Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 20/10/2020

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 06/10/2020 up to midnight 19/10/2020

	Number	Percent
Total number of confirmed cases	13,299	
National incidence of confirmed cases per 100,000 population	279.28	
Number of cases hospitalised*	315	2.37
Number of cases admitted to ICU*	23	0.17
Number of deaths among confirmed cases	18	0.14
Case fatality ratio (CFR, %)	0.14	
National incidence of confirmed deaths per 100,000 population	0.38	
Number of cases** associated with clusters	3,440	25.87
Number of imported cases	4	0.03
Number of cases in healthcare workers	513	3.86
Males	6,647	49.98
Females	6,638	49.91
M:F ratio	1	
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 06/10/2020 - 19/10/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 14:21 on 20/10/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.
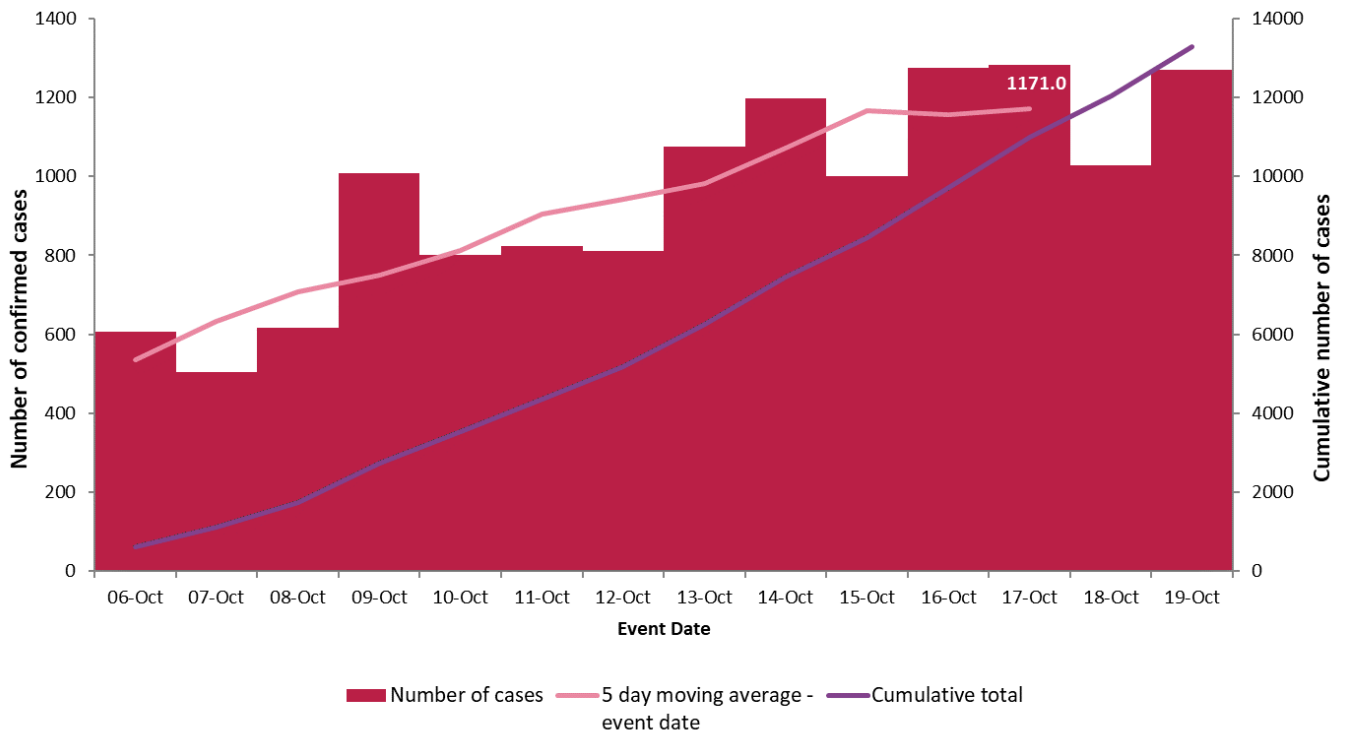
Figure 1. Daily number and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date (n=13,299)

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 06/10/2020 up to midnight on 19/10/202

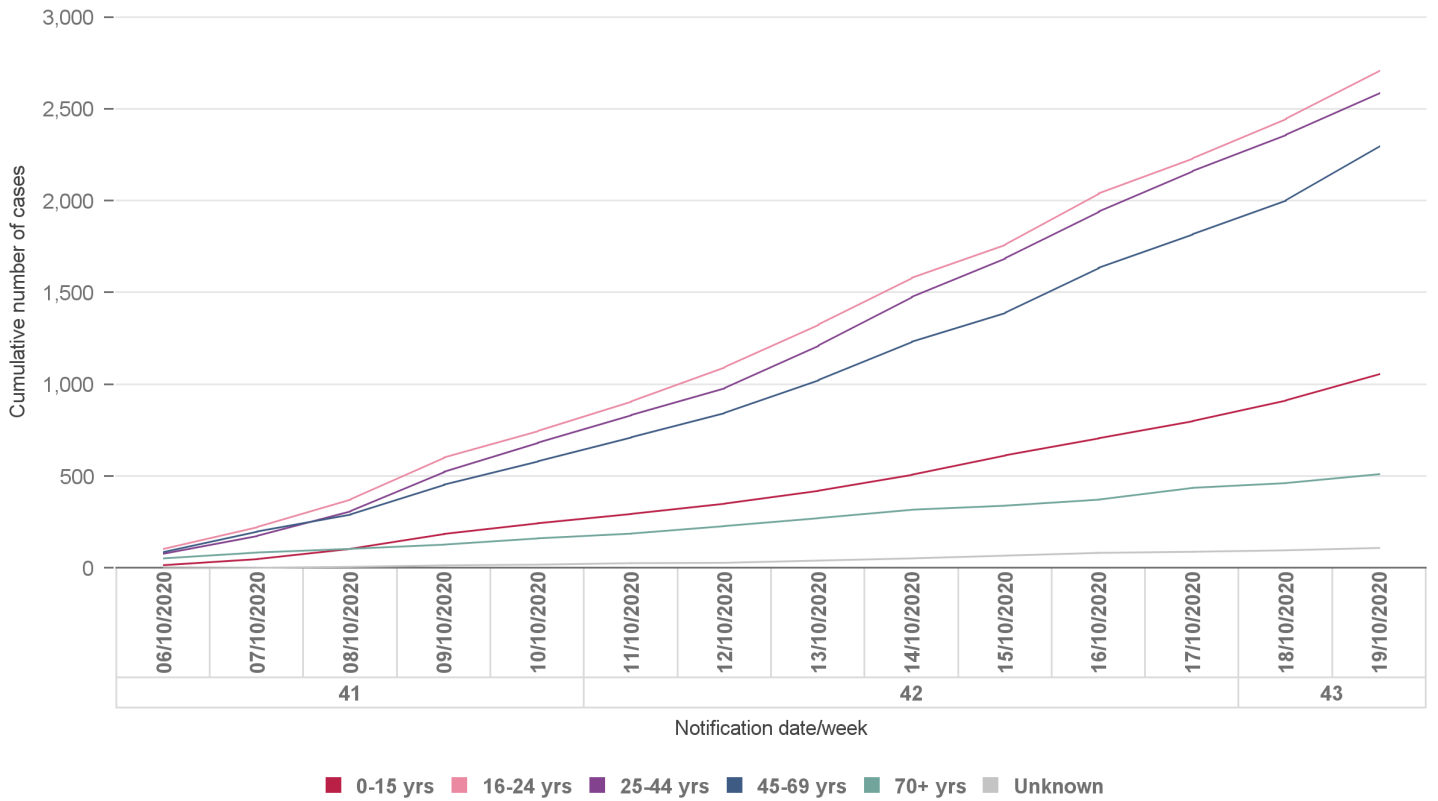| Characteristic		Number of cases	Percent
Total number of confirmed cases		13,299	100
Sex	Male:Female ratio	1	
	Male	6,647	49.98
	Female	6,638	49.91
	Unknown	14	0.11
Age	Median age (years)	31	
	Mean age (years)	35	
	Age range (years)	0 - 102	
	0-4 yrs	407	3.06
	5-14 yrs	1,053	7.92
	15-24 yrs	3,639	27.36
	25-34 yrs	2,225	16.73
	35-44 yrs	1,798	13.52
	45-54 yrs	1,719	12.93
	55-64 yrs	1,343	10.1
	65-74 yrs	617	4.64
	75-84 yrs	310	2.33
	85+ yrs	183	1.38
	Unknown	5	0.04
Underlying clinical conditions	Yes	1,370	10.3
	No	6,657	50.06
	Unknown	5,272	39.64

Figure 2: Cumulative number of confirmed COVID-19 cases notified in Ireland by date/week of notification and age group (years) from 06/10/2020 to midnight 19/10/2020

Table 2: Characteristics of confirmed COVID-19 cases by community healthcare organisation (CHO)*
notified from 06/10/2020 to midnight 19/10/2020

CHO Area	Cases		M:F ratio	Mean age (years)	Healthcare workers		Associated with clusters	
	N	%			N	%	N	%
CHO1	1775	13.3468682	1.007919	35	96	5.408	537	30.25352113
CHO2	1198	9.0081961	0.985075	31	37	3.088	580	48.41402337
CHO3	1000	7.51936236	0.960784	33	17	1.7	204	20.4
CHO4	2112	15.8808933	1.013346	36	68	3.22	661	31.29734848
CHO5	997	7.49680427	1.047228	36	47	4.714	212	21.26379137
CHO6	621	4.66952402	0.887538	36	35	5.636	140	22.54428341
CHO7	1693	12.7302805	0.957126	36	68	4.017	399	23.56763142
CHO8	2199	16.5350778	1.113571	36	58	2.638	321	14.59754434
CHO9	1699	12.7753966	0.941514	35	87	5.121	386	22.71924662
Unknown	5	0.03759681	1.5	19	<5	0	0	0
National	**13299**	**100**	**1.001356**	**35**	**513**	**3.857**	**3440**	**25.86660651**

Table 3: Number of confirmed COVID-19 cases by community healthcare organisation (CHO) notified in Ireland from 06/10/2020 to midnight 19/10/2020

CHO Area	Number of confirmed cases	Incidence per 100,000 population
CHO1	1775	453.6
CHO2	1198	264.4
CHO3	1000	259.7
CHO4	2112	305.8
CHO5	997	195.4
CHO6	621	162.1
CHO7	1692	239.1
CHO8	2199	355.1
CHO9	1700	273.6
Unknown	5	
Total	**13,299**	**279.3**

*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 06/10/2020 to midnight 19/10/2020

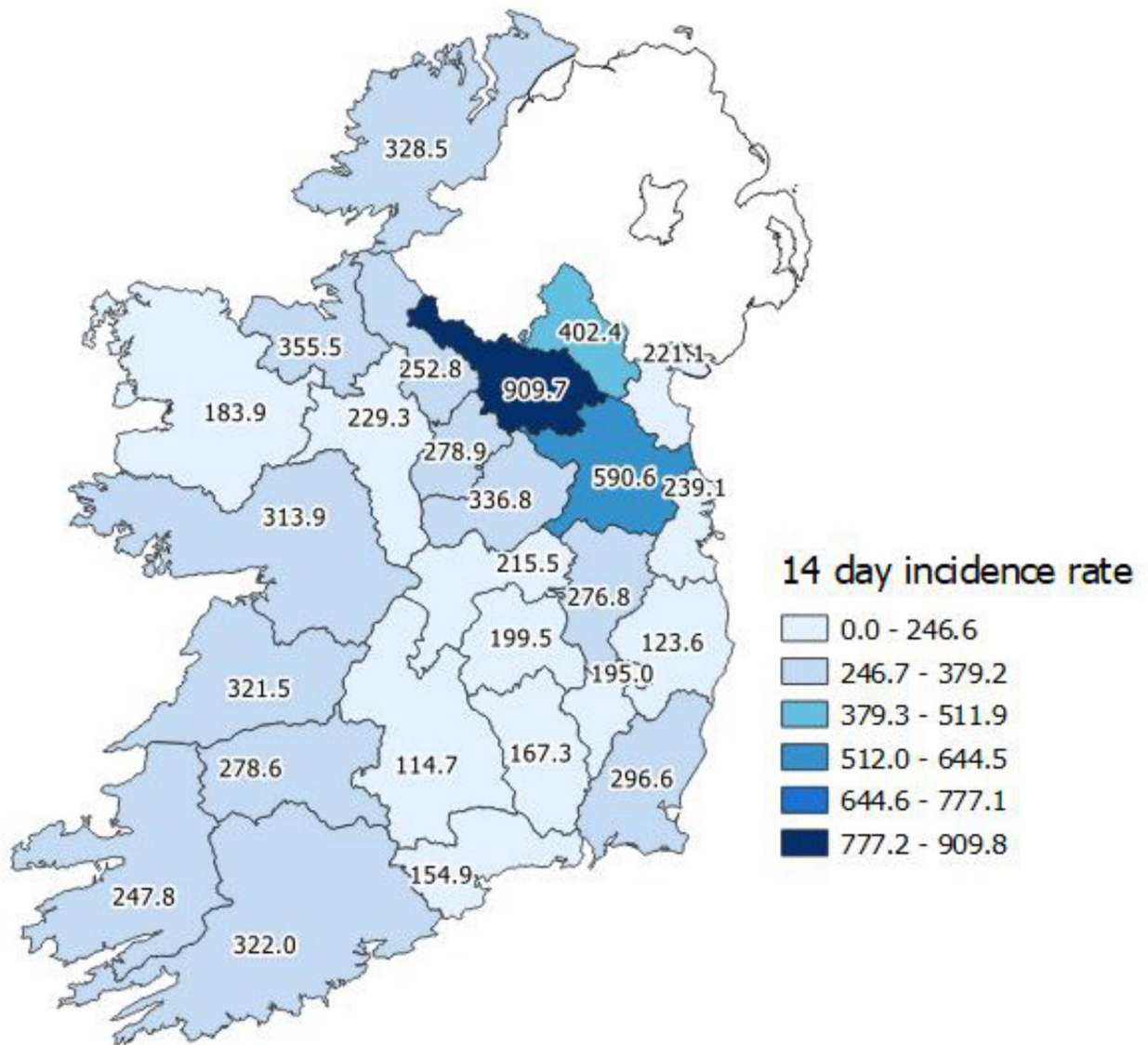| County	Number of confirmed cases	Incidence per 100,000 population
Cavan	693	909.7
Meath	1152	590.6
Monaghan	247	402.4
Sligo	233	355.5
Westmeath	299	336.8
Donegal	523	328.5
Cork	1748	322.0
Clare	382	321.5
Galway	810	313.9
Wexford	444	296.5
Longford	114	278.9
Limerick	543	278.6
Kildare	616	276.8
Leitrim	81	252.8
Kerry	366	247.8
Dublin	3222	239.1
Roscommon	148	229.3
Louth	285	221.1
Offaly	168	215.5
Laois	169	199.5
Carlow	111	195.0
Mayo	240	183.9
Kilkenny	166	167.3
Waterford	180	154.9
Wicklow	176	123.6
Tipperary	183	114.7
Total	**13,299**	**279.3**

Figure 3: Cumulative incidence rates of confirmed COVID-19 cases per 100,000 population, by county, notified in Ireland from 06/10/2020 to midnight 19/10/2020

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 06/10/2020 and 19/10/2020

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	136	99.9
CCA2	Dublin South East	316	255.4
CCA3	Dublin South City	238	158.7
CCA4	Dublin South West	307	190.8
CCA5	Dublin West	524	337.3
CCA6	Dublin North West	738	355.4
CCA7	Dublin North Central	457	295.6
CCA8	Dublin North	505	194.9
	Unknown	1	
	Dublin	**3222**	**239.1**

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 06/10/2020 to midnight 19/10/2020

Most likely transmission source	Number of cases	Percent
Travel related	42	0.32%
Close contact with a known confirmed case	5,150	38.72%
Healthcare setting acquired: patient	139	1.05%
Healthcare setting acquired: staff	101	0.76%
Community transmission	2,254	16.95%
Under investigation	5,613	42.21%
Total	**13,299**	**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
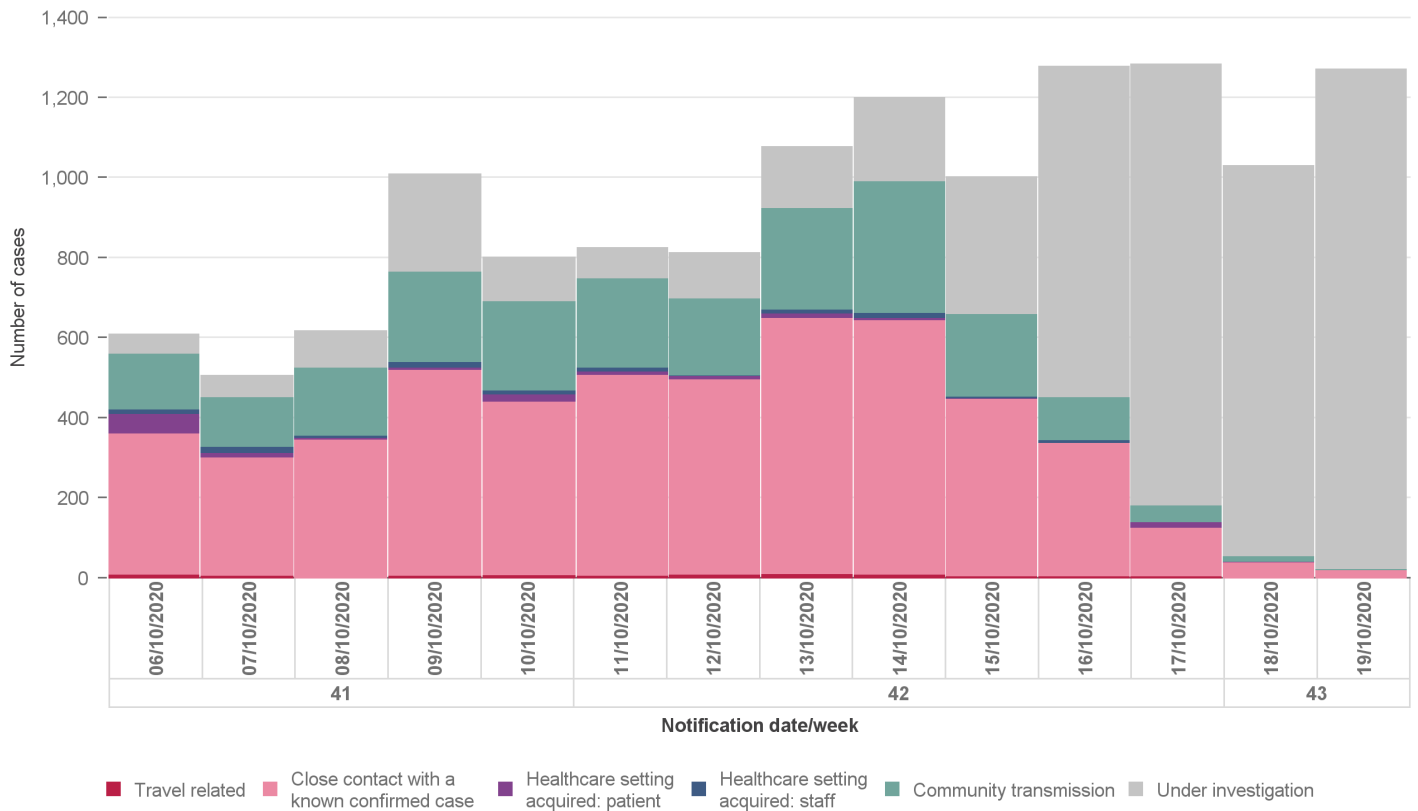

Figure 4: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and most likely transmission source from 06/10/2020 to midnight 19/10/2020
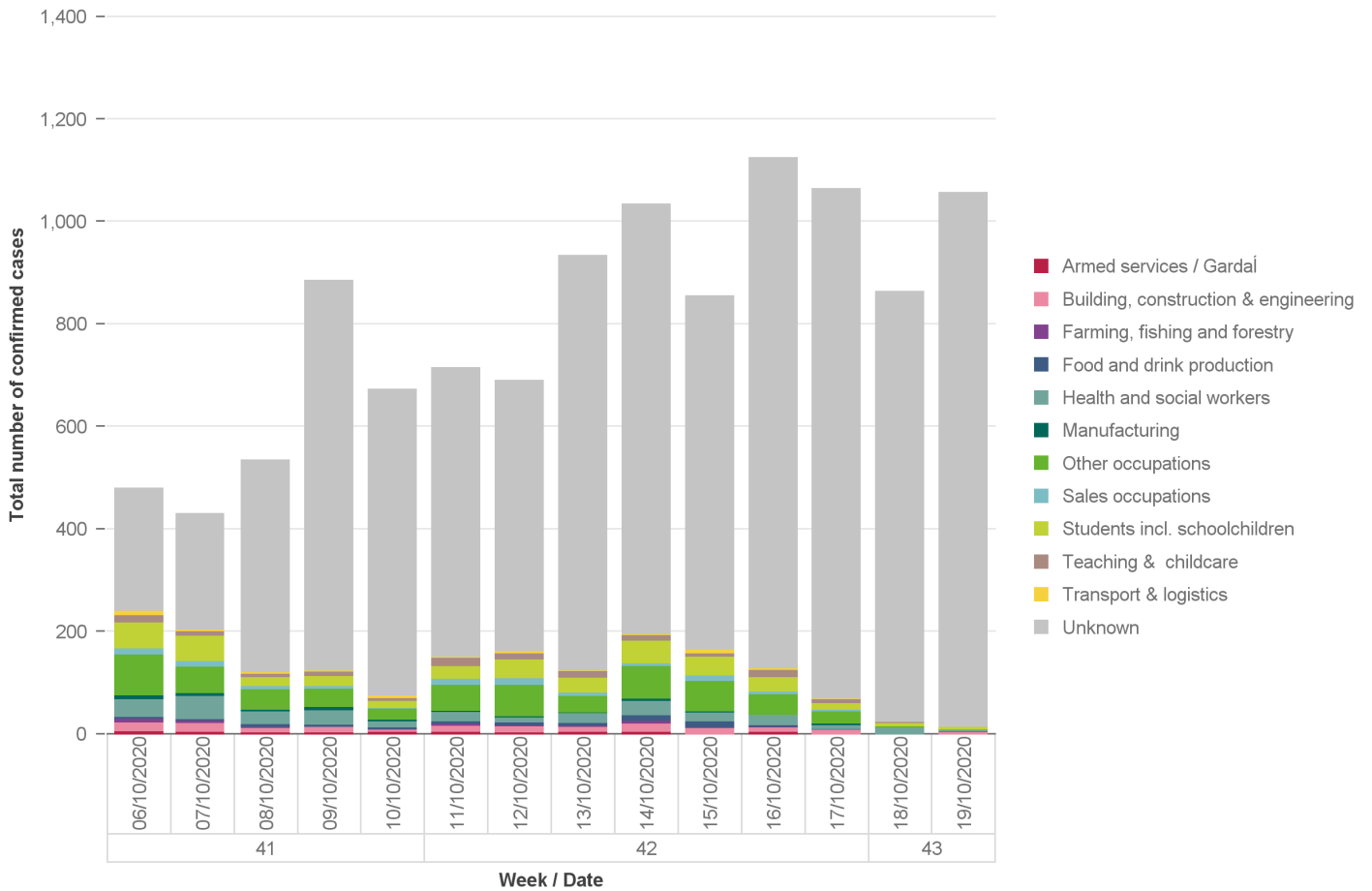
Figure 5: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and occupation* from 06/10/2020 to midnight 19/10/2020

*Among cases aged less than 69 years

Table 7: Cumulative number of confirmed cases of COVID-19 notified in Ireland from 06/10/2020 to midnight 19/10/2020 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	407	8	2.54	0	0
5-14 yrs	1053	7	2.22	1	4.35
15-24 yrs	3639	19	6.03	1	4.35
25-34 yrs	2225	31	9.84	0	0
35-44 yrs	1798	20	6.35	2	8.7
45-54 yrs	1719	26	8.25	1	4.35
55-64 yrs	1343	43	13.65	3	13.04
65-74 yrs	617	48	15.24	11	47.83
75-84 yrs	310	66	20.95	4	17.39
85+ yrs	183	45	14.29	0	0
Unknown	5	2	0.63	0	0
Total	**13,299**	**315**	**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

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 14:21 on 20/10/2020. 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.