Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 09/09/2020

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 26/08/2020 up to midnight 08/09/2020

	Number	Percent
Total number of confirmed cases	1,810	
National incidence of confirmed cases per 100,000 population	38.01	
Number of cases hospitalised*	57	3.15
Number of cases admitted to ICU*	3	0.17
Number of deaths among confirmed cases	2	0.11
Case fatality ratio (CFR, %)	0.11	
National incidence of confirmed deaths per 100,000 population	0.04	
Number of cases** associated with clusters	681	37.62
Number of imported cases	37	2.04
Number of cases in healthcare workers	210	11.6
Males	895	49.45
Females	911	50.33
M:F ratio	0.98	
Median age (years)	32	
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 26/08/2020 - 08/09/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 13:17 on 09/09/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.
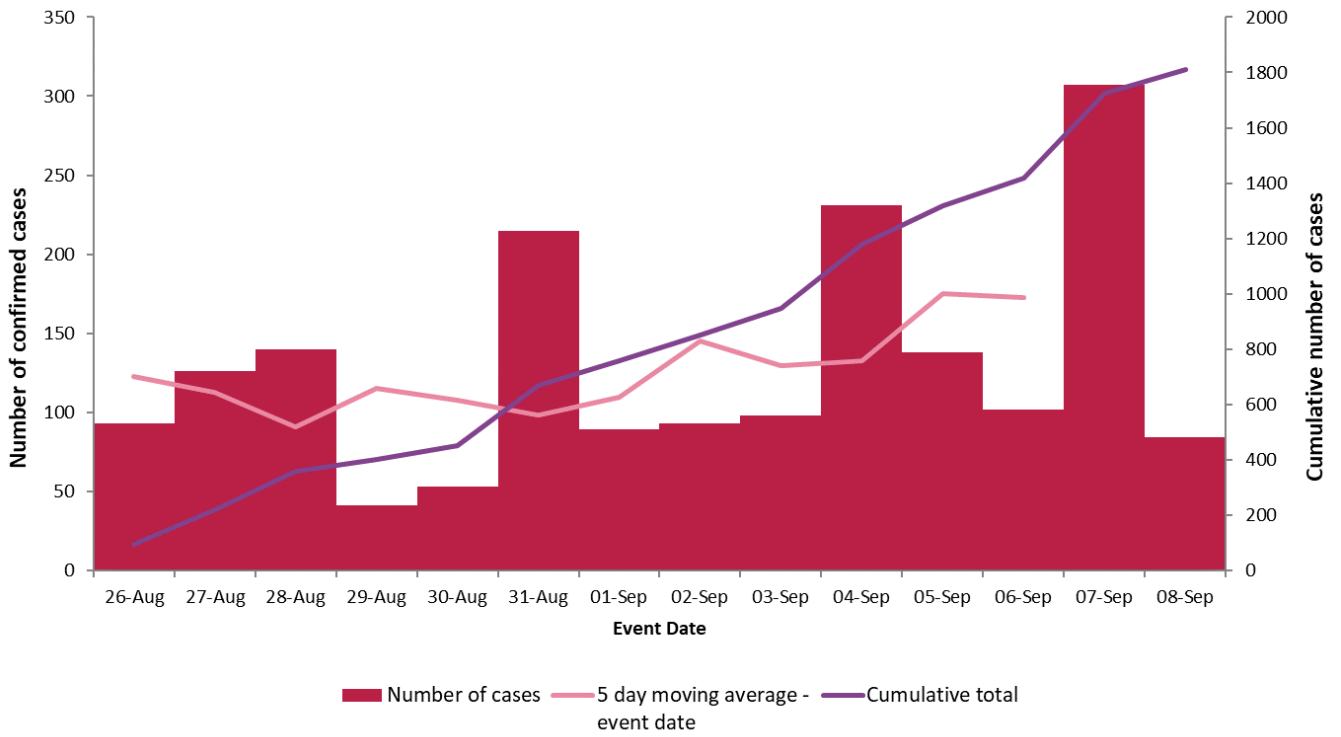
Figure 1. Daily number and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date (n=1,810)

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 26/08/2020 up to midnight on 08/09/202

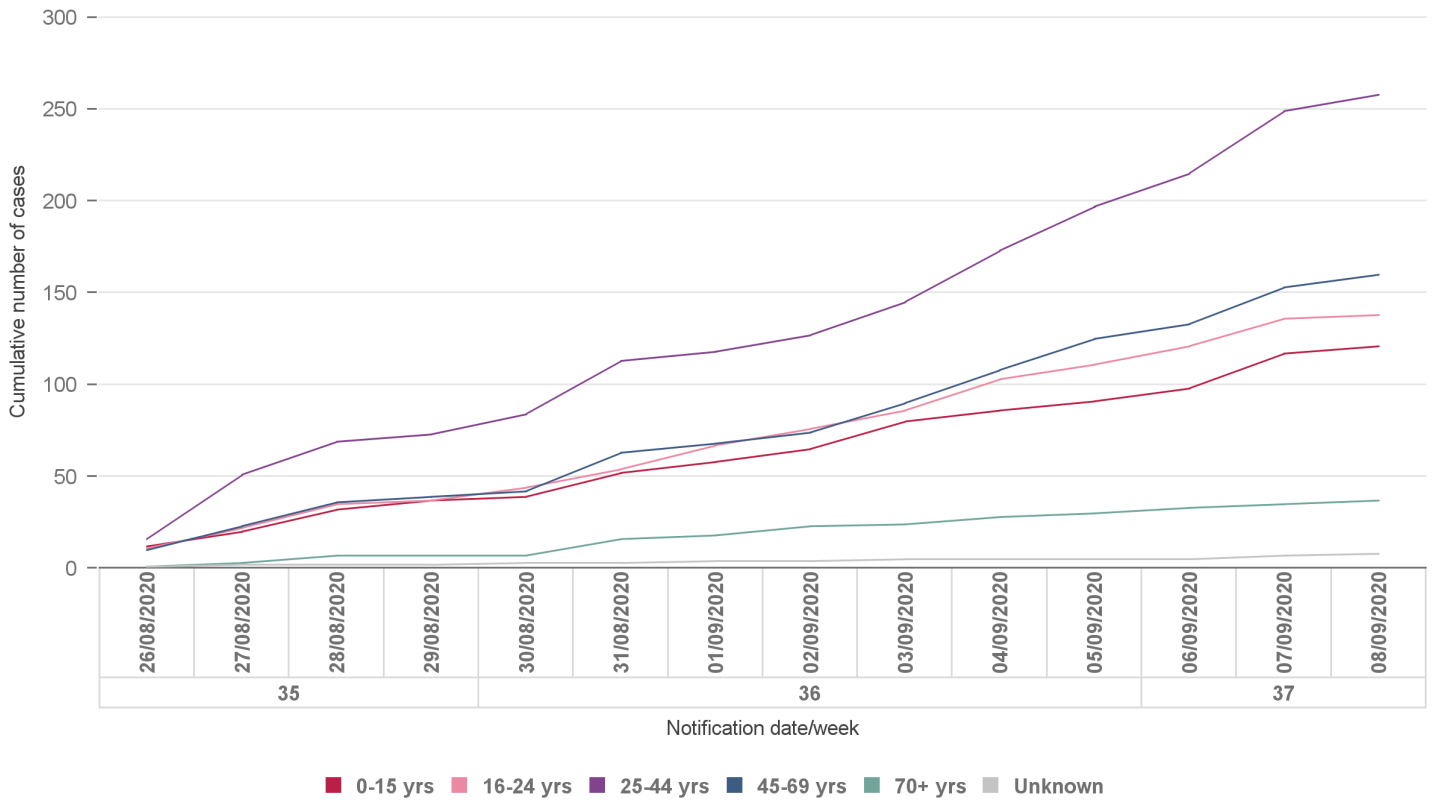| Characteristic		Number of cases	Percent
Total number of confirmed cases		**1,810**	**100**
Sex	Male:Female ratio	0.98	
	Male	895	49.45
	Female	911	50.33
	Unknown	4	0.22
Age	Median age (years)	32	
	Mean age (years)	35	
	Age range (years)	0 - 98	
	0-4 yrs	77	4.25
	5-14 yrs	163	9.01
	15-24 yrs	388	21.44
	25-34 yrs	345	19.06
	35-44 yrs	302	16.69
	45-54 yrs	222	12.27
	55-64 yrs	148	8.18
	65-74 yrs	74	4.09
	75-84 yrs	54	2.98
	85+ yrs	35	1.93
	Unknown	2	0.11
Underlying clinical conditions	Yes	483	26.69
	No	1,120	61.88
	Unknown	207	11.44

Figure 2: Cumulative number of confirmed COVID-19 cases notified in Ireland by date/week of notification and age group (years) from 26/08/2020 to midnight 08/09/2020

Table 2: Characteristics of confirmed COVID-19 cases by community healthcare organisation (CHO) *
notified from 26/08/2020 to midnight 08/09/2020

CHO Area	Cases		M:F ratio	Mean age (years)	Healthcare workers		Associated with clusters	
	N	%			N	%	N	%
CHO1	99	5.47	1.3	30	7	7.07	80	80.81
CHO2	57	3.15	1.11	32	5	8.77	38	66.67
CHO3	165	9.12	0.96	34	9	5.45	68	41.21
CHO4	57	3.15	1.04	31	<5	7.02	35	61.4
CHO5	167	9.23	0.88	37	12	7.19	74	44.31
CHO6	186	10.28	0.99	38	27	14.52	29	15.59
CHO7	465	25.69	0.98	37	60	12.9	150	32.26
CHO8	177	9.78	1.01	37	40	22.6	114	64.41
CHO9	437	24.14	0.93	34	46	10.53	93	21.28
National	**1,810**	**100**	**0.98**	**35**	**210**	**11.6**	**681**	**37.62**

Table 3: Number of confirmed COVID-19 cases by CHO notified in Ireland from 26/08/2020 to midnight 08/09/2020

CHO Area	Number of confirmed cases	Incidence per 100,000 population
CHO1	99	25.3
CHO2	57	12.6
CHO3	165	42.9
CHO4	57	8.3
CHO5	167	32.7
CHO6	186	48.5
CHO7	465	65.7
CHO8	177	28.6
CHO9	437	70.3
Ireland	1,810	38.0

*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 26/08/2020 to midnight 08/09/2020

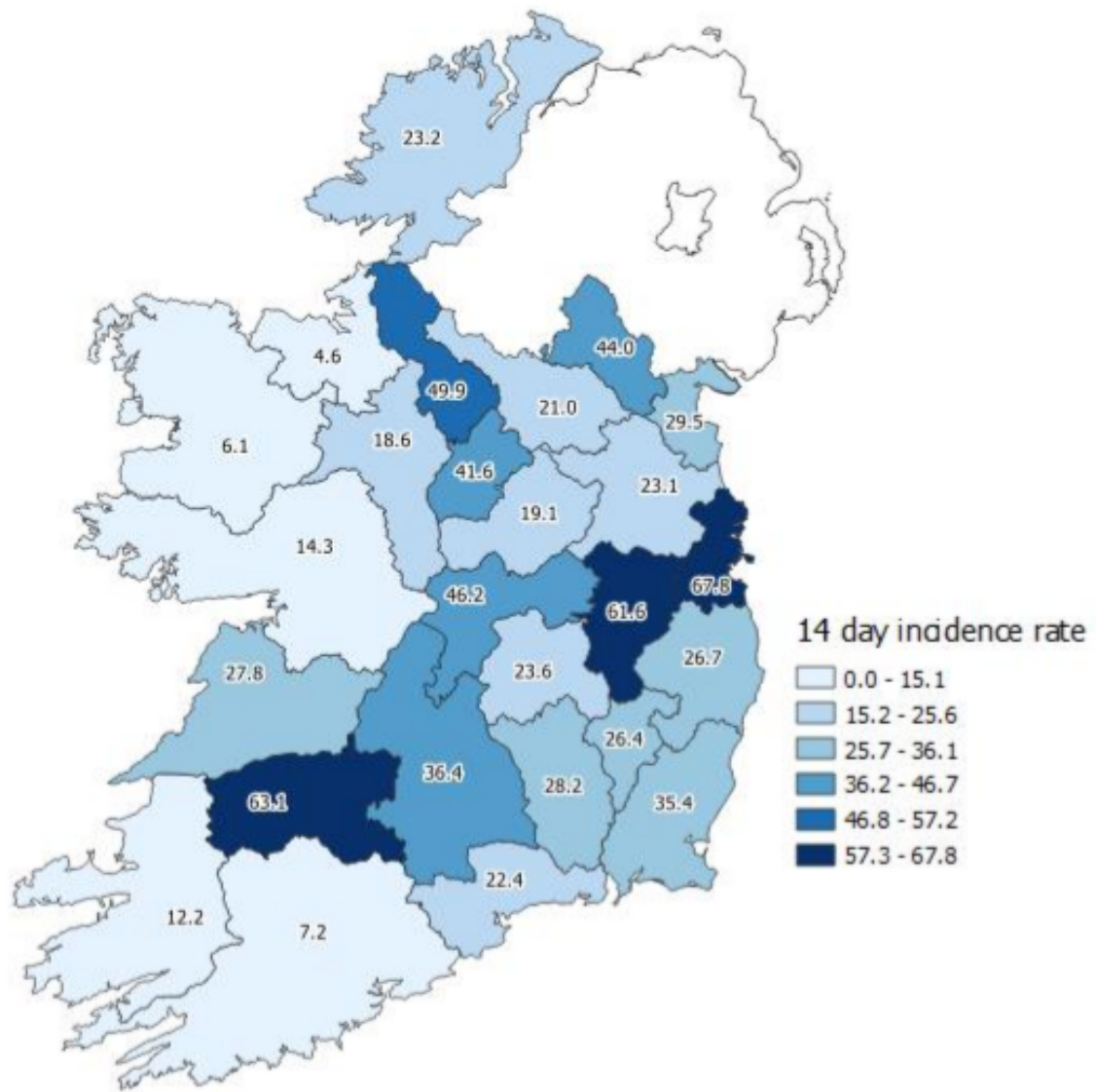| County	Number of confirmed cases	Incidence per 100,000 population
Carlow	15	26.3
Cavan	16	21.0
Clare	33	27.8
Cork	39	7.2
Donegal	37	23.2
Dublin	913	67.8
Galway	37	14.3
Kerry	18	12.2
Kildare	137	61.6
Kilkenny	28	28.2
Laois	20	23.6
Leitrim	16	49.9
Limerick	123	63.1
Longford	17	41.6
Louth	38	29.5
Mayo	8	6.1
Meath	45	23.1
Monaghan	27	44.0
Offaly	36	46.2
Roscommon	12	18.6
Sligo	<5	4.6
Tipperary	58	36.4
Waterford	26	22.4
Westmeath	17	19.2
Wexford	53	35.4
Wicklow	38	26.7
Ireland	1,810	38.0

Figure 3: Cumulative incidence rates of confirmed COVID-19 cases per 100,000 population, by county, notified in Ireland from 26/08/2020 to midnight 08/09/2020

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 26/08/2020 to midnight 08/09/2020

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	49	36.0
CCA2	Dublin South East	103	83.3
CCA3	Dublin South City	104	69.4
CCA4	Dublin South West	117	72.7
CCA5	Dublin West	103	66.3
CCA6	Dublin North West	160	77.0
CCA7	Dublin North Central	95	61.5
CCA8	Dublin North	182	70.2
	Dublin	**913**	**67.8**

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 26/08/2020 to midnight 08/09/2020

Most likely transmission source	Number of cases	Percent
Travel related	120	6.63%
Close contact with a known confirmed case	929	51.33%
Healthcare setting acquired: patient	49	2.71%
Healthcare setting acquired: staff	74	4.09%
Community transmission	437	24.14%
Under investigation	201	11.10%
Total	**1,810**	**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
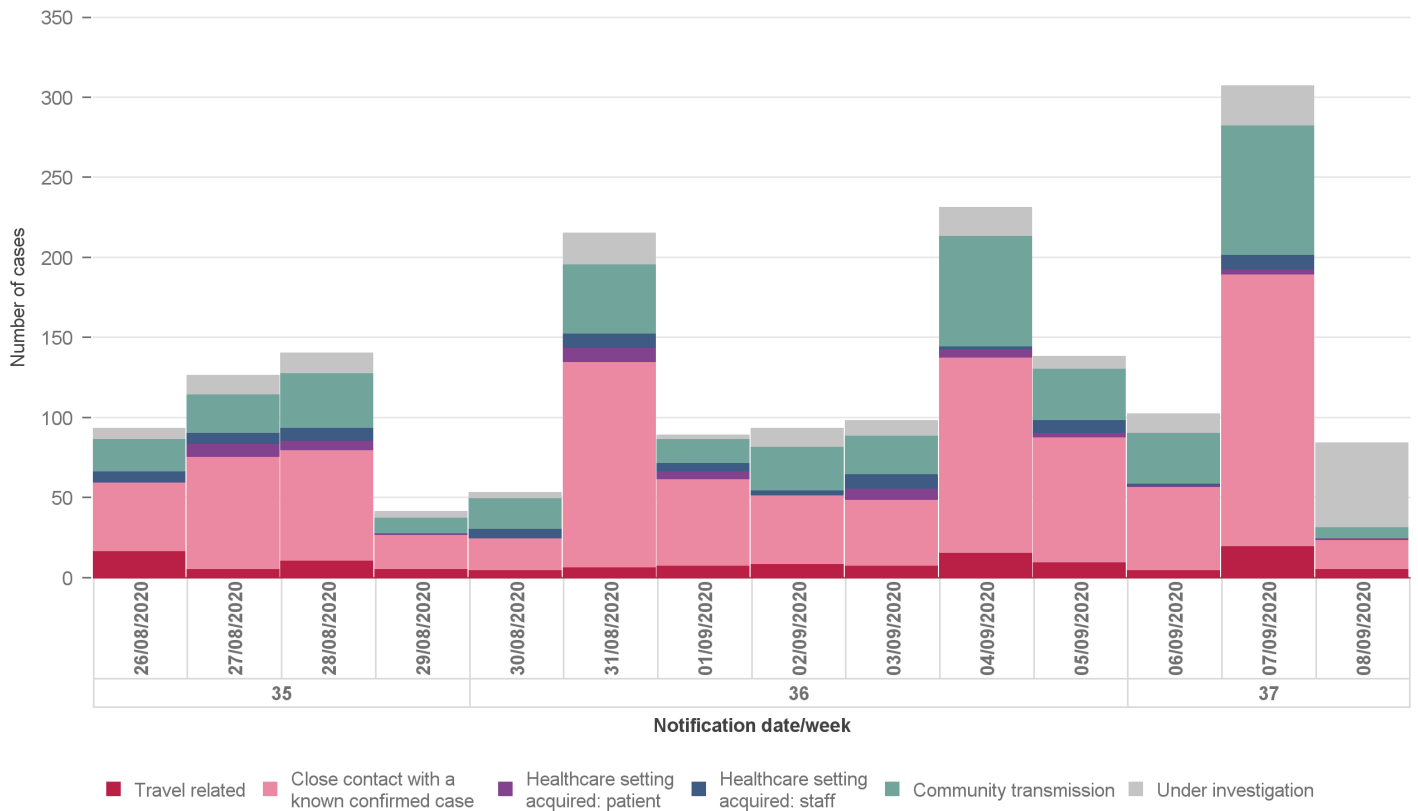

Figure 3: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and most likely transmission source from 26/08/2020 to midnight 08/09/2020
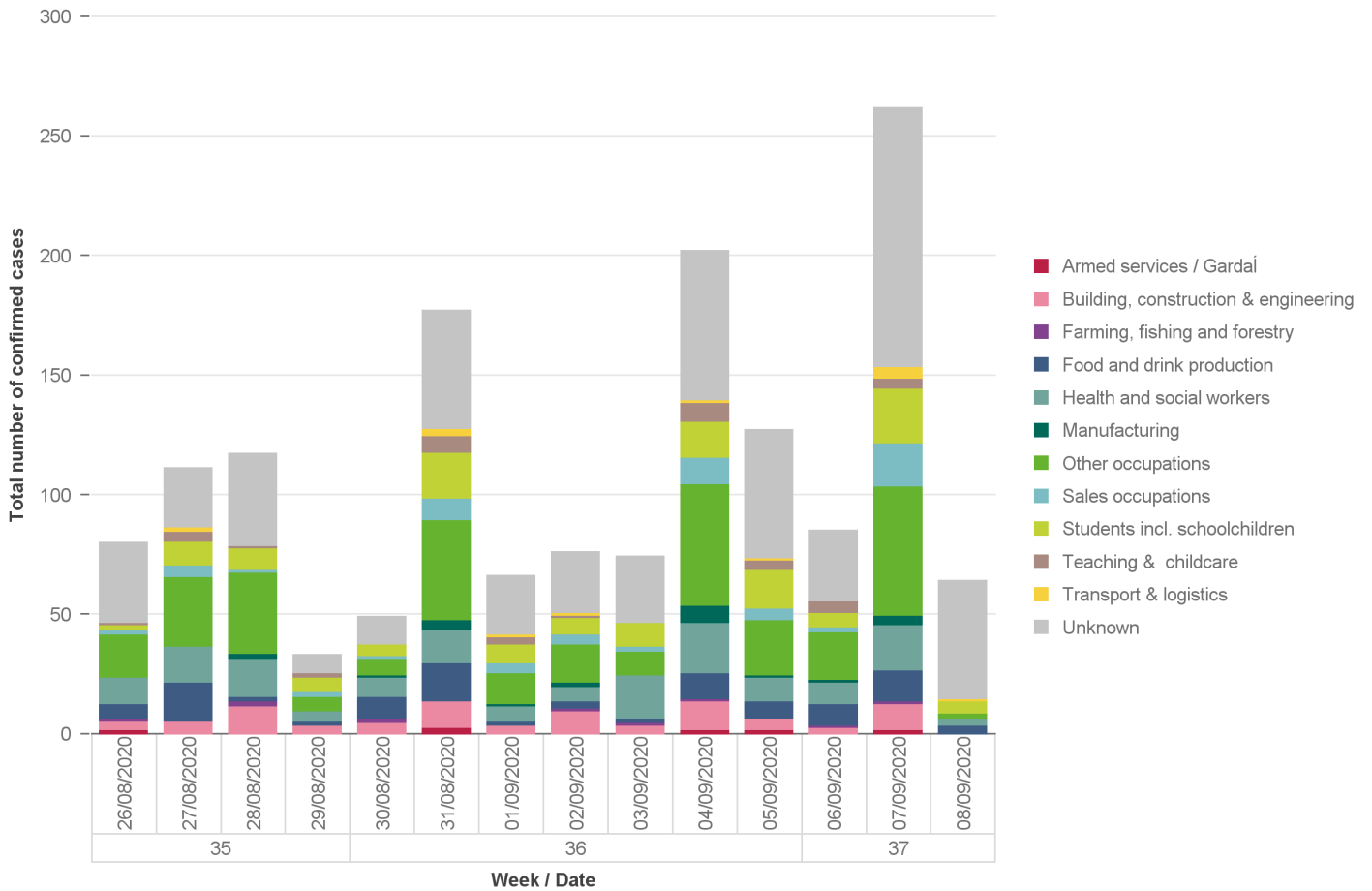
Figure 4: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and occupation* from 26/08/2020 to midnight 08/09/2020

*Among cases aged 16-69 years

Table 7: Cumulative number of confirmed cases of COVID-19 notified in Ireland from 26/08/2020 to midnight 08/09/2020 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	77	1	1.75	1	33.33
5-14 yrs	163	1	1.75	0	0
15-24 yrs	388	8	14.04	0	0
25-34 yrs	345	4	7.02	1	33.33
35-44 yrs	302			0	0
45-54 yrs	222	6	10.53	0	0
55-64 yrs	148	4	7.02	1	33.33
65-74 yrs	74	11	19.3	0	0
75-84 yrs	54	12	21.05	0	0
85+ yrs	35	10	17.54	0	0
Unknown	2			0	0
Total	**1,810**	**57**	**100**	**3**	**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

Technical Notes

1. Data Source

Data are based on statutory notifications and were extracted from Computerised Infectious Disease Reporting (CIDR) system at 13:17 on 09/09/2020. 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.