Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 12/10/2020

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 28/09/2020 up to midnight 11/10/2020
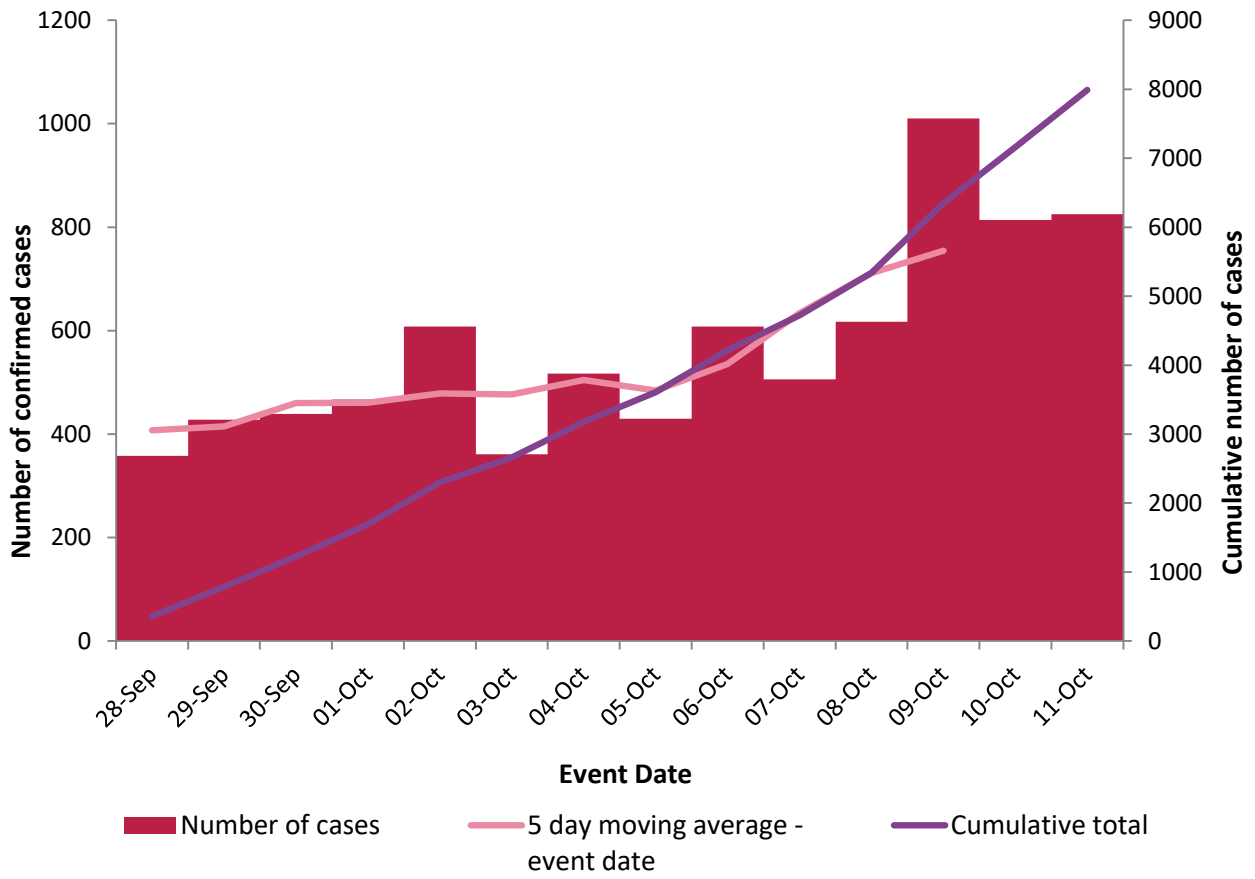
	Number	Percent
Total number of confirmed cases	7,988	
National incidence of confirmed cases per 100,000 population	167.75	
Number of cases symptomatic at time of test	4,917	61.55
Number of cases hospitalised*	232	2.9
Number of cases admitted to ICU*	20	0.25
Number of deaths among confirmed cases	11	0.14
Case fatality ratio (CFR, %)	0.14	
National incidence of confirmed deaths per 100,000 population	0.23	
Number of cases** associated with clusters	2,428	30.4
Number of imported cases	10	0.13
Number of cases in healthcare workers	470	5.88
Males	4,017	50.29
Females	3,951	49.46
M:F ratio	1.02	
Median age (years)	32	
Mean age (years)	36	
Age range (years)	0 - 98	

* The number of cases who display symptoms may be higher as these data are collected at the time of testing and admission to ICU

**Cases may be associated with outbreaks notified outside the timeframe of this report 28/09/2020 - 11/10/2020

**Cases may be associated with outbreaks notified outside the timeframe of this report 28/09/2020 - 11/10/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 13:33 on 12/10/2020 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=7,988)

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 28/09/2020 up to midnight on 11/10/202

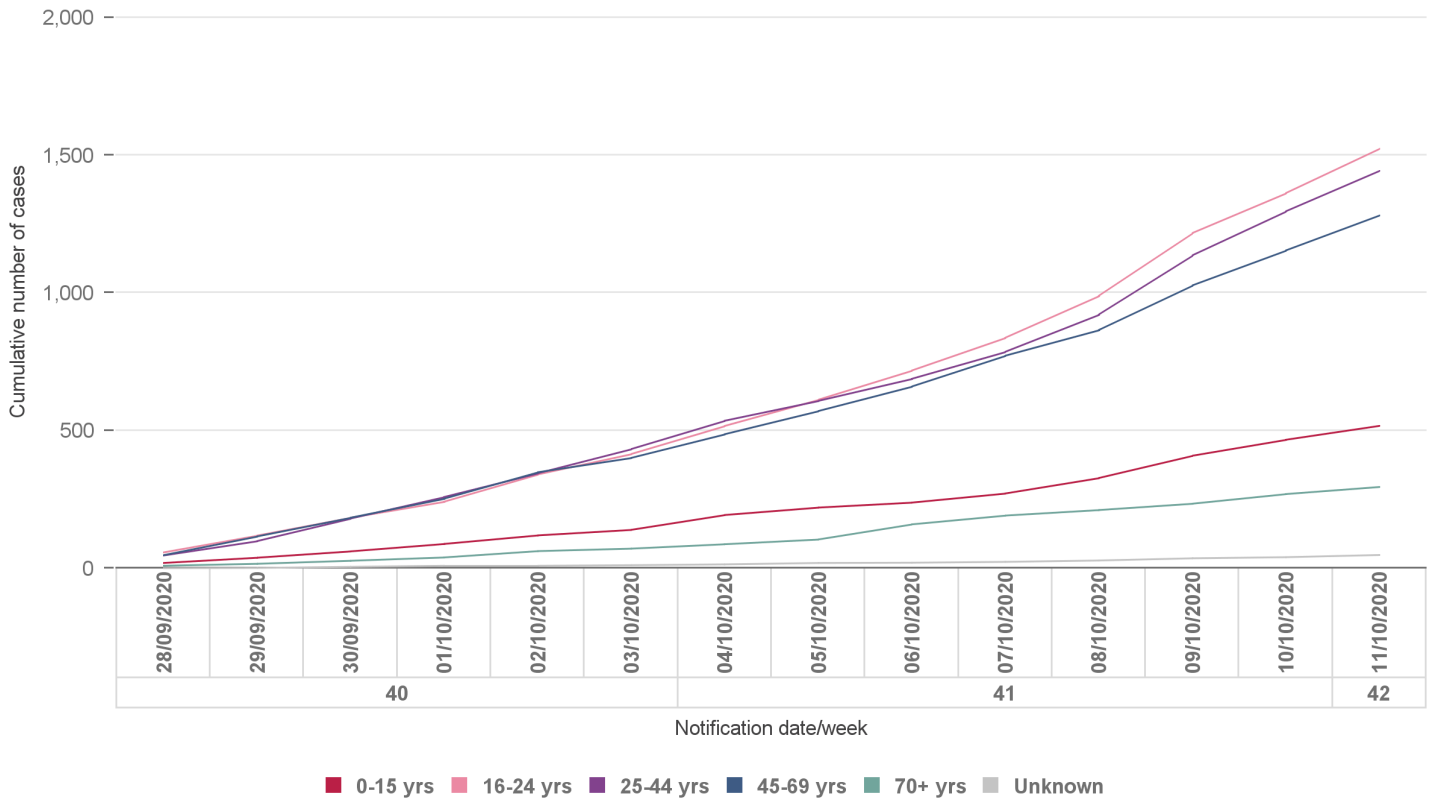| Characteristic		Number of cases	Percent
Total number of confirmed cases		**7,988**	**100**
Sex	Male:Female ratio	1.02	
	Male	4,017	50.29
	Female	3,951	49.46
	Unknown	20	0.25
Age	Median age (years)	32	
	Mean age (years)	36	
	Age range (years)	0 - 98	
	0-4 yrs	221	2.77
	5-14 yrs	523	6.55
	15-24 yrs	2,127	26.63
	25-34 yrs	1,417	17.74
	35-44 yrs	1,125	14.08
	45-54 yrs	1,066	13.35
	55-64 yrs	797	9.98
	65-74 yrs	373	4.67
	75-84 yrs	204	2.55
	85+ yrs	130	1.63
	Unknown	5	0.06
Underlying clinical conditions	Yes	1,342	16.8
	No	4,987	62.43
	Unknown	1,659	20.77
Symptom status at time of test	Yes	4,917	61.55
	No	1,300	16.27
	Unknown	1,771	22.17

Figure 2: Cumulative number of confirmed COVID-19 cases notified in Ireland by date/week of notification and age group (years) from 28/09/2020 to midnight 11/10/2020

Table 2: Characteristics of confirmed COVID-19 cases by community healthcare organisation (CHO)* notified from 28/09/2020 to midnight 11/10/2020

CHO Area	Cases		M:F ratio	Mean age (years)	Healthcare workers		Associated with clusters	
	N	%			N	%	N	%
CHO1	1,217	15.24	1.02	37	90	7.4	500	41.08
CHO2	630	7.89	0.99	32	20	3.17	285	45.24
CHO3	677	8.48	1.06	31	8	1.18	113	16.69
CHO4	1,148	14.37	1.09	35	57	4.97	398	34.67
CHO5	469	5.87	1.1	38	34	7.25	115	24.52
CHO6	511	6.4	0.79	38	39	7.63	152	29.75
CHO7	1,118	14	0.99	38	61	5.46	229	20.48
CHO8	972	12.17	1.2	39	72	7.41	312	32.1
CHO9	1,241	15.54	0.91	36	89	7.17	324	26.11
Unknown	5	0.06	1.5	47	<5	0	0	0
National	**7,988**	**100**	**1.02**	**36**	**470**	**5.88**	**2,428**	**30.4**

Table 3: Number of confirmed COVID-19 cases by community healthcare organisation (CHO)* notified in Ireland from 28/09/2020 to midnight 11/10/2020

CHO Area	Number of confirmed cases	Incidence per 100,000 population
CHO1	1217	311.0
CHO2	630	139.0
CHO3	677	175.8
CHO4	1148	166.2
CHO5	469	91.9
CHO6	511	133.4
CHO7	1118	158.0
CHO8	972	157.0
CHO9	1241	200.4
Unknown	5	
Ireland	**7,988**	**167.7**

*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
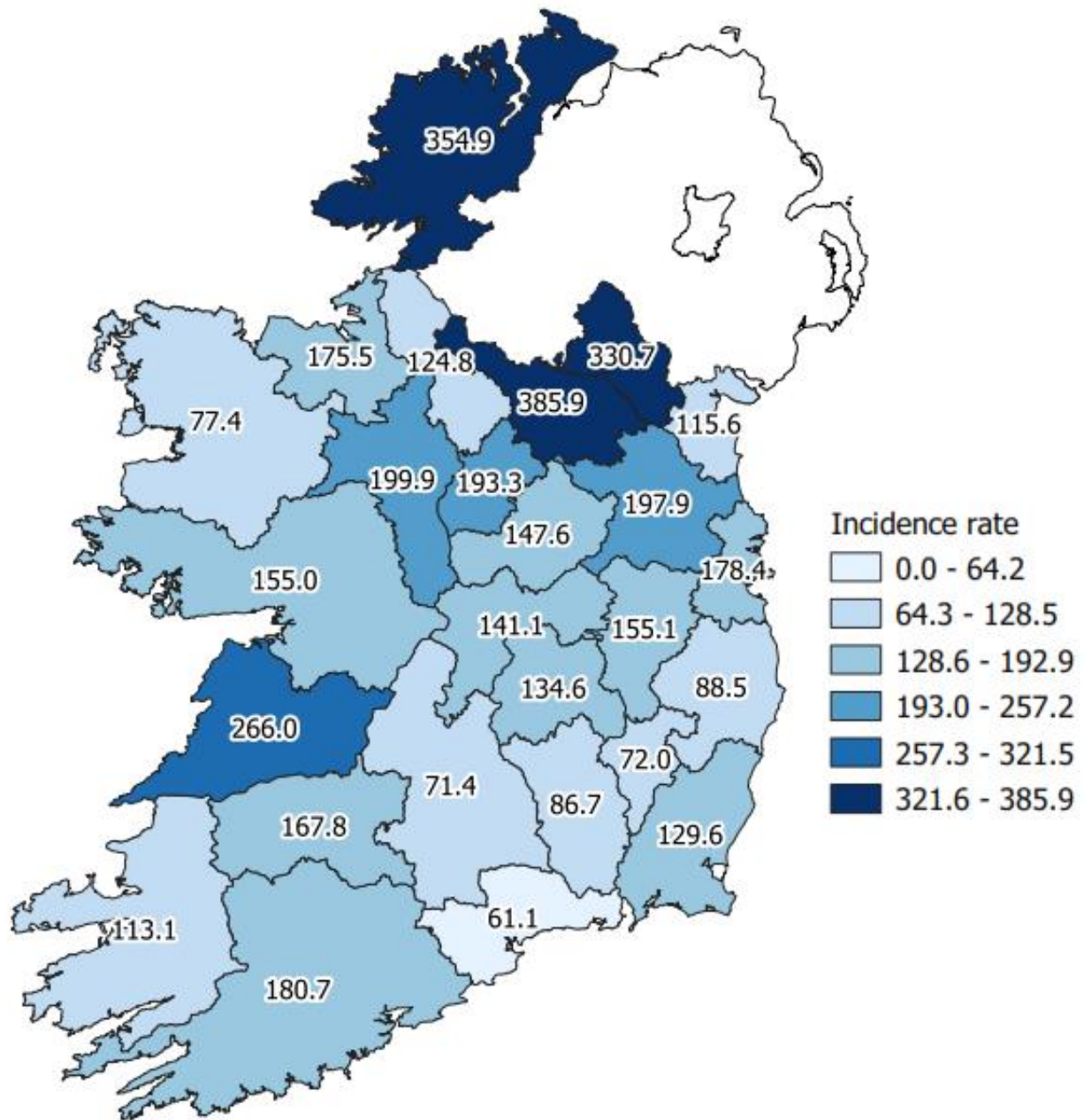CHO6: Dublin South East, Dun Laoghaire, Wicklow
CHO7: Dublin South City, Dublin South West, Dublin West, Kildare/West Wicklow
CHO8: Laois, Longford, Louth, Meath, Offaly, Westmeath
CHO9: Dublin North, Dublin North Central & Dublin North West

Table 4: Number of confirmed COVID-19 cases by county notified in Ireland from 28/09/2020 to midnight 11/10/2020

County	Number of confirmed cases	Incidence per 100,000 population
Carlow	41	72.0
Cavan	294	385.9
Clare	316	266.0
Cork	981	180.7
Donegal	565	354.9
Dublin	2404	178.4
Galway	400	155.0
Kerry	167	113.1
Kildare	345	155.1
Kilkenny	86	86.7
Laois	114	134.6
Leitrim	40	124.8
Limerick	327	167.8
Longford	79	193.3
Louth	149	115.6
Mayo	101	77.4
Meath	386	197.9
Monaghan	203	330.7
Offaly	110	141.1
Roscommon	129	199.9
Sligo	115	175.5
Tipperary	114	71.4
Waterford	71	61.1
Westmeath	131	147.6
Wexford	194	129.6
Wicklow	126	88.5
Ireland	**7,988**	**167.7**

Figure 3: Cumulative incidence rates of confirmed cases of COVID-19 per 100,000 population, by county, notified in Ireland between 28/09/2020 and midnight 11/10/2020

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 in Ireland with a notification date between 28/09/2020 and 11/10/2020

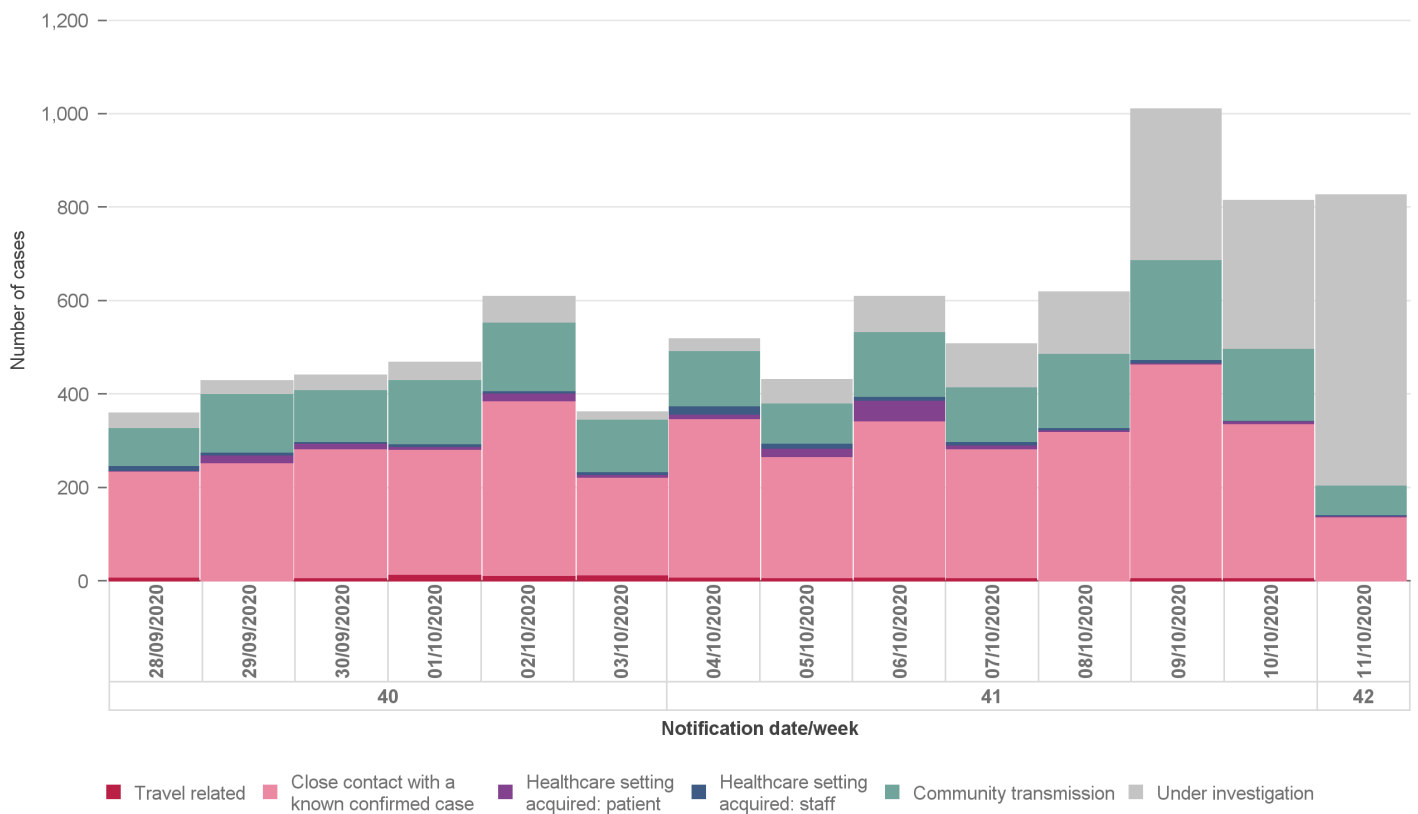| CCA	Local Health Office	Number of cases in past 14 days based on event date	14 day incidence rates based on event dates
CCA1	Dublin South	122	89.7
CCA2	Dublin South East	272	219.9
CCA3	Dublin South City	183	122.1
CCA4	Dublin South West	237	147.3
CCA5	Dublin West	344	221.4
CCA6	Dublin North West	495	238.4
CCA7	Dublin North Central	382	247.1
CCA8	Dublin North	364	140.5
Unknown		5	
	Dublin	**2,404**	**178.4**

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.
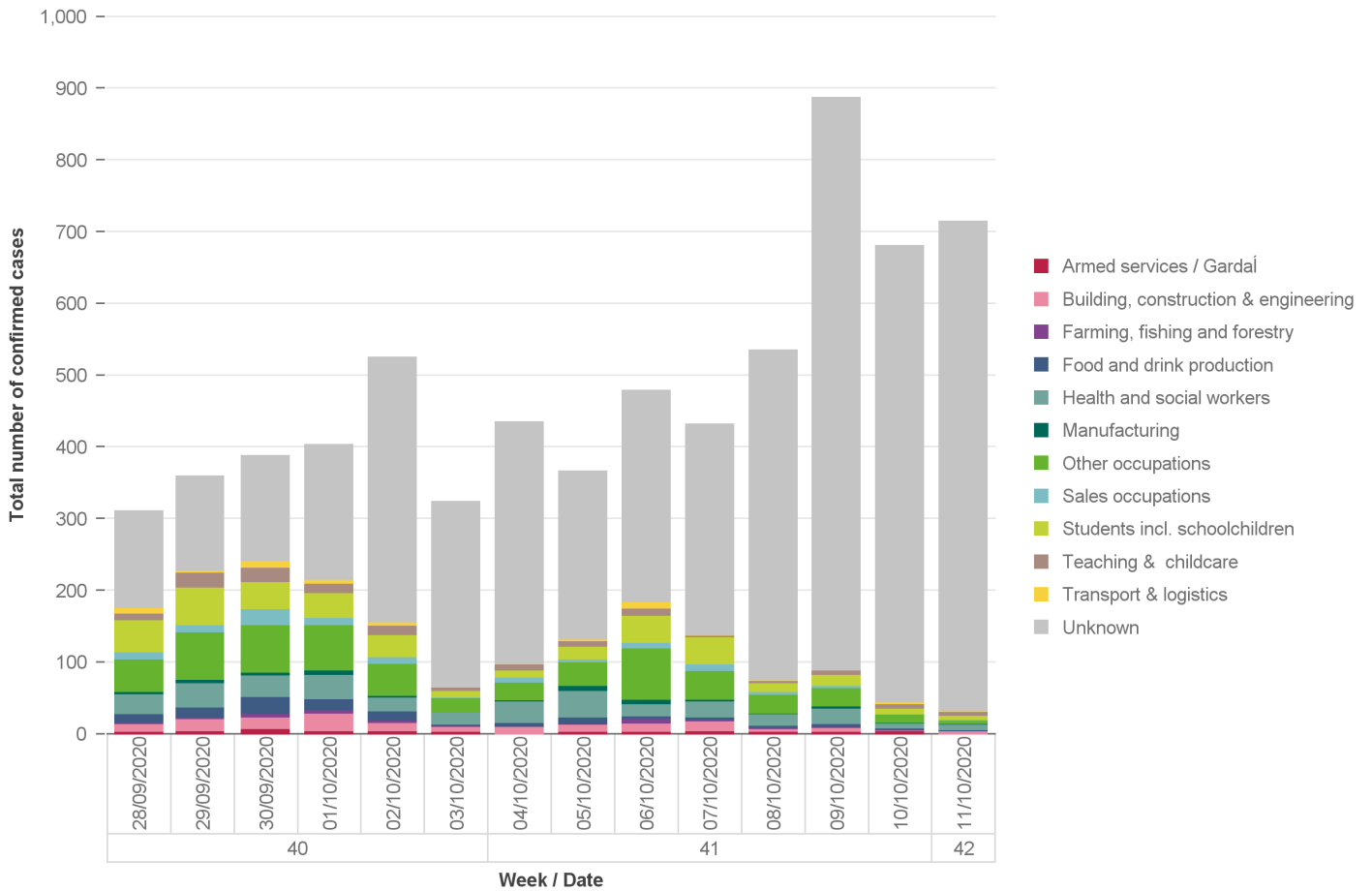
Table 6: Number of confirmed COVID-19 cases by most likely transmission source notified from 28/09/2020 to midnight 11/10/2020

Most likely transmission source	Number of cases	Percent
Travel related	64	0.80%
Close contact with a known confirmed case	4,047	50.66%
Healthcare setting acquired: patient	152	1.90%
Healthcare setting acquired: staff	99	1.24%
Community transmission	1,763	22.07%
Under investigation	1,863	23.32%
Total	**7,988**	**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 28/09/2020 to midnight 11/10/2020

Figure 5: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and occupation* from 28/09/2020 to midnight 11/10/2020

 *Among cases aged 16-69 years

Table 7: Cumulative number of confirmed cases of COVID-19 notified in Ireland from 28/09/2020 to midnight 11/10/2020 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	221	8	3.45	0	0
5-14 yrs	523	11	4.74	0	0
15-24 yrs	2127	16	6.9	0	0
25-34 yrs	1417	24	10.34	0	0
35-44 yrs	1125	16	6.9	2	10
45-54 yrs	1066	15	6.47	0	0
55-64 yrs	797	32	13.79	6	30
65-74 yrs	373	36	15.52	9	45
75-84 yrs	204	45	19.4	3	15
85+ yrs	130	28	12.07	0	0
Unknown	5	1	0.43	0	0
Total	**7,988**	**232**	**100**	**20**	**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 13:33 on 12/10/2020. 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 date, which is the earliest of onset date, date of diagnosis, laboratory specimen collection date, laboratory received date, laboratory reported date, 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.