Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 23/09/2020
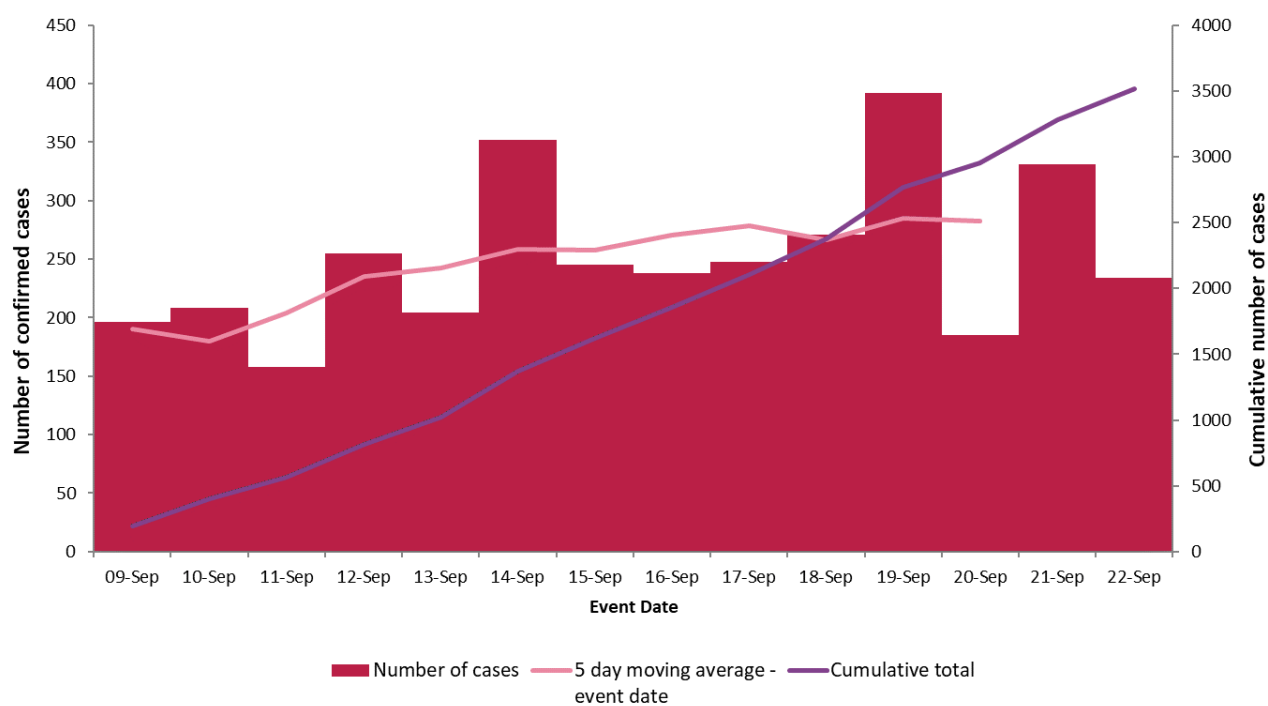
Summary characteristics of confirmed COVID-19 cases notified in Ireland from 09/09/2020 up to midnight 22/09/2020

	Number	Percent
Total number of confirmed cases	3,517	
National incidence of confirmed cases per 100,000 population	73.86	
Number of cases hospitalised*	116	3.3
Number of cases admitted to ICU*	14	0.4
Number of deaths among confirmed cases	6	0.17
Case fatality ratio (CFR, %)	0.17	
National incidence of confirmed deaths per 100,000 population	0.13	
Number of cases** associated with clusters	1,834	52.15
Number of imported cases	27	0.77
Number of cases in healthcare workers	244	6.94
Males	1,734	49.3
Females	1,780	50.61
M:F ratio	0.97	
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 09/09/2020 - 22/09/2020
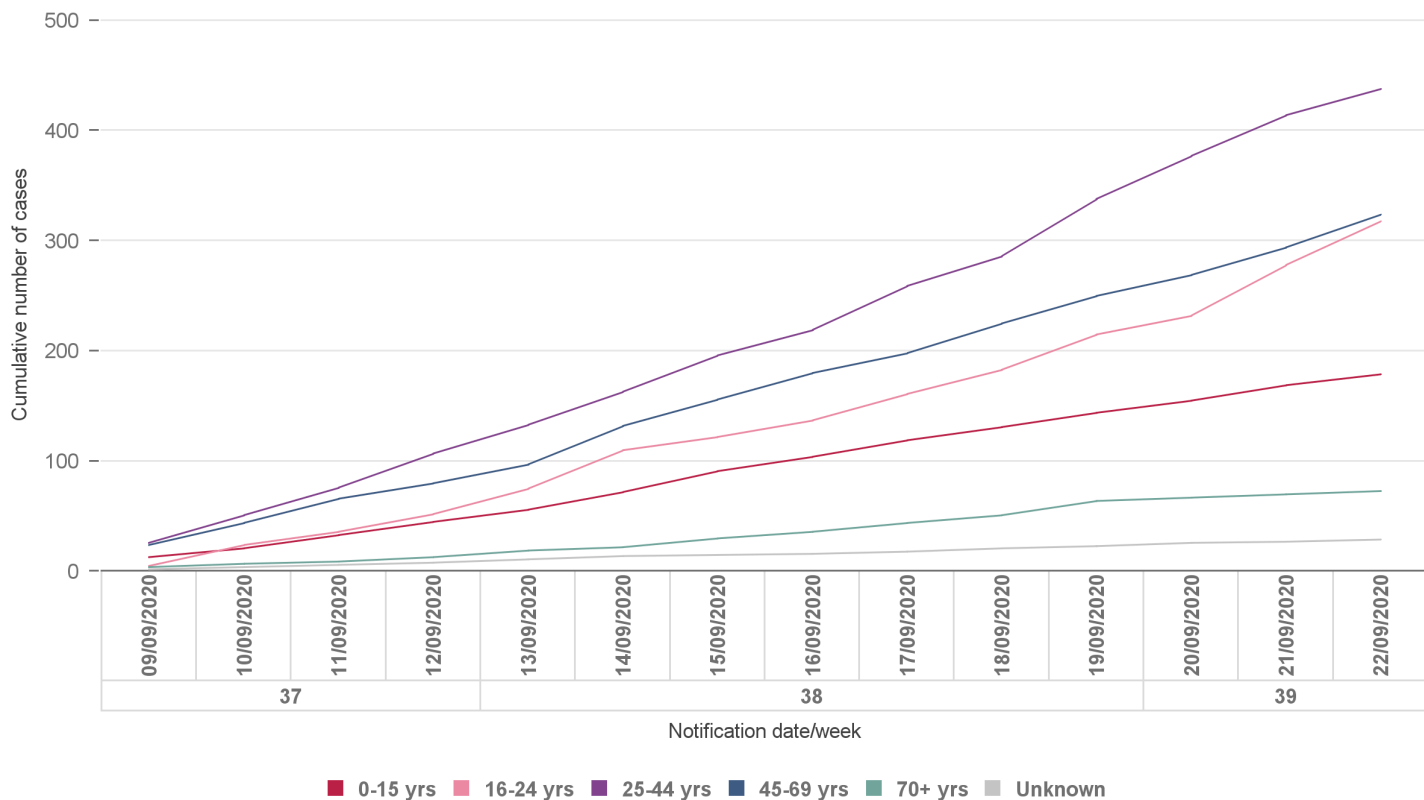
Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 13:21 on 23/09/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.

Figure 1. Daily number and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date (n=3,517)

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 09/09/2020 up to midnight on 22/09/202

Characteristic		Number of cases	Percent
Total number of confirmed cases		3,517	100
Sex	Male:Female ratio	0.97	
	Male	1,734	49.3
	Female	1,780	50.61
	Unknown	3	0.09
Age	Median age (years)	33	
	Mean age (years)	36	
	Age range (years)	0 - 99	
	0-4 yrs	115	3.27
	5-14 yrs	309	8.79
	15-24 yrs	811	23.06
	25-34 yrs	603	17.15
	35-44 yrs	513	14.59
	45-54 yrs	478	13.59
	55-64 yrs	340	9.67
	65-74 yrs	222	6.31
	75-84 yrs	84	2.39
	85+ yrs	41	1.17
	Unknown	1	0.03
Underlying clinical conditions	Yes	1,006	28.6
	No	2,194	62.38
	Unknown	317	9.01

Figure 2: Cumulative number of confirmed COVID-19 cases notified in Ireland by date/week of notification and age group (years) from 09/09/2020 to midnight 22/09/2020

Table 2: Characteristics of confirmed COVID-19 cases by community healthcare organisation (CHO)*
notified from 09/09/2020 to midnight 22/09/2020

CHO Area	Cases		M:F ratio	Mean age (years)	Healthcare workers		Associated with clusters	
	N	%			N	%	N	%
CHO1	257	7.31	1.18	34	10	3.89	150	58.37
CHO2	176	5	1.07	31	13	7.39	108	61.36
CHO3	140	3.98	1.06	42	8	5.71	105	75
CHO4	223	6.34	0.94	37	13	5.83	159	71.3
CHO5	208	5.91	1.45	34	7	3.37	128	61.54
CHO6	382	10.86	0.84	38	23	6.02	171	44.76
CHO7	820	23.32	0.98	35	53	6.46	398	48.54
CHO8	357	10.15	0.96	35	33	9.24	250	70.03
CHO9	954	27.13	0.88	38	84	8.81	365	38.26
National	**3,517**	**100**	**0.97**	**36**	**244**	**6.94**	**1,834**	**52.15**

Table 3: Number of confirmed COVID-19 cases by community healthcare organisation (CHO)
notified in Ireland from 09/09/2020 to midnight 22/09/2020

CHO Area	Number of confirmed cases	Incidence per 100,000 population
CHO1	257	65.7
CHO2	176	38.8
CHO3	140	36.4
CHO4	223	32.3
CHO5	208	40.8
CHO6	382	99.7
CHO7	820	115.9
CHO8	357	57.6
CHO9	954	153.5
Ireland	**3,517**	**73.9**

*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
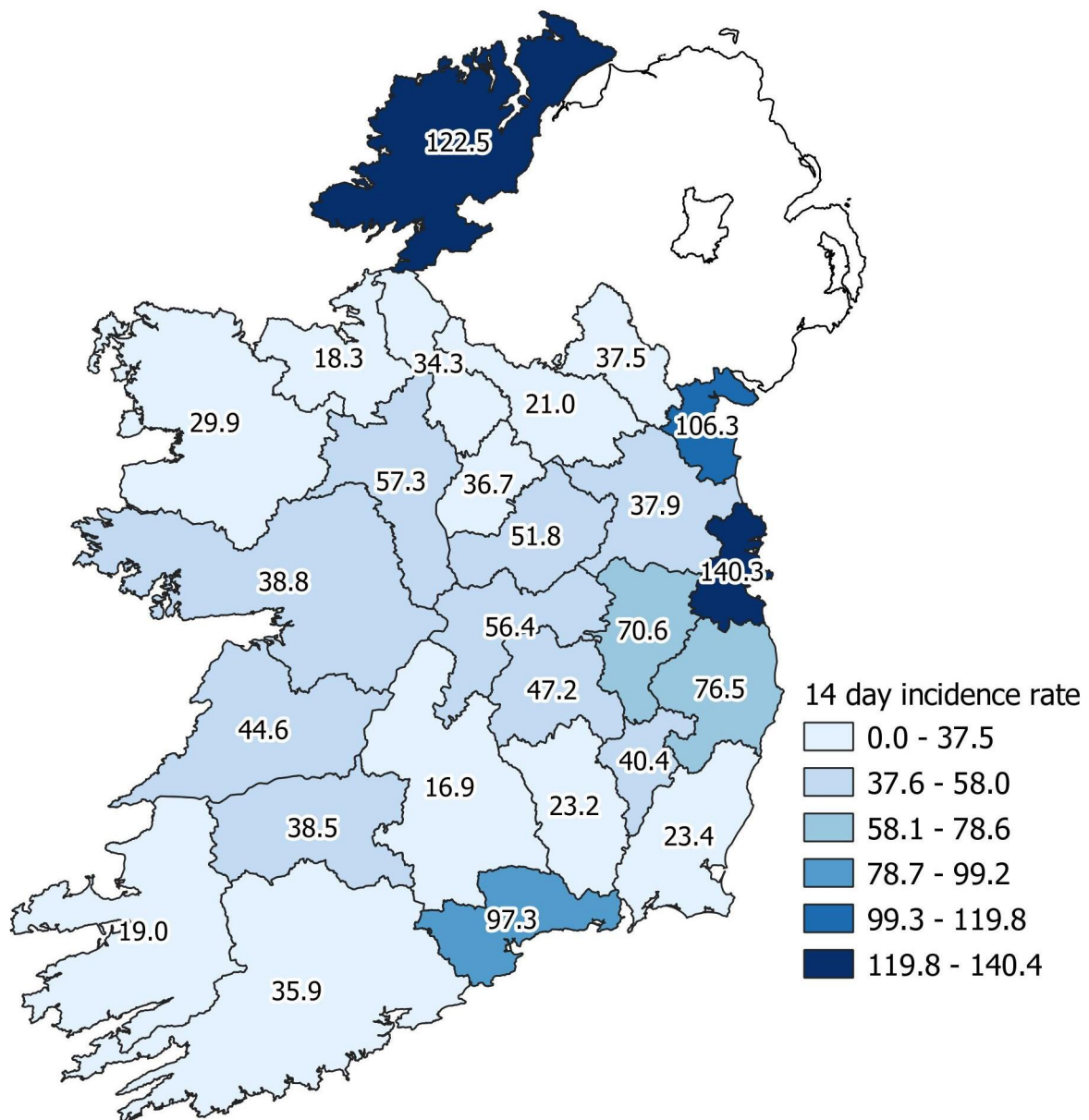CHO6: Dublin South East, Dun Laoghaire, Wicklow
CHO7: Dublin South City, Dublin South West, Dublin West, Kildare/West Wicklow
CHO8: Laois, Longford, Louth, Meath, Offaly, Westmeath
CHO9: Dublin North, Dublin North Central & Dublin North West

Table 4: Number of confirmed COVID-19 cases by county notified in Ireland from 09/09/2020 to midnight 22/09/2020

County	Number of confirmed cases	Incidence per 100,000 population
Carlow	23	40.4
Cavan	16	21.0
Clare	53	44.6
Cork	195	35.9
Donegal	195	122.5
Dublin	1890	140.3
Galway	100	38.8
Kerry	28	19.0
Kildare	157	70.6
Kilkenny	23	23.2
Laois	40	47.2
Leitrim	11	34.3
Limerick	75	38.5
Longford	15	36.7
Louth	137	106.3
Mayo	39	29.9
Meath	74	37.9
Monaghan	23	37.5
Offaly	44	56.4
Roscommon	37	57.3
Sligo	12	18.3
Tipperary	27	16.9
Waterford	113	97.3
Westmeath	46	51.8
Wexford	35	23.4
Wicklow	109	76.5
Ireland	**3,517**	**73.9**

14 day incidence rate

- 0.0 - 37.5
- 37.6 - 58.0
- 58.1 - 78.6
- 78.7 - 99.2
- 99.3 - 119.8
- 119.8 - 140.4

Figure 3: Cumulative incidence rates of confirmed COVID-19 cases per 100,000 population, by county, notified in Ireland from 09/09/2020 to midnight 22/09/2020

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 09/09/2020 to midnight 22/09/2020

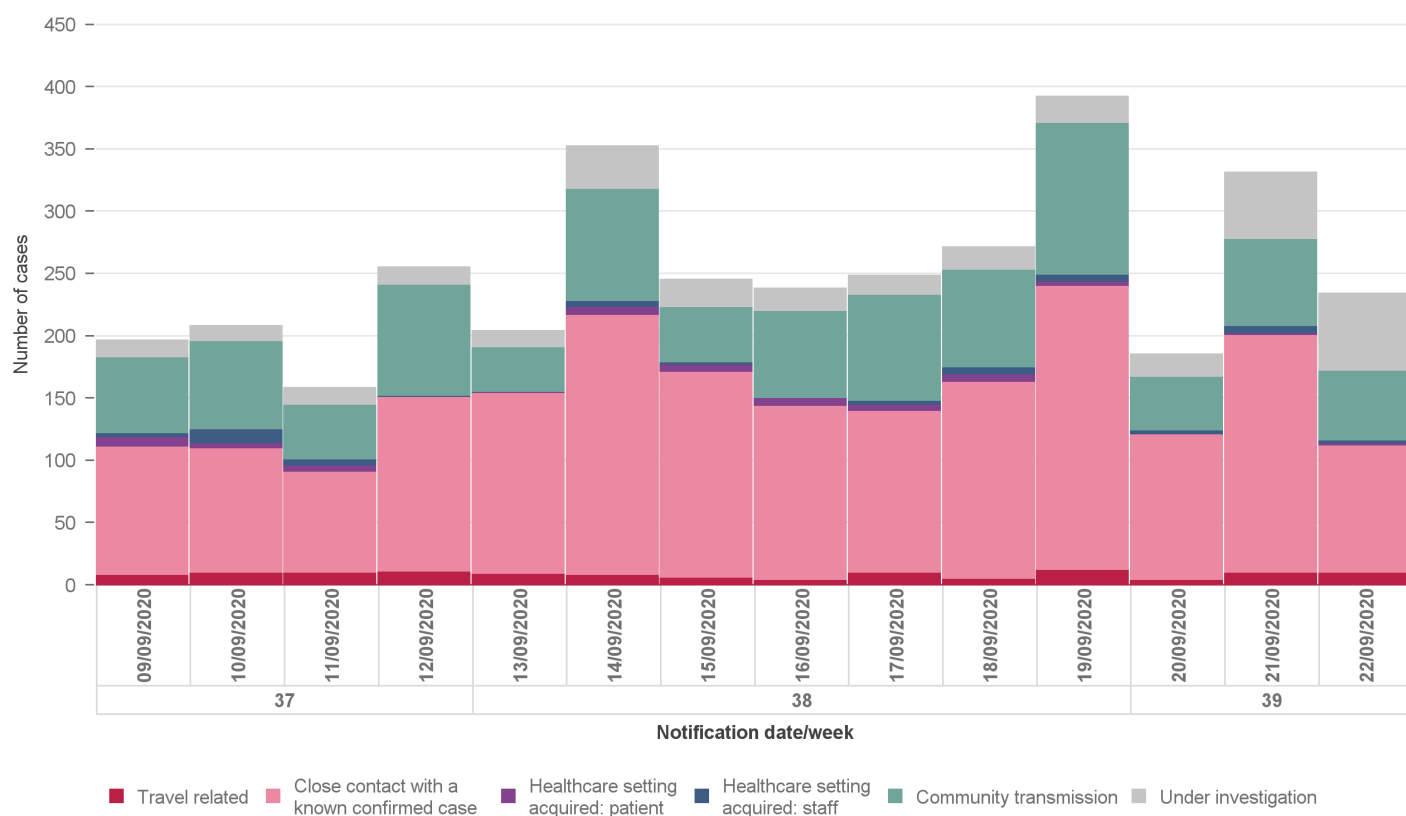| CCA	Local Health Office	Number of cases in past 14 days based on event date	14 day incidence rates based on event dates
CCA1	Dublin South	88	64.7
CCA2	Dublin South East	186	150.4
CCA3	Dublin South City	186	124.1
CCA4	Dublin South West	245	152.3
CCA5	Dublin West	231	148.7
CCA6	Dublin North West	416	200.3
CCA7	Dublin North Central	249	161.1
CCA8	Dublin North	289	111.5
	Dublin	**1890**	**140.3**

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.
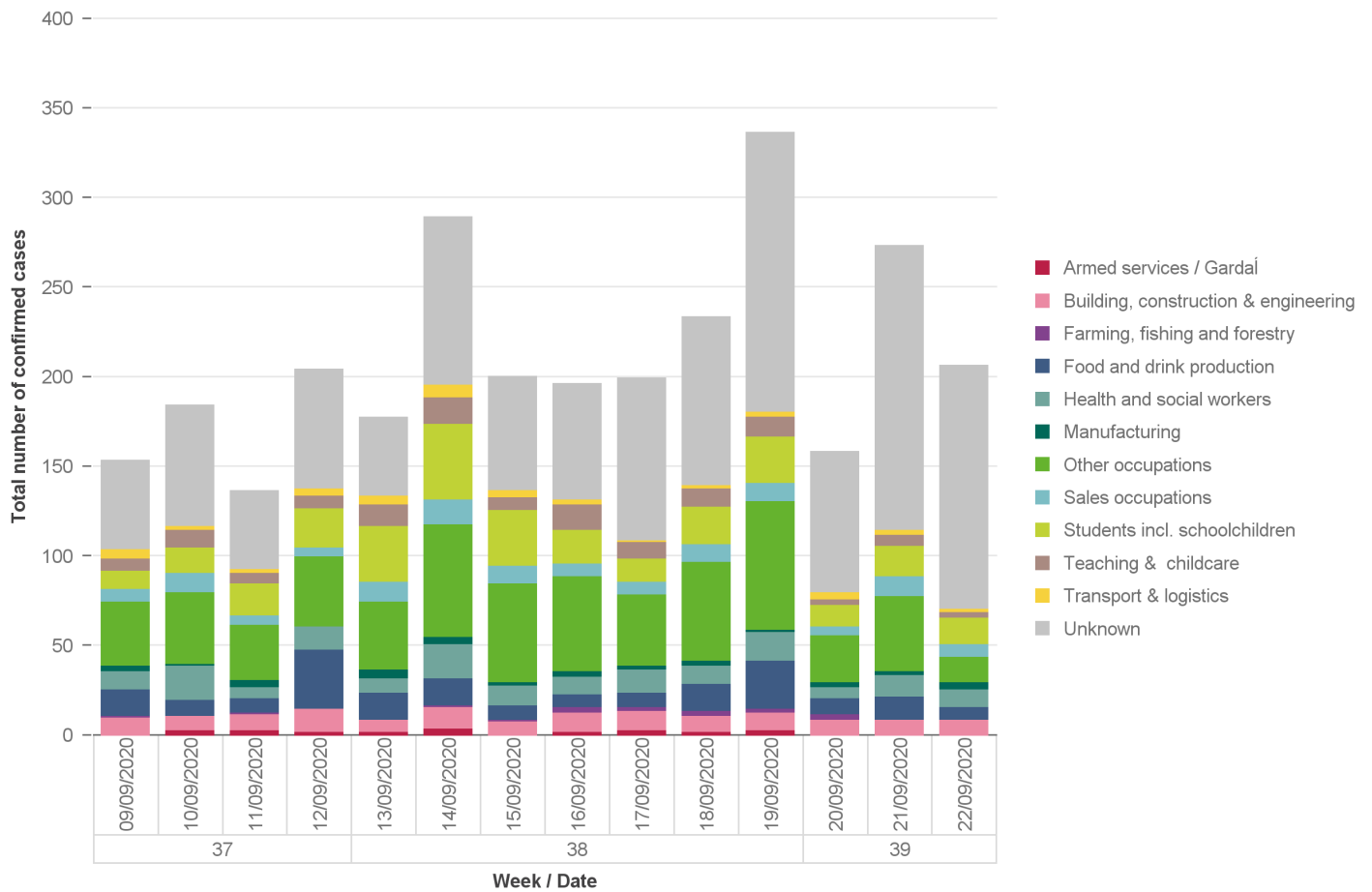
Table 6: Number of confirmed COVID-19 cases by most likely transmission source notified from 09/09/2020 to midnight 22/09/2020

Most likely transmission source	Number of cases	Percent
Travel related	103	2.93%
Close contact with a known confirmed case	2,009	57.12%
Healthcare setting acquired: patient	54	1.54%
Healthcare setting acquired: staff	52	1.48%
Community transmission	959	27.27%
Under investigation	340	9.67%
Total	**3,517**	**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 09/09/2020 to midnight 22/09/2020

Figure 5: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and occupation* from 09/09/2020 to midnight 22/09/2020

 *Among cases aged 16-69 years

Table 7: Cumulative number of confirmed cases of COVID-19 notified in Ireland from 09/09/2020 to midnight 22/09/2020 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	115	3	2.59	0	0
5-14 yrs	309			0	0
15-24 yrs	811	7	6.03	0	0
25-34 yrs	603	6	5.17	0	0
35-44 yrs	513	8	6.9	2	14.29
45-54 yrs	478	19	16.38	3	21.43
55-64 yrs	340	21	18.1	5	35.71
65-74 yrs	222	28	24.14	4	28.57
75-84 yrs	84	15	12.93	0	0
85+ yrs	41	9	7.76	0	0
Unknown	1			0	0
Total	**3,517**	**116**	**100**	**14**	**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 13:21 on 23/09/2020. 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.