



Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 24/09/2020

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 10/09/2020 up to midnight 23/09/2020

	Number	Percent
Total number of confirmed cases	3,643	
National incidence of confirmed cases per 100,000 population	76.5	
Number of cases hospitalised*	114	3.13
Number of cases admitted to ICU*	13	0.36
Number of deaths among confirmed cases	7	0.19
Case fatality ratio (CFR, %)	0.19	
National incidence of confirmed deaths per 100,000 population	0.15	
Number of cases** associated with clusters	2,024	55.56
Number of imported cases	28	0.77
Number of cases in healthcare workers	246	6.75
Males	1,799	49.38
Females	1,841	50.54
M:F ratio	0.98	
Median age (years)	33	
Mean age (years)	36	
Age range (years)	0 - 99	

* 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

**Cases may be associated with outbreaks notified outside the timeframe of this report
10/09/2020 - 23/09/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 13:22 on 24/09/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.

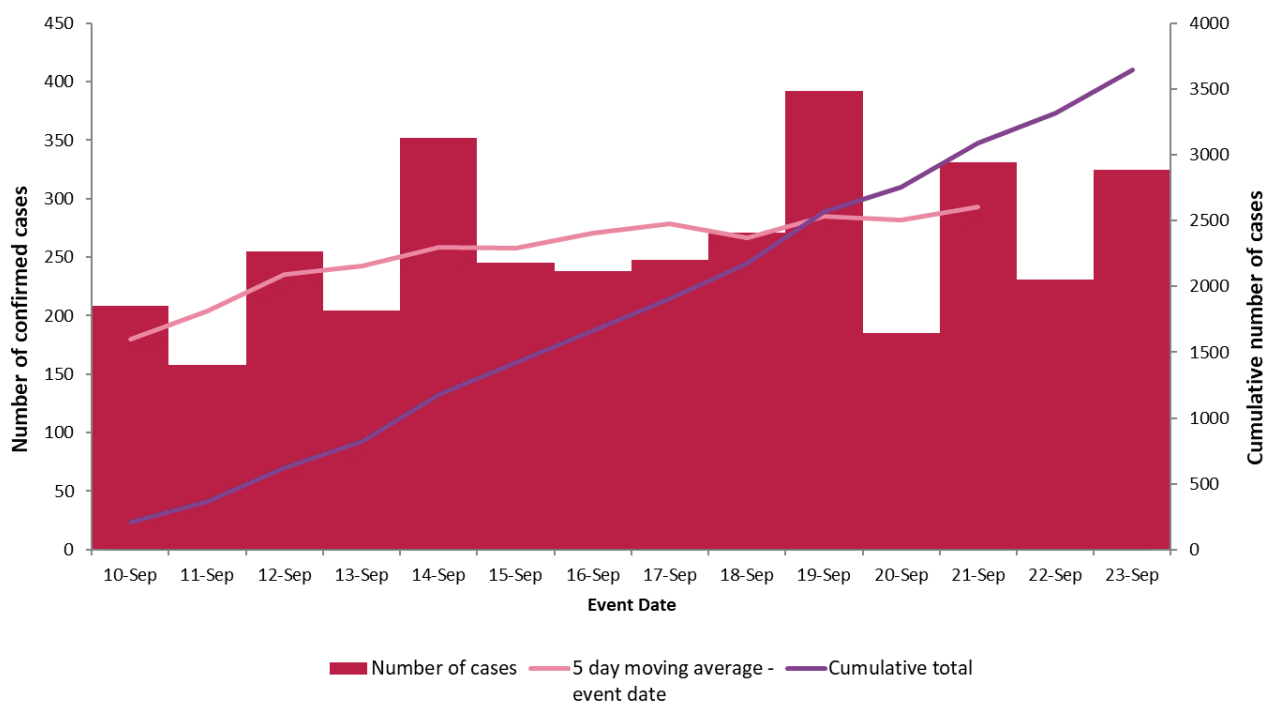


Figure 1. Daily number and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date (n=3,643)

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 10/09/2020 up to midnight on 23/09/202

Characteristic		Number of cases	Percent
Total number of confirmed cases		3,643	100
Sex	Male:Female ratio	0.98	
	Male	1,799	49.38
	Female	1,841	50.54
	Unknown	3	0.08
Age	Median age (years)	33	
	Mean age (years)	36	
	Age range (years)	0 - 99	
	0-4 yrs	120	3.29
	5-14 yrs	301	8.26
	15-24 yrs	853	23.41
	25-34 yrs	619	16.99
	35-44 yrs	542	14.88
	45-54 yrs	501	13.75
	55-64 yrs	355	9.74
	65-74 yrs	220	6.04
	75-84 yrs	91	2.5
	85+ yrs	40	1.1
	Unknown	1	0.03
Underlying clinical conditions	Yes	1,008	27.67
	No	2,275	62.45
	Unknown	360	9.88

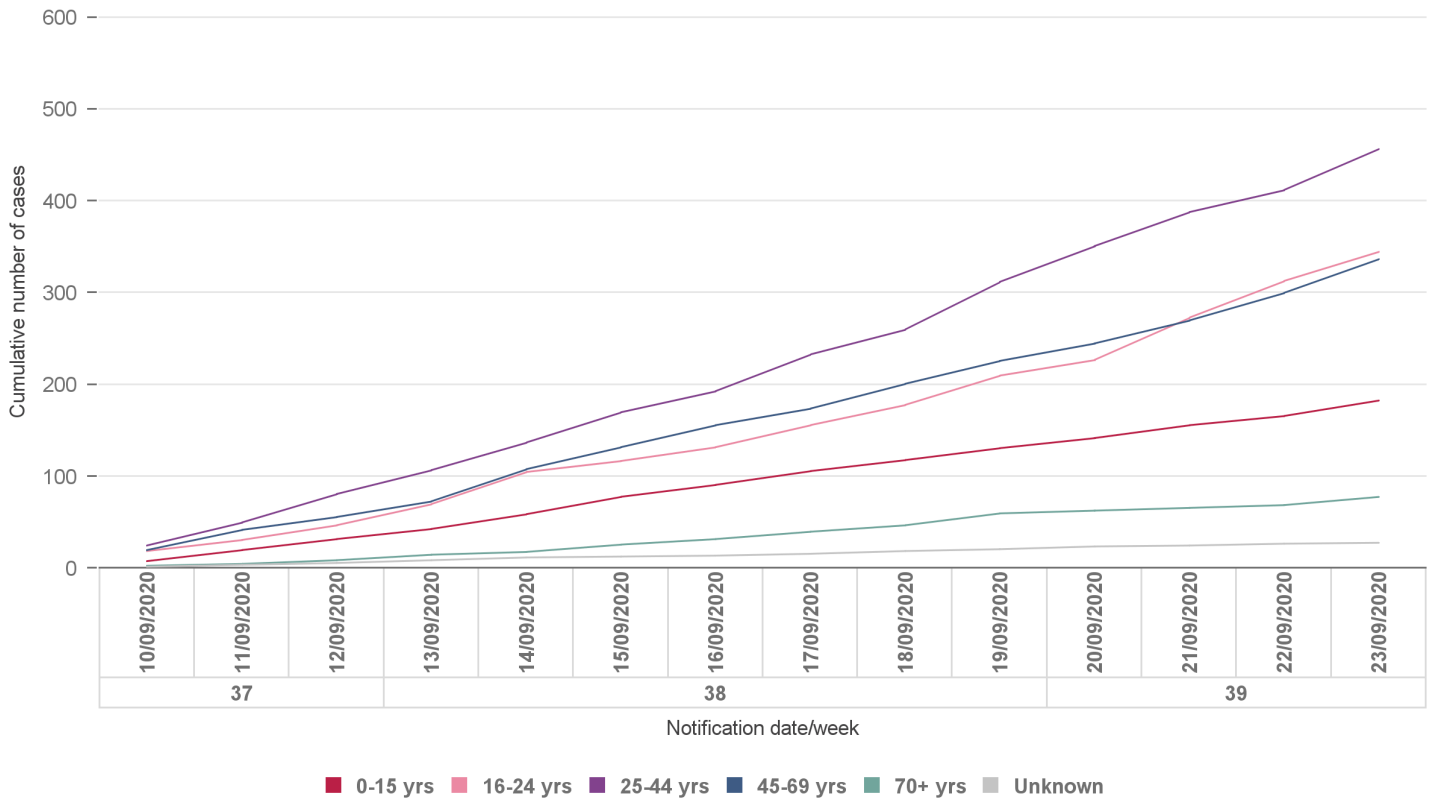


Figure 2: Cumulative number of confirmed COVID-19 cases notified in Ireland by date/week of notification and age group (years) from 10/09/2020 to midnight 23/09/2020

Table 2: Characteristics of confirmed COVID-19 cases by community healthcare organisation (CHO)* notified from 10/09/2020 to midnight 23/09/2020

CHO Area	Cases		M:F ratio	Mean age (years)	Healthcare workers		Associated with clusters	
	N	%			N	%	N	%
CHO1	315	8.65	1.1	34	12	3.81	182	57.78
CHO2	179	4.91	1.08	32	13	7.26	112	62.57
CHO3	130	3.57	0.97	42	6	4.62	96	73.85
CHO4	257	7.05	0.92	36	15	5.84	185	71.98
CHO5	196	5.38	1.55	34	7	3.57	120	61.22
CHO6	381	10.46	0.85	37	22	5.77	186	48.82
CHO7	837	22.98	1.01	36	52	6.21	426	50.9
CHO8	351	9.63	0.99	35	36	10.26	241	68.66
CHO9	997	27.37	0.88	38	83	8.32	476	47.74
National	3,643	100	0.98	36	246	6.75	2,024	55.56

Table 3: Number of confirmed COVID-19 cases by community healthcare organisation (CHO) * notified in Ireland from 10/09/2020 to midnight 23/09/2020

CHO Area	Number of confirmed cases	Incidence per 100,000 population
CHO1	315	80.5
CHO2	179	39.5
CHO3	130	33.8
CHO4	257	37.2
CHO5	196	38.4
CHO6	381	99.4
CHO7	837	118.3
CHO8	351	56.7
CHO9	997	160.4
Ireland	3,643	76.5

*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 10/09/2020 to midnight 23/09/2020

County	Number of confirmed cases	Incidence per 100,000 population
Carlow	24	42.2
Cavan	23	30.2
Clare	49	41.2
Cork	229	42.2
Donegal	236	148.2
Dublin	1947	144.5
Galway	101	39.1
Kerry	28	19.0
Kildare	162	72.8
Kilkenny	22	22.2
Laois	34	40.1
Leitrim	11	34.3
Limerick	70	35.9
Longford	13	31.8
Louth	139	107.8
Mayo	38	29.1
Meath	74	37.9
Monaghan	33	53.8
Offaly	46	59.0
Roscommon	40	62.0
Sligo	12	18.3
Tipperary	25	15.7
Waterford	101	86.9
Westmeath	44	49.6
Wexford	36	24.0
Wicklow	106	74.4
Ireland	3,643	76.5

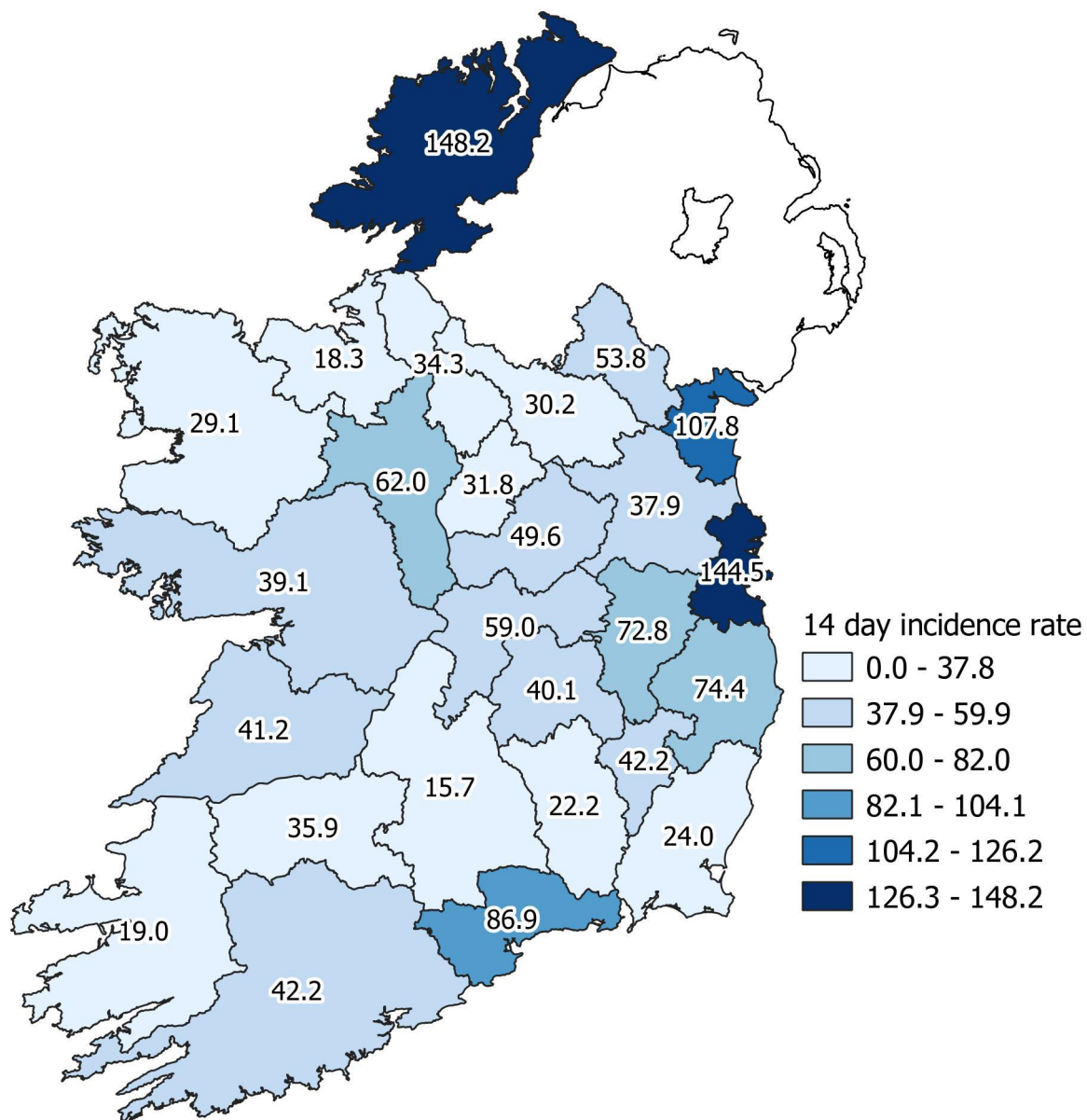


Figure 3: Cumulative incidence rates of confirmed COVID-19 cases per 100,000 population, by county, notified in Ireland from 10/09/2020 to midnight 23/09/2020

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 from 10/09/2020 to midnight 23/09/2020

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	93	68.3
CCA2	Dublin South East	183	147.9
CCA3	Dublin South City	191	127.4
CCA4	Dublin South West	251	156.0
CCA5	Dublin West	232	149.3
CCA6	Dublin North West	430	207.1
CCA7	Dublin North Central	267	172.7
CCA8	Dublin North	300	115.8
	Dublin	1947	144.5

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 10/09/2020 to midnight 23/09/2020

Most likely transmission source	Number of cases	Percent
Travel related	99	2.72%
Close contact with a known confirmed case	2,063	56.63%
Healthcare setting acquired: patient	47	1.29%
Healthcare setting acquired: staff	54	1.48%
Community transmission	1,008	27.67%
Under investigation	372	10.21%
Total	3,643	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

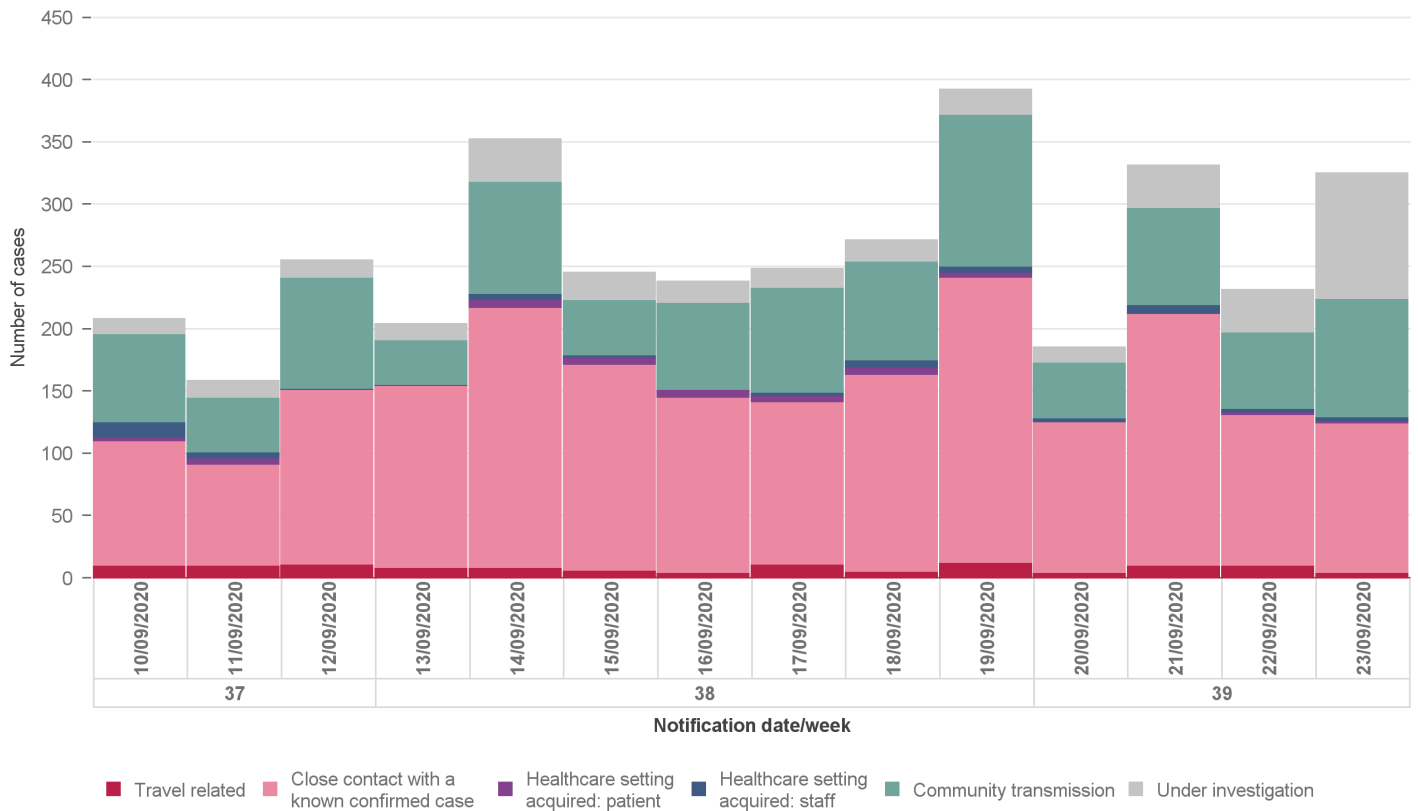


Figure 4: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and most likely transmission source from 10/09/2020 to midnight 23/09/2020

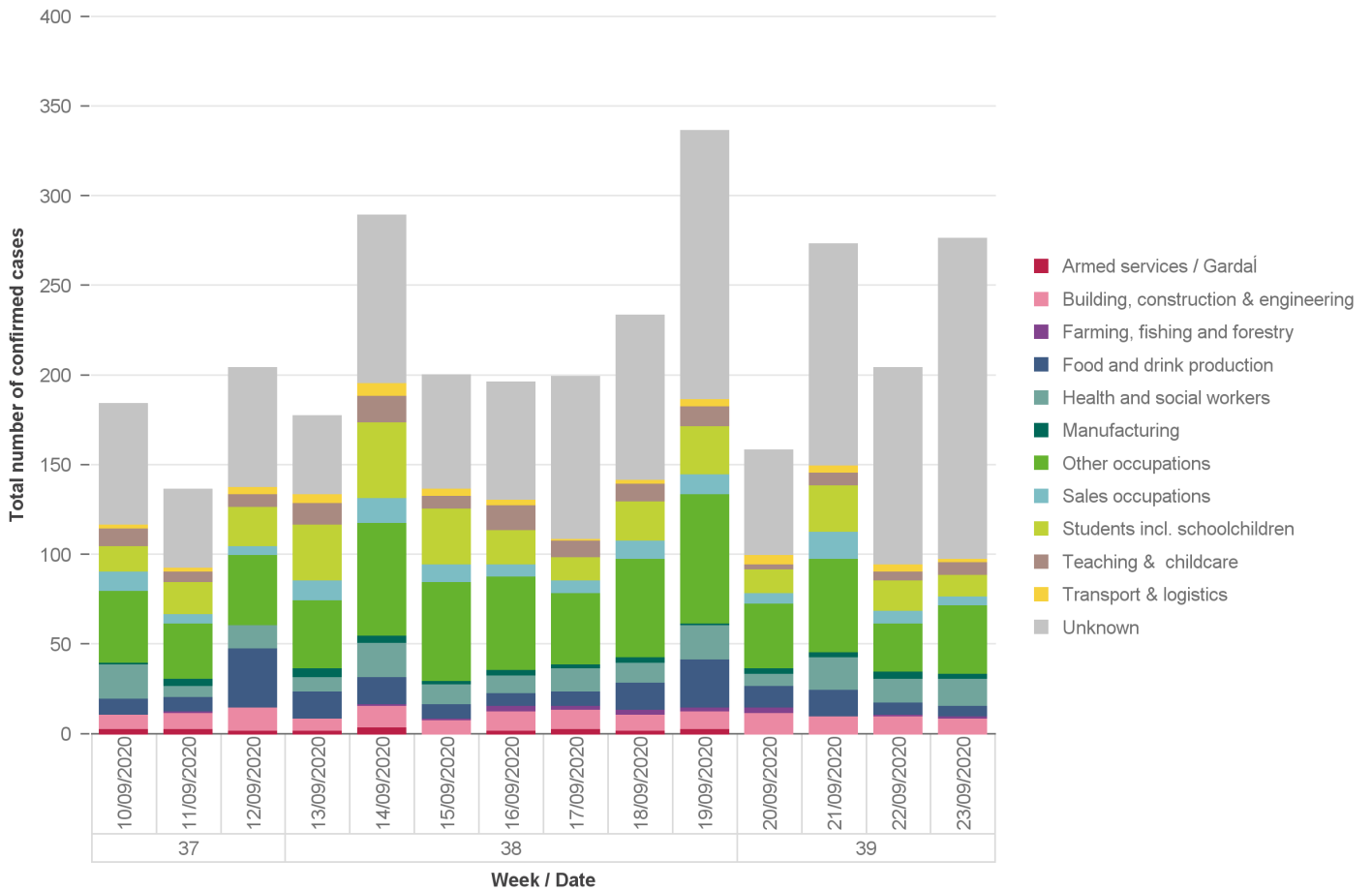


Figure 5: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and occupation* from 10/09/2020 to midnight 23/09/2020

*Among cases aged 16-69 years

Table 7: Cumulative number of confirmed cases of COVID-19 notified in Ireland from 10/09/2020 to midnight 23/09/2020 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	120	2	1.75	0	0
5-14 yrs	301	1	0.88	0	0
15-24 yrs	853	6	5.26	0	0
25-34 yrs	619	6	5.26	0	0
35-44 yrs	542	8	7.02	2	15.38
45-54 yrs	501	17	14.91	3	23.08
55-64 yrs	355	21	18.42	5	38.46
65-74 yrs	220	26	22.81	3	23.08
75-84 yrs	91	16	14.04	0	0
85+ yrs	40	11	9.65	0	0
Unknown	1			0	0
Total	3,643	114	100	13	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 13:22 on 24/09/2020. 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 derived from epidemiological 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.