



Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 13/10/2020

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 29/09/2020 up to midnight 12/10/2020

	Number	Percent
Total number of confirmed cases	8,442	
National incidence of confirmed cases per 100,000 population	177.28	
Number of cases symptomatic at time of test	5,266	62.38
Number of cases hospitalised*	245	2.9
Number of cases admitted to ICU*	22	0.26
Number of deaths among confirmed cases	12	0.14
Case fatality ratio (CFR, %)	0.14	
National incidence of confirmed deaths per 100,000 population	0.25	
Number of cases** associated with clusters	2,696	31.94
Number of imported cases	9	0.11
Number of cases in healthcare workers	485	5.75
Males	4,270	50.58
Females	4,157	49.24
M:F ratio	1.03	
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 29/09/2020 - 12/10/2020

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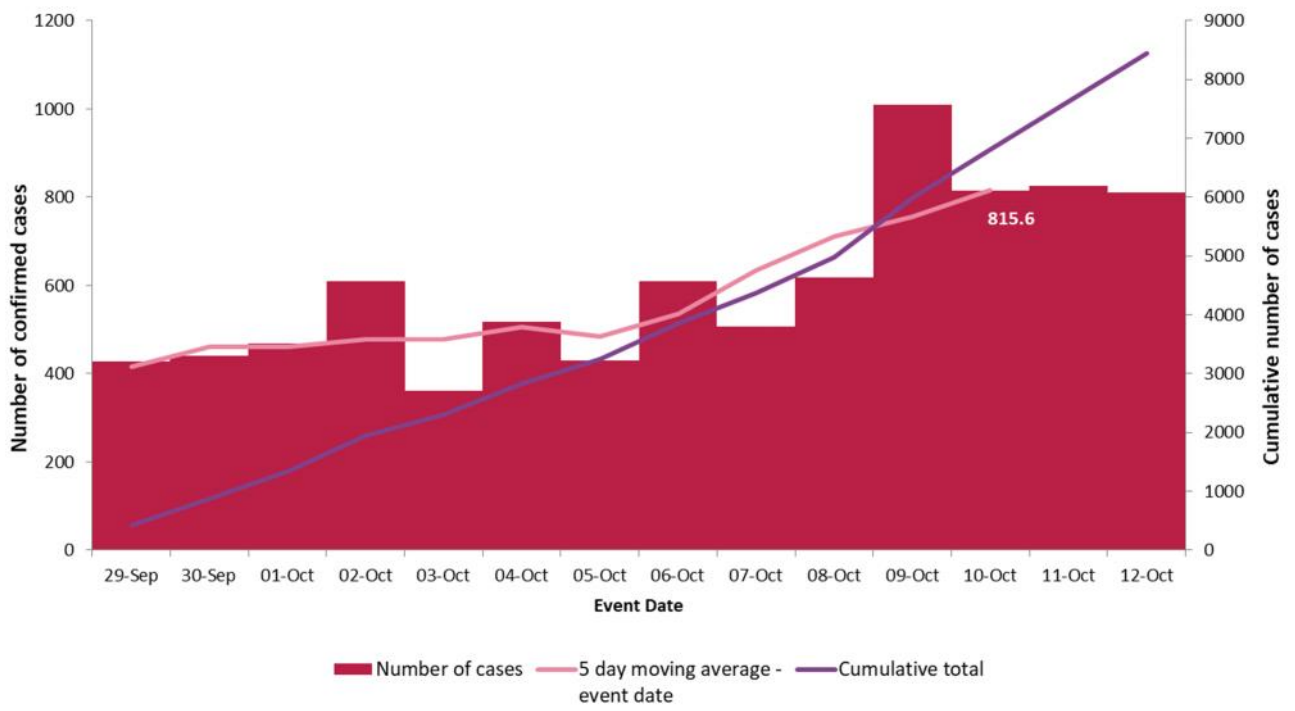


Figure 1. Daily number and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date (n=8,442)

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 29/09/2020 up to midnight on 12/10/202

Characteristic		Number of cases	Percent
Total number of confirmed cases		8,442	100
Sex	Male:Female ratio	1.03	
	Male	4,270	50.58
	Female	4,157	49.24
	Unknown	15	0.18
Age	Median age (years)	32	
	Mean age (years)	36	
	Age range (years)	0 - 98	
	0-4 yrs	232	2.75
	5-14 yrs	564	6.68
	15-24 yrs	2,277	26.97
	25-34 yrs	1,507	17.85
	35-44 yrs	1,167	13.82
	45-54 yrs	1,110	13.15
	55-64 yrs	835	9.89
	65-74 yrs	388	4.6
	75-84 yrs	219	2.59
	85+ yrs	138	1.63
	Unknown	5	0.06
Underlying clinical conditions	Yes	1,389	16.45
	No	5,381	63.74
	Unknown	1,672	19.81
Symptom status at time of test	Yes	5,266	62.38
	No	1,373	16.26
	Unknown	1,803	21.36

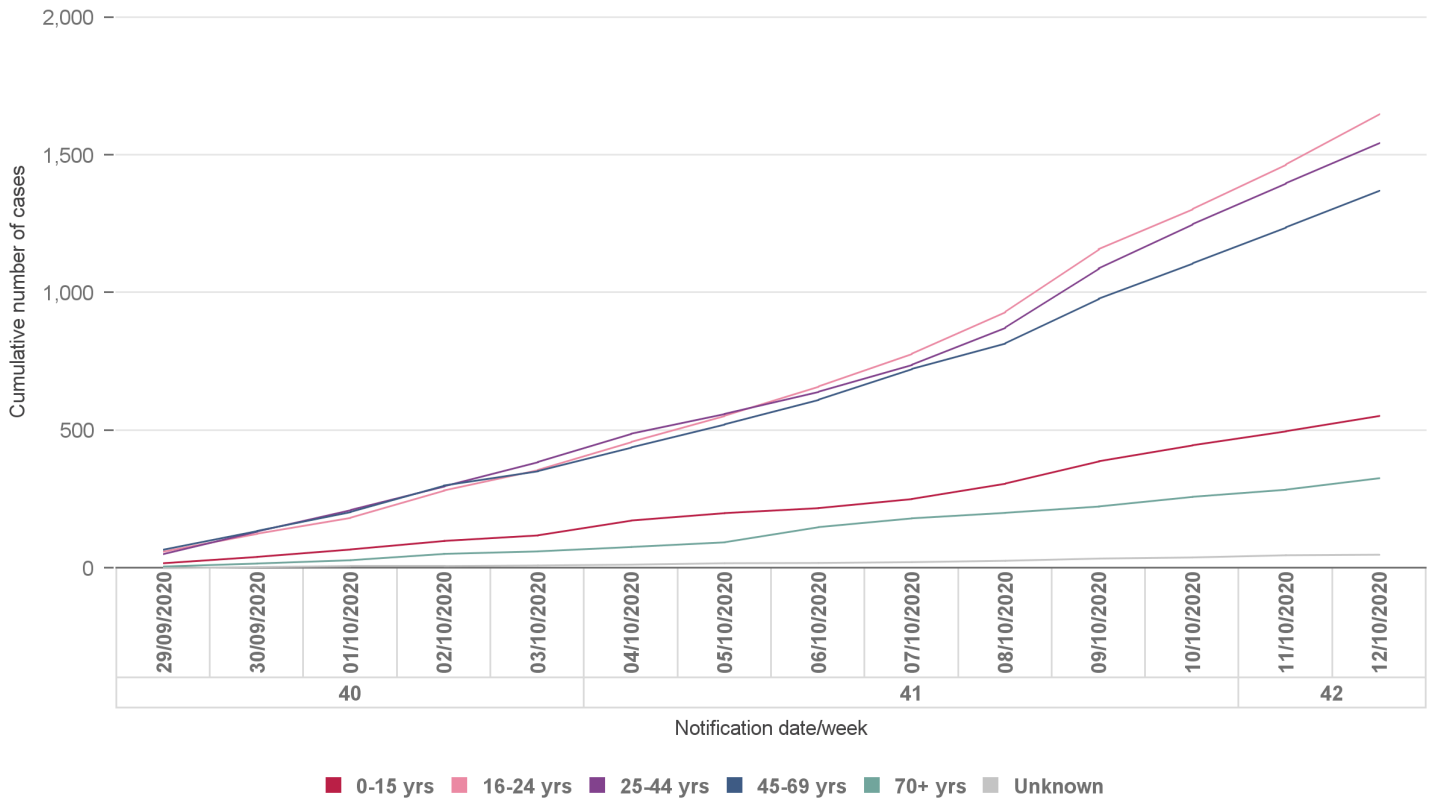


Figure 2: Cumulative number of confirmed COVID-19 cases notified in Ireland by date/week of notification and age group (years) from 29/09/2020 to midnight 12/10/2020

Table 2: Characteristics of confirmed COVID-19 cases by community healthcare organisation (CHO)* notified from 29/09/2020 to midnight 12/10/2020

CHO Area	Cases		M:F ratio	Mean age (years)	Healthcare workers		Associated with clusters	
	N	%			N	%	N	%
CHO1	1238	14.66	1.01	37	96	7.75	534	43.13
CHO2	650	7.70	1.02	32	20	3.08	327	50.31
CHO3	752	8.91	1.04	31	13	1.73	195	25.93
CHO4	1295	15.34	1.10	35	62	4.79	464	35.83
CHO5	543	6.43	1.17	38	31	5.71	139	25.60
CHO6	502	5.95	0.79	38	36	7.17	146	29.08
CHO7	1168	13.84	1.01	37	60	5.14	200	17.12
CHO8	1021	12.09	1.22	39	72	7.05	322	31.54
CHO9	1273	15.08	0.91	36	95	7.46	369	28.99
National	8442	100	1.03	36	485	5.75	2696	31.94

Table 3: Number of confirmed COVID-19 cases by community healthcare organisation (CHO)* notified in Ireland from 29/09/2020 to midnight 12/10/2020

CHO Area	Number of confirmed cases	Incidence per 100,000 population
CHO1	1238	316.4
CHO2	650	143.5
CHO3	752	195.3
CHO4	1295	187.5
CHO5	543	106.4
CHO6	502	131.0
CHO7	1168	165.0
CHO8	1021	164.9
CHO9	1273	204.9
Ireland	8,442	177.3

*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 29/09/2020 to midnight 12/10/2020

County	Number of confirmed cases	Incidence per 100,000 population
Cavan	314	412.2
Donegal	565	354.9
Monaghan	192	312.8
Clare	360	303.0
Meath	417	213.8
Cork	1081	199.1
Longford	80	195.7
Sligo	123	187.7
Limerick	357	183.2
Roscommon	118	182.8
Dublin	2438	180.9
Kildare	374	168.1
Galway	427	165.5
Wexford	240	160.3
Westmeath	141	158.8
Offaly	114	146.2
Kerry	214	144.9
Laois	118	139.3
Leitrim	44	137.3
Louth	148	114.8
Kilkenny	97	97.8
Wicklow	131	92.0
Mayo	105	80.5
Tipperary	124	77.7
Carlow	43	75.5
Waterford	77	66.3
Ireland	8,442	177.3

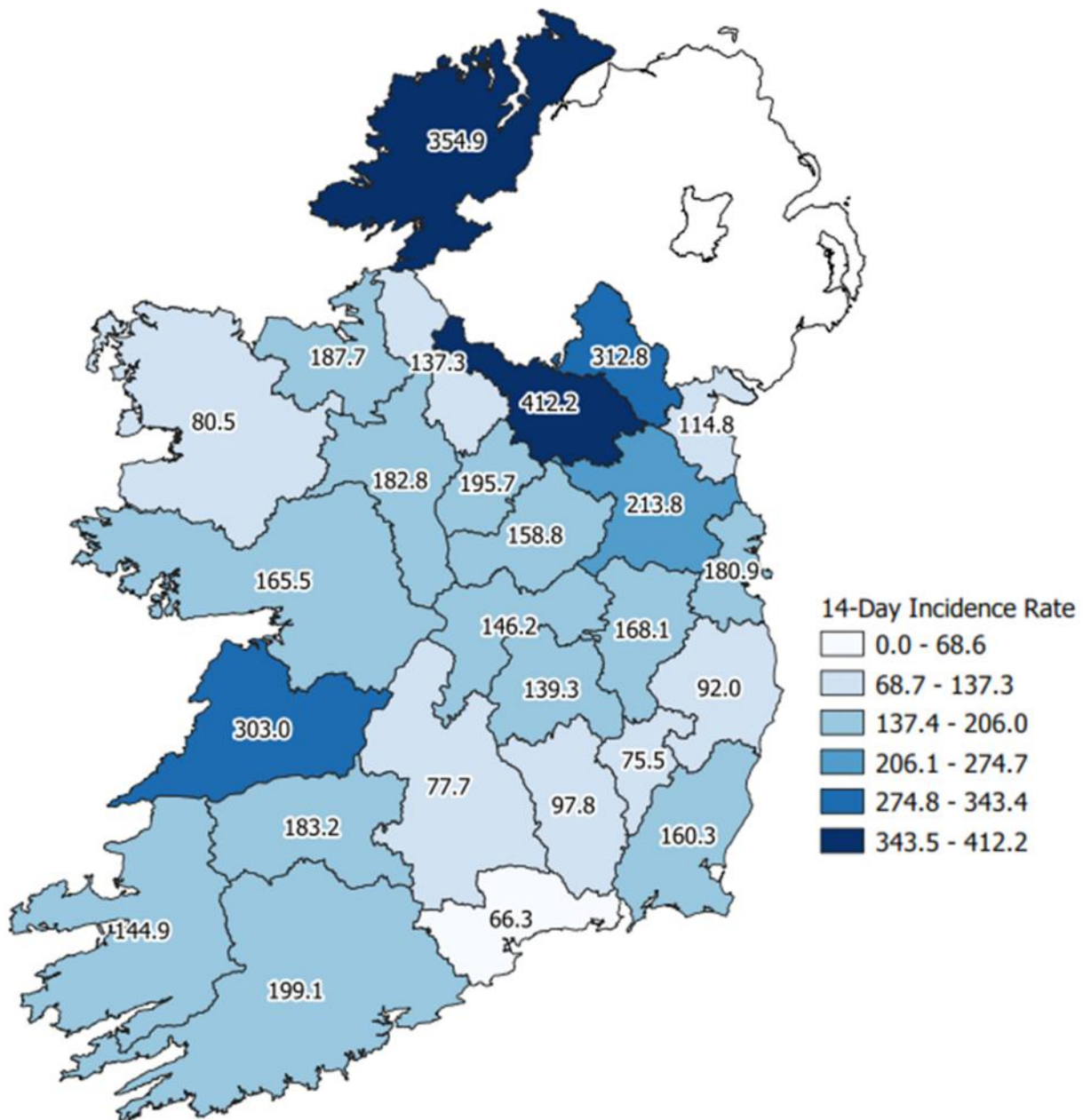


Figure 3: Cumulative incidence rates of confirmed cases of COVID-19 per 100,000 population, by county, notified in Ireland between 29/09/2020 and midnight 12/10/2020

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 29/09/2020 and 12/10/2020

CCA	Local Health Office	Number of cases in past 14 days based on event date	14 day incidence rates based on event dates	Population (2016 Census)
CCA1	Dublin South	118	86.7	136,074
CCA2	Dublin South East	265	214.2	123,704
CCA3	Dublin South City	183	122.1	149,935
CCA4	Dublin South West	235	146.1	160,898
CCA5	Dublin West	364	234.3	155,343
CCA6	Dublin North West	514	247.5	207,670
CCA7	Dublin North Central	385	249.1	154,583
CCA8	Dublin North	374	144.3	259,152
Unknown		0		
	Dublin	2438	180.9	1,347,359

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 29/09/2020 to midnight 12/10/2020

Most likely transmission source	Number of cases	Percent
Travel related	61	0.72%
Close contact with a known confirmed case	4,347	51.49%
Healthcare setting acquired: patient	170	2.01%
Healthcare setting acquired: staff	106	1.26%
Community transmission	1,887	22.35%
Under investigation	1,871	22.16%
Total	8,442	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

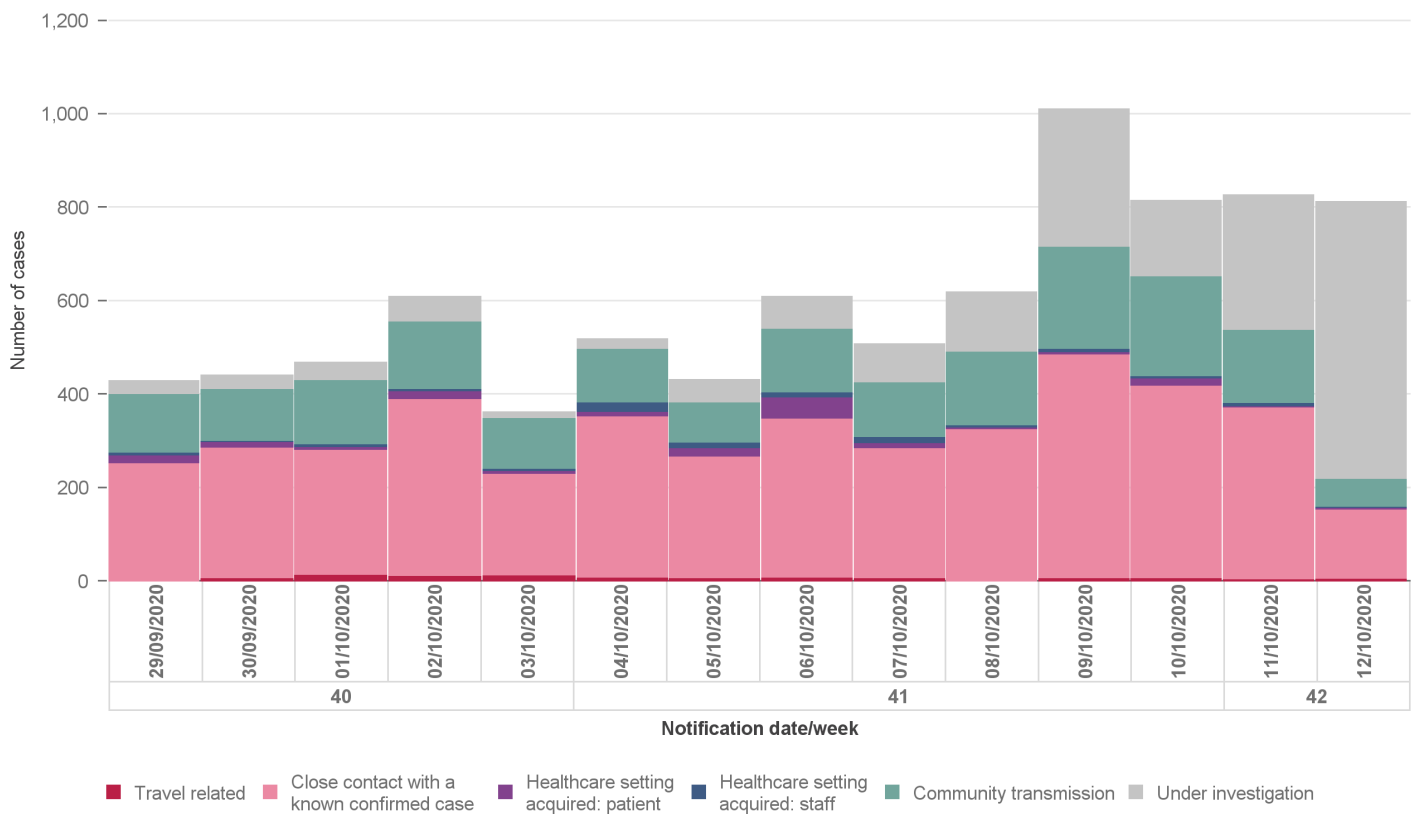


Figure 4: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and most likely transmission source from 29/09/2020 to midnight 12/10/2020

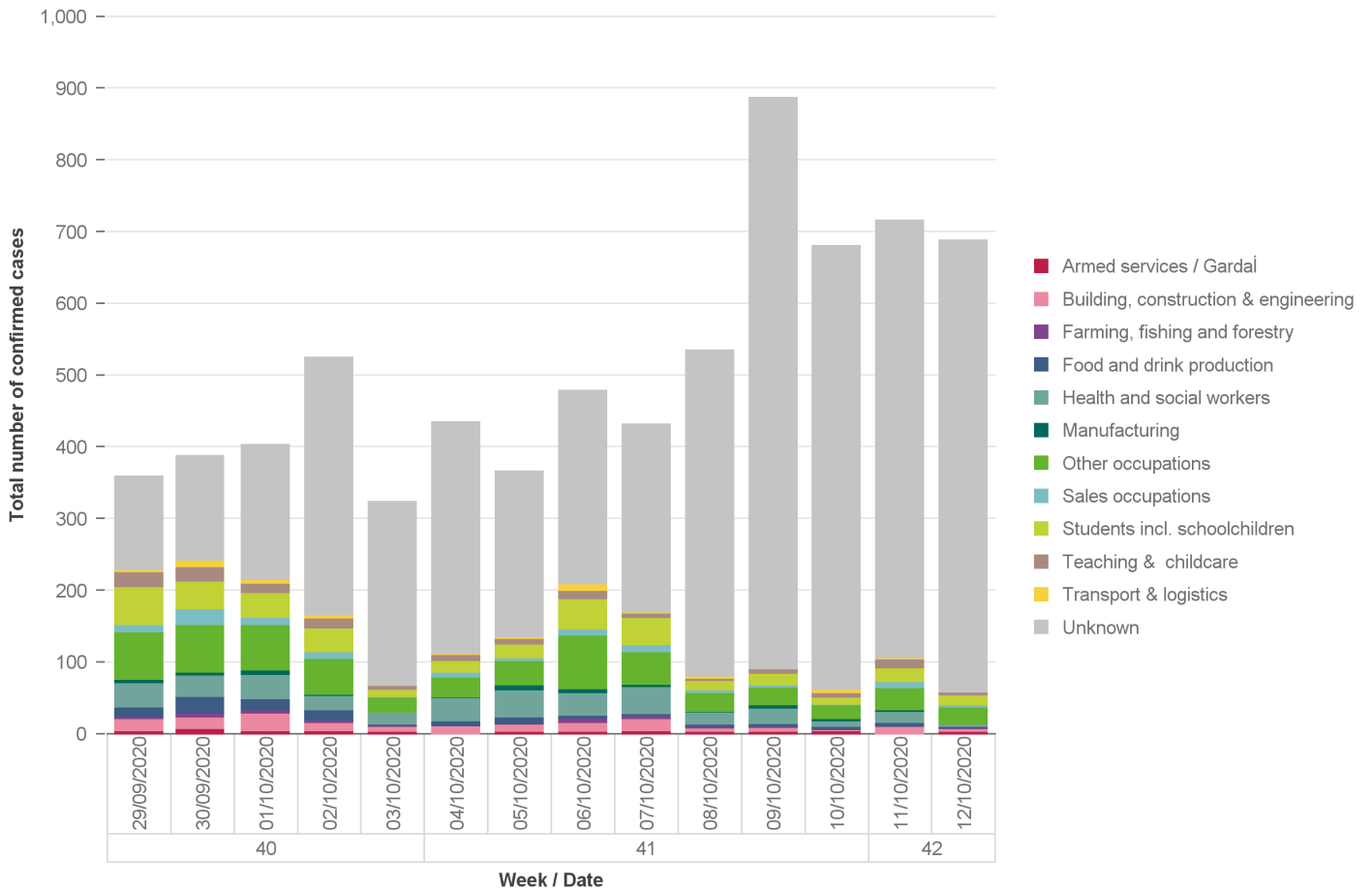


Figure 5: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and occupation* from 29/09/2020 to midnight 12/10/2020

*Among cases aged 16-69 years

Table 7: Cumulative number of confirmed cases of COVID-19 notified in Ireland from 29/09/2020 to midnight 12/10/2020 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	232	8	3.27	0	0
5-14 yrs	564	10	4.08	0	0
15-24 yrs	2277	17	6.94	0	0
25-34 yrs	1507	26	10.61	0	0
35-44 yrs	1167	16	6.53	3	13.64
45-54 yrs	1110	16	6.53	0	0
55-64 yrs	835	35	14.29	6	27.27
65-74 yrs	388	36	14.69	9	40.91
75-84 yrs	219	51	20.82	4	18.18
85+ yrs	138	29	11.84	0	0
Unknown	5	1	0.41	0	0
Total	8,442	245	100	22	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 13:46 on 13/10/2020. 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.