Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 26/09/2020

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 12/09/2020 up to midnight 25/09/2020

	Number	Percent
Total number of confirmed cases	3,845	
National incidence of confirmed cases per 100,000 population	80.75	
Number of cases hospitalised*	117	3.04
Number of cases admitted to ICU*	13	0.34
Number of deaths among confirmed cases	7	0.18
Case fatality ratio (CFR, %)	0.18	
National incidence of confirmed deaths per 100,000 population	0.15	
Number of cases** associated with clusters	2,082	54.15
Number of imported cases	23	0.6
Number of cases in healthcare workers	230	5.98
Males	1,921	49.96
Females	1,922	49.99
M:F ratio	1	
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 12/09/2020 - 25/09/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 13:21 on 26/09/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.
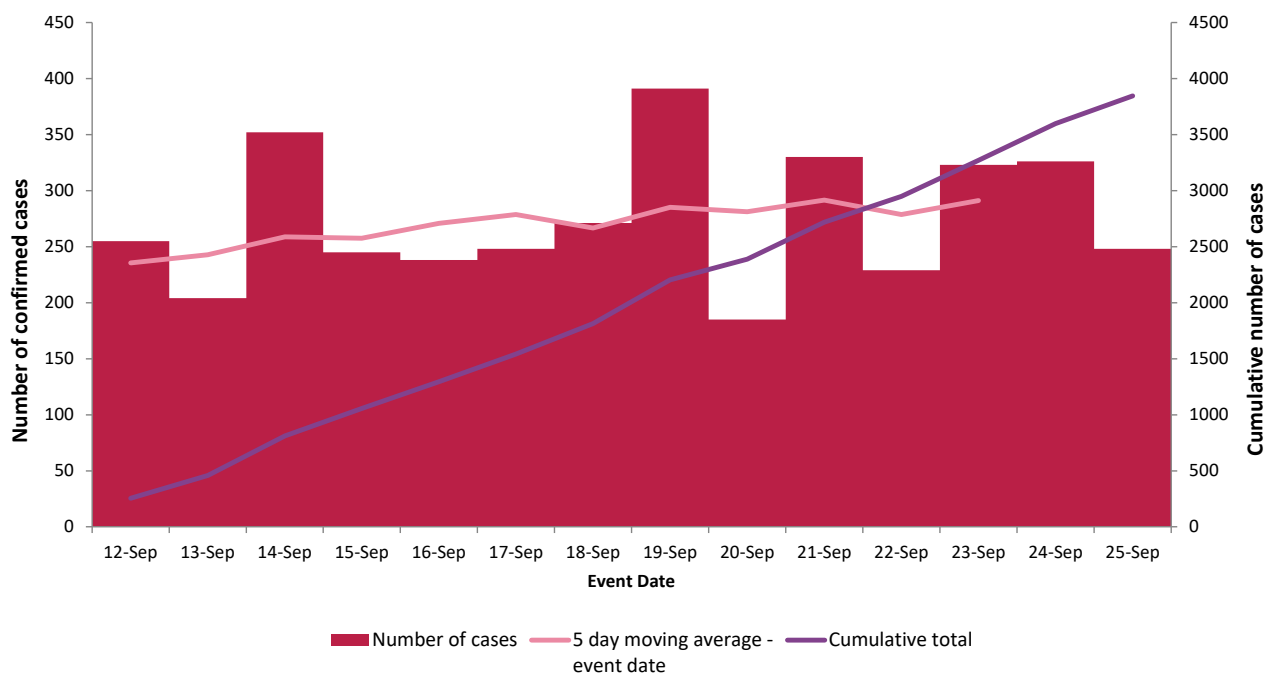
Figure 1. Daily number and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date (n=3,845)

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 12/09/2020 up to midnight on 25/09/202

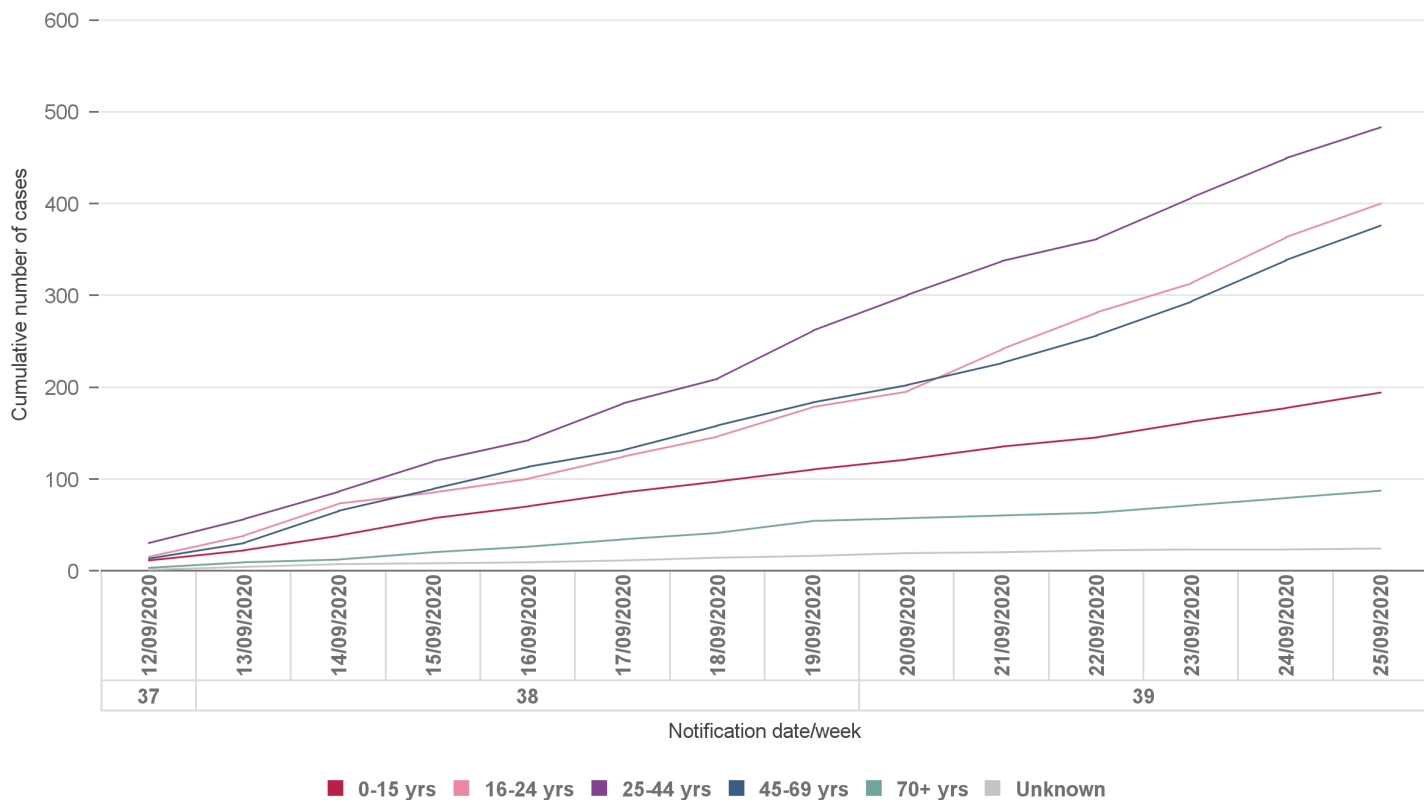| Characteristic		Number of cases	Percent
Total number of confirmed cases		**3,845**	**100**
Sex	Male:Female ratio	1	
	Male	1,921	49.96
	Female	1,922	49.99
	Unknown	2	0.05
Age	Median age (years)	33	
	Mean age (years)	36	
	Age range (years)	0 - 99	
	0-4 yrs	115	2.99
	5-14 yrs	316	8.22
	15-24 yrs	926	24.08
	25-34 yrs	662	17.22
	35-44 yrs	551	14.33
	45-54 yrs	527	13.71
	55-64 yrs	370	9.62
	65-74 yrs	237	6.16
	75-84 yrs	101	2.63
	85+ yrs	38	0.99
	Unknown	2	0.05
Underlying clinical conditions	Yes	1,047	27.23
	No	2,342	60.91
	Unknown	456	11.86

Figure 2: Cumulative number of confirmed COVID-19 cases notified in Ireland by date/week of notification and age group (years) from 12/09/2020 to midnight 25/09/2020

Table 2: Characteristics of confirmed COVID-19 cases by community healthcare organisation (CHO)* notified from 12/09/2020 to midnight 25/09/2020

CHO Area	Cases		M:F ratio	Mean age (years)	Healthcare workers		Associated with clusters	
	N	%			N	%	N	%
CHO1	374	9.73	1.2	34	14	3.74	209	55.88
CHO2	200	5.2	1.06	32	11	5.5	114	57
CHO3	129	3.36	0.87	41	6	4.65	94	72.87
CHO4	316	8.22	0.96	36	16	5.06	226	71.52
CHO5	206	5.36	1.4	35	6	2.91	131	63.59
CHO6	405	10.53	0.88	37	20	4.94	183	45.19
CHO7	855	22.24	1.06	36	46	5.38	412	48.19
CHO8	345	8.97	0.93	35	34	9.86	238	68.99
CHO9	1,012	26.32	0.91	38	77	7.61	475	46.94
Unknown	3	0.08	2	36	<5	0	0	0
National	**3,845**	**100**	**1**	**36**	**230**	**5.98**	**2,082**	**54.15**

Table 3: Number of confirmed COVID-19 cases by community healthcare organisation (CHO) * notified in Ireland from 12/09/2020 to midnight 25/09/2020

CHO Area	Number of confirmed cases	Incidence per 100,000 population
CHO1	374	95.6
CHO2	200	44.1
CHO3	129	33.5
CHO4	316	45.8
CHO5	206	40.4
CHO6	405	105.7
CHO7	855	120.8
CHO8	345	55.7
CHO9	1012	162.9
Ireland	3,845	80.7

* CHO unknown for three events

*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 12/09/2020 to midnight 25/09/2020

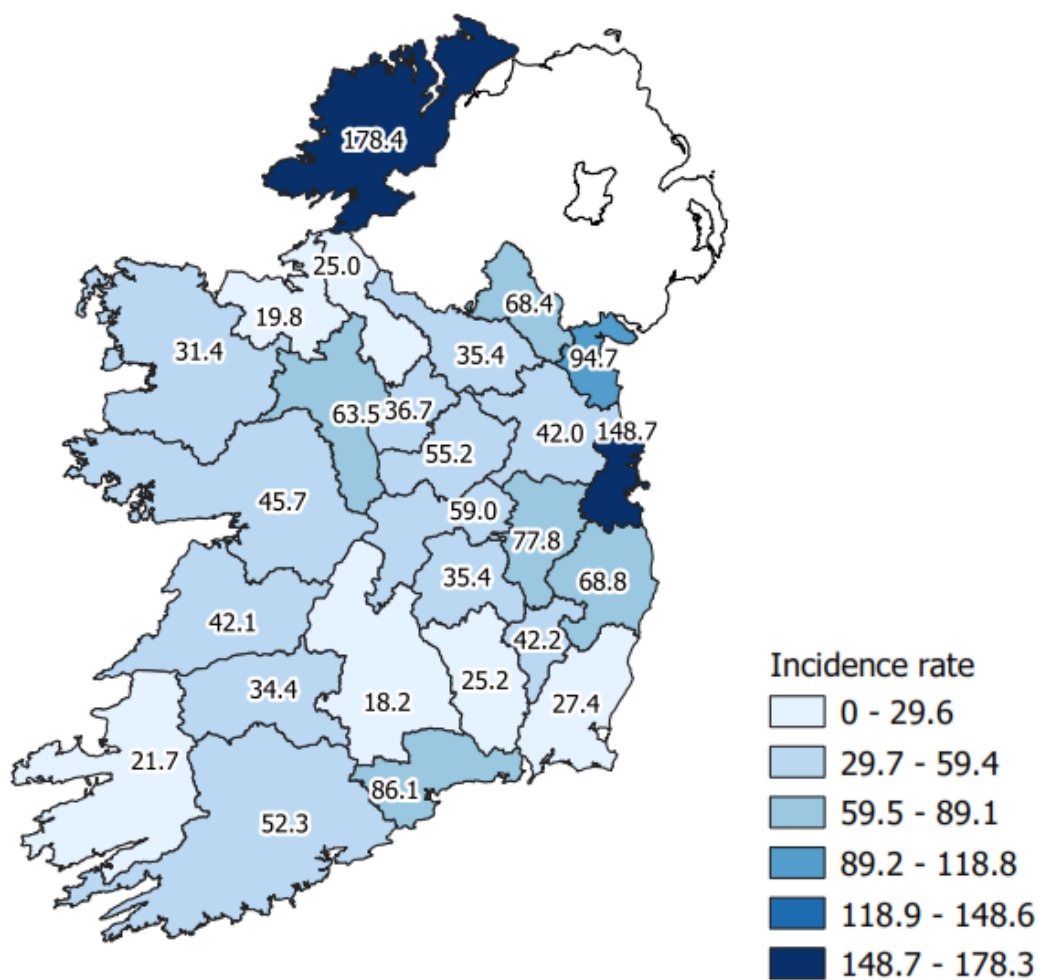| County	Number of confirmed cases	Incidence per 100,000 population
Carlow	24	42.2
Cavan	27	35.4
Clare	50	42.1
Cork	284	52.3
Donegal	284	178.4
Dublin	2004	148.7
Galway	118	45.7
Kerry	32	21.7
Kildare	173	77.8
Kilkenny	25	25.2
Laois	30	35.4
Leitrim	8	25.0
Limerick	67	34.4
Longford	15	36.7
Louth	122	94.7
Mayo	41	31.4
Meath	82	42.0
Monaghan	42	68.4
Offaly	46	59.0
Roscommon	41	63.5
Sligo	13	19.8
Tipperary	29	18.2
Waterford	100	86.1
Westmeath	49	55.2
Wexford	41	27.4
Wicklow	98	68.8
Ireland	**3845**	**80.7**

Figure 3: Cumulative incidence rates of confirmed COVID-19 cases per 100,000 population, by county, notified in Ireland from 12/09/2020 to midnight 25/09/2020

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 12/09/2020 to midnight 25/09/2020

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	102	75.0
CCA2	Dublin South East	206	166.5
CCA3	Dublin South City	184	122.7
CCA4	Dublin South West	260	161.6
CCA5	Dublin West	237	152.6
CCA6	Dublin North West	413	198.9
CCA7	Dublin North Central	280	181.1
CCA8	Dublin North	319	123.1
	Dublin	**2001**	**148.5**

Note: CAA not spcified for three cases

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 12/09/2020 to midnight 25/09/2020

Most likely transmission source	Number of cases	Percent
Travel related	89	2.31%
Close contact with a known confirmed case	2,165	56.31%
Healthcare setting acquired: patient	42	1.09%
Healthcare setting acquired: staff	43	1.12%
Community transmission	1,037	26.97%
Under investigation	469	12.20%
Total	**3,845**	**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
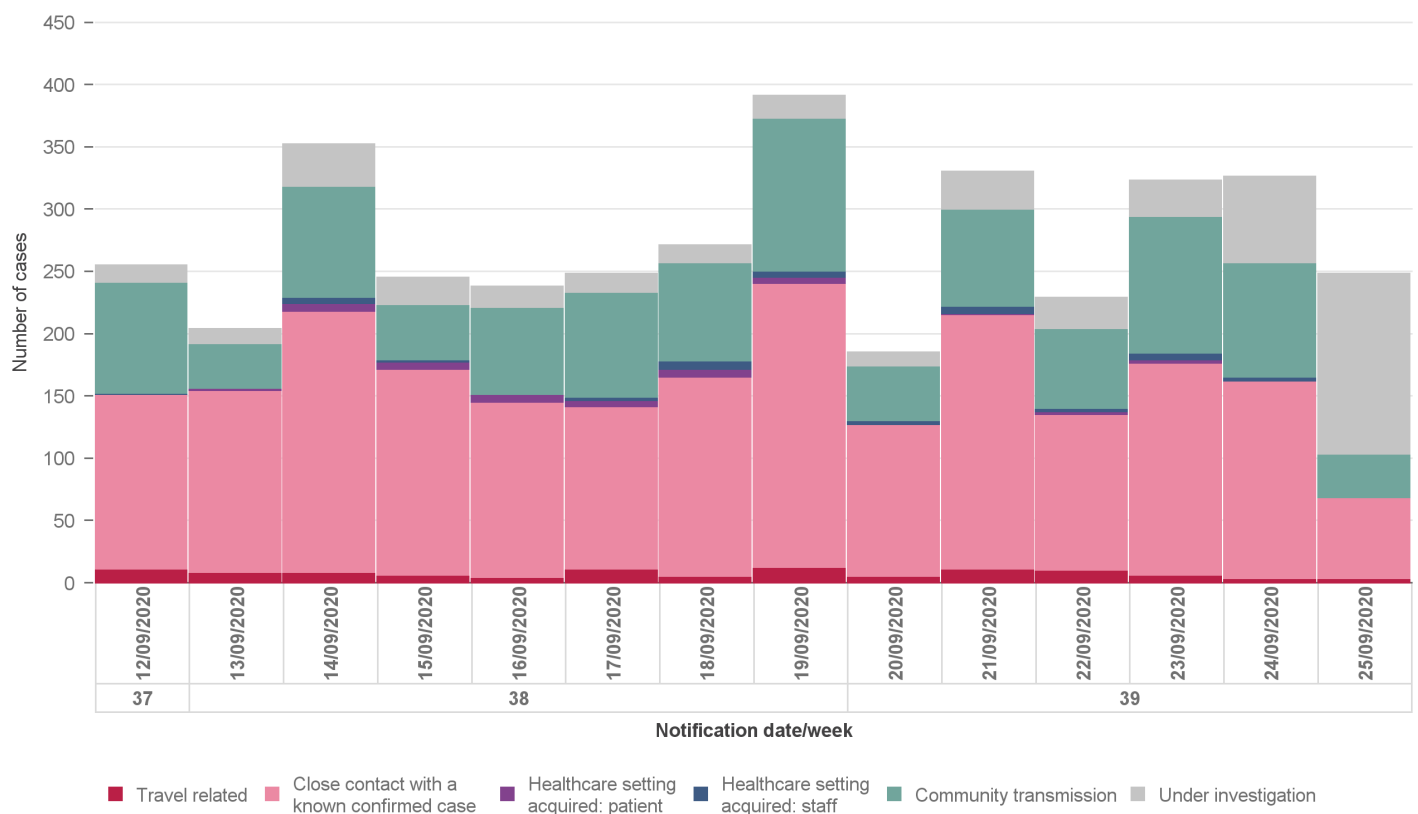

Figure 4: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and most likely transmission source from 12/09/2020 to midnight 25/09/2020
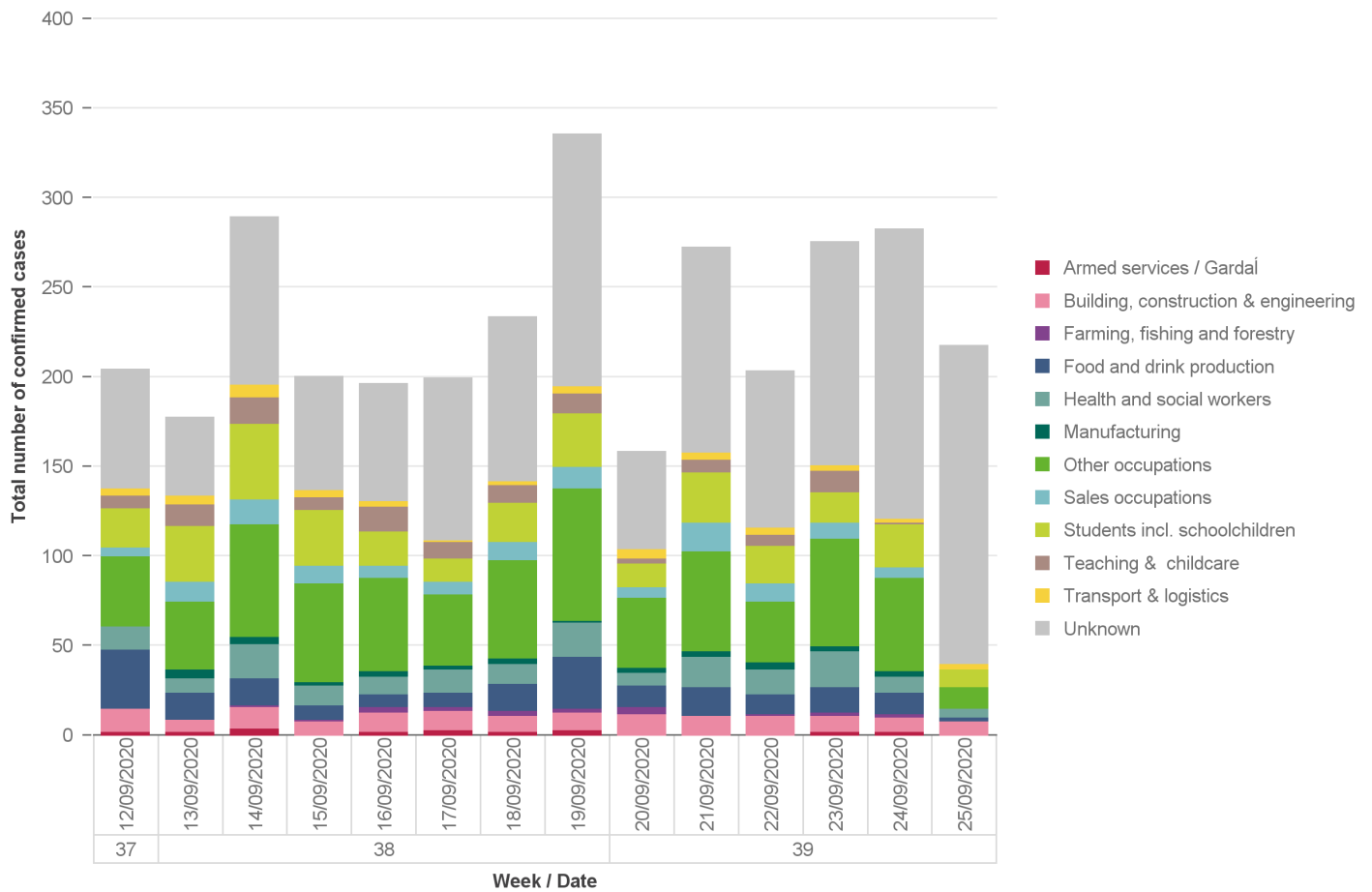
Figure 5: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and occupation* from 12/09/2020 to midnight 25/09/2020

*Among cases aged 16-69 years

Table 7: Cumulative number of confirmed cases of COVID-19 notified in Ireland from 12/09/2020 to midnight 25/09/2020 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	115	2	1.71	0	0
5-14 yrs	316	1	0.85	0	0
15-24 yrs	926	7	5.98	0	0
25-34 yrs	662	6	5.13	0	0
35-44 yrs	551	10	8.55	4	30.77
45-54 yrs	527	17	14.53	2	15.38
55-64 yrs	370	22	18.8	5	38.46
65-74 yrs	237	26	22.22	2	15.38
75-84 yrs	101	17	14.53	0	0
85+ yrs	38	9	7.69	0	0
Unknown	2			0	0
Total	**3,845**	**117**	**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

1. Data Source

Data are based on statutory notifications and were extracted from Computerised Infectious Disease Reporting (CIDR) system at 13:21 on 26/09/2020. 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.