2020 to midnight 26/10/2020

Please do not directly compared county shades to previous maps. The numbers of cases by county are increasing and as such the categories listed will broaden 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 13/10/2020 and 26/10/2020

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	176	129.3
CCA2	Dublin South East	349	282.1
CCA3	Dublin South City	275	183.4
CCA4	Dublin South West	323	200.7
CCA5	Dublin West	518	333.5
CCA6	Dublin North West	818	393.9
CCA7	Dublin North Central	466	301.5
CCA8	Dublin North	577	222.6
	Unknown	1	
	Dublin	**3,503**	**260.0**

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.

Table 5: Cumulative number of confirmed cases of COVID-19 notified in Ireland from 13/10/2020 to midnight 26/10/2020 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	534	5	1.45	0	0
5-14 yrs	1384	9	2.6	1	5.26
15-24 yrs	3662	14	4.05	0	0
25-34 yrs	2267	21	6.07	0	0
35-44 yrs	2027	27	7.8	1	5.26
45-54 yrs	1946	33	9.54	2	10.53
55-64 yrs	1525	45	13.01	3	15.79
65-74 yrs	726	68	19.65	7	36.84
75-84 yrs	364	82	23.7	5	26.32
85+ yrs	210	42	12.14	0	0
Unknown	3			0	0
Total	**14,648**	**346**	**100**	**19**	**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 11:31 on 27/10/2020. 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 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. 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.