



Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 10/09/2020

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 27/08/2020 up to midnight 09/09/2020

	Number	Percent
Total number of confirmed cases	1,913	
National incidence of confirmed cases per 100,000 population	40.17	
Number of cases hospitalised*	56	2.93
Number of cases admitted to ICU*	3	0.16
Number of deaths among confirmed cases	2	0.1
Case fatality ratio (CFR, %)	0.1	
National incidence of confirmed deaths per 100,000 population	0.04	
Number of cases** associated with clusters	705	36.85
Number of imported cases	35	1.83
Number of cases in healthcare workers	218	11.4
Males	946	49.45
Females	961	50.24
M:F ratio	0.98	
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
27/08/2020 - 09/09/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 13:20 on 10/09/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.

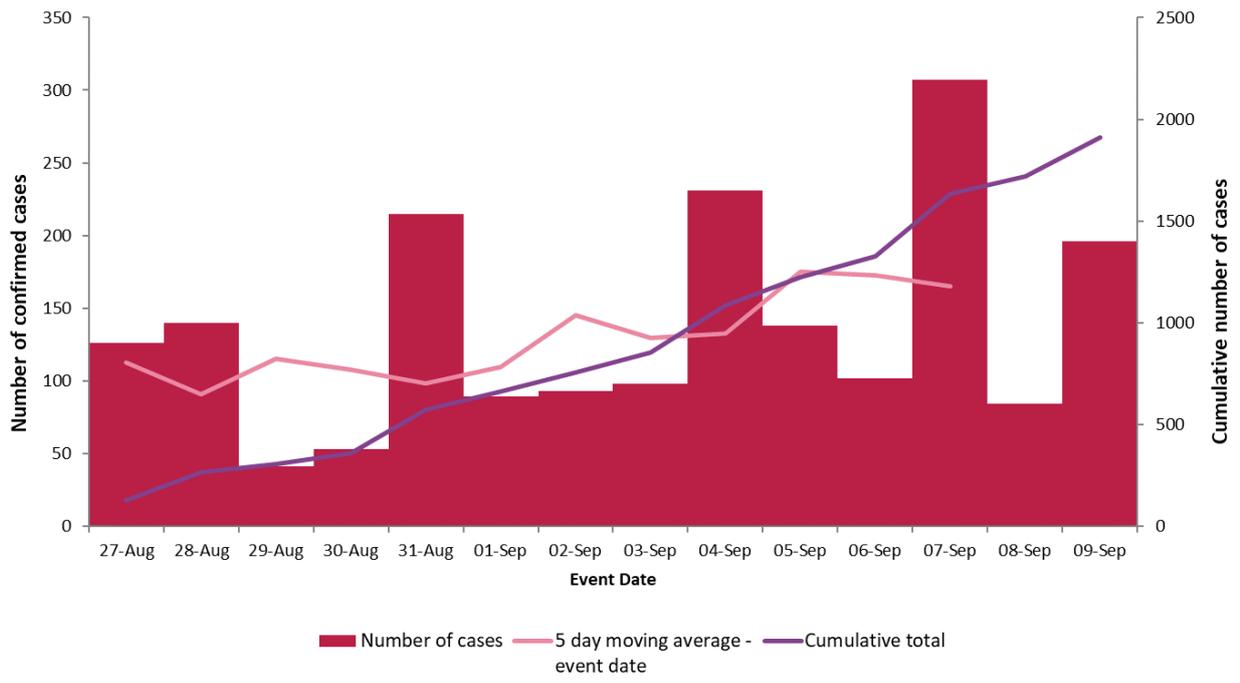


Figure 1. Daily number and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date (n=1,913)

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 27/08/2020 up to midnight on 09/09/202

Characteristic		Number of cases	Percent
Total number of confirmed cases		1,913	100
Sex	Male:Female ratio	0.98	
	Male	946	49.45
	Female	961	50.24
	Unknown	6	0.31
Age	Median age (years)	33	
	Mean age (years)	36	
	Age range (years)	0 - 98	
	0-4 yrs	76	3.97
	5-14 yrs	183	9.57
	15-24 yrs	394	20.6
	25-34 yrs	369	19.29
	35-44 yrs	308	16.1
	45-54 yrs	241	12.6
	55-64 yrs	155	8.1
	65-74 yrs	85	4.44
	75-84 yrs	59	3.08
	85+ yrs	41	2.14
	Unknown	2	0.1
Underlying clinical conditions	Yes	522	27.29
	No	1,180	61.68
	Unknown	211	11.03

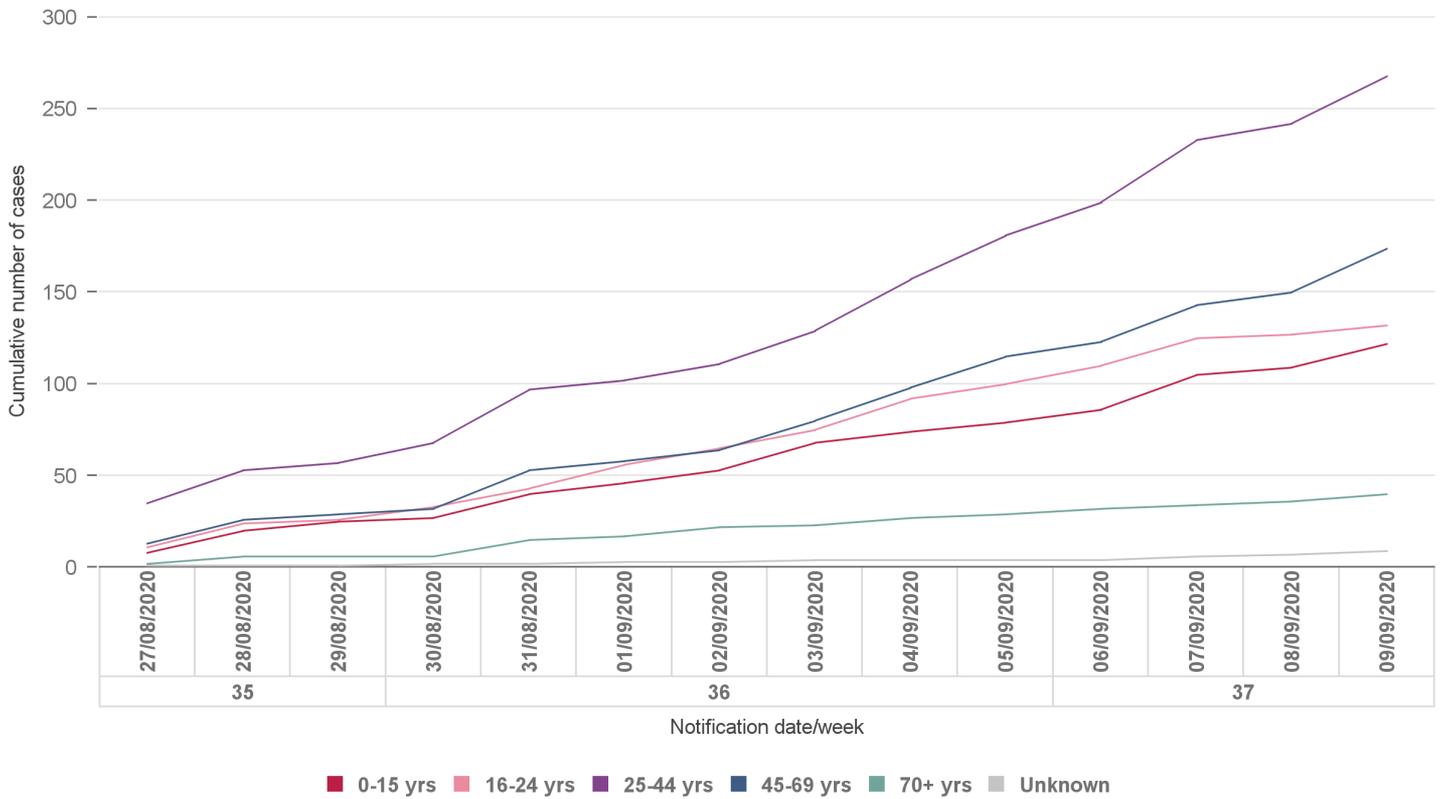


Figure 2: Cumulative number of confirmed COVID-19 cases notified in Ireland by date/week of notification and age group (years) from 27/08/2020 to midnight 09/09/2020

Table 2: Characteristics of confirmed COVID-19 cases by community healthcare organisation (CHO) * notified from 27/08/2020 to midnight 09/09/2020

CHO Area	Cases		M:F ratio	Mean age (years)	Healthcare workers		Associated with clusters	
	N	%			N	%	N	%
CHO1	94	4.91	1.35	32	7	7.45	73	77.66
CHO2	65	3.4	1.17	33	8	12.31	41	63.08
CHO3	173	9.04	0.99	34	11	6.36	119	68.79
CHO4	53	2.77	0.89	32	<5	7.55	33	62.26
CHO5	176	9.2	0.9	37	14	7.95	81	46.02
CHO6	207	10.82	1.07	39	27	13.04	25	12.08
CHO7	490	25.61	0.97	36	63	12.86	140	28.57
CHO8	184	9.62	0.88	37	34	18.48	104	56.52
CHO9	471	24.62	0.96	35	50	10.62	89	18.9
National	1,913	100	0.98	36	218	11.4	705	36.85

Table 3: Number of confirmed COVID-19 cases by CHO notified in Ireland from 27/08/2020 to midnight 09/09/2020

CHO Area	Number of confirmed cases	Incidence per 100,000 population
CHO1	94	24.0
CHO2	65	14.3
CHO3	173	44.9
CHO4	53	7.7
CHO5	176	34.5
CHO6	207	54.0
CHO7	490	69.2
CHO8	184	29.7
CHO9	471	75.8
Ireland	1,913	40.2

*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 27/08/2020 to midnight 09/09/2020

County	Number of confirmed cases	Incidence per 100,000 population
Carlow	14	24.6
Cavan	13	17.1
Clare	34	28.6
Cork	35	6.4
Donegal	32	20.1
Dublin	986	73.2
Galway	40	15.5
Kerry	18	12.2
Kildare	137	61.6
Kilkenny	31	31.2
Laois	20	23.6
Leitrim	17	53.1
Limerick	129	66.2
Longford	19	46.5
Louth	38	29.5
Mayo	10	7.7
Meath	48	24.6
Monaghan	29	47.2
Offaly	37	47.5
Roscommon	15	23.2
Sligo	<5	4.6
Tipperary	57	35.7
Waterford	38	32.7
Westmeath	19	21.4
Wexford	49	32.7
Wicklow	45	31.6
Ireland	1,913	40.2

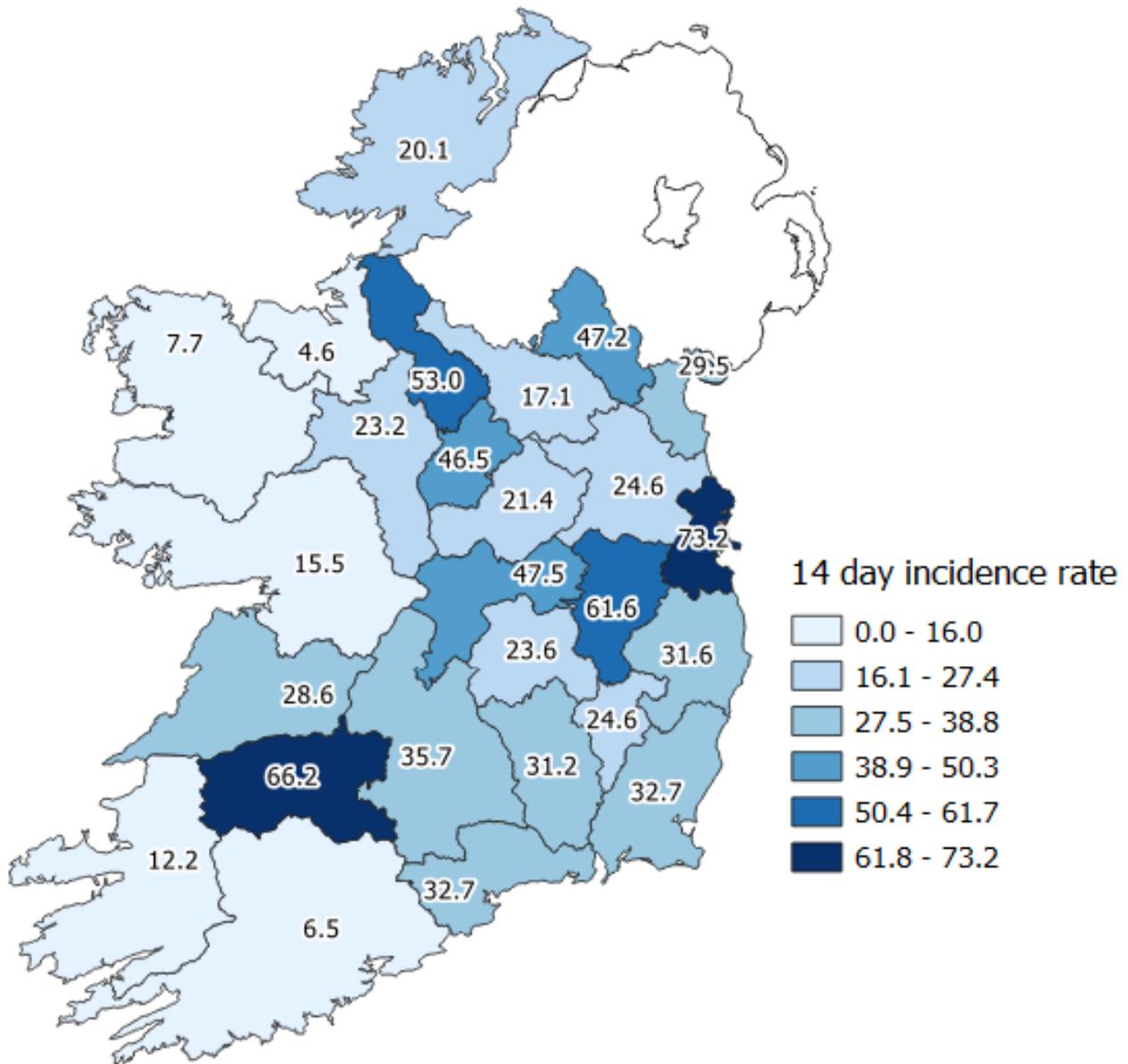


Figure 3: Cumulative incidence rates of confirmed COVID-19 cases per 100,000 population, by county, notified in Ireland from 27/08/2020 to midnight 09/09/2020

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 from 27/08/2020 to midnight 09/09/2020

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	50	36.7
CCA2	Dublin South East	116	93.8
CCA3	Dublin South City	106	70.7
CCA4	Dublin South West	128	79.6
CCA5	Dublin West	115	74.0
CCA6	Dublin North West	174	83.8
CCA7	Dublin North Central	102	66.0
CCA8	Dublin North	195	75.2
	Dublin	986	73.2

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 27/08/2020 to midnight 09/09/2020

Most likely transmission source	Number of cases	Percent
Travel related	109	5.70%
Close contact with a known confirmed case	1,006	52.59%
Healthcare setting acquired: patient	56	2.93%
Healthcare setting acquired: staff	72	3.76%
Community transmission	463	24.20%
Under investigation	207	10.82%
Total	1,913	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

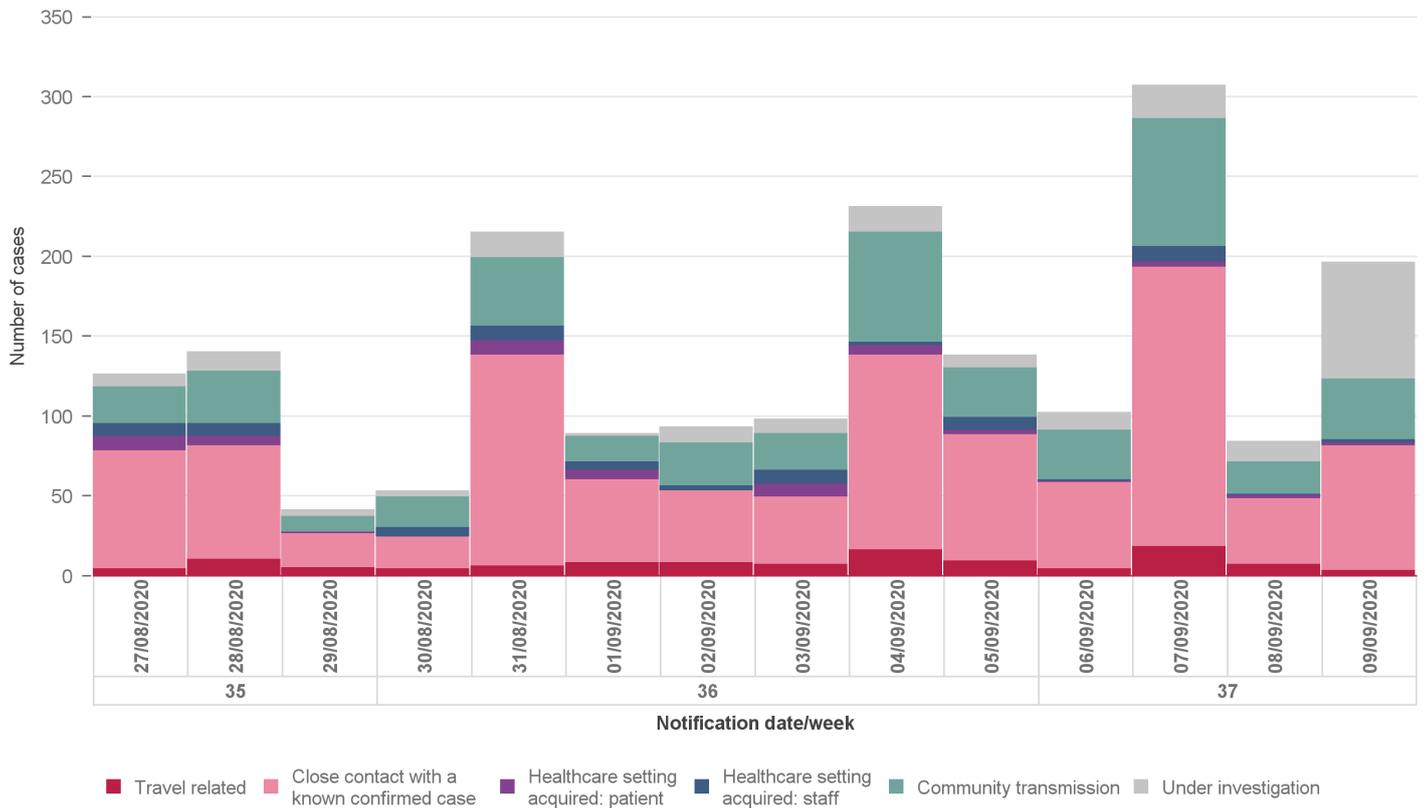


Figure 3: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and most likely transmission source from 27/08/2020 to midnight 09/09/2020

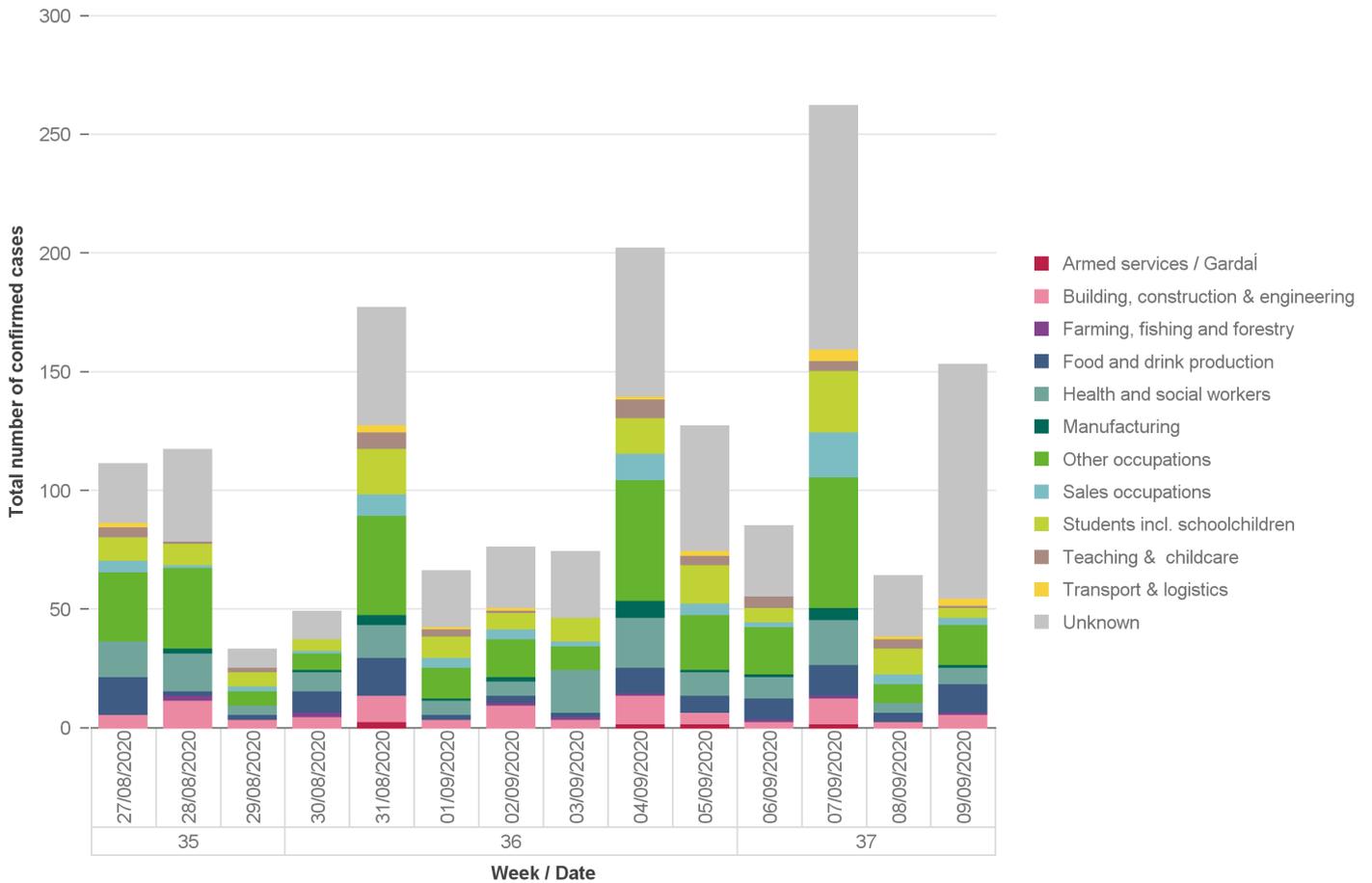


Figure 4: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and occupation* from 27/08/2020 to midnight 09/09/2020

*Among cases aged 16-69 years

Table 7: Cumulative number of confirmed cases of COVID-19 notified in Ireland from 27/08/2020 to midnight 09/09/2020 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	76	2	3.57	1	33.33
5-14 yrs	183	1	1.79	0	0
15-24 yrs	394	6	10.71	0	0
25-34 yrs	369	4	7.14	1	33.33
35-44 yrs	308			0	0
45-54 yrs	241	5	8.93	0	0
55-64 yrs	155	6	10.71	1	33.33
65-74 yrs	85	11	19.64	0	0
75-84 yrs	59	11	19.64	0	0
85+ yrs	41	10	17.86	0	0
Unknown	2			0	0
Total	1,913	56	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

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 13:20 on 10/09/2020. 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.