



Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 18/09/2020

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 04/09/2020 up to midnight 17/09/2020

	Number	Percent
Total number of confirmed cases	2,970	
National incidence of confirmed cases per 100,000 population	62.37	
Number of cases hospitalised*	80	2.69
Number of cases admitted to ICU*	6	0.2
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	1,590	53.54
Number of imported cases	37	1.25
Number of cases in healthcare workers	238	8.01
Males	1,469	49.46
Females	1,493	50.27
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
04/09/2020 - 17/09/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 13:21 on 18/09/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.

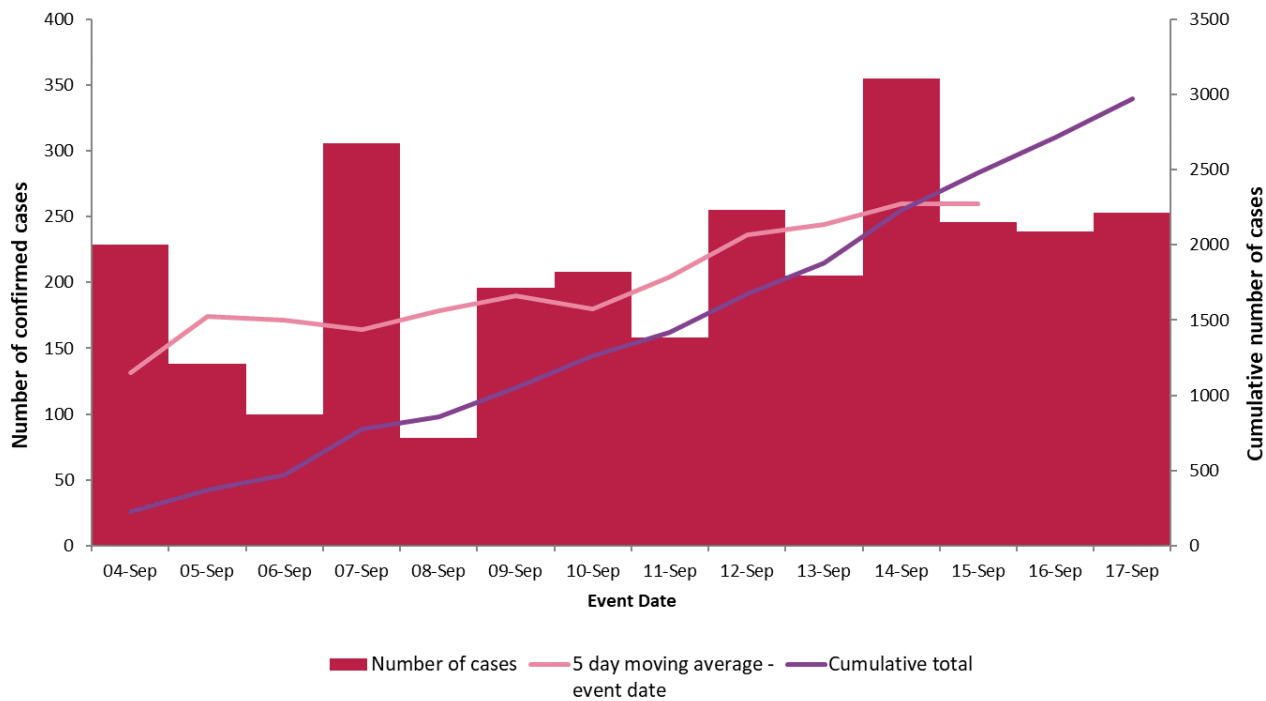


Figure 1. Daily number and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date (n=2,970)

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 04/09/2020 up to midnight on 17/09/202

Characteristic		Number of cases	Percent
Total number of confirmed cases		2,970	100
Sex	Male:Female ratio	0.98	
	Male	1,469	49.46
	Female	1,493	50.27
	Unknown	8	0.27
Age	Median age (years)	33	
	Mean age (years)	36	
	Age range (years)	0 - 98	
	0-4 yrs	120	4.04
	5-14 yrs	266	8.96
	15-24 yrs	634	21.35
	25-34 yrs	523	17.61
	35-44 yrs	442	14.88
	45-54 yrs	402	13.54
	55-64 yrs	286	9.63
	65-74 yrs	192	6.46
	75-84 yrs	71	2.39
	85+ yrs	34	1.14
Underlying clinical conditions	Yes	842	28.35
	No	1,823	61.38
	Unknown	305	10.27

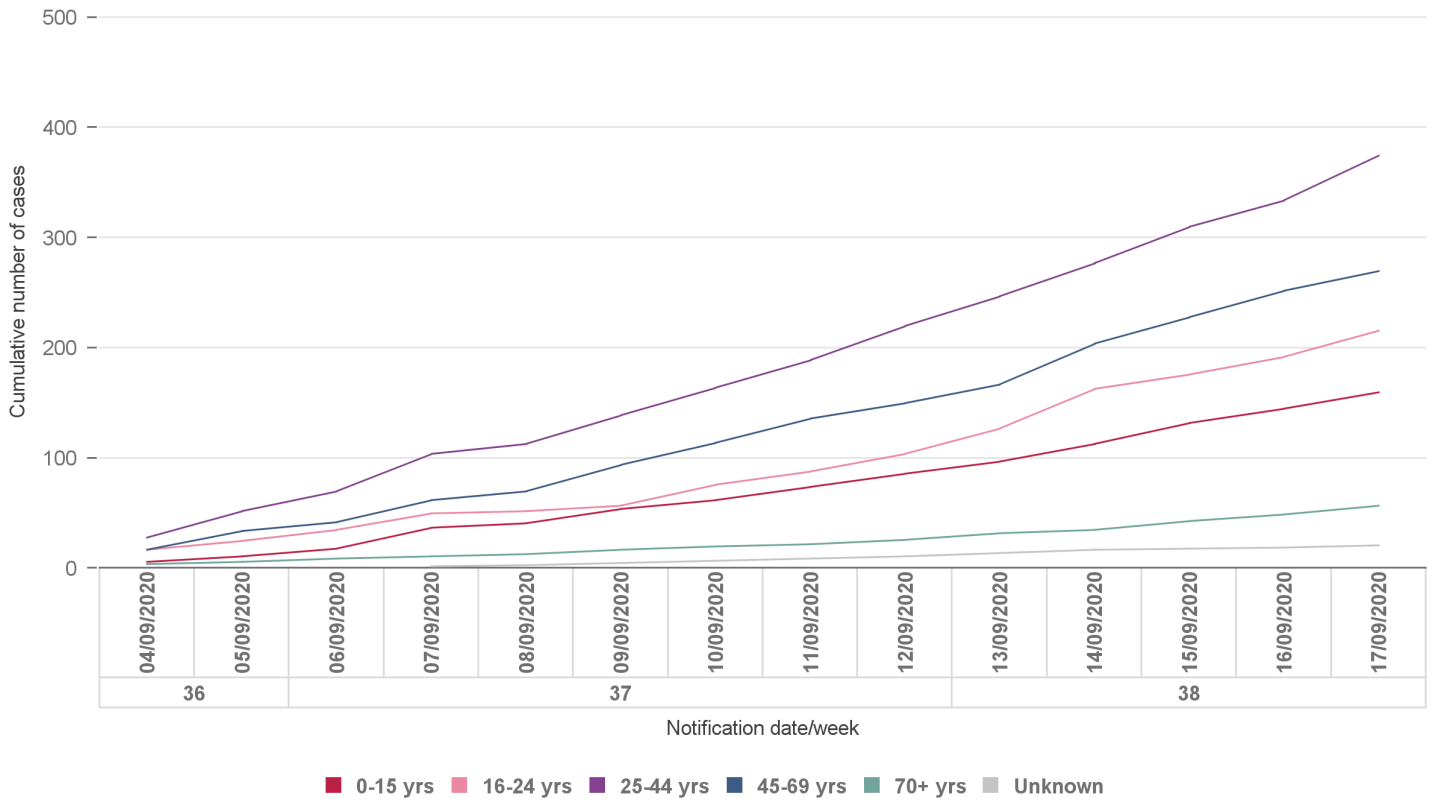


Figure 2: Cumulative number of confirmed COVID-19 cases notified in Ireland by date/week of notification and age group (years) from 04/09/2020 to midnight 17/09/2020

Table 2: Characteristics of confirmed COVID-19 cases by community healthcare organisation (CHO)* notified from 04/09/2020 to midnight 17/09/2020

CHO Area	Cases		M:F ratio	Mean age (years)	Healthcare workers		Associated with clusters	
	N	%			N	%	N	%
CHO1	167	5.62	1.14	33	11	6.59	126	75.45
CHO2	128	4.31	0.8	31	10	7.81	83	64.84
CHO3	160	5.39	1.18	41	6	3.75	111	69.38
CHO4	105	3.54	1.1	36	<5	3.81	69	65.71
CHO5	210	7.07	1.19	34	12	5.71	87	41.43
CHO6	353	11.89	0.91	38	31	8.78	153	43.34
CHO7	701	23.6	1.11	35	51	7.28	315	44.94
CHO8	329	11.08	0.86	36	32	9.73	212	64.44
CHO9	817	27.51	0.88	37	81	9.91	434	53.12
National	2,970	100	0.98	36	238	8.01	1,590	53.54

Table 3: Number of confirmed COVID-19 cases by community healthcare organisation (CHO) notified in Ireland from 04/09/2020 to midnight 17/09/2020

CHO Area	Number of confirmed cases	Incidence per 100,000 population
CHO1	167	42.7
CHO2	128	28.2
CHO3	160	41.6
CHO4	105	15.2
CHO5	210	41.1
CHO6	353	92.1
CHO7	701	99.1
CHO8	329	53.1
CHO9	817	131.5
Ireland	2,970	62.4

*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 04/09/2020 to midnight 17/09/2020

County	Number of confirmed cases	Incidence per 100,000 population
Carlow	20	35.1
Cavan	16	21.0
Clare	36	30.3
Cork	77	14.2
Donegal	102	64.1
Dublin	1629	120.9
Galway	73	28.3
Kerry	28	19.0
Kildare	143	64.3
Kilkenny	22	22.2
Laois	40	47.2
Leitrim	25	78.0
Limerick	114	58.5
Longford	20	48.9
Louth	121	93.9
Mayo	35	26.8
Meath	56	28.7
Monaghan	16	26.1
Offaly	48	61.6
Roscommon	20	31.0
Sligo	8	12.2
Tipperary	27	16.9
Waterford	98	84.4
Westmeath	43	48.4
Wexford	54	36.1
Wicklow	99	69.5
Ireland	2,970	62.4

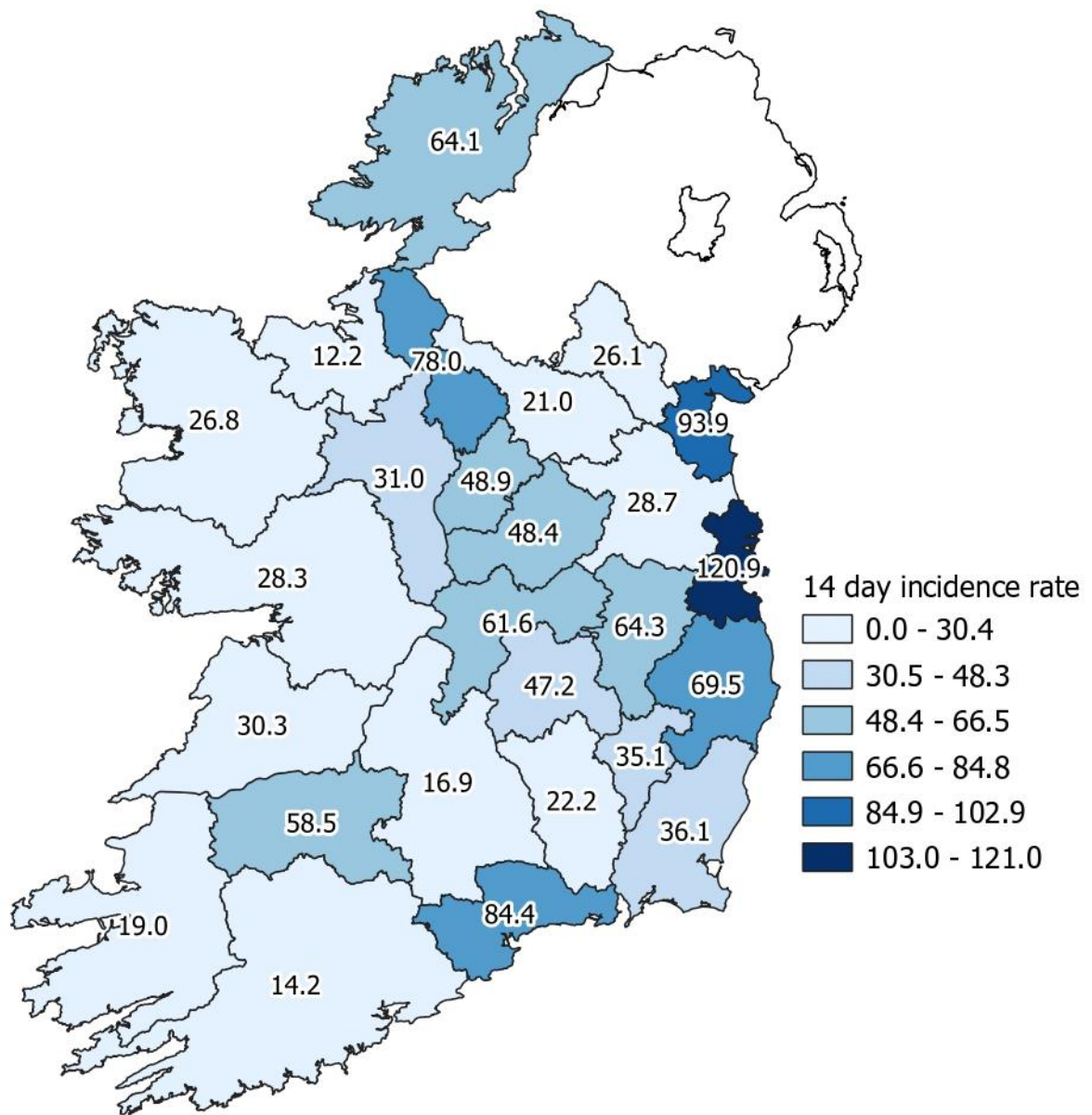


Figure 3: Cumulative incidence rates of confirmed COVID-19 cases per 100,000 population, by county, notified in Ireland from 04/09/2020 to midnight 17/09/2020

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 04/09/2020 to midnight 17/09/2020

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	180	145.5
CCA3	Dublin South City	155	103.4
CCA4	Dublin South West	204	126.8
CCA5	Dublin West	197	126.8
CCA6	Dublin North West	376	181.1
CCA7	Dublin North Central	175	113.2
CCA8	Dublin North	266	102.6
	Dublin	1629	120.9

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 04/09/2020 to midnight 17/09/2020

Most likely transmission source	Number of cases	Percent
Travel related	121	4.07%
Close contact with a known confirmed case	1,630	54.88%
Healthcare setting acquired: patient	53	1.78%
Healthcare setting acquired: staff	52	1.75%
Community transmission	789	26.57%
Under investigation	325	10.94%
Total	2,970	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

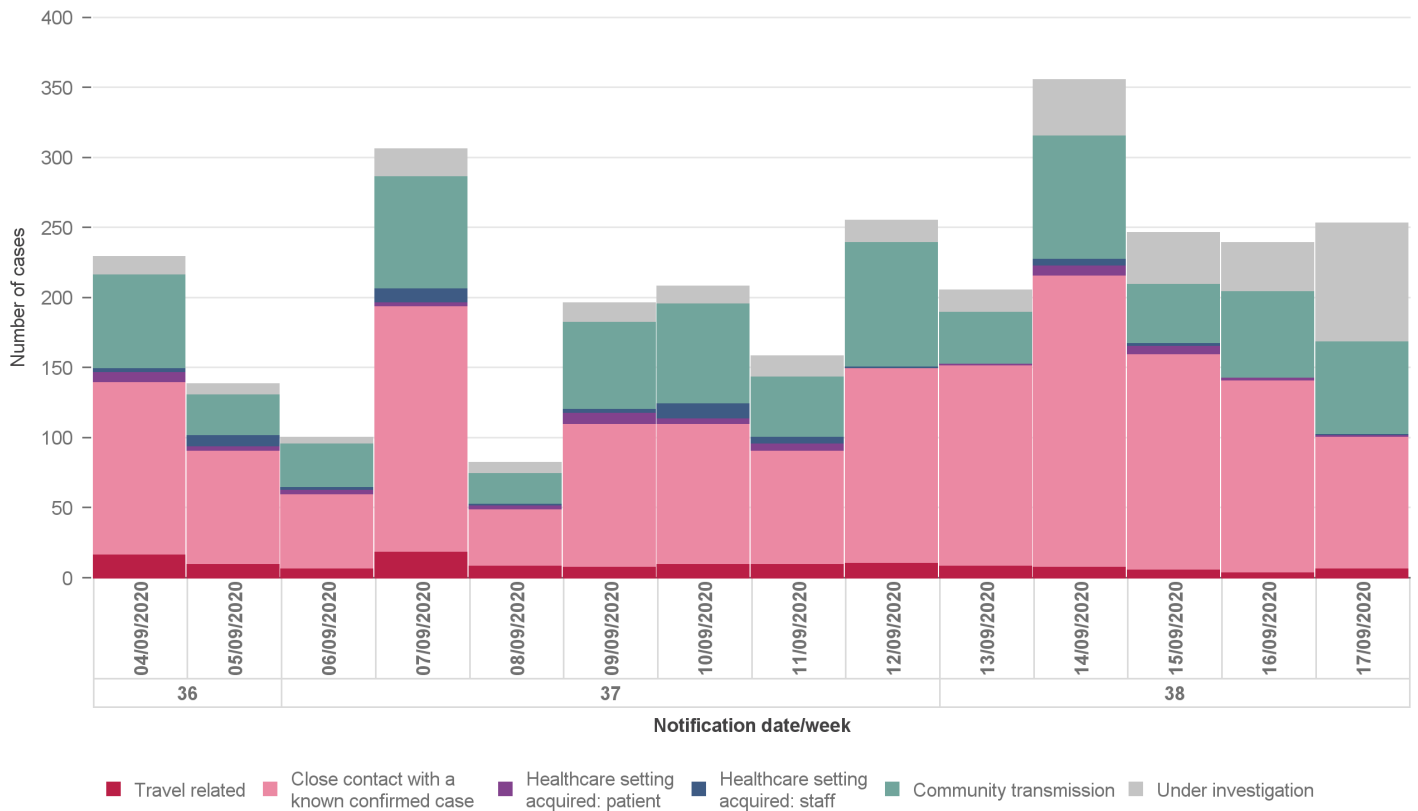


Figure 3: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and most likely transmission source from 04/09/2020 to midnight 17/09/2020

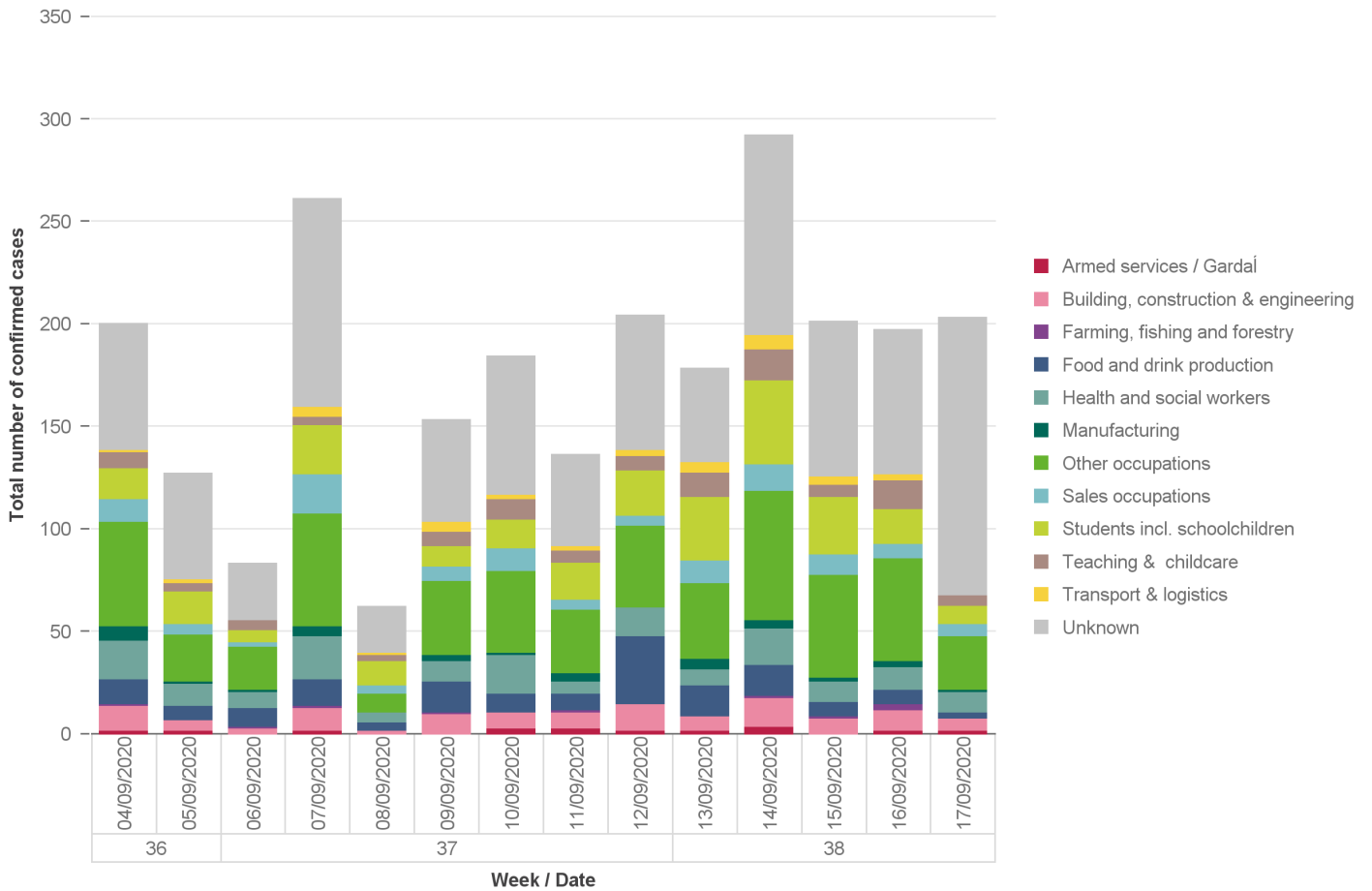


Figure 4: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and occupation* from 04/09/2020 to midnight 17/09/2020

*Among cases aged 16-69 years

Table 7: Cumulative number of confirmed cases of COVID-19 notified in Ireland from 04/09/2020 to midnight 17/09/2020 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	120	3	3.75	0	0
5-14 yrs	266			0	0
15-24 yrs	634	8	10	0	0
25-34 yrs	523	4	5	0	0
35-44 yrs	442	1	1.25	0	0
45-54 yrs	402	12	15	0	0
55-64 yrs	286	9	11.25	3	50
65-74 yrs	192	25	31.25	3	50
75-84 yrs	71	12	15	0	0
85+ yrs	34	6	7.5	0	0
Total	2,970	80	100	6	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 18/09/2020. 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.