



Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 17/10/2020

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 03/10/2020 up to midnight 16/10/2020

	Number	Percent
Total number of confirmed cases	11,028	
National incidence of confirmed cases per 100,000 population	231.59	
Number of cases hospitalised*	299	2.71
Number of cases admitted to ICU*	25	0.23
Number of deaths among confirmed cases	15	0.14
Case fatality ratio (CFR, %)	0.14	
National incidence of confirmed deaths per 100,000 population	0.32	
Number of cases** associated with clusters	3,269	29.64
Number of imported cases	5	0.05
Number of cases in healthcare workers	530	4.81
Males	5,560	50.42
Females	5,456	49.47
M:F ratio	1.02	
Median age (years)	31	
Mean age (years)	35	
Age range (years)	0 - 98	

* 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 03/10/2020 - 16/10/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 11:36 on 17/10/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.

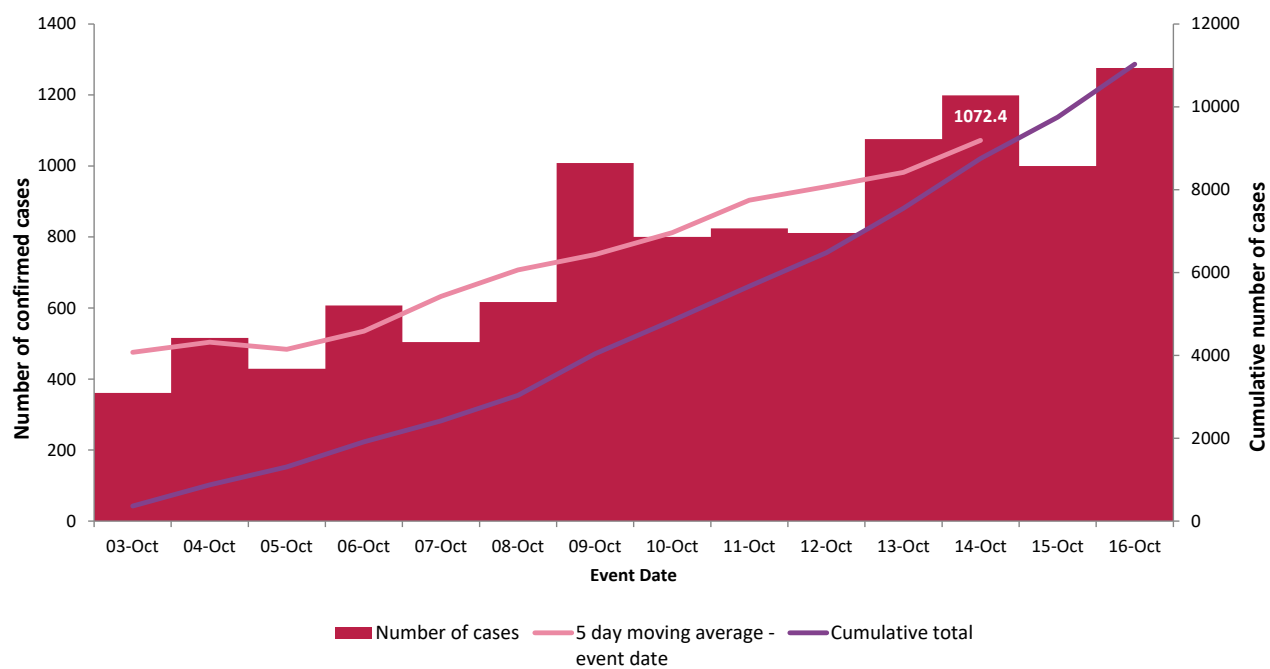


Figure 1. Daily number and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date (n=11, 028)

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 03/10/2020 up to midnight on 16/10/202

Characteristic		Number of cases	Percent
Total number of confirmed cases		11,028	100
Sex	Male:Female ratio	1.02	
	Male	5,560	50.42
	Female	5,456	49.47
	Unknown	12	0.11
Age	Median age (years)	31	
	Mean age (years)	35	
	Age range (years)	0 - 98	
	0-4 yrs	308	2.79
	5-14 yrs	786	7.13
	15-24 yrs	3,085	27.97
	25-34 yrs	1,923	17.44
	35-44 yrs	1,516	13.75
	45-54 yrs	1,433	12.99
	55-64 yrs	1,074	9.74
	65-74 yrs	497	4.51
	75-84 yrs	257	2.33
	85+ yrs	147	1.33
	Unknown	2	0.02
Underlying clinical conditions	Yes	1,397	12.67
	No	6,258	56.75
	Unknown	3,373	30.59

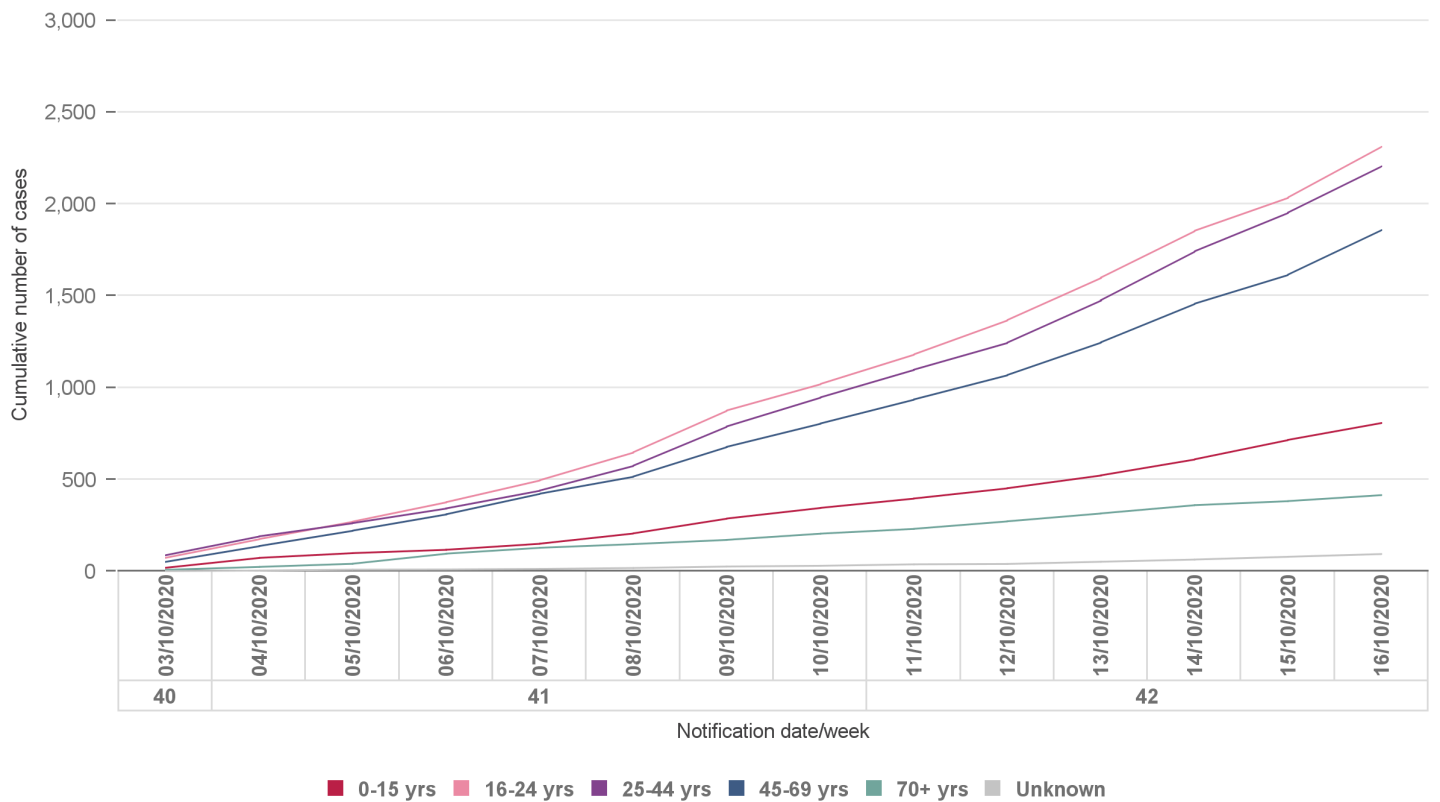


Figure 2: Cumulative number of confirmed COVID-19 cases notified in Ireland by date/week of notification and age group (years) from 03/10/2020 to midnight 16/10/2020

Table 2: Characteristics of confirmed COVID-19 cases by community healthcare organisation (CHO)* notified from 03/10/2020 to midnight 16/10/2020

CHO Area	Cases		M:F ratio	Mean age (years)	Healthcare workers		Associated with clusters	
	N	%			N	%	N	%
CHO1	1,629	14.77	1	35	100	6.14	575	35.3
CHO2	978	8.87	0.97	31	31	3.17	480	49.08
CHO3	880	7.98	0.97	31	15	1.7	258	29.32
CHO4	1,683	15.26	1.08	36	69	4.1	699	41.53
CHO5	833	7.55	1.08	37	47	5.64	232	27.85
CHO6	545	4.94	0.85	37	38	6.97	146	26.79
CHO7	1,357	12.31	1.02	36	68	5.01	174	12.82
CHO8	1,698	15.4	1.19	37	67	3.95	322	18.96
CHO9	1,424	12.91	0.89	36	95	6.67	383	26.9
Unknown	1	0.01		31	<5	0	0	0
National	11,028	100	1.02	35	530	4.81	3,269	29.64

Table 3: Number of confirmed COVID-19 cases by community healthcare organisation (CHO) notified in Ireland from 03/10/2020 to midnight 16/10/2020

CHO Area	Number of confirmed cases	Incidence per 100,000 population
CHO1	1629	416.3
CHO2	978	215.8
CHO3	880	228.6
CHO4	1683	243.7
CHO5	833	163.2
CHO6	545	142.2
CHO7	1357	191.7
CHO8	1698	274.2
CHO9	1424	229.2
Unknown	1	
Total	11,028	231.6

*CHO1: Cavan, Donegal, Monaghan, Leitrim, Sligo

CHO2: Galway, Mayo, Roscommon

CHO3: Clare, Limerick, Tipperary North

CHO4: Cork, Kerry

CHO5: Carlow, Kilkenny, Tipperary South, Waterford, Wexford

CHO6: Dublin South East, Dun Laoghaire, Wicklow

CHO7: Dublin South City, Dublin South West, Dublin West, Kildare/West Wicklow

CHO8: Laois, Longford, Louth, Meath, Offaly, Westmeath

CHO9: Dublin North, Dublin North Central & Dublin North West

Table 4: Number of confirmed COVID-19 cases by county notified in Ireland from 03/10/2020 to midnight 16/10/2020

County	Number of confirmed cases	Incidence per 100,000 population
Cavan	578	758.8
Meath	878	450.2
Donegal	567	356.2
Monaghan	215	350.2
Clare	381	320.7
Sligo	199	303.7
Galway	678	262.7
Cork	1390	256.0
Westmeath	224	252.3
Wexford	375	250.5
Limerick	452	231.9
Leitrim	70	218.4
Longford	87	212.9
Kildare	462	207.6
Dublin	2719	201.8
Roscommon	129	199.9
Kerry	293	198.4
Louth	239	185.4
Offaly	139	178.3
Laois	128	151.1
Kilkenny	141	142.1
Mayo	171	131.0
Waterford	152	130.8
Carlow	66	115.9
Wicklow	146	102.5
Tipperary	149	93.4
Total	11,028	231.6

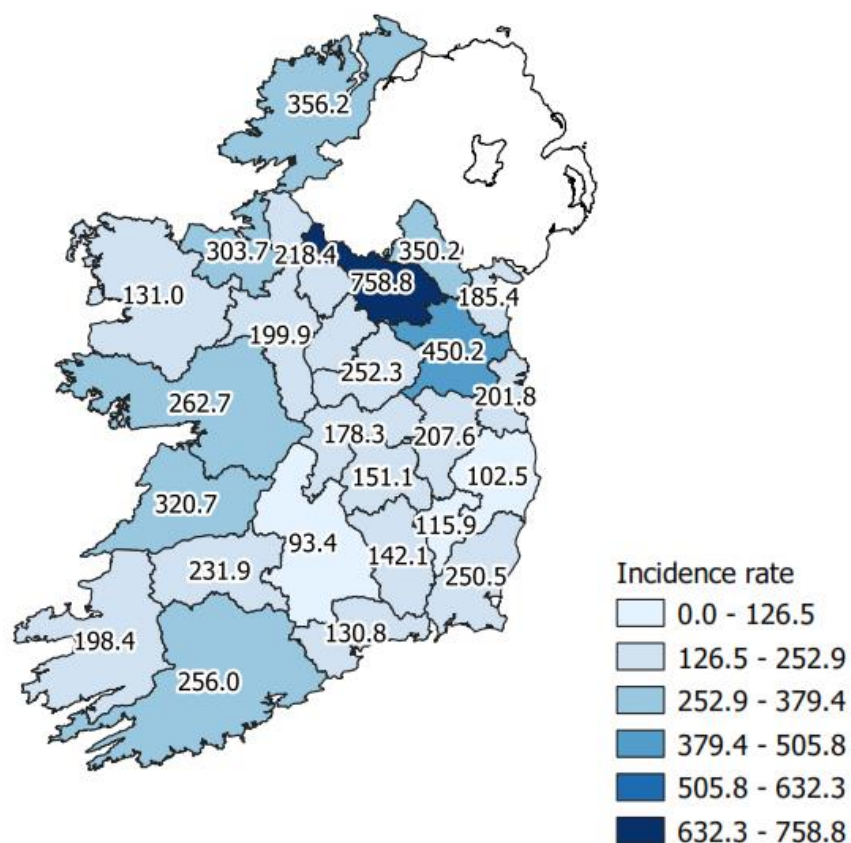


Figure 3: Cumulative incidence rates of confirmed COVID-19 cases per 100,000 population, by county, notified in Ireland from 03/10/2020 to midnight 16/10/2020

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 5: Number and incidence of confirmed COVID-19 cases by Dublin Local Health Offices (LHOs) notified in Ireland with a notification date between 03/10/2020 and 16/10/2020

CCA	Local Health Office	Number of cases in past 14 days based on event date	14 day incidence rates based on event dates
CCA1	Dublin South	128	94.1
CCA2	Dublin South East	278	224.7
CCA3	Dublin South City	199	132.7
CCA4	Dublin South West	258	160.4
CCA5	Dublin West	431	277.5
CCA6	Dublin North West	614	295.7
CCA7	Dublin North Central	390	252.3
CCA8	Dublin North	420	162.1
	Unknown	1	
	Dublin	2719	201.8

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.

Table 6: Number of confirmed COVID-19 cases by most likely transmission source notified from 03/10/2020 to midnight 16/10/2020

Most likely transmission source	Number of cases	Percent
Travel related	55	0.50%
Close contact with a known confirmed case	4,949	44.88%
Healthcare setting acquired: patient	150	1.36%
Healthcare setting acquired: staff	121	1.10%
Community transmission	2,112	19.15%
Under investigation	3,641	33.02%
Total	11,028	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

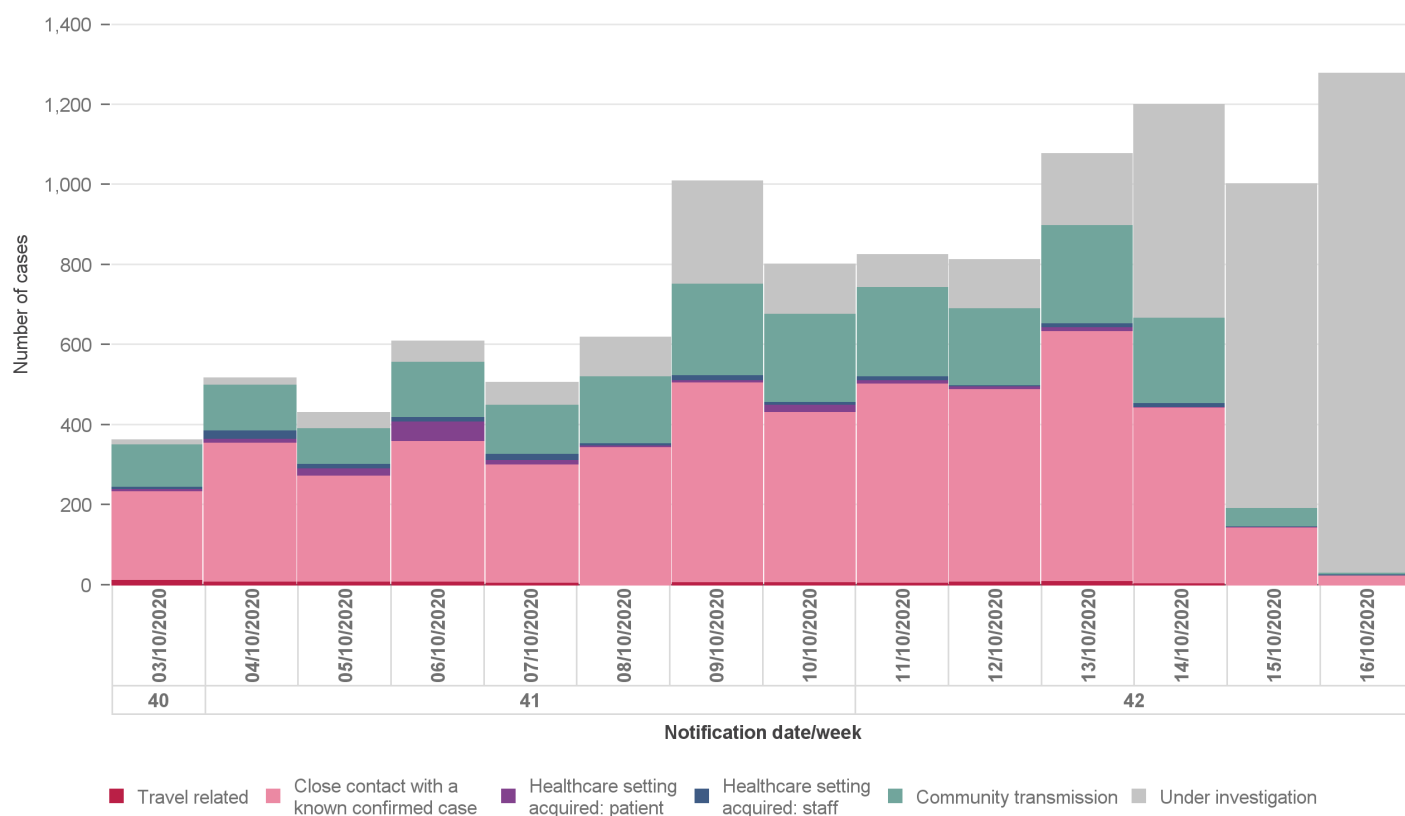


Figure 4: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and most likely transmission source from 03/10/2020 to midnight 16/10/2020

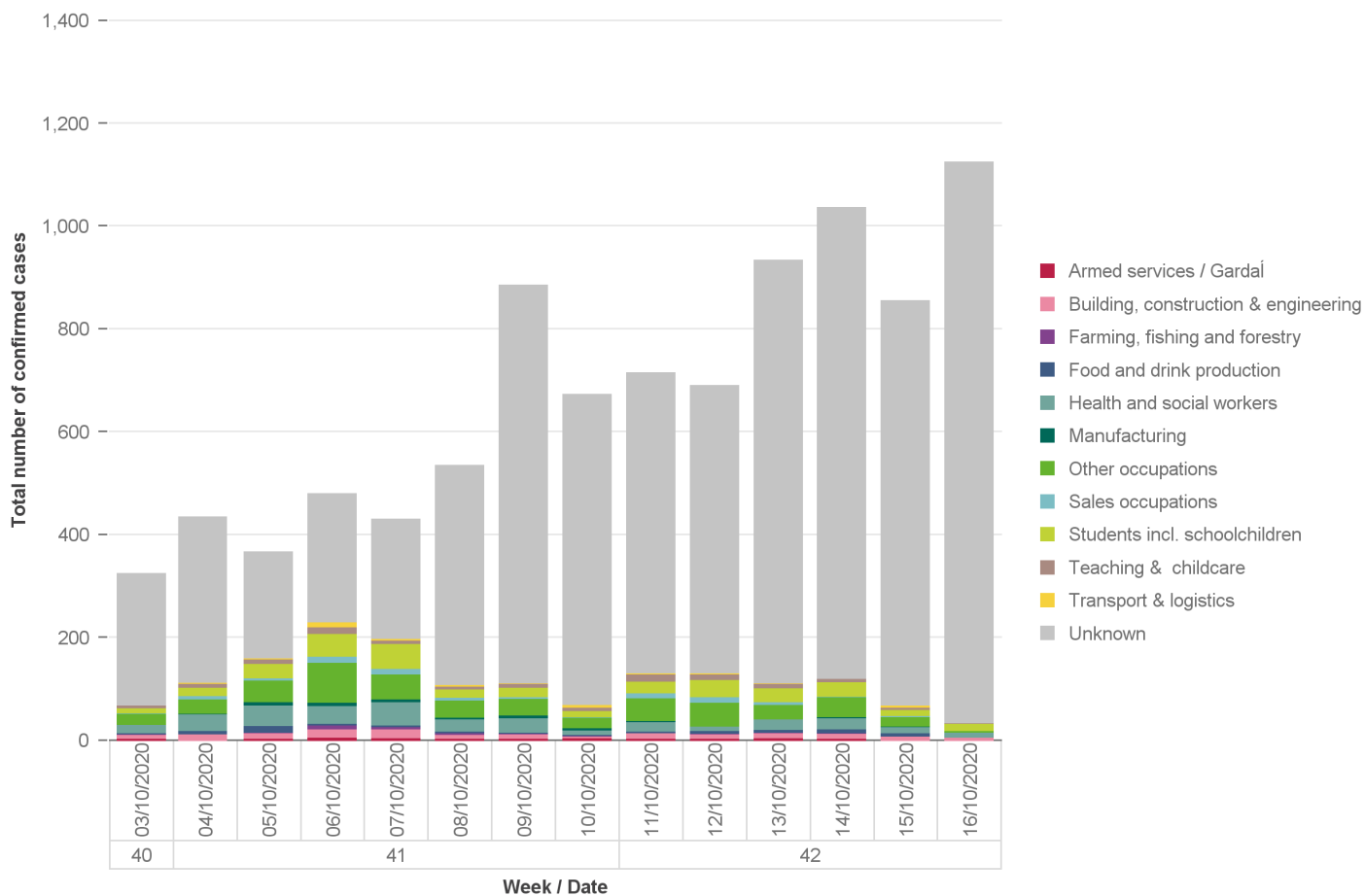


Figure 5: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and occupation* from 03/10/2020 to midnight 16/10/2020

*Among cases aged 16-69 years

Table 7: Cumulative number of confirmed cases of COVID-19 notified in Ireland from 03/10/2020 to midnight 16/10/2020 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	308	8	2.68	0	0
5-14 yrs	786	6	2.01	1	4
15-24 yrs	3085	20	6.69	1	4
25-34 yrs	1923	31	10.37	0	0
35-44 yrs	1516	24	8.03	3	12
45-54 yrs	1433	21	7.02	0	0
55-64 yrs	1074	47	15.72	7	28
65-74 yrs	497	41	13.71	9	36
75-84 yrs	257	61	20.4	4	16
85+ yrs	147	39	13.04	0	0
Unknown	2	1	0.33	0	0
Total	11,028	299	100	25	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 11:36 on 17/10/2020. 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.