



Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 16/09/2020

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 02/09/2020 up to midnight 15/09/2020

	Number	Percent
Total number of confirmed cases	2,679	
National incidence of confirmed cases per 100,000 population	56.26	
Number of cases hospitalised*	64	2.39
Number of cases admitted to ICU*	5	0.19
Number of deaths among confirmed cases	7	0.26
Case fatality ratio (CFR, %)	0.26	
National incidence of confirmed deaths per 100,000 population	0.15	
Number of cases** associated with clusters	1,007	37.59
Number of imported cases	43	1.61
Number of cases in healthcare workers	245	9.15
Males	1,311	48.94
Females	1,362	50.84
M:F ratio	0.96	
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
02/09/2020 - 15/09/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 13:42 on 16/09/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.

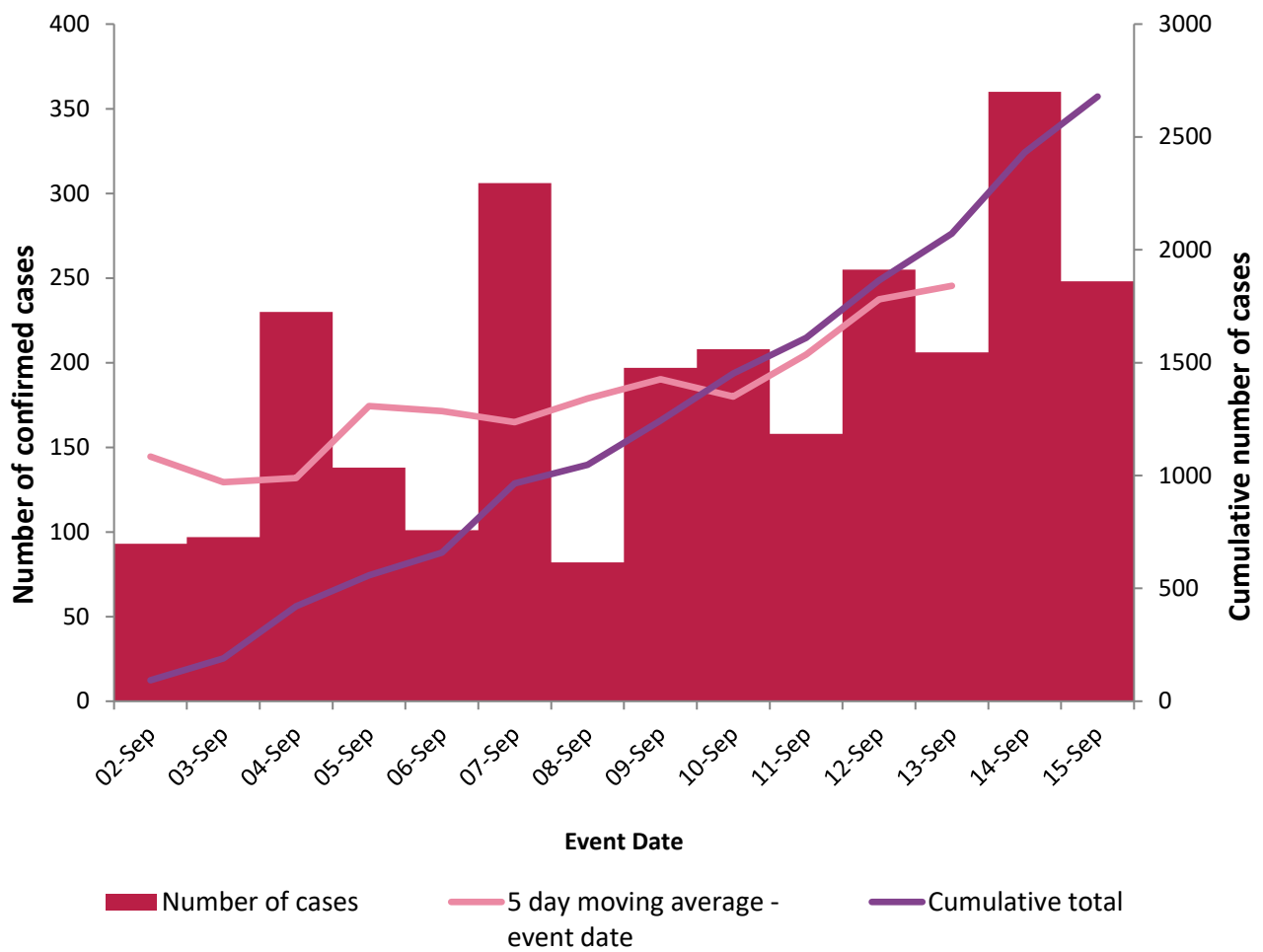


Figure 1. Daily number and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date (n=2,679)

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 02/09/2020 up to midnight on 15/09/202

Characteristic		Number of cases	Percent
Total number of confirmed cases		2,679	100
Sex	Male:Female ratio	0.96	
	Male	1,311	48.94
	Female	1,362	50.84
	Unknown	6	0.22
Age	Median age (years)	33	
	Mean age (years)	36	
	Age range (years)	0 - 98	
	0-4 yrs	110	4.11
	5-14 yrs	243	9.07
	15-24 yrs	580	21.65
	25-34 yrs	475	17.73
	35-44 yrs	388	14.48
	45-54 yrs	354	13.21
	55-64 yrs	263	9.82
	65-74 yrs	165	6.16
	75-84 yrs	63	2.35
	85+ yrs	37	1.38
	Unknown	1	0.04
Underlying clinical conditions	Yes	753	28.11
	No	1,596	59.57
	Unknown	330	12.32

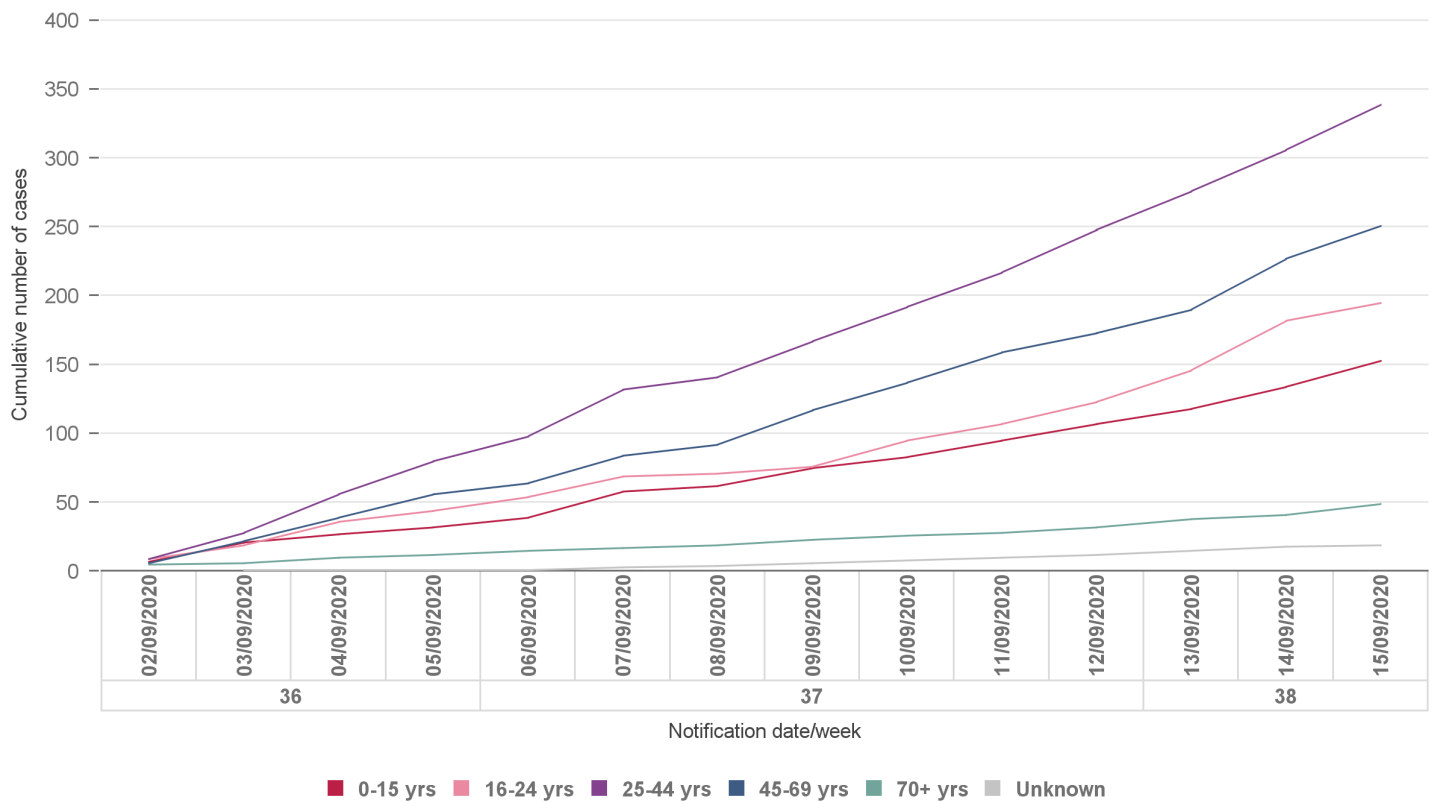


Figure 2: Cumulative number of confirmed COVID-19 cases notified in Ireland by date/week of notification and age group (years) from 02/09/2020 to midnight 15/09/2020

Table 2: Characteristics of confirmed COVID-19 cases by community healthcare organisation (CHO)* notified from 02/09/2020 to midnight 15/09/2020

CHO Area	Cases		M:F ratio	Mean age (years)	Healthcare workers		Associated with clusters	
	N	%			N	%	N	%
CHO1	135	5.04	1.25	33	11	8.15	95	70.37
CHO2	102	3.81	0.82	34	10	9.8	69	67.65
CHO3	142	5.3	1.22	40	5	3.52	103	72.54
CHO4	94	3.51	0.88	33	6	6.38	65	69.15
CHO5	209	7.8	1.13	33	11	5.26	89	42.58
CHO6	306	11.42	0.92	38	29	9.48	40	13.07
CHO7	618	23.07	1.01	36	54	8.74	96	15.53
CHO8	324	12.09	0.86	36	41	12.65	216	66.67
CHO9	749	27.96	0.89	36	78	10.41	234	31.24
National	2,679	100	0.96	36	245	9.15	1,007	37.59

Table 3: Number of confirmed COVID-19 cases by community healthcare organisation (CHO) notified in Ireland from 02/09/2020 to midnight 15/09/2020

CHO Area	Number of confirmed cases	Incidence per 100,000 population
CHO1	135	34.5
CHO2	102	22.5
CHO3	142	36.9
CHO4	94	13.6
CHO5	209	41.0
CHO6	306	79.9
CHO7	618	87.3
CHO8	324	52.3
CHO9	749	120.5
Ireland	2,679	56.3

*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 02/09/2020 to midnight 15/09/2020

County	Number of confirmed cases	Incidence per 100,000 population
Carlow	21	36.9
Cavan	14	18.4
Clare	34	28.6
Cork	61	11.2
Donegal	73	45.9
Dublin	1477	109.6
Galway	57	22.1
Kerry	33	22.3
Kildare	122	54.8
Kilkenny	31	31.2
Laois	38	44.9
Leitrim	26	81.1
Limerick	102	52.3
Longford	21	51.4
Louth	114	88.5
Mayo	26	19.9
Meath	58	29.7
Monaghan	17	27.7
Offaly	49	62.9
Roscommon	19	29.4
Sligo	5	7.6
Tipperary	30	18.8
Waterford	83	71.4
Westmeath	43	48.4
Wexford	51	34.1
Wicklow	74	52.0
Ireland	2,679	56.3

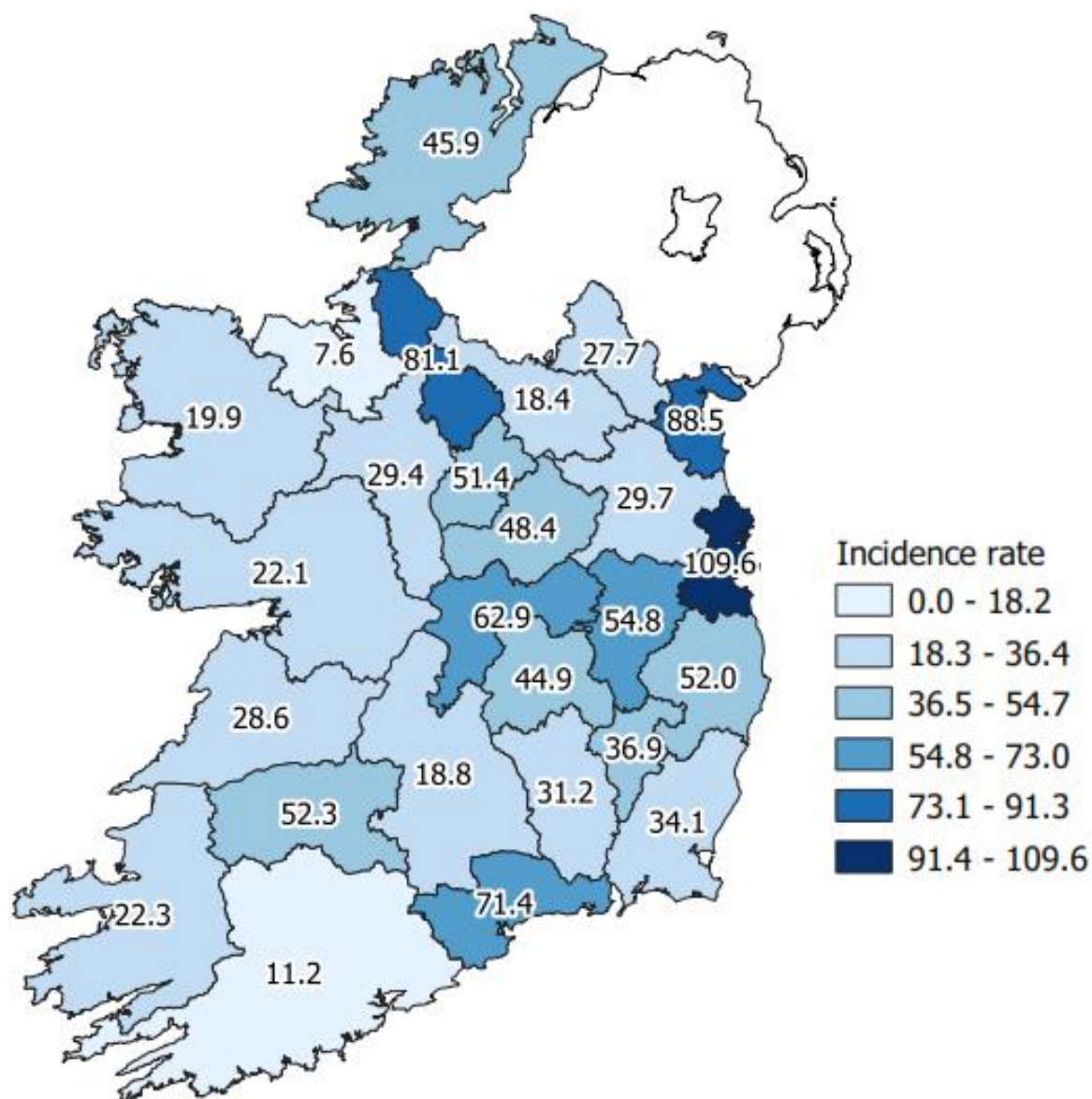


Figure 3: Cumulative incidence rates of confirmed cases of COVID-19 per 100,000 population, by county, notified in Ireland between 02/09/2020 and midnight 15/09/2020

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 02/09/2020 and 15/09/2020

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	68	50.0
CCA2	Dublin South East	166	134.2
CCA3	Dublin South City	142	94.7
CCA4	Dublin South West	185	115.0
CCA5	Dublin West	167	107.5
CCA6	Dublin North West	336	161.8
CCA7	Dublin North Central	165	106.7
CCA8	Dublin North	248	95.7
	Dublin	1477	109.6

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 02/09/2020 to midnight 15/09/2020

Most likely transmission source	Number of cases	Percent
Travel related	126	4.70%
Close contact with a known confirmed case	1,422	53.08%
Healthcare setting acquired: patient	53	1.98%
Healthcare setting acquired: staff	61	2.28%
Community transmission	688	25.68%
Under investigation	329	12.28%
Total	2,679	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

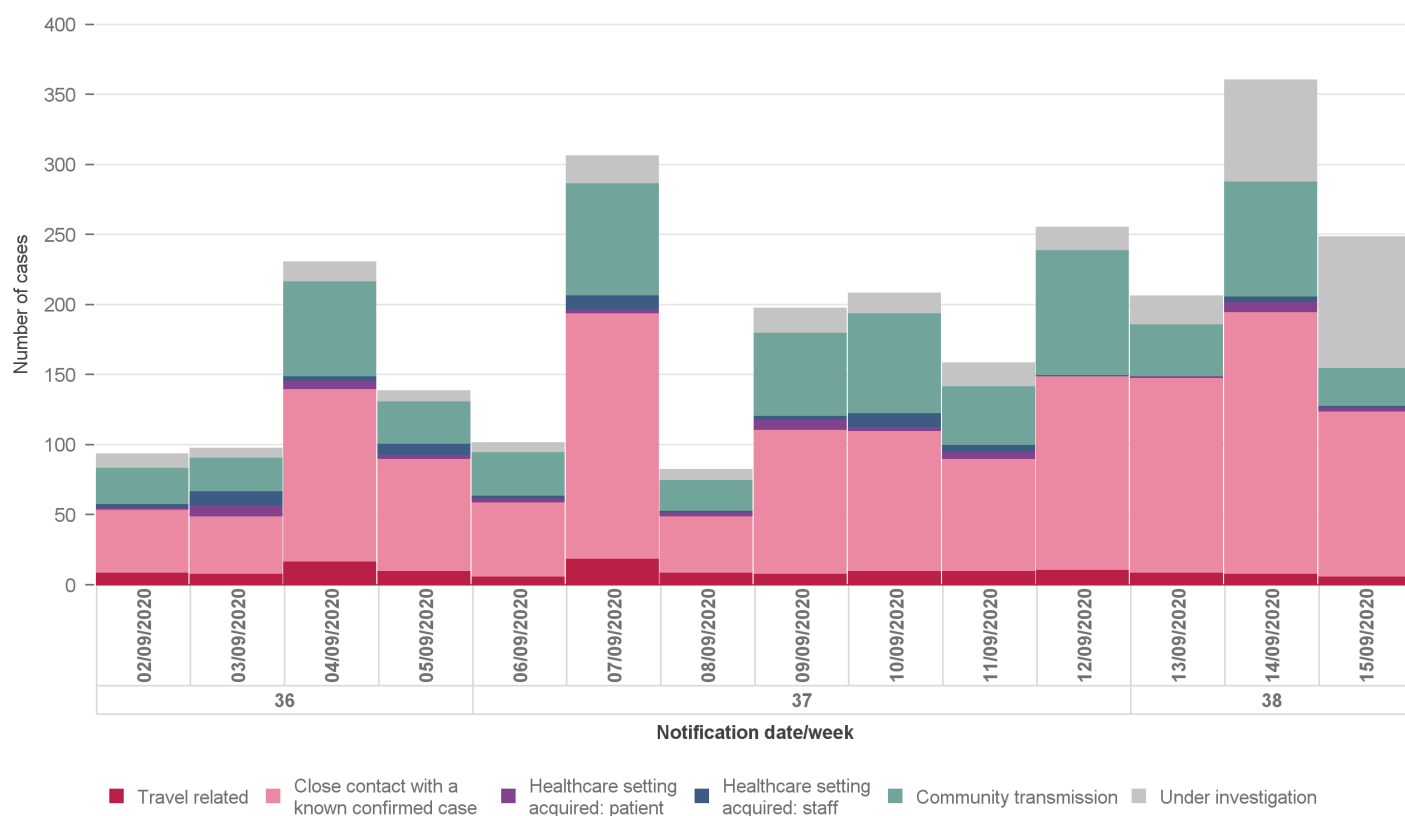


Figure 3: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and most likely transmission source from 02/09/2020 to midnight 15/09/2020

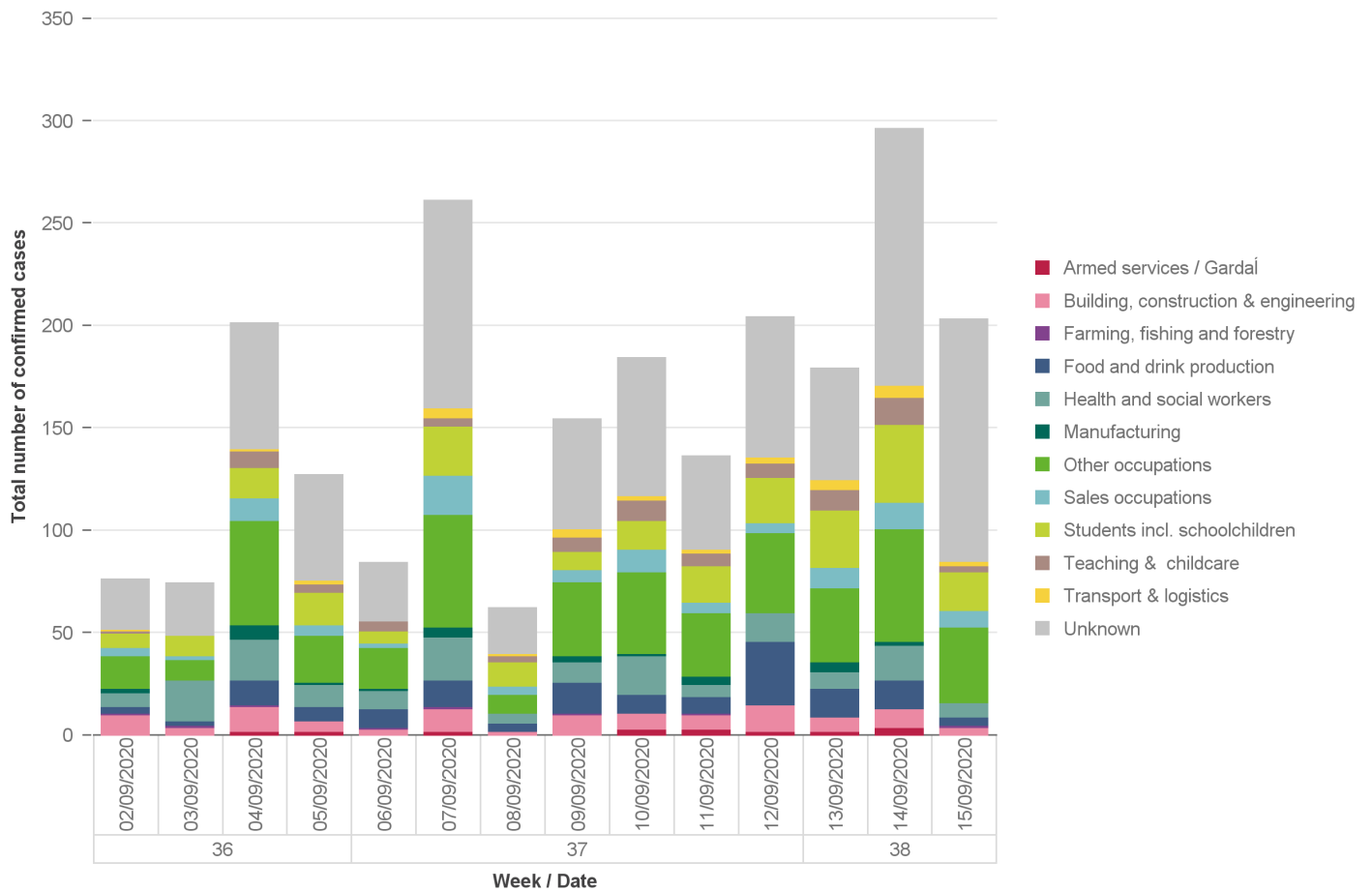


Figure 4: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and occupation* from 02/09/2020 to midnight 15/09/2020

*Among cases aged 16-69 years

Table 7: Cumulative number of confirmed cases of COVID-19 notified in Ireland from 02/09/2020 to midnight 15/09/2020 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	110	4	6.25	1	20
5-14 yrs	243	1	1.56	0	0
15-24 yrs	580	6	9.38	0	0
25-34 yrs	475	4	6.25	0	0
35-44 yrs	388			0	0
45-54 yrs	354	9	14.06	0	0
55-64 yrs	263	8	12.5	2	40
65-74 yrs	165	21	32.81	2	40
75-84 yrs	63	6	9.38	0	0
85+ yrs	37	5	7.81	0	0
Unknown	1			0	0
Total	2,679	64	100	5	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 13:42 on 16/09/2020. 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.