Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 19/09/2020

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 05/09/2020 up to midnight 18/09/2020

	Number	Percent
Total number of confirmed cases	3,010	
National incidence of confirmed cases per 100,000 population	63.21	
Number of cases hospitalised*	85	2.82
Number of cases admitted to ICU*	7	0.23
Number of deaths among confirmed cases	6	0.2
Case fatality ratio (CFR, %)	0.2	
National incidence of confirmed deaths per 100,000 population	0.13	
Number of cases** associated with clusters	1,544	51.3
Number of imported cases	31	1.03
Number of cases in healthcare workers	231	7.67
Males	1,495	49.67
Females	1,507	50.07
M:F ratio	0.99	
Median age (years)	33	
Mean age (years)	36	
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 05/09/2020 - 18/09/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 13:39 on 19/09/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.
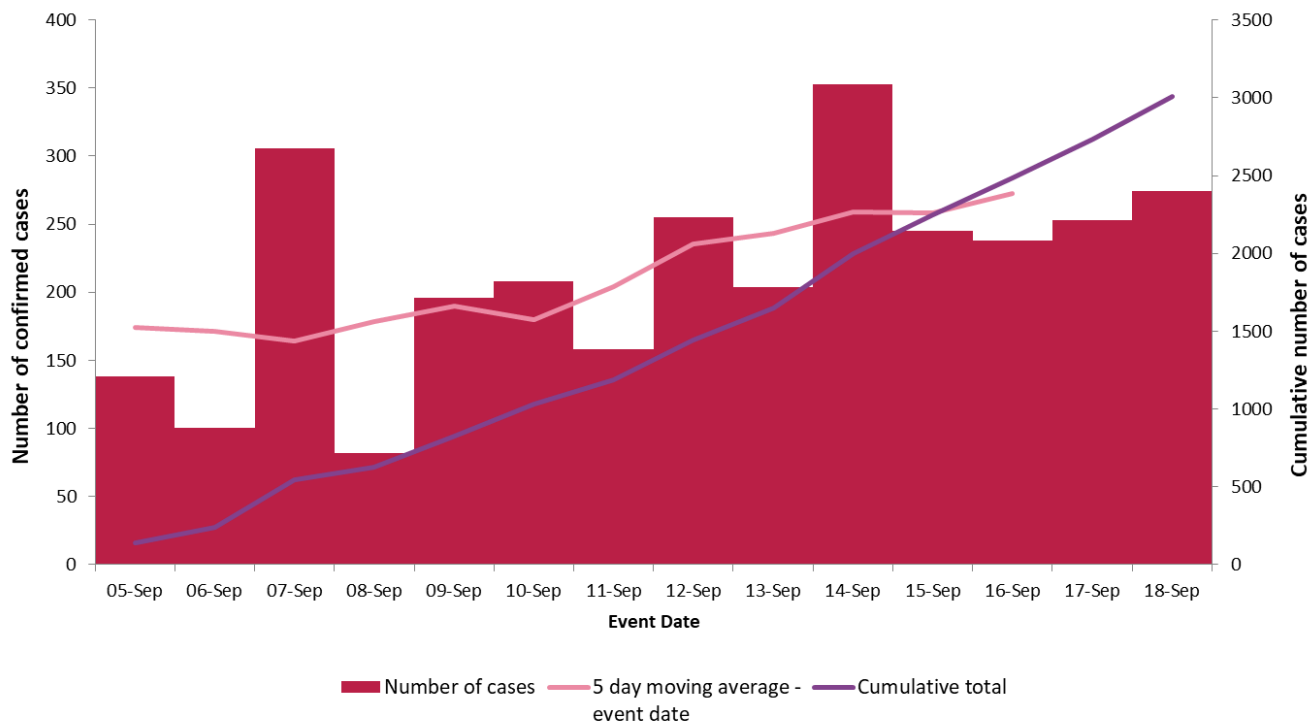
Figure 1. Daily number and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date (n=3,010)

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 05/09/2020 up to midnight on 18/09/202

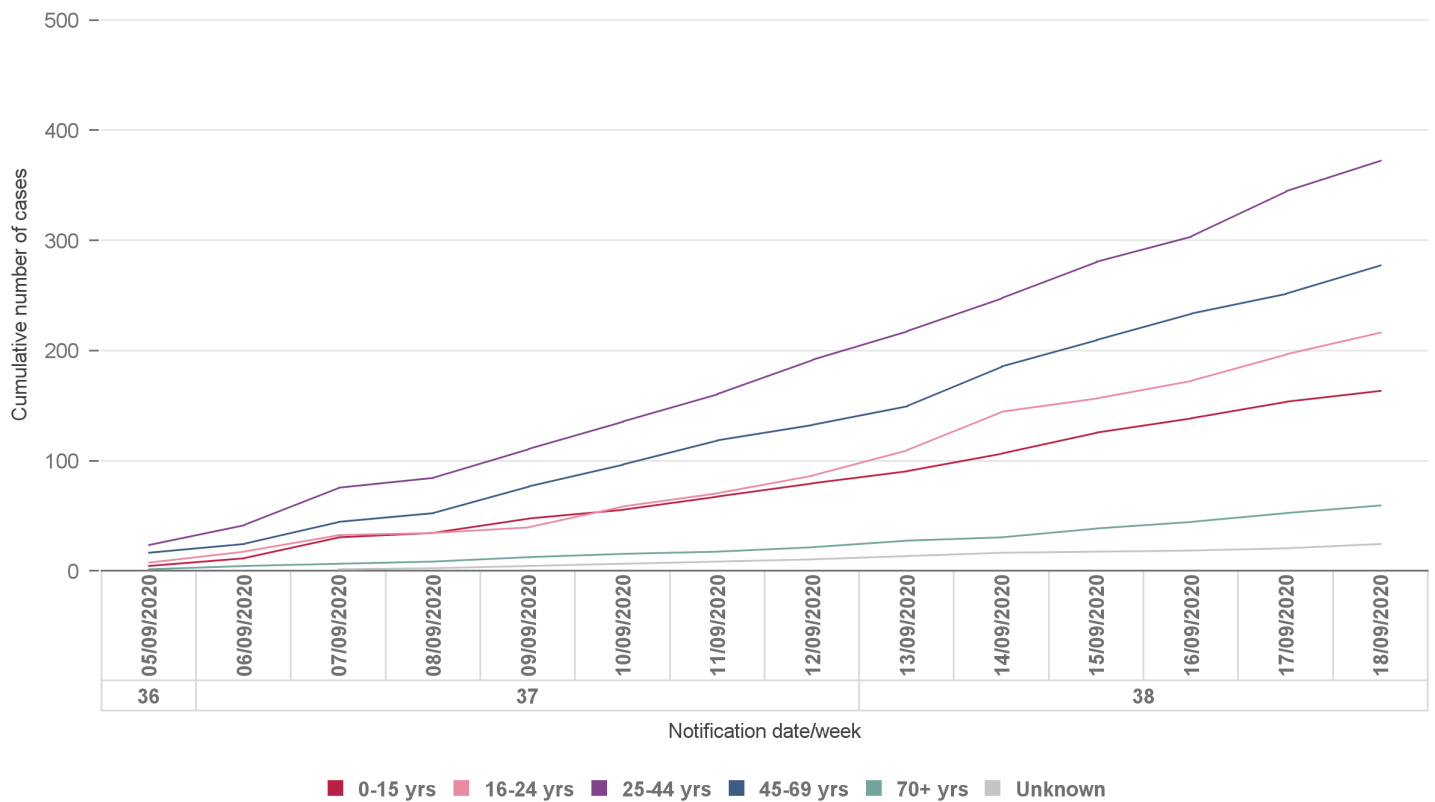| Characteristic		Number of cases	Percent
Total number of confirmed cases		3,010	100
Sex	Male:Female ratio	0.99	
	Male	1,495	49.67
	Female	1,507	50.07
	Unknown	8	0.27
Age	Median age (years)	33	
	Mean age (years)	36	
	Age range (years)	0 - 98	
	0-4 yrs	122	4.05
	5-14 yrs	272	9.04
	15-24 yrs	650	21.59
	25-34 yrs	512	17.01
	35-44 yrs	444	14.75
	45-54 yrs	410	13.62
	55-64 yrs	304	10.1
	65-74 yrs	191	6.35
	75-84 yrs	71	2.36
	85+ yrs	34	1.13
Underlying clinical conditions	Yes	843	28.01
	No	1,842	61.2
	Unknown	325	10.8

Figure 2: Cumulative number of confirmed COVID-19 cases notified in Ireland by date/week of notification and age group (years) from 05/09/2020 to midnight 18/09/2020

Table 2: Characteristics of confirmed COVID-19 cases by community healthcare organisation (CHO)* notified from 05/09/2020 to midnight 18/09/2020

CHO Area	Cases		M:F ratio	Mean age (years)	Healthcare workers		Associated with clusters	
	N	%			N	%	N	%
CHO1	175	5.81	1.15	33	10	5.71	122	69.71
CHO2	126	4.19	0.85	32	9	7.14	80	63.49
CHO3	153	5.08	1.14	42	6	3.92	113	73.86
CHO4	119	3.95	1.38	37	5	4.2	69	57.98
CHO5	218	7.24	1.18	34	11	5.05	99	45.41
CHO6	354	11.76	0.87	38	26	7.34	143	40.4
CHO7	690	22.92	1.09	35	53	7.68	278	40.29
CHO8	326	10.83	0.87	36	29	8.9	229	70.25
CHO9	849	28.21	0.9	37	82	9.66	411	48.41
National	**3,010**	**100**	**0.99**	**36**	**231**	**7.67**	**1,544**	**51.3**

Table 3: Number of confirmed COVID-19 cases by community healthcare organisation (CHO) * notified in Ireland from 05/09/2020 to midnight 18/09/2020

CHO Area	Number of confirmed cases	Incidence per 100,000 population
CHO1	175	44.7
CHO2	126	27.8
CHO3	153	39.7
CHO4	119	17.2
CHO5	218	42.7
CHO6	354	92.4
CHO7	690	97.5
CHO8	326	52.6
CHO9	849	136.6
Ireland	**3,010**	**63.2**

*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 05/09/2020 to midnight 18/09/2020

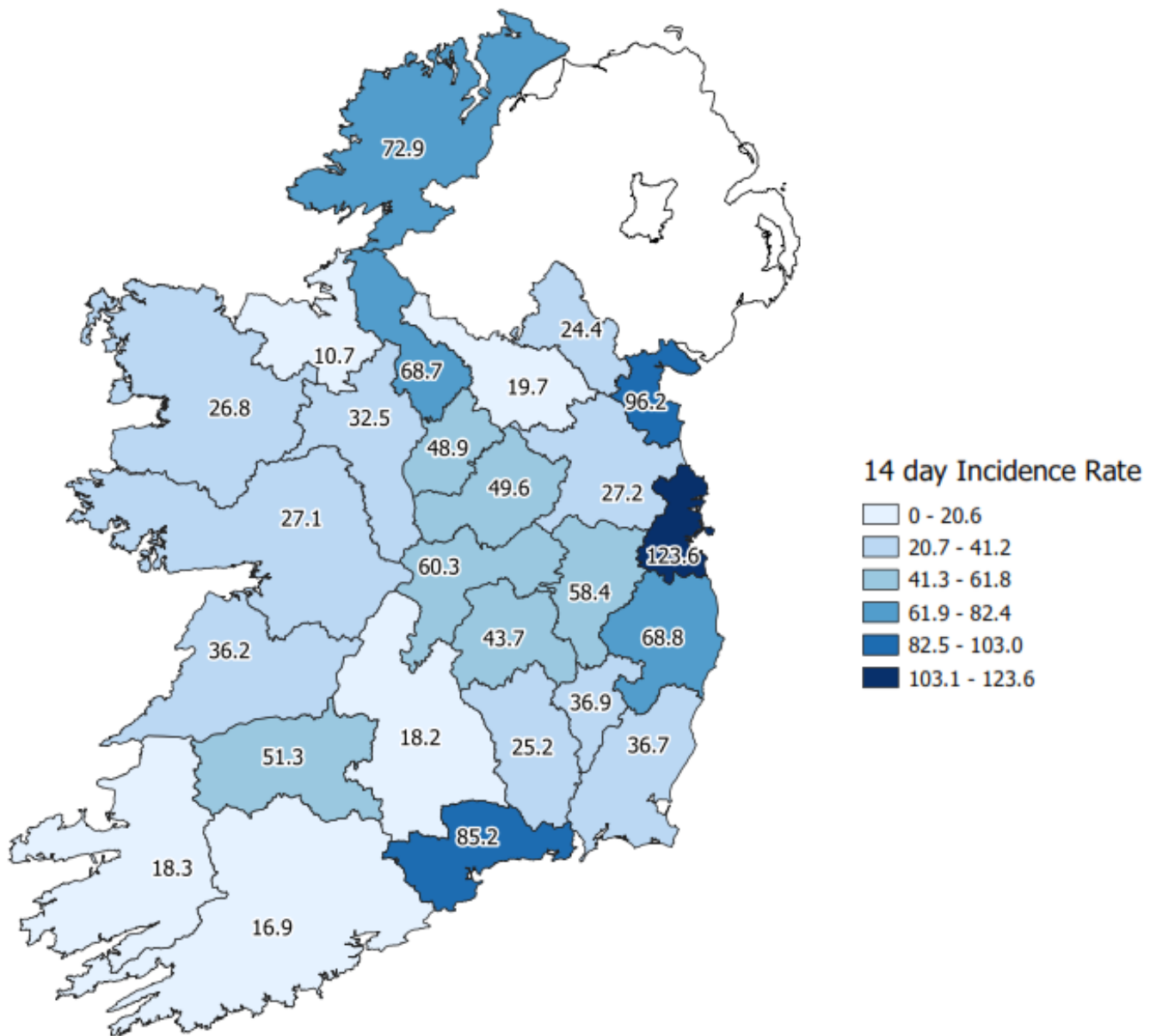| County	Number of confirmed cases	Incidence per 100,000 population
Carlow	21	36.9
Cavan	15	19.7
Clare	43	36.2
Cork	92	16.9
Donegal	116	72.9
Dublin	1665	123.6
Galway	70	27.1
Kerry	27	18.3
Kildare	130	58.4
Kilkenny	25	25.2
Laois	37	43.7
Leitrim	22	68.7
Limerick	100	51.3
Longford	20	48.9
Louth	124	96.2
Mayo	35	26.8
Meath	53	27.2
Monaghan	15	24.4
Offaly	47	60.3
Roscommon	21	32.5
Sligo	7	10.7
Tipperary	29	18.2
Waterford	99	85.2
Westmeath	44	49.6
Wexford	55	36.7
Wicklow	98	68.8
Ireland	**3,010**	**63.2**

Figure 3: Cumulative incidence rates of confirmed COVID-19 cases per 100,000 population, by county, notified in Ireland from 05/09/2020 to midnight 18/09/2020

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 in Ireland with a notification date between 05/09/2020 and 18/09/2020

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	76	55.9
CCA2	Dublin South East	183	147.9
CCA3	Dublin South City	152	101.4
CCA4	Dublin South West	202	125.5
CCA5	Dublin West	203	130.7
CCA6	Dublin North West	389	187.3
CCA7	Dublin North Central	191	123.6
CCA8	Dublin North	269	103.8
	Dublin	**1665**	**123.6**

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 05/09/2020 to midnight 18/09/2020

Most likely transmission source	Number of cases	Percent
Travel related	108	3.59%
Close contact with a known confirmed case	1,671	55.51%
Healthcare setting acquired: patient	47	1.56%
Healthcare setting acquired: staff	55	1.83%
Community transmission	795	26.41%
Under investigation	334	11.10%
Total	**3,010**	**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
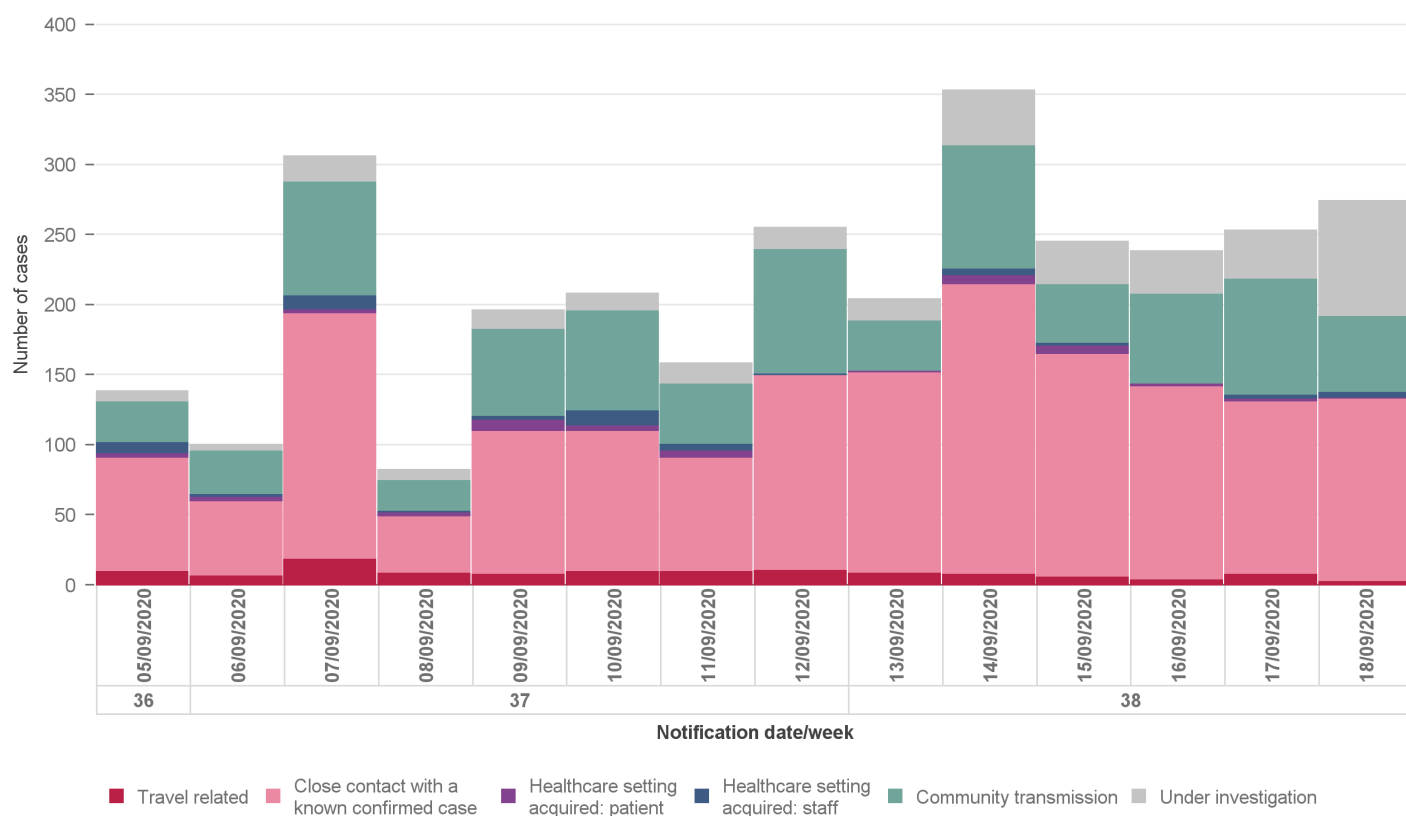

Figure 3: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and most likely transmission source from 05/09/2020 to midnight 18/09/2020
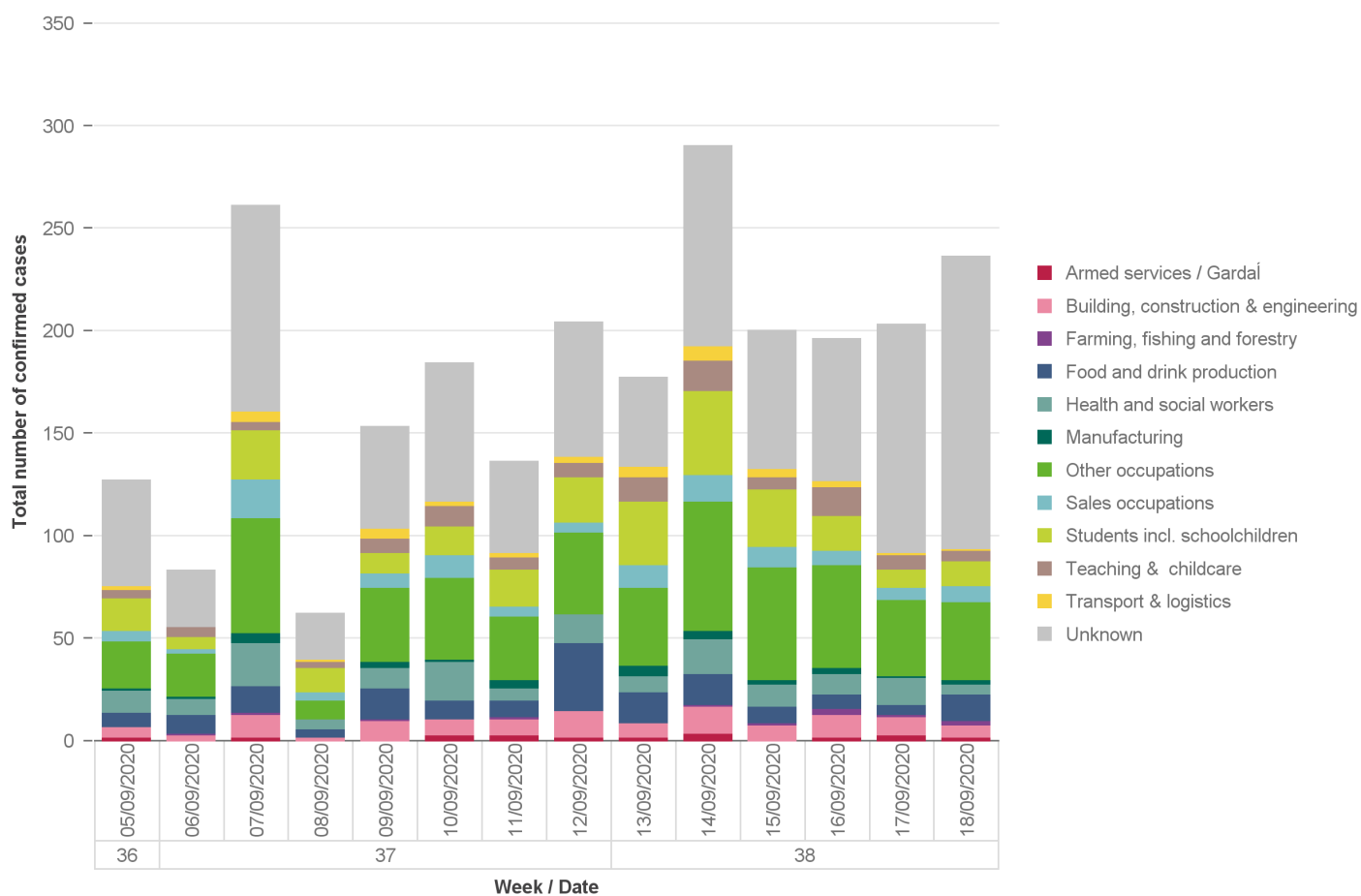
Figure 4: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and occupation* from 05/09/2020 to midnight 18/09/2020

 *Among cases aged 16-69 years

Table 7: Cumulative number of confirmed cases of COVID-19 notified in Ireland from 05/09/2020 to midnight 18/09/2020 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	122	4	4.71	0	0
5-14 yrs	272			0	0
15-24 yrs	650	7	8.24	0	0
25-34 yrs	512	4	4.71	0	0
35-44 yrs	444	1	1.18	0	0
45-54 yrs	410	14	16.47	1	14.29
55-64 yrs	304	12	14.12	4	57.14
65-74 yrs	191	24	28.24	2	28.57
75-84 yrs	71	13	15.29	0	0
85+ yrs	34	6	7.06	0	0
Total	**3,010**	**85**	**100**	**7**	**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 13:39 on 9/19/20. 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.