



Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 18/10/2020

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 04/10/2020 up to midnight 17/10/2020

	Number	Percent
Total number of confirmed cases	11,950	
National incidence of confirmed cases per 100,000 population	250.95	
Number of cases hospitalised*	301	2.52
Number of cases admitted to ICU*	24	0.2
Number of deaths among confirmed cases	17	0.14
Case fatality ratio (CFR, %)	0.14	
National incidence of confirmed deaths per 100,000 population	0.36	
Number of cases** associated with clusters	3,167	26.5
Number of imported cases	5	0.04
Number of cases in healthcare workers	531	4.44
Males	5,996	50.18
Females	5,942	49.72
M:F ratio	1.01	
Median age (years)	31	
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 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 04/10/2020 - 17/10/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 11:36 on 18/10/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.

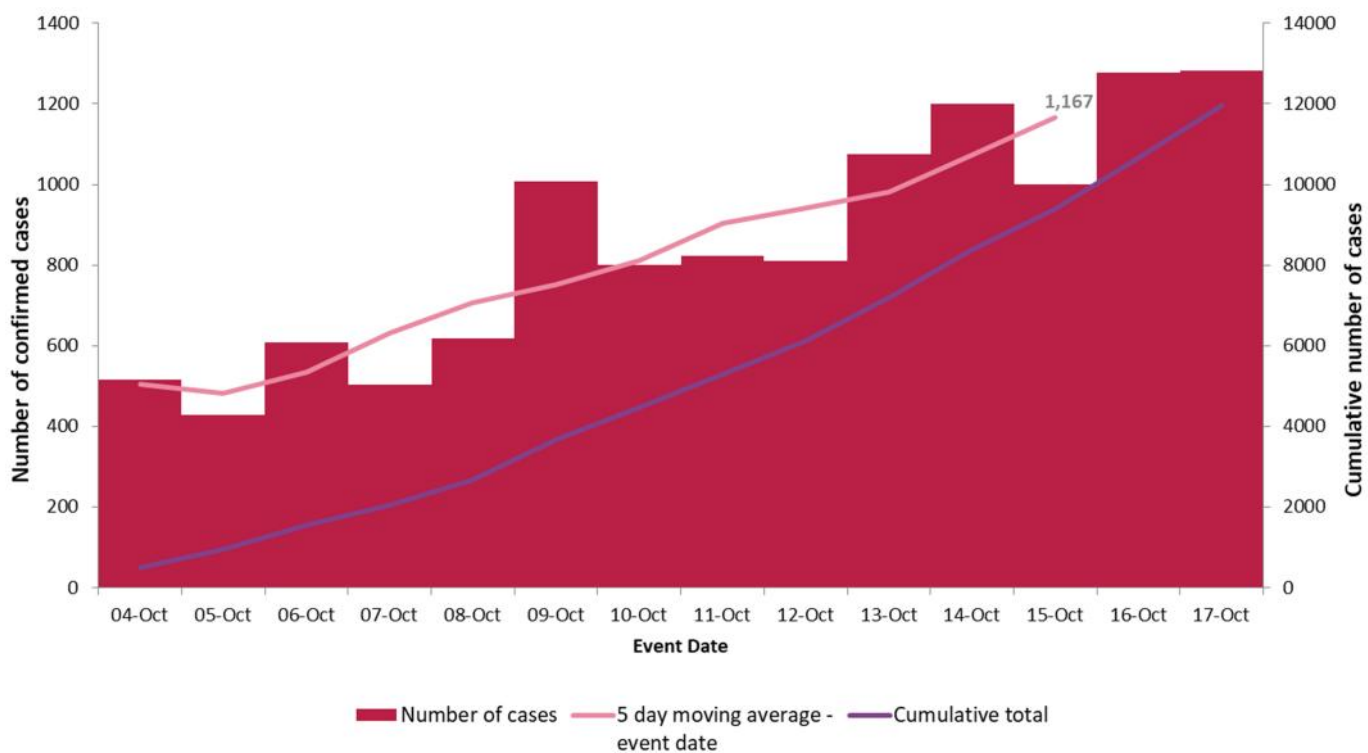


Figure 1. Daily number and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date (n=11,950)

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 04/10/2020 up to midnight on 17/10/202

Characteristic		Number of cases	Percent
Total number of confirmed cases		11,950	100
Sex	Male:Female ratio	1.01	
	Male	5,996	50.18
	Female	5,942	49.72
	Unknown	12	0.1
Age	Median age (years)	31	
	Mean age (years)	35	
	Age range (years)	0 - 102	
	0-4 yrs	342	2.86
	5-14 yrs	901	7.54
	15-24 yrs	3,296	27.58
	25-34 yrs	2,046	17.12
	35-44 yrs	1,643	13.75
	45-54 yrs	1,553	13
	55-64 yrs	1,167	9.77
	65-74 yrs	550	4.6
	75-84 yrs	281	2.35
	85+ yrs	168	1.41
	Unknown	3	0.03
Underlying clinical conditions	Yes	1,442	12.07
	No	6,406	53.61
	Unknown	4,102	34.33

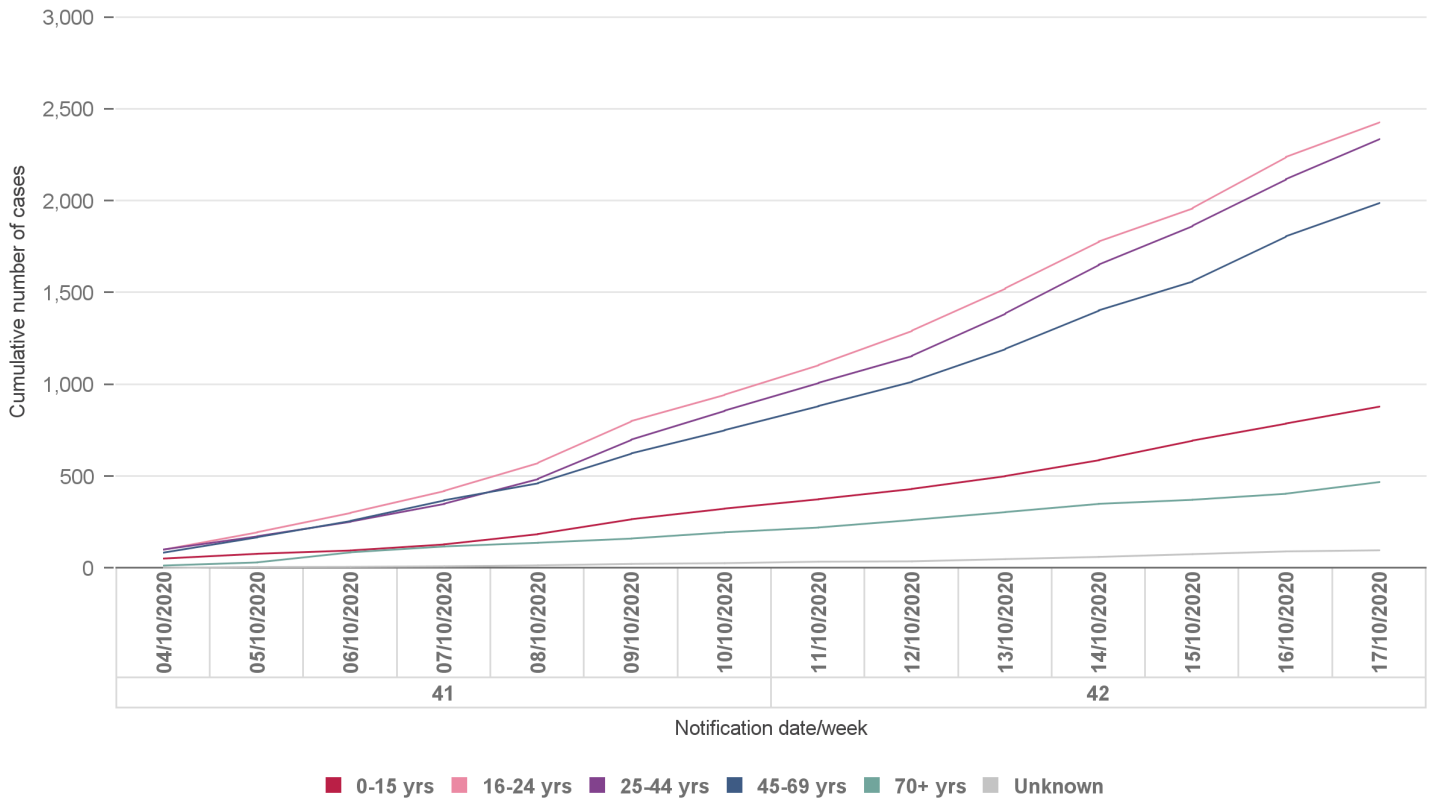


Figure 2: Cumulative number of confirmed COVID-19 cases notified in Ireland by date/week of notification and age group (years) from 04/10/2020 to midnight 17/10/2020

Table 2: Characteristics of confirmed COVID-19 cases by community healthcare organisation (CHO)* notified from 04/10/2020 to midnight 17/10/2020

CHO Area	Cases		M:F ratio	Mean age (years)	Healthcare workers		Associated with clusters	
	N	%			N	%	N	%
CHO1	1660	13.9	0.98	36	96	5.783	573	34.5
CHO2	1045	8.7	1.00	31	30	2.871	491	47.0
CHO3	944	7.9	0.93	32	14	1.483	230	24.4
CHO4	1814	15.2	1.03	36	68	3.749	664	36.6
CHO5	886	7.4	1.11	37	50	5.643	224	25.3
CHO6	593	5.0	0.87	37	39	6.577	130	21.9
CHO7	1552	13.0	1.00	35	72	4.639	165	10.6
CHO8	1863	15.6	1.19	37	67	3.596	321	17.2
CHO9	1592	13.3	0.89	35	95	5.967	369	23.2
Unknown	1	0.0		31	<5	0	0	0
National	11950	100	1.0	35	531	4.444	3167	26.5

Table 3: Number of confirmed COVID-19 cases by community healthcare organisation (CHO) notified in Ireland from 04/10/2020 to midnight 17/10/2020

CHO Area	Number of confirmed cases	Incidence per 100,000 population
CHO1	1660	416.3
CHO2	1045	215.8
CHO3	944	228.6
CHO4	1814	243.7
CHO5	886	163.2
CHO6	593	142.2
CHO7	1552	191.7
CHO8	1863	274.2
CHO9	1592	229.2
Unknown	1	
Total	11,950	251.0

*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

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Figure 3: Cumulative incidence rates of confirmed COVID-19 cases per 100,000 population, by county, notified in Ireland from 04/10/2020 to midnight 17/10/2020

Please do not directly compare 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 from 04/10/2020 to midnight 17/10/2020

County Name	Total number	CCA Name
Dublin	131	CCA1
Dublin	299	CCA2
Dublin	234	CCA3
Dublin	282	CCA4
Dublin	487	CCA5
Dublin	678	CCA6
Dublin	432	CCA7
Dublin	482	CCA8
Dublin	1	

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 04/10/2020 to midnight 17/10/2020

Most likely transmission source	Number of cases	Percent
Travel related	49	0.41%
Close contact with a known confirmed case	5,063	42.37%
Healthcare setting acquired: patient	161	1.35%
Healthcare setting acquired: staff	120	1.00%
Community transmission	2,148	17.97%
Under investigation	4,409	36.90%
Total	11,950	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

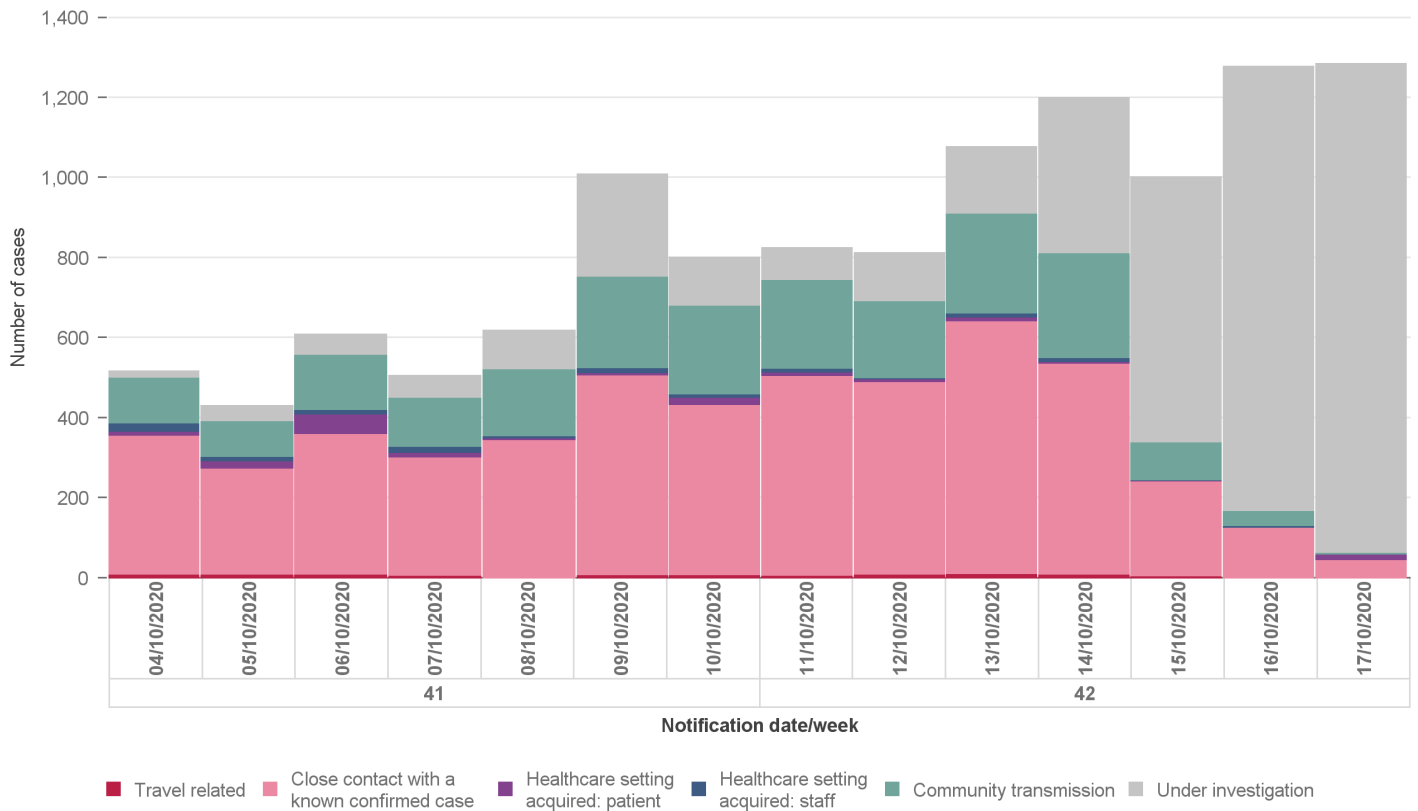


Figure 4: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and most likely transmission source from 04/10/2020 to midnight 17/10/2020

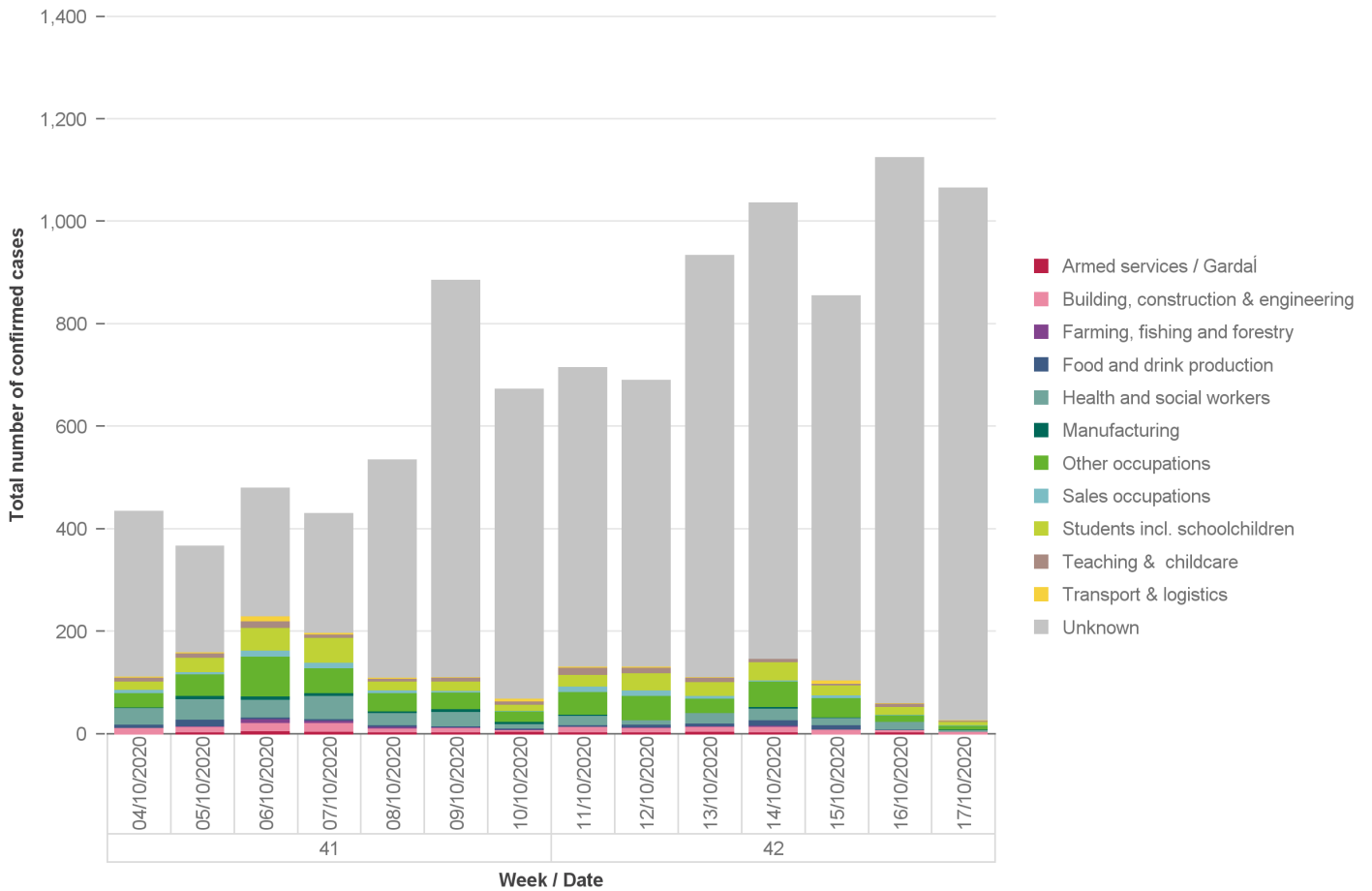


Figure 5: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and occupation* from 04/10/2020 to midnight 17/10/2020

*Among cases aged 16-69 years

Table 7: Cumulative number of confirmed cases of COVID-19 notified in Ireland from 04/10/2020 to midnight 17/10/2020 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	342	7	2.33	0	0
5-14 yrs	901	6	1.99	1	4.17
15-24 yrs	3296	18	5.98	1	4.17
25-34 yrs	2046	29	9.63	0	0
35-44 yrs	1643	23	7.64	3	12.5
45-54 yrs	1553	22	7.31	0	0
55-64 yrs	1167	48	15.95	6	25
65-74 yrs	550	43	14.29	9	37.5
75-84 yrs	281	63	20.93	4	16.67
85+ yrs	168	41	13.62	0	0
Unknown	3	1	0.33	0	0
Total	11,950	301	100	24	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 18/10/2020. 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.