



Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 21/10/2020

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 07/10/2020 up to midnight 20/10/2020

	Number	Percent
Total number of confirmed cases	13,858	
National incidence of confirmed cases per 100,000 population	291.02	
Number of cases hospitalised*	337	2.43
Number of cases admitted to ICU*	23	0.17
Number of deaths among confirmed cases	15	0.11
Case fatality ratio (CFR, %)	0.11	
National incidence of confirmed deaths per 100,000 population	0.32	
Number of cases** associated with clusters	3,389	24.46
Number of imported cases	4	0.03
Number of cases in healthcare workers	511	3.69
Males	6,885	49.68
Females	6,960	50.22
M:F ratio	0.99	
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 07/10/2020 - 20/10/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 11:27 on 21/10/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.

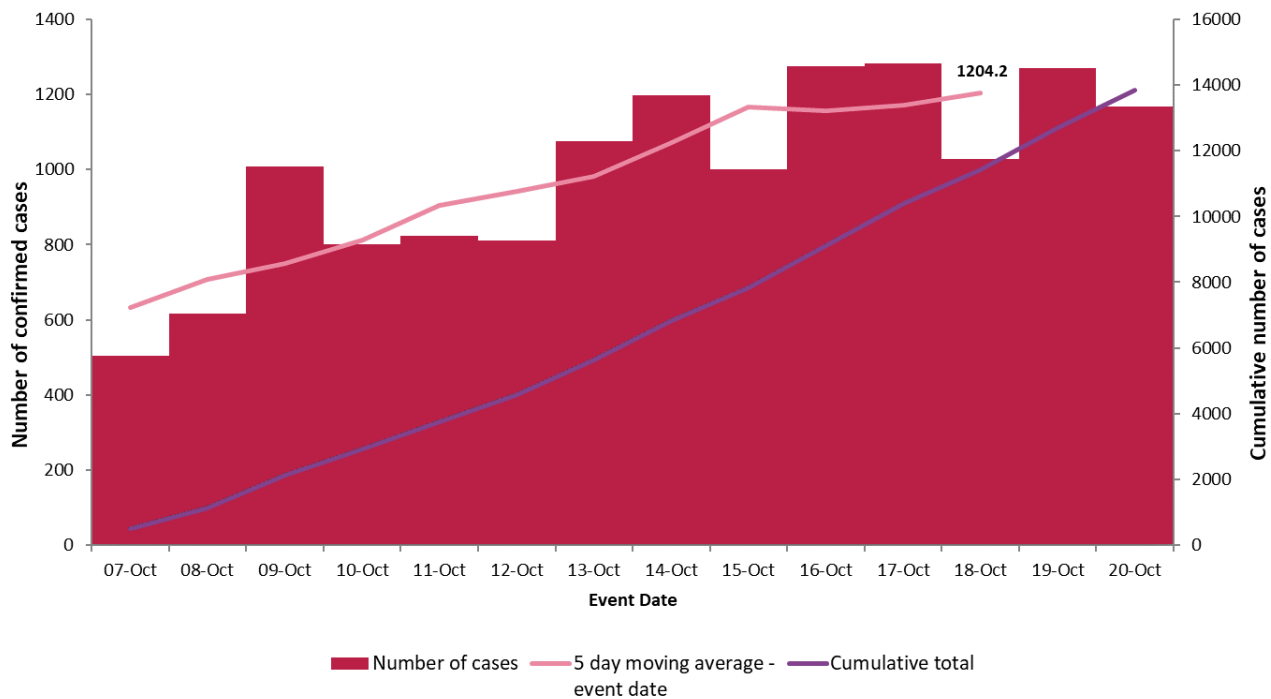


Figure 1. Daily number and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date (n=13,858)

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 07/10/2020 up to midnight on 20/10/202

Characteristic		Number of cases	Percent
Total number of confirmed cases		13,858	100
Sex	Male:Female ratio	0.99	
	Male	6,885	49.68
	Female	6,960	50.22
	Unknown	13	0.09
Age	Median age (years)	31	
	Mean age (years)	35	
	Age range (years)	0 - 102	
	0-4 yrs	432	3.12
	5-14 yrs	1,119	8.07
	15-24 yrs	3,768	27.19
	25-34 yrs	2,307	16.65
	35-44 yrs	1,887	13.62
	45-54 yrs	1,810	13.06
	55-64 yrs	1,382	9.97
	65-74 yrs	641	4.63
	75-84 yrs	316	2.28
	85+ yrs	190	1.37
	Unknown	6	0.04
Underlying clinical conditions	Yes	1,264	9.12
	No	6,903	49.81
	Unknown	5,691	41.07

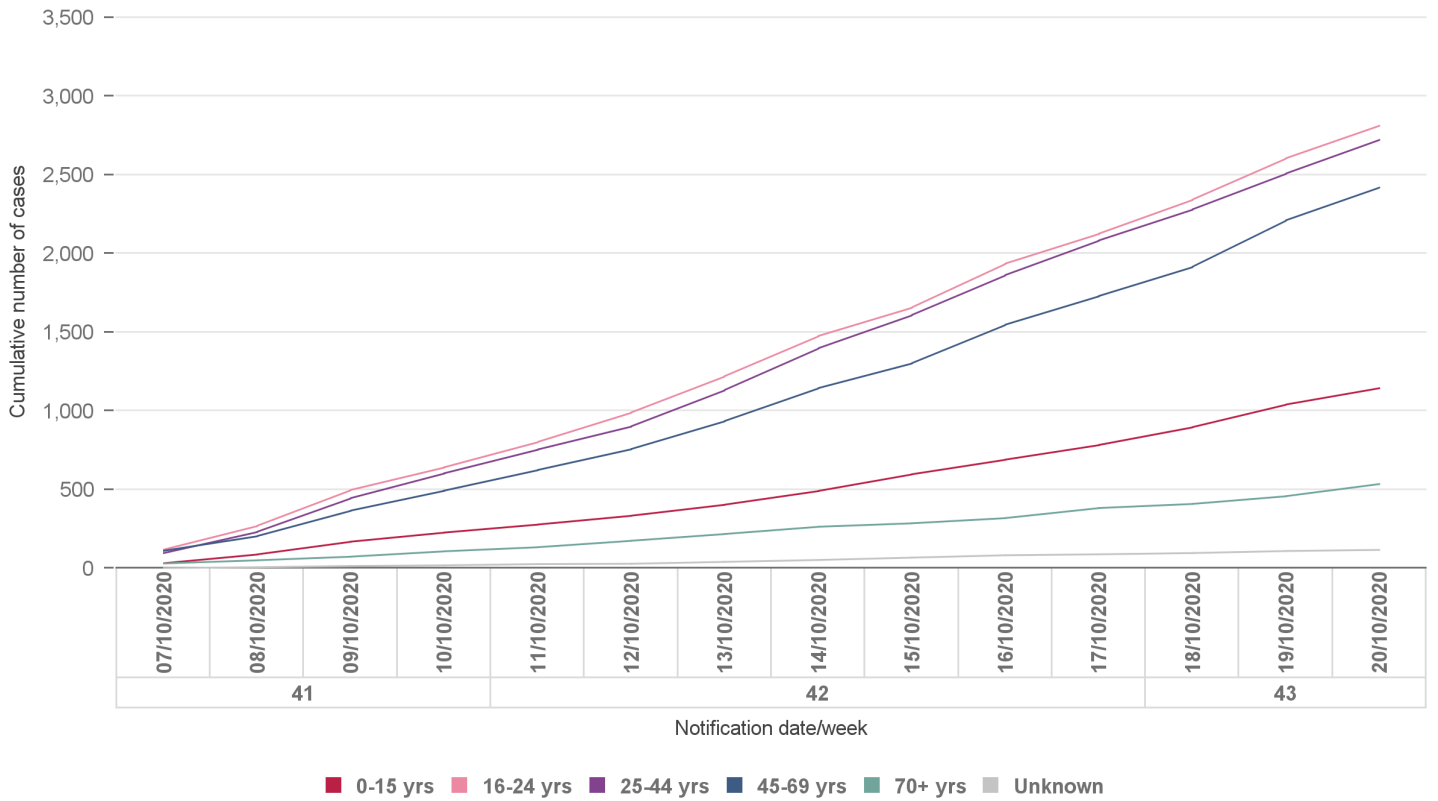


Figure 2: Cumulative number of confirmed COVID-19 cases notified in Ireland by date/week of notification and age group (years) from 07/10/2020 to midnight 20/10/2020

Table 2: Characteristics of confirmed COVID-19 cases by community healthcare organisation (CHO)* notified from 07/10/2020 to midnight 20/10/2020

CHO Area	Cases		M:F ratio	Mean age (years)	Healthcare workers		Associated with clusters	
	N	%			N	%	N	%
CHO1	1,844	13.31	1.04	35	103	5.59	488	26.46
CHO2	1,267	9.14	0.93	32	33	2.6	613	48.38
CHO3	1,003	7.24	0.97	34	16	1.6	180	17.95
CHO4	2,210	15.95	1	36	69	3.12	623	28.19
CHO5	1,008	7.27	1.05	35	44	4.37	225	22.32
CHO6	618	4.46	0.96	35	29	4.69	114	18.45
CHO7	1,749	12.62	0.94	35	64	3.66	419	23.96
CHO8	2,426	17.51	1.05	36	63	2.6	338	13.93
CHO9	1,730	12.48	0.92	35	90	5.2	389	22.49
Unknown	3	0.02	0.5	20	<5	0	0	0
National	13,858	100	0.99	35	511	3.69	3,389	24.46

Table 3: Number of confirmed COVID-19 cases by community healthcare organisation (CHO) * notified in Ireland from 07/10/2020 to midnight 20/10/2020

CHO Area	Number of confirmed cases	Incidence per 100,000 population
CHO1	1844	471.3
CHO2	1267	279.6
CHO3	1003	260.5
CHO4	2210	320.0
CHO5	1008	197.5
CHO6	618	161.3
CHO7	1749	247.1
CHO8	2426	391.7
CHO9	1730	278.4
Unknown	3	
Ireland	13,858	291.0

*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

Table 4: Number of confirmed COVID-19 cases by county notified in Ireland from 07/10/2020 to midnight 20/10/2020

County	Number of confirmed cases	Incidence per 100,000 population
Cavan	772	1013.4
Meath	1273	652.7
Monaghan	239	389.3
Westmeath	329	370.6
Sligo	240	366.2
Cork	1822	335.6
Galway	846	327.8
Donegal	510	320.4
Clare	367	308.9
Wexford	446	297.9
Kildare	656	294.8
Longford	119	291.1
Limerick	557	285.8
Kerry	390	264.0
Leitrim	84	262.1
Louth	336	260.7
Dublin	3269	242.6
Roscommon	150	232.4
Offaly	177	227.0
Laois	180	212.5
Mayo	271	207.7
Carlow	116	203.8
Kilkenny	164	165.3
Waterford	186	160.1
Wicklow	173	121.5
Tipperary	186	116.6
Ireland	13,858	291.0

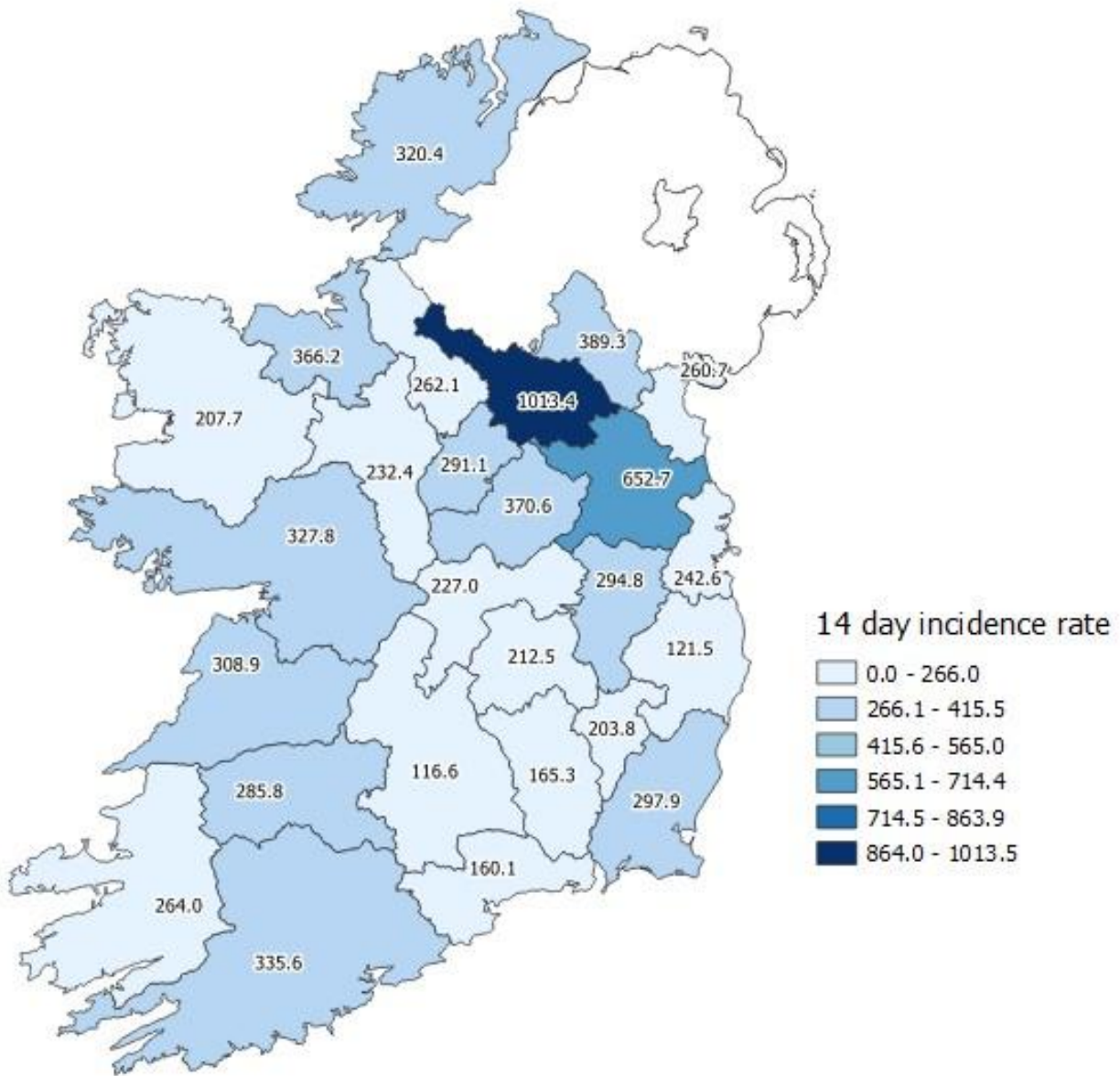


Figure 3: Cumulative incidence rates of confirmed COVID-19 cases per 100,000 population, by county, notified in Ireland from 07/10/2020 to midnight 20/10/2020

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 07/10/2020 to midnight 20/10/2020

CCA	Local Health Office	Number of cases in past 14 days based on epi date	14 day incidence rates based on epi dates
CCA1	Dublin South	138	101.4
CCA2	Dublin South East	314	253.8
CCA3	Dublin South City	234	156.1
CCA4	Dublin South West	325	202.0
CCA5	Dublin West	527	339.2
CCA6	Dublin North West	763	367.4
CCA7	Dublin North Central	447	289.2
CCA8	Dublin North	520	200.7
	Unknown	1	
	Dublin	3,269	242.6

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 07/10/2020 to midnight 20/10/2020

Most likely transmission source	Number of cases	Percent
Travel related	36	0.26%
Close contact with a known confirmed case	5,266	38.00%
Healthcare setting acquired: patient	94	0.68%
Healthcare setting acquired: staff	92	0.66%
Community transmission	2,324	16.77%
Under investigation	6,046	43.63%
Total	13,858	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

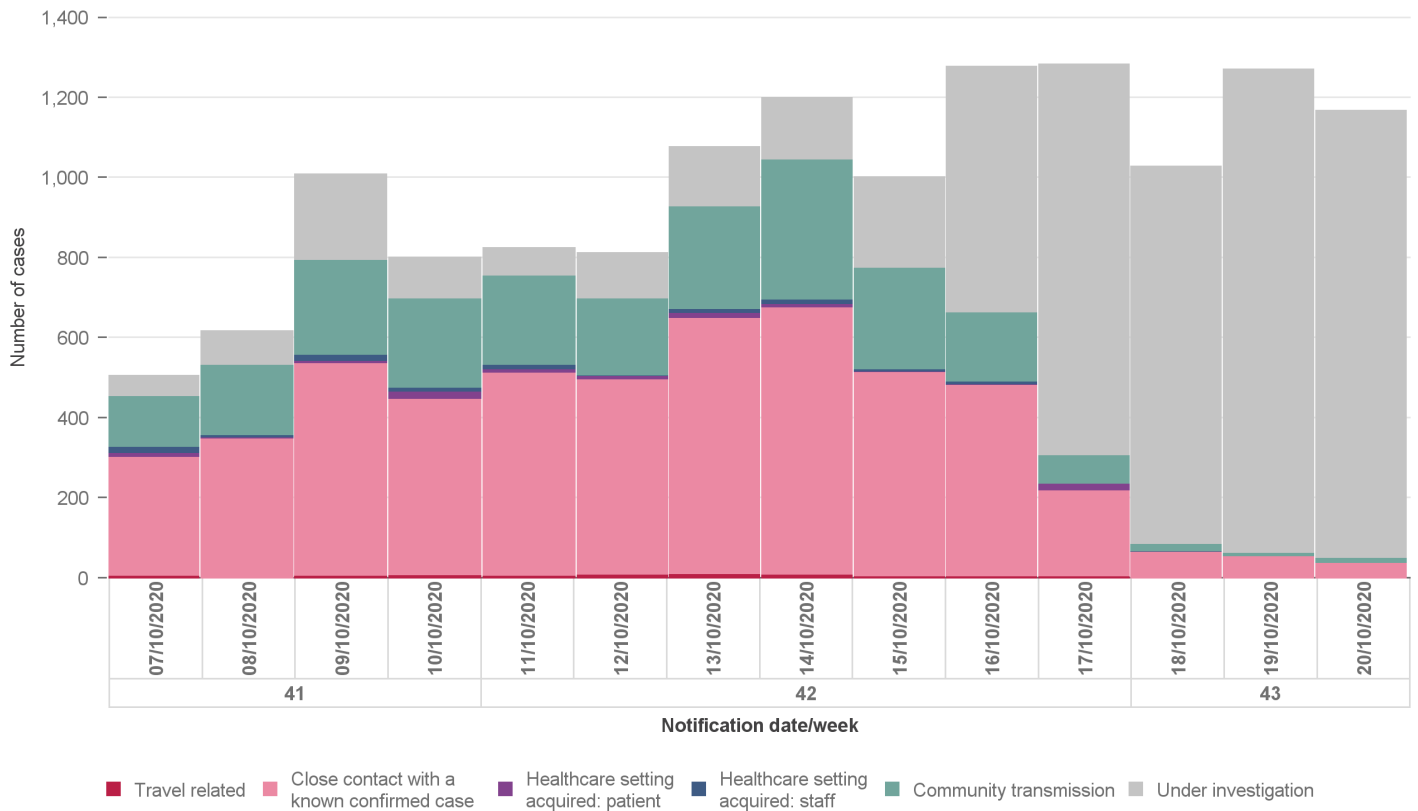


Figure 4: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and most likely transmission source from 07/10/2020 to midnight 20/10/2020

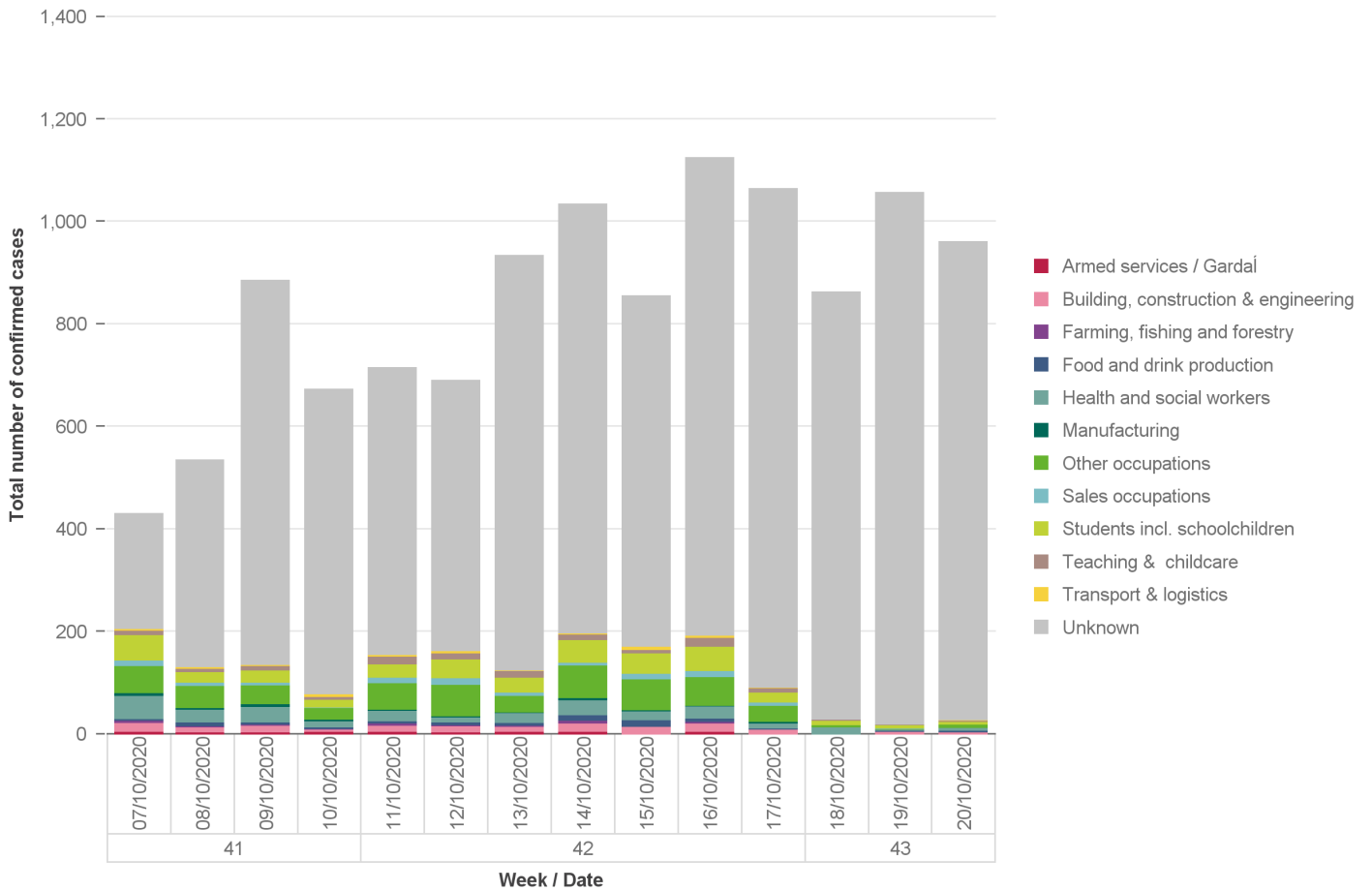


Figure 5: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and occupation* from 07/10/2020 to midnight 20/10/2020

*Among cases aged 16-69 years

Table 7: Cumulative number of confirmed cases of COVID-19 notified in Ireland from 07/10/2020 to midnight 20/10/2020 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	432	7	2.08	0	0
5-14 yrs	1119	10	2.97	1	4.35
15-24 yrs	3768	18	5.34	1	4.35
25-34 yrs	2307	33	9.79	0	0
35-44 yrs	1887	22	6.53	3	13.04
45-54 yrs	1810	28	8.31	1	4.35
55-64 yrs	1382	47	13.95	3	13.04
65-74 yrs	641	53	15.73	10	43.48
75-84 yrs	316	68	20.18	3	13.04
85+ yrs	190	49	14.54	1	4.35
Unknown	6	2	0.59	0	0
Total	13,858	337	100	23	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 11:27 on 21/10/2020. 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.