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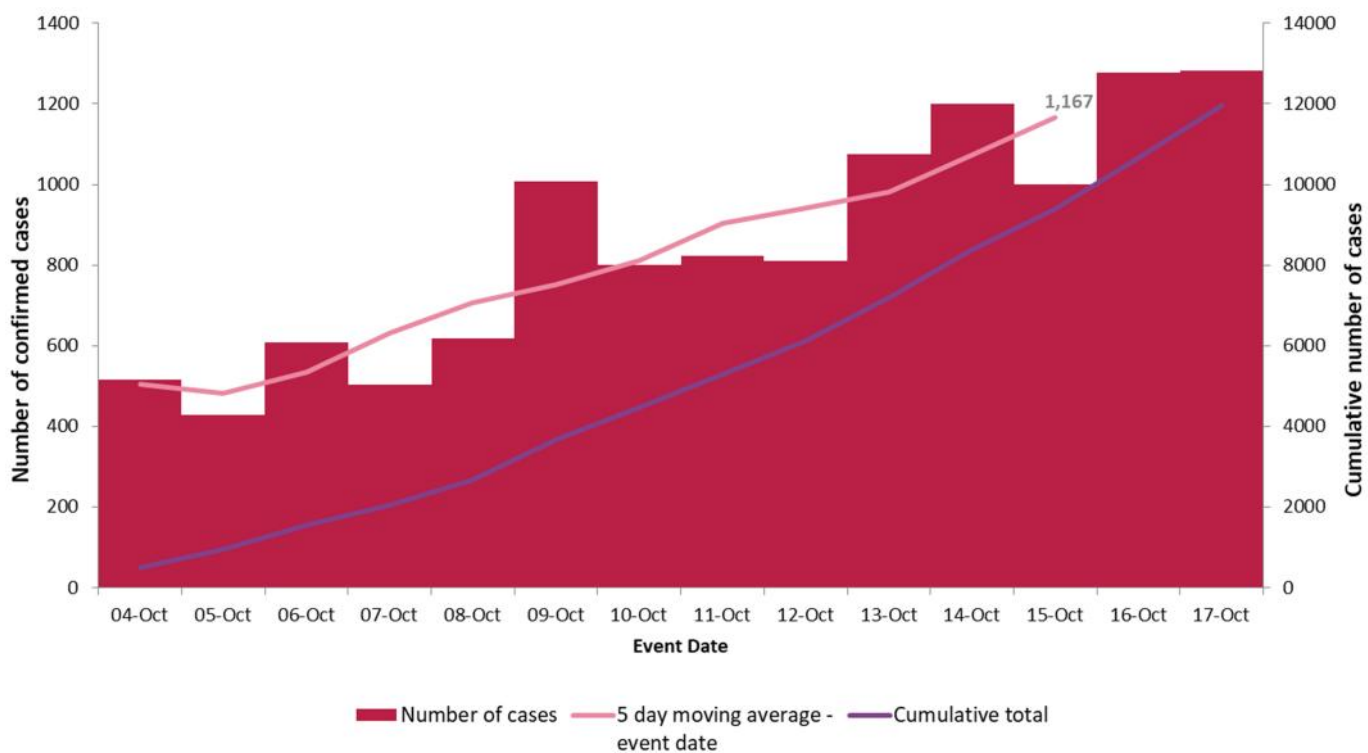
Figure 1. Daily number and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date (n=11,950)

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

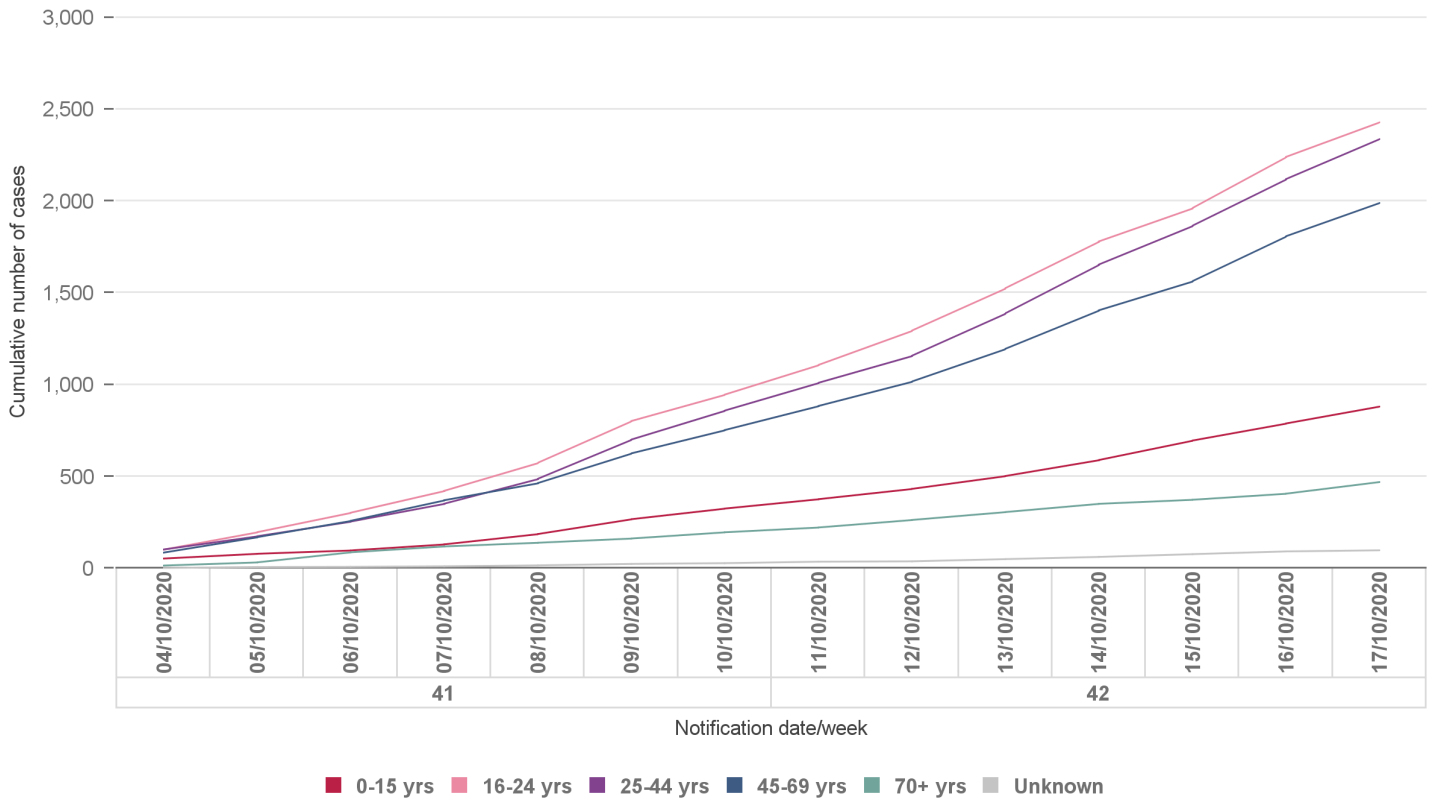| Characteristic		Number of cases	Percent
Total number of confirmed cases		**11,950**	**100**
Sex	Male:Female ratio	1.01	
	Male	5,996	50.18
	Female	5,942	49.72
	Unknown	12	0.1
Age	Median age (years)	31	
	Mean age (years)	35	
	Age range (years)	0 - 102	
	0-4 yrs	342	2.86
	5-14 yrs	901	7.54
	15-24 yrs	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	424.2
CHO2	1045	230.6
CHO3	944	245.2
CHO4	1814	262.7
CHO5	886	173.6
CHO6	593	154.8
CHO7	1552	219.3
CHO8	1863	300.8
CHO9	1592	256.2
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

Table 4: Number of confirmed COVID-19 cases by county notified in Ireland from 04/10/2020 to midnight 17/10/2020

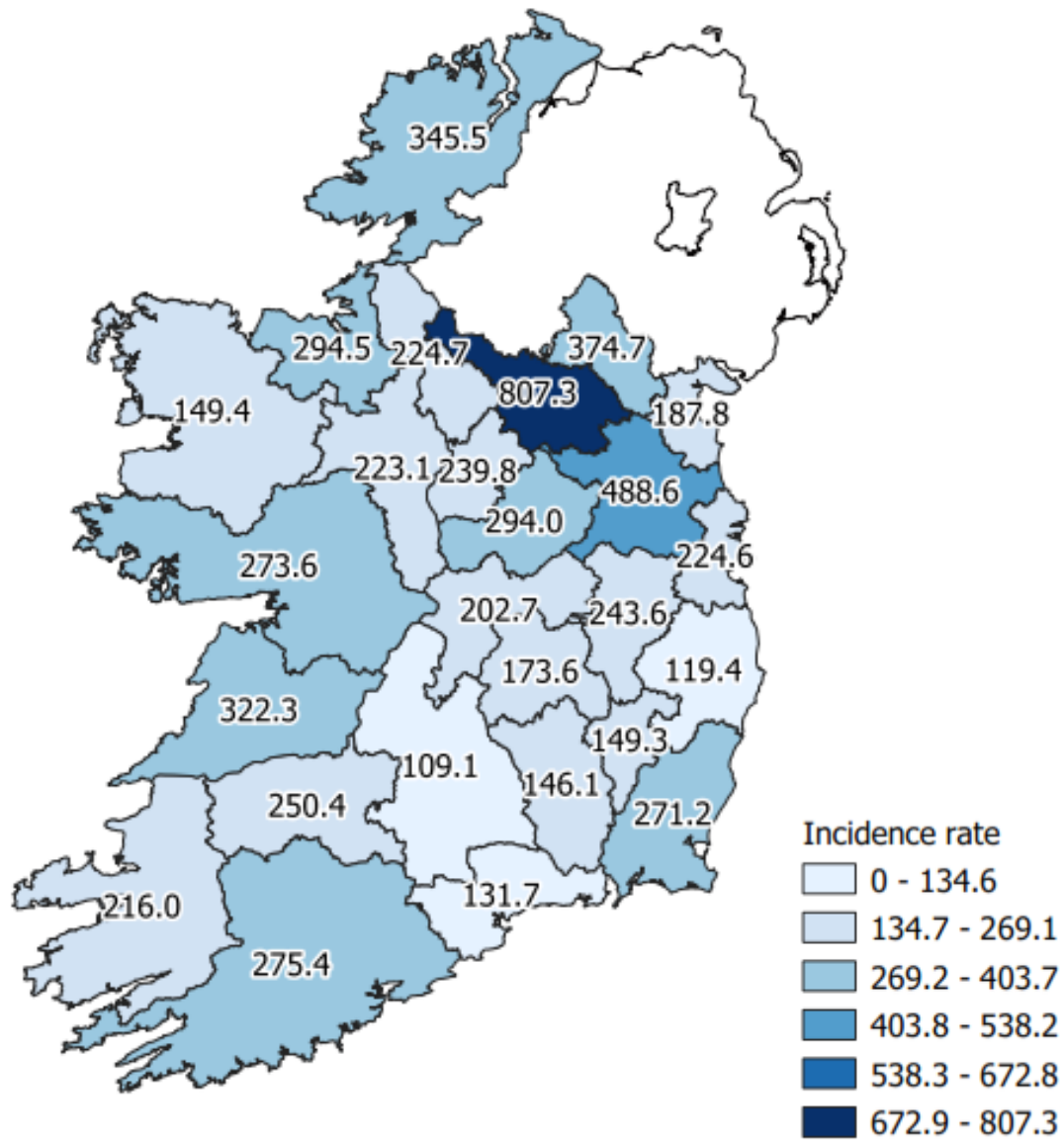| County	Number of confirmed cases	Incidence per 100,000 population
Cavan	615	807.3
Meath	953	488.6
Monaghan	230	374.7
Donegal	550	345.5
Clare	383	322.3
Sligo	193	294.5
Westmeath	261	294.0
Cork	1495	275.4
Galway	706	273.6
Wexford	406	271.2
Limerick	488	250.4
Kildare	542	243.6
Longford	98	239.8
Leitrim	72	224.7
Dublin	3026	224.6
Roscommon	144	223.1
Kerry	319	216.0
Offaly	158	202.7
Louth	242	187.8
Laois	147	173.6
Mayo	195	149.4
Carlow	85	149.3
Kilkenny	145	146.1
Waterford	153	131.7
Wicklow	170	119.4
Tipperary	174	109.1
Total	**11,950**	**251.0**

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 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 04/10/2020 and 17/10/2020

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	131	96.3
CCA2	Dublin South East	299	241.7
CCA3	Dublin South City	234	156.1
CCA4	Dublin South West	282	175.3
CCA5	Dublin West	487	313.5
CCA6	Dublin North West	678	326.5
CCA7	Dublin North Central	432	279.5
CCA8	Dublin North	482	186.0
	Dublin	**3,025**	**224.5**

Excludes 1 case for which CCA is missing

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
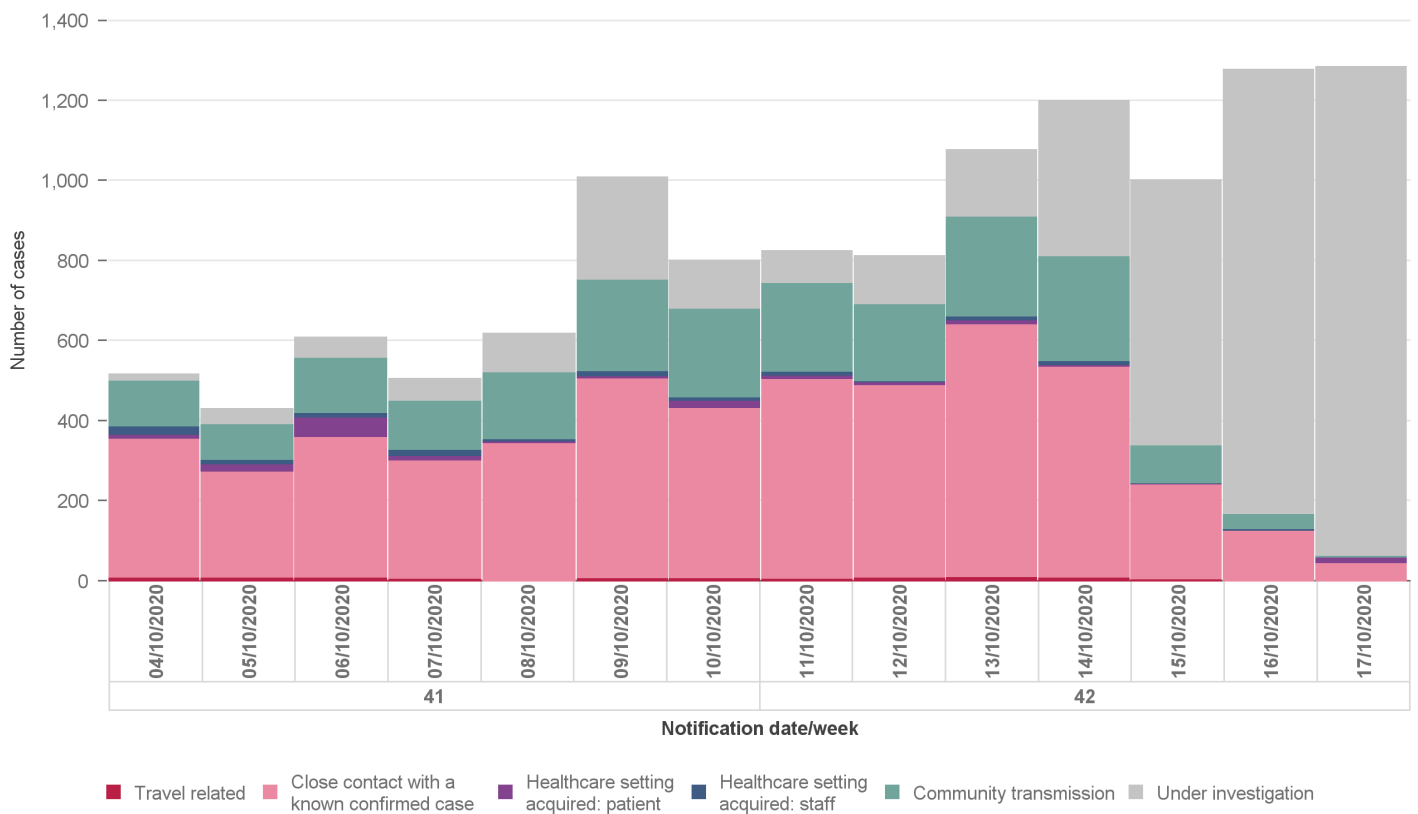

Figure 4: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and most likely transmission source from 04/10/2020 to midnight 17/10/2020
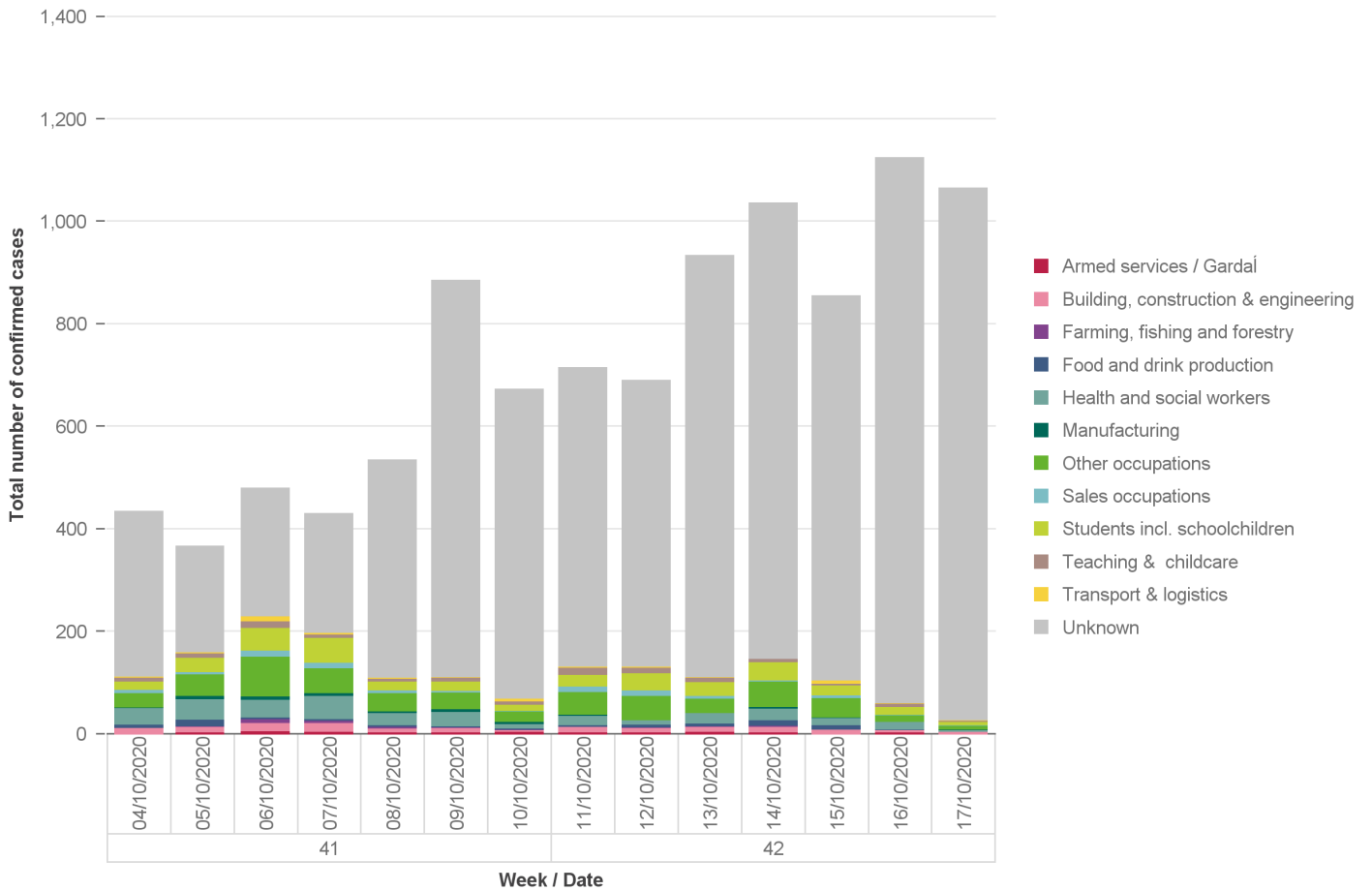
Figure 5: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and occupation* from 04/10/2020 to midnight 17/10/2020

*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

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.