Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 19/10/2020
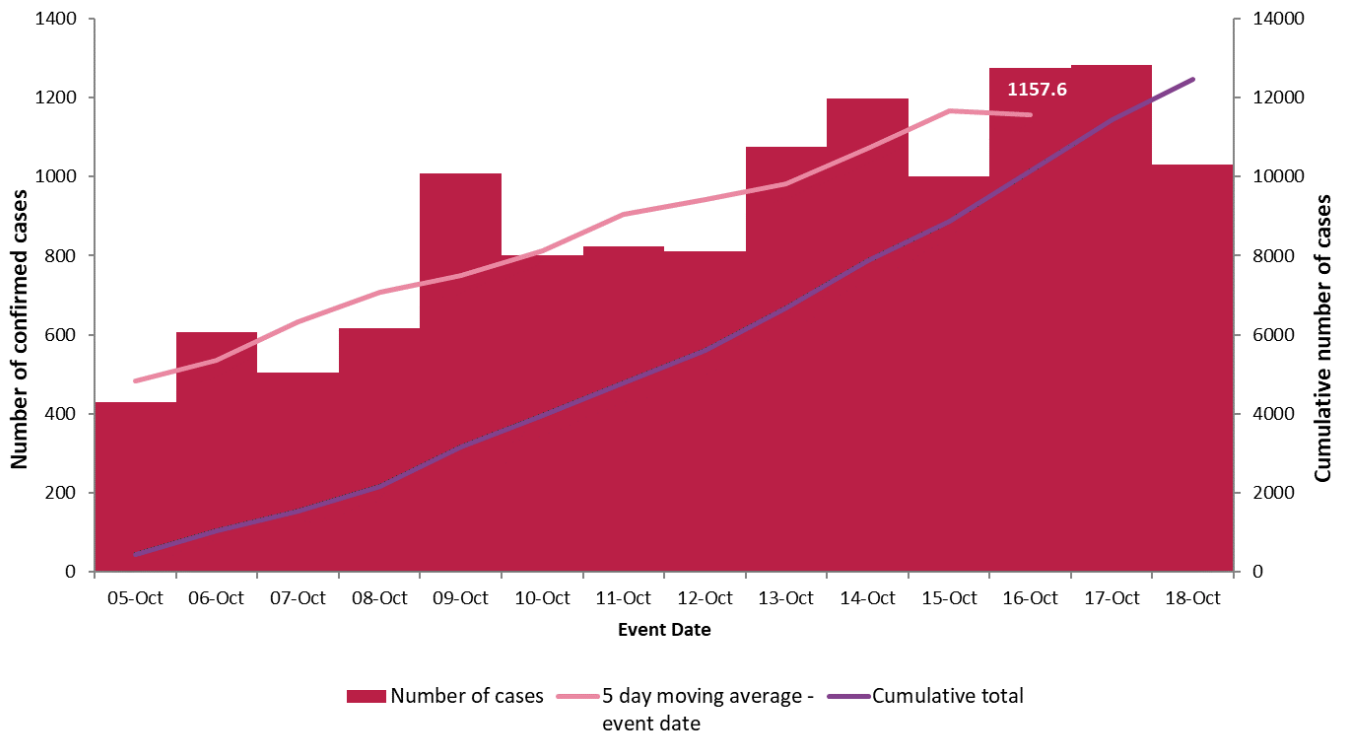
Summary characteristics of confirmed COVID-19 cases notified in Ireland from 05/10/2020 up to midnight 18/10/2020

	Number	Percent
Total number of confirmed cases	12,464	
National incidence of confirmed cases per 100,000 population	261.75	
Number of cases hospitalised*	304	2.44
Number of cases admitted to ICU*	24	0.19
Number of deaths among confirmed cases	15	0.12
Case fatality ratio (CFR, %)	0.12	
National incidence of confirmed deaths per 100,000 population	0.32	
Number of cases** associated with clusters	3,023	24.25
Number of imported cases	3	0.02
Number of cases in healthcare workers	511	4.1
Males	6,256	50.19
Females	6,194	49.7
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 05/10/2020 - 18/10/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 10:04 on 19/10/2020 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=12,464)

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 05/10/2020 up to midnight on 18/10/202

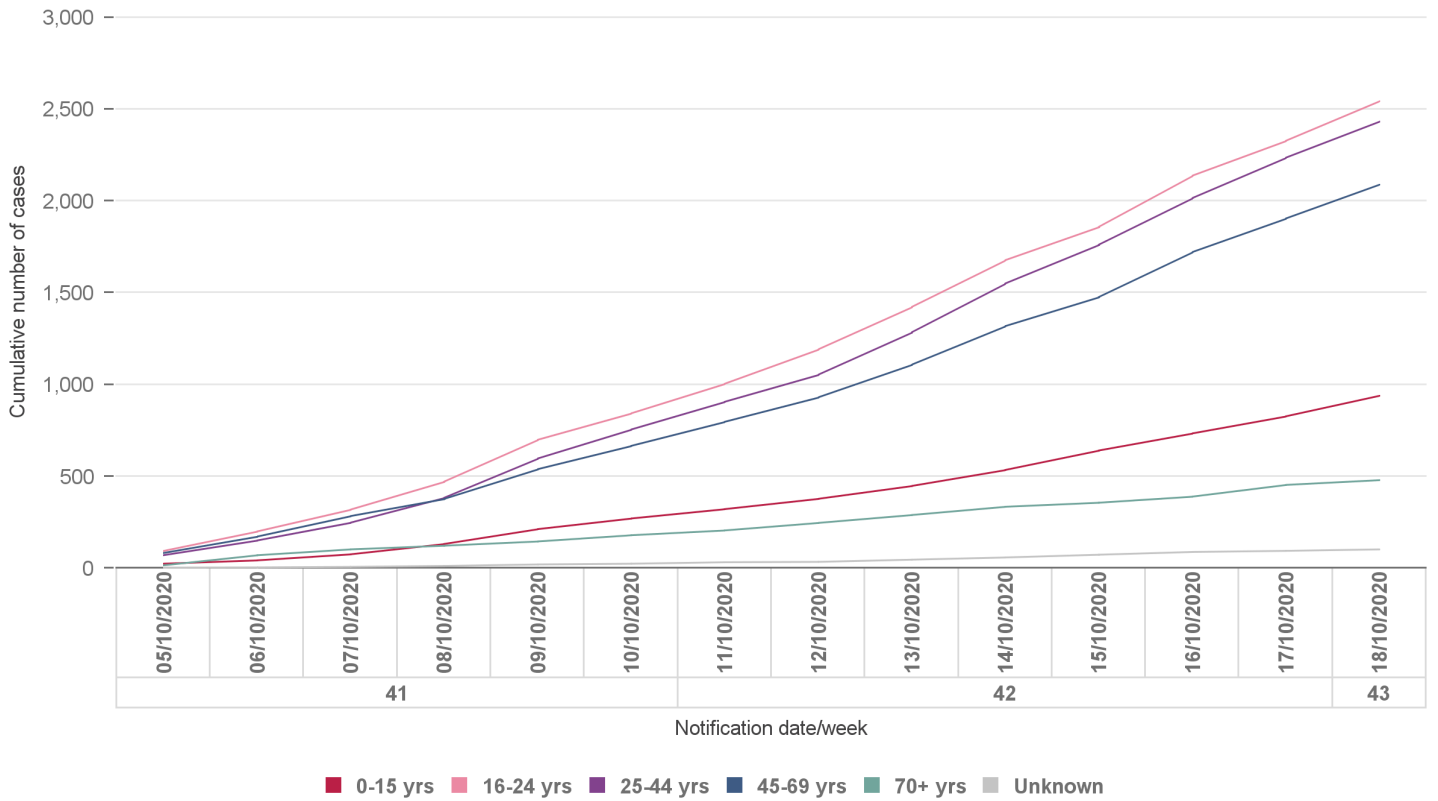| Characteristic		Number of cases	Percent
Total number of confirmed cases		**12,464**	**100**
Sex	Male:Female ratio	1.01	
	Male	6,256	50.19
	Female	6,194	49.7
	Unknown	14	0.11
Age	Median age (years)	31	
	Mean age (years)	35	
	Age range (years)	0 - 102	
	0-4 yrs	365	2.93
	5-14 yrs	972	7.8
	15-24 yrs	3,438	27.58
	25-34 yrs	2,126	17.06
	35-44 yrs	1,695	13.6
	45-54 yrs	1,609	12.91
	55-64 yrs	1,230	9.87
	65-74 yrs	567	4.55
	75-84 yrs	285	2.29
	85+ yrs	173	1.39
	Unknown	4	0.03
Underlying clinical conditions	Yes	1,416	11.36
	No	6,285	50.43
	Unknown	4,763	38.21

Figure 2: Cumulative number of confirmed COVID-19 cases notified in Ireland by date/week of notification and age group (years) from 05/10/2020 to midnight 18/10/2020

Table 2: Characteristics of confirmed COVID-19 cases by community healthcare organisation (CHO)*
notified from 05/10/2020 to midnight 18/10/2020

CHO Area	Cases		M:F ratio	Mean age (years)	Healthcare workers		Associated with clusters	
	N	%			N	%	N	%
CHO1	1,697	13.62	0.98	36	91	5.36	527	31.05
CHO2	1,111	8.91	0.98	31	36	3.24	519	46.71
CHO3	942	7.56	0.98	33	14	1.49	182	19.32
CHO4	2,029	16.28	1.04	36	70	3.45	627	30.9
CHO5	927	7.44	1.08	36	51	5.5	221	23.84
CHO6	613	4.92	0.87	36	39	6.36	147	23.98
CHO7	1,599	12.83	0.99	35	68	4.25	151	9.44
CHO8	1,889	15.16	1.18	36	52	2.75	296	15.67
CHO9	1,652	13.25	0.91	35	90	5.45	353	21.37
Unknown	5	0.04	0.67	38	<5	0	0	0
National	**12,464**	**100**	**1.01**	**35**	**511**	**4.1**	**3,023**	**24.25**

Table 3: Number of confirmed COVID-19 cases by community healthcare organisation (CHO)
*** notified in Ireland from 05/10/2020 to midnight 18/10/2020**

CHO Area	Number of confirmed cases	Incidence per 100,000 population
CHO1	1697	433.7
CHO2	1111	245.2
CHO3	942	244.7
CHO4	2029	293.8
CHO5	927	181.6
CHO6	613	160.0
CHO7	1599	225.9
CHO8	1889	305.0
CHO9	1652	265.8
Unknown	5	
Ireland	12,464	261.7

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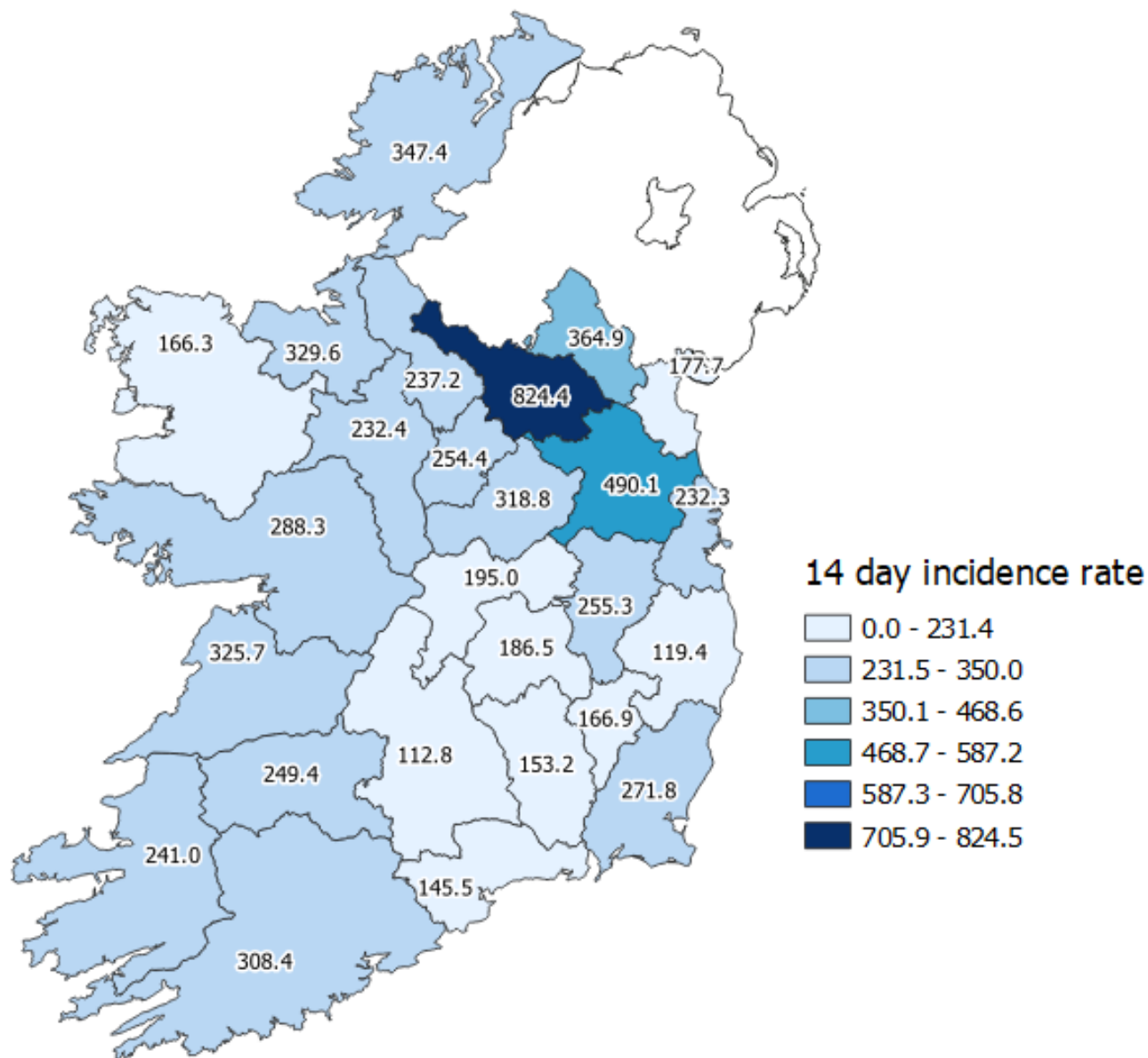CHO6: Dublin South East, Dun Laoghaire, Wicklow
CHO7: Dublin South City, Dublin South West, Dublin West, Kildare/West Wicklow
CHO8: Laois, Longford, Louth, Meath, Offaly, Westmeath
CHO9: Dublin North, Dublin North Central & Dublin North West

Table 4: Number of confirmed COVID-19 cases by county notified in Ireland from 05/10/2020 to midnight 18/10/2020

County	Number of confirmed cases	Incidence per 100,000 population
Cavan	628	824.4
Meath	956	490.1
Monaghan	224	364.9
Donegal	553	347.4
Sligo	216	329.6
Clare	387	325.7
Westmeath	283	318.8
Cork	1674	308.4
Galway	744	288.3
Wexford	407	271.8
Kildare	568	255.3
Longford	104	254.4
Limerick	486	249.4
Kerry	356	241.0
Leitrim	76	237.2
Roscommon	150	232.4
Dublin	3130	232.3
Offaly	152	195.0
Laois	158	186.5
Louth	229	177.7
Carlow	95	166.9
Mayo	217	166.3
Kilkenny	152	153.2
Waterford	169	145.5
Wicklow	170	119.4
Tipperary	180	112.8
Ireland	12,464	261.7

14 day incidence rate

☐	0.0 - 231.4
☐	231.5 - 350.0
☐	350.1 - 468.6
☐	468.7 - 587.2
☐	587.3 - 705.8
■	705.9 - 824.5

Figure 3: Cumulative incidence rates of confirmed COVID-19 cases per 100,000 population, by county, notified in Ireland from 05/10/2020 to midnight 18/10/2020

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 from 05/10/2020 to midnight 18/10/2020

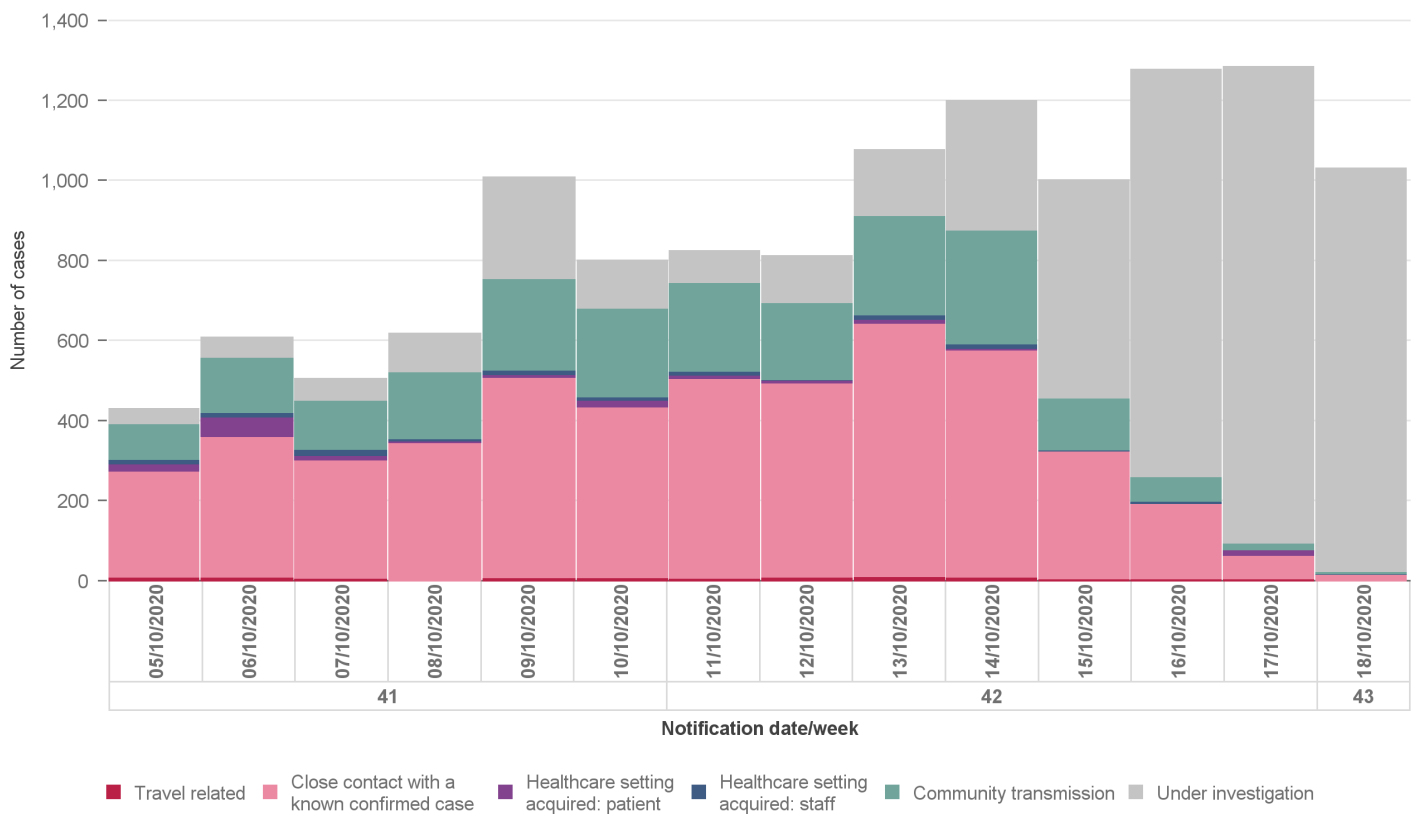| CCA	Local Health Office	Number of cases in past 14 days based on epi date	14 day incidence rates based on epi dates
CCA1	Dublin South	140	102.9
CCA2	Dublin South East	310	250.6
CCA3	Dublin South City	232	154.7
CCA4	Dublin South West	295	183.3
CCA5	Dublin West	497	319.9
CCA6	Dublin North West	711	342.4
CCA7	Dublin North Central	450	291.1
CCA8	Dublin North	491	189.5
	Unknown	4	
	Dublin	**3,130**	**232.3**

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.
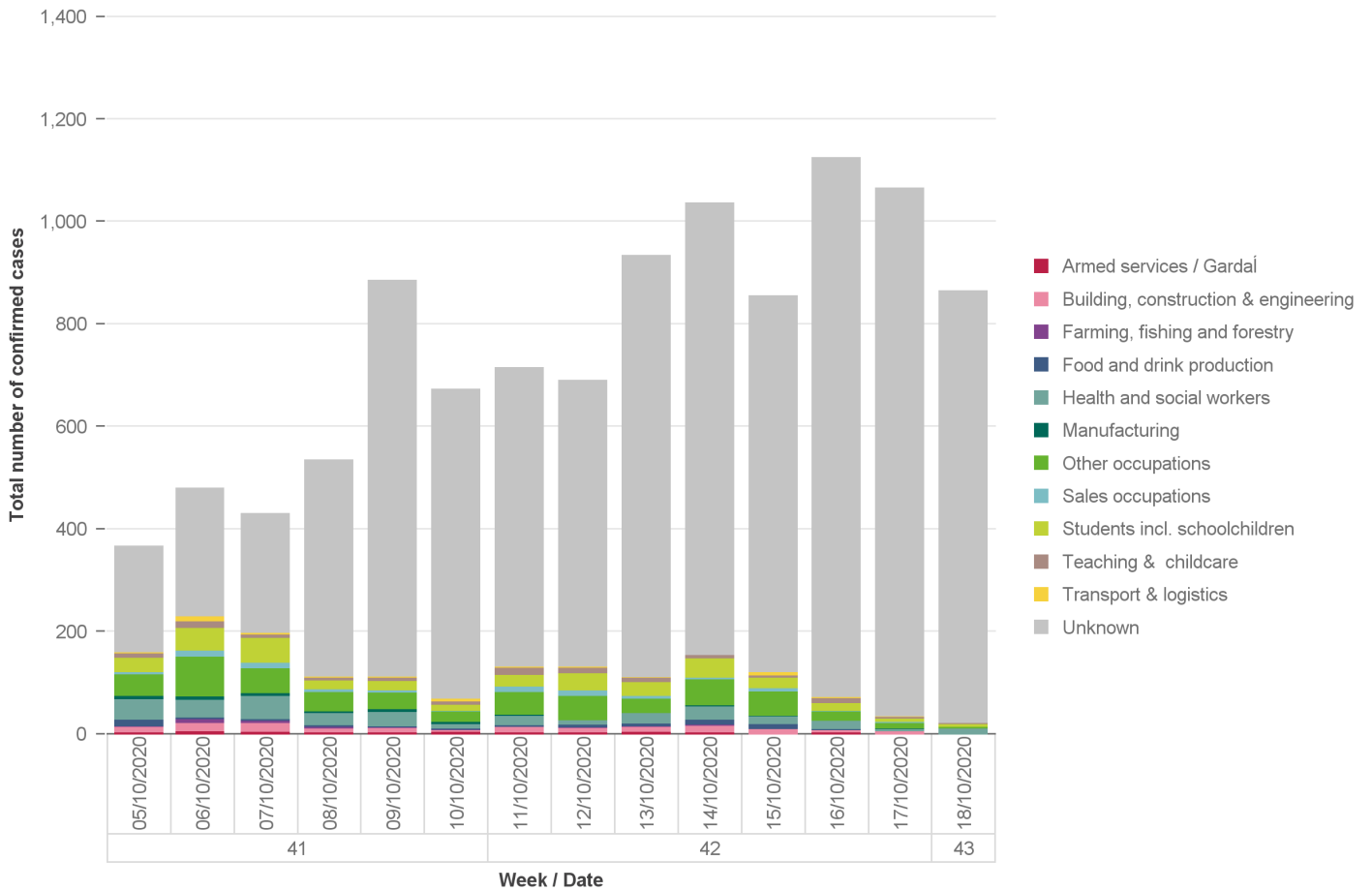
Table 6: Number of confirmed COVID-19 cases by most likely transmission source notified from 05/10/2020 to midnight 18/10/2020

Most likely transmission source	Number of cases	Percent
Travel related	47	0.38%
Close contact with a known confirmed case	4,941	39.64%
Healthcare setting acquired: patient	152	1.22%
Healthcare setting acquired: staff	103	0.83%
Community transmission	2,131	17.10%
Under investigation	5,090	40.84%
Total	**12,464**	**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 05/10/2020 to midnight 18/10/2020

Figure 5: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and occupation* from 05/10/2020 to midnight 18/10/2020

*Among cases aged 16-69 years

Table 7: Cumulative number of confirmed cases of COVID-19 notified in Ireland from 05/10/2020 to midnight 18/10/2020 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	365	7	2.3	0	0
5-14 yrs	972	5	1.64	1	4.17
15-24 yrs	3438	18	5.92	1	4.17
25-34 yrs	2126	31	10.2	0	0
35-44 yrs	1695	20	6.58	2	8.33
45-54 yrs	1609	22	7.24	0	0
55-64 yrs	1230	48	15.79	6	25
65-74 yrs	567	45	14.8	11	45.83
75-84 yrs	285	63	20.72	3	12.5
85+ yrs	173	44	14.47	0	0
Unknown	4	1	0.33	0	0
Total	**12,464**	**304**	**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 10:04 on 19/10/2020. 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.