



Epidemiology of COVID-19 in Ireland

Report prepared by HPSC on 02/09/2020

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 19/08/2020 up to midnight 01/09/2020

	Number	Percent
Total number of confirmed cases	1,577	
National incidence of confirmed cases per 100,000 population	33.12	
Number of cases hospitalised*	49	3.11
Number of cases admitted to ICU*	2	0.13
Number of deaths among confirmed cases	0	0
Case fatality ratio (CFR, %)	0	
National incidence of confirmed deaths per 100,000 population	0	
Number of cases** associated with clusters	802	50.86
Number of imported cases	33	2.09
Number of cases in healthcare workers	133	8.43
Males	797	50.54
Females	778	49.33
M:F ratio	1.02	
Median age (years)	31	
Mean age (years)	35	
Age range (years)	0 - 98	

* 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
19/08/2020 - 01/09/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 13:26 on 02/09/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.

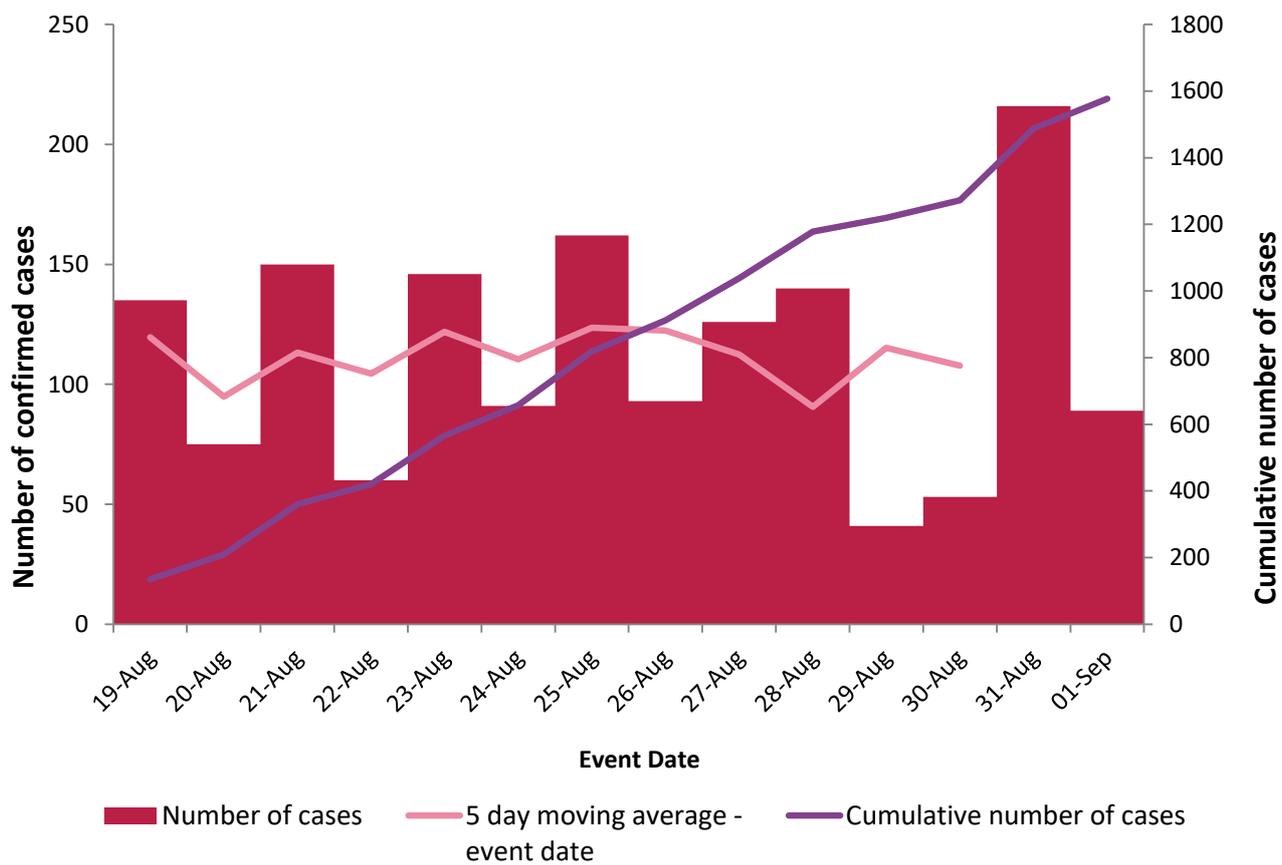


Figure 1. Daily number and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date (n=1,577)

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 19/08/2020 up to midnight on 01/09/202

Characteristic		Number of cases	Percent
Total number of confirmed cases		1,577	100
Sex	Male:Female ratio	1.02	
	Male	797	50.54
	Female	778	49.33
	Unknown	2	0.13
Age	Median age (years)	31	
	Mean age (years)	35	
	Age range (years)	0 - 98	
	0-4 yrs	50	3.17
	5-14 yrs	134	8.5
	15-24 yrs	384	24.35
	25-34 yrs	312	19.78
	35-44 yrs	241	15.28
	45-54 yrs	204	12.94
	55-64 yrs	136	8.62
	65-74 yrs	49	3.11
	75-84 yrs	47	2.98
	85+ yrs	18	1.14
	Unknown	2	0.13
Underlying clinical conditions	Yes	362	22.95
	No	956	60.62
	Unknown	259	16.42

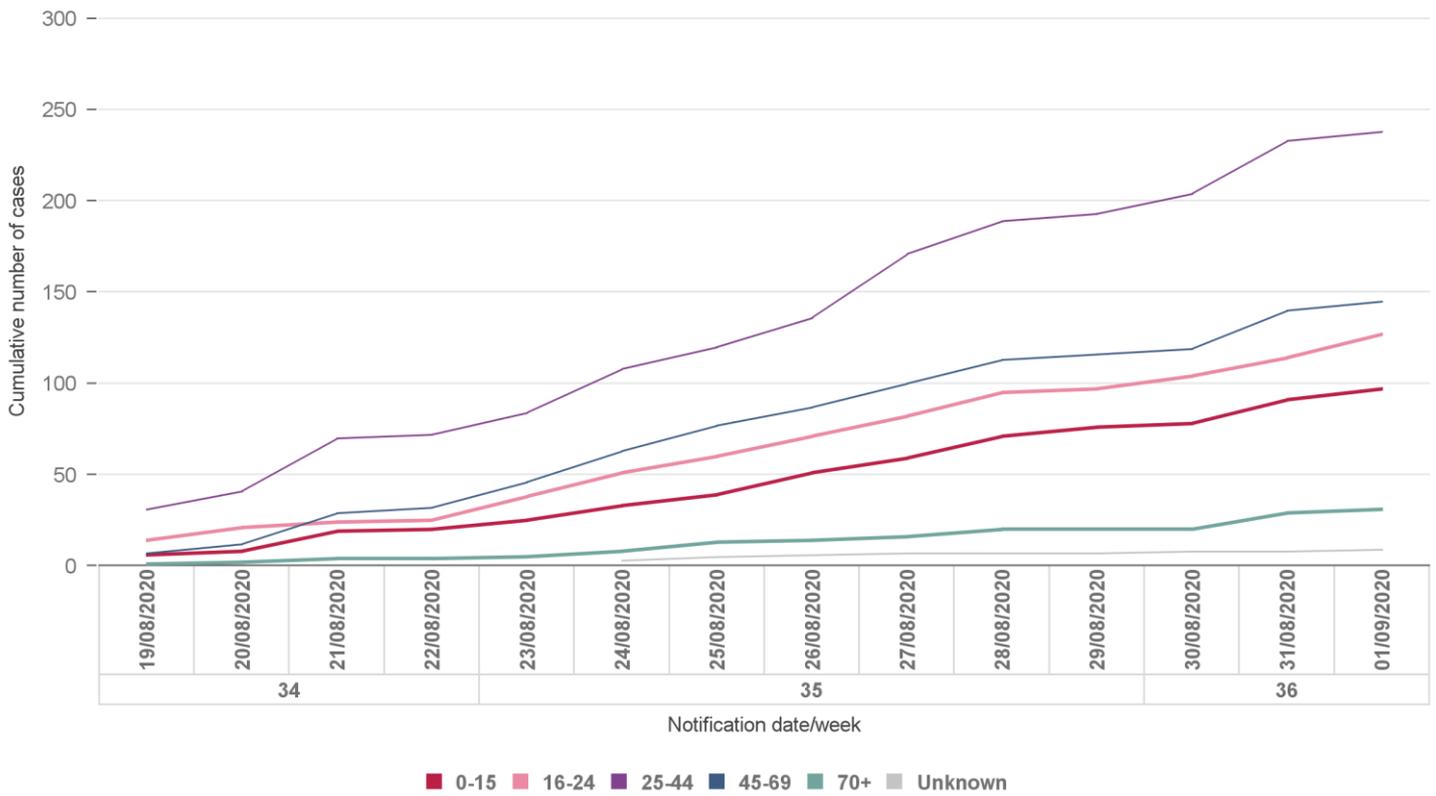


Figure 2: Cumulative number of confirmed COVID-19 cases notified in Ireland by date/week of notification and age group from 19/08/2020 to midnight 01/09/2020

Table 2: Characteristics of confirmed COVID-19 cases by CHO notified from 19/08/2020 to midnight 01/09/2020

CHO Area*	Cases		M:F ratio	Mean age (years)	Healthcare workers		Associated with clusters	
	N	%			N	%	N	%
CHO1	70	4.44	1.8	31	2	2.86	56	80
CHO2	27	1.71	2	29	1	3.7	13	48.15
CHO3	152	9.64	0.75	33	5	3.29	47	30.92
CHO4	52	3.3	1.08	29	1	1.92	38	73.08
CHO5	217	13.76	1.11	38	6	2.76	106	48.85
CHO6	140	8.88	1.04	36	18	12.86	51	36.43
CHO7	477	30.25	0.95	35	51	10.69	268	56.18
CHO8	129	8.18	1.11	35	20	15.5	79	61.24
CHO9	313	19.85	1	33	29	9.27	144	46.01
National	1,577	100	1.02	35	133	8.43	802	50.86

Table 3: Number of confirmed COVID-19 cases by community healthcare organisation (CHO) notified in Ireland from 19/08/2020 to midnight 01/09/2020

CHO Area	Number of confirmed cases	Incidence per 100,000 population
CHO1	70	17.9
CHO2	27	6.0
CHO3	152	39.5
CHO4	52	7.5
CHO5	217	42.5
CHO6	140	36.5
CHO7	477	67.4
CHO8	129	20.8
CHO9	313	50.4
Ireland	1,577	33.1

* **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 19/08/2020 to midnight 01/09/2020

County	Number of confirmed cases	Incidence per 100,000 population
Carlow	37	65.0
Cavan	13	17.1
Clare	32	26.9
Cork	46	8.5
Donegal	32	20.1
Dublin	717	53.2
Galway	9	3.5
Kerry	6	4.1
Kildare	182	81.8
Kilkenny	26	26.2
Laois	21	24.8
Leitrim	<5	3.1
Limerick	109	55.9
Longford	10	24.5
Louth	16	12.4
Mayo	<5	2.3
Meath	36	18.5
Monaghan	23	37.5
Offaly	23	29.5
Roscommon	15	23.2
Sligo	<5	1.5
Tipperary	106	66.4
Waterford	25	21.5
Westmeath	10	11.3
Wexford	47	31.4
Wicklow	31	21.8
Ireland	1,577	33.1

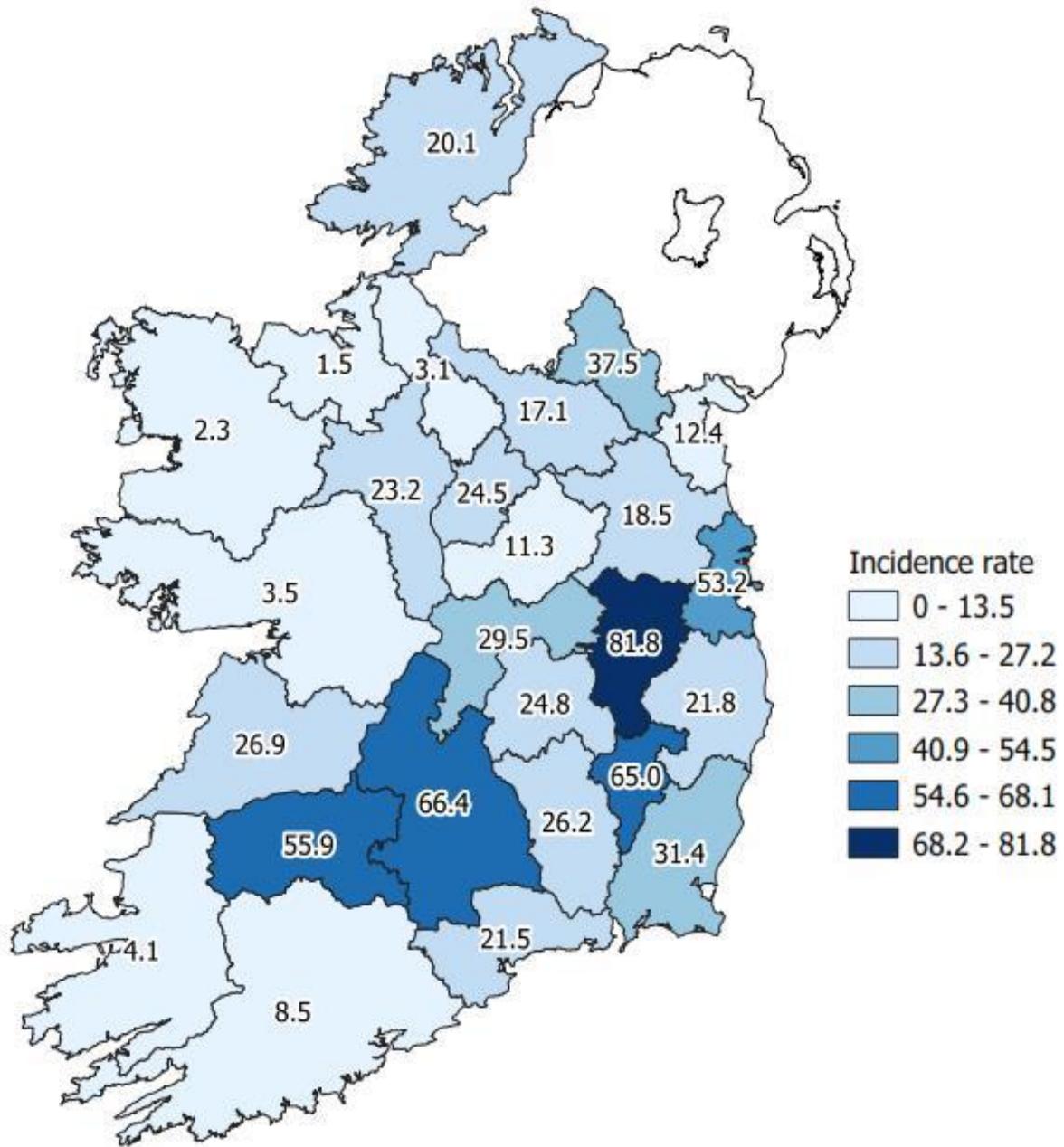


Figure 3: Cumulative incidence rates of confirmed cases of COVID-19 per 100,000 population, by county, notified in Ireland between 19/08/2020 and midnight 01/09/2020

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 in Ireland with a notification date between 19/08/2020 and 01/09/2020

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	54	39.7
CCA2	Dublin South East	57	46.1
CCA3	Dublin South City	78	52.0
CCA4	Dublin South West	88	54.7
CCA5	Dublin West	127	81.8
CCA6	Dublin North West	123	59.2
CCA7	Dublin North Central	98	63.4
CCA8	Dublin North	92	35.5
	Dublin	717	53.2

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 19/08/2020 to midnight 01/09/2020

Most likely transmission source	Number of cases	Percent
Travel related	112	7.10%
Close contact with a known confirmed case	813	51.55%
Healthcare setting acquired: patient	36	2.28%
Healthcare setting acquired: staff	52	3.30%
Community transmission	321	20.36%
Under investigation	243	15.41%
Total	1577	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

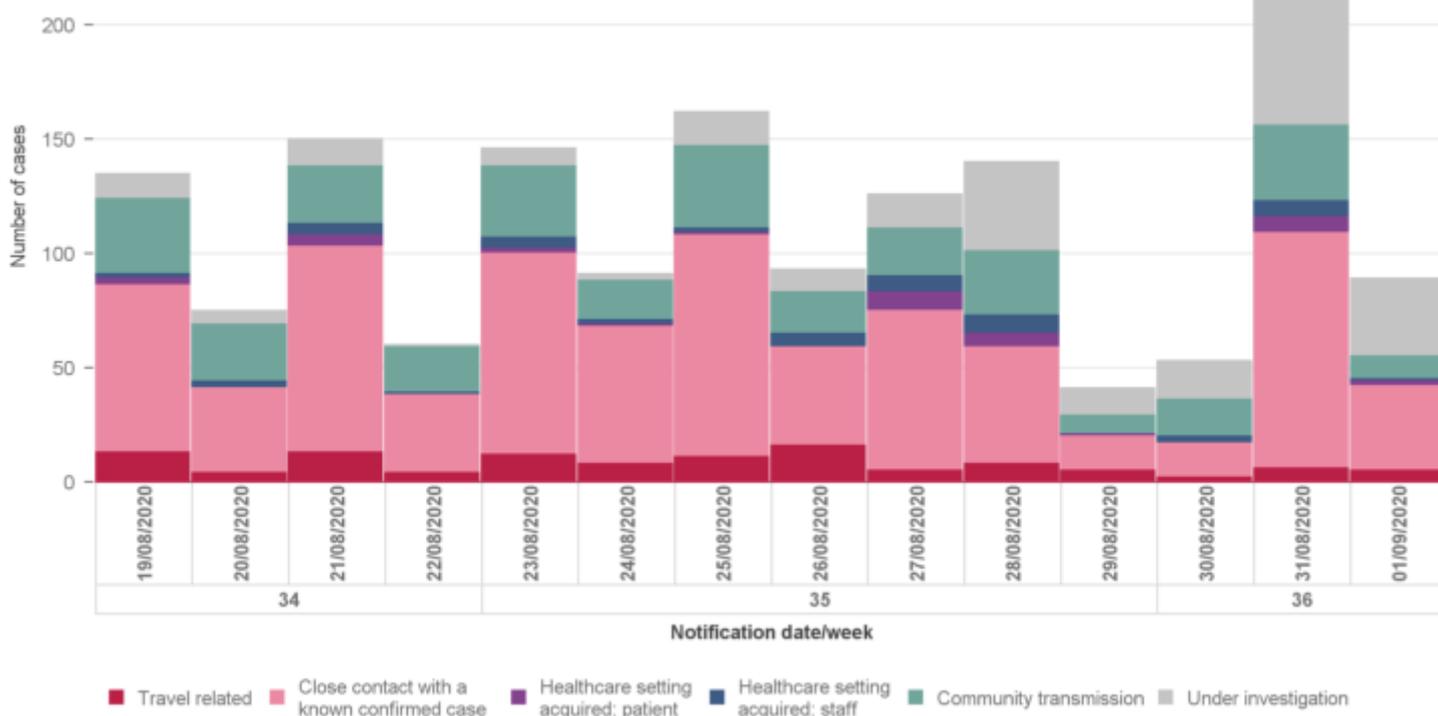


Figure 4: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and most likely transmission source from 19/08/2020 to midnight 01/09/2020

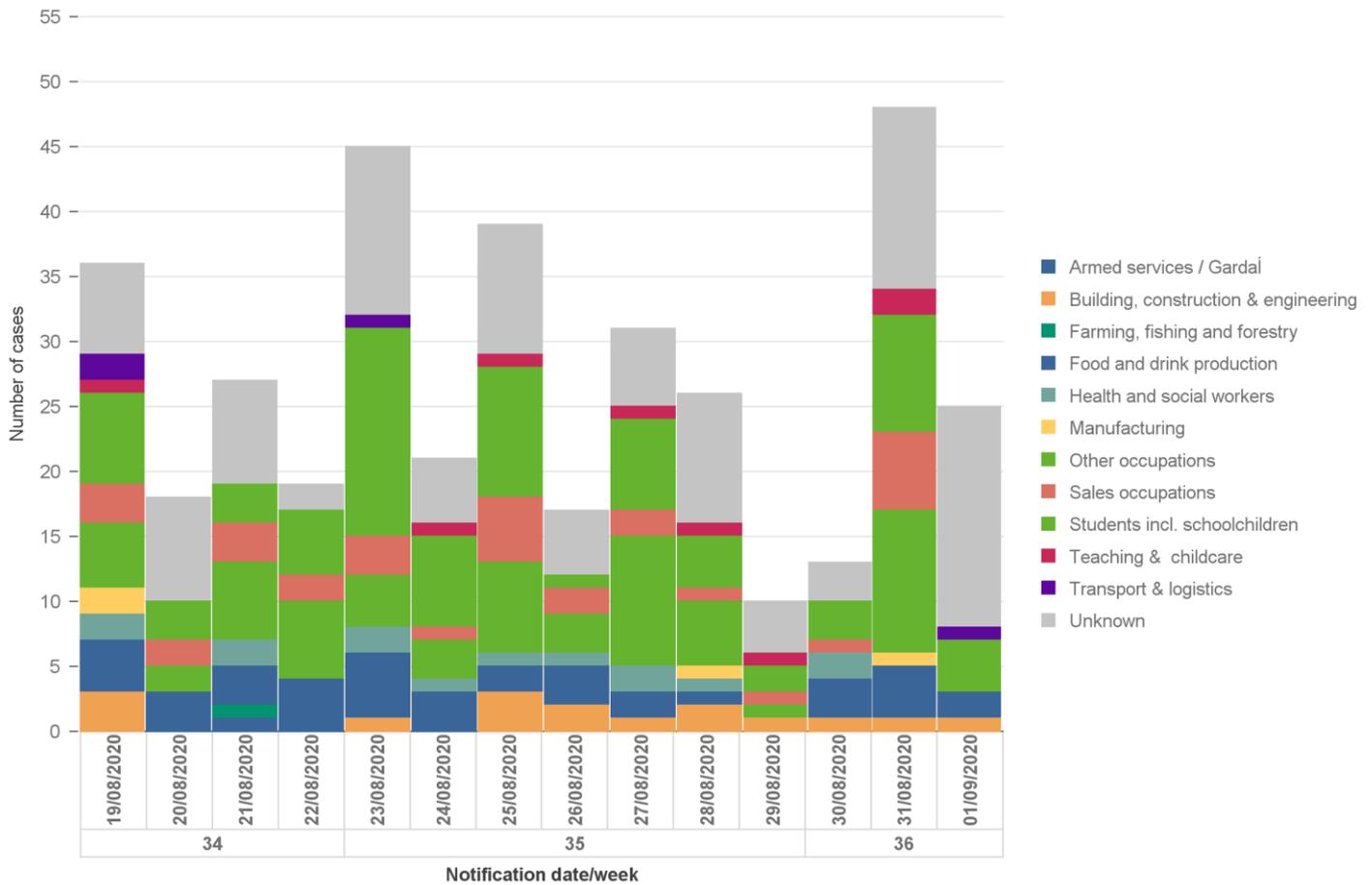


Figure 5: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and occupation* from 19/08/2020 to midnight 01/09/2020 *Among cases aged 16-69 years

Table 7: Cumulative number of confirmed cases of COVID-19 notified in Ireland from 19/08/2020 to midnight 01/09/2020 by age group and hospital, ICU* and vital status

Age Group (years)	Number of cases (n)	Cases hospitalised (n)	Cases hospitalised (%)	Cases admitted to ICU (n)	Cases admitted to ICU (%)
0-4 yrs	50	3	6.1	0	0
5-14 yrs	134	1	2.0	0	0
15-24 yrs	384	8	16.3	0	0
25-34 yrs	312	7	14.3	0	0
35-44 yrs	241	3	6.1	0	0
45-54 yrs	204	6	12.2	1	50
55-64 yrs	136	6	12.2	1	50
65-74 yrs	49	3	6.1	0	0
75-84 yrs	47	8	16.3	0	0
85+ yrs	18	4	8.2	0	0
Unknown	2	0	0	0	0
Total	1,577	49	100	2	100

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 13:26 on 02/09/2020. 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.

5. 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.