



Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 17/09/2020

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 03/09/2020 up to midnight 16/09/2020

	Number	Percent
Total number of confirmed cases	2,816	
National incidence of confirmed cases per 100,000 population	59.14	
Number of cases hospitalised*	75	2.66
Number of cases admitted to ICU*	5	0.18
Number of deaths among confirmed cases	8	0.28
Case fatality ratio (CFR, %)	0.28	
National incidence of confirmed deaths per 100,000 population	0.17	
Number of cases** associated with clusters	1,334	47.37
Number of imported cases	40	1.42
Number of cases in healthcare workers	252	8.95
Males	1,375	48.83
Females	1,435	50.96
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
03/09/2020 - 16/09/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 13:19 on 17/09/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.

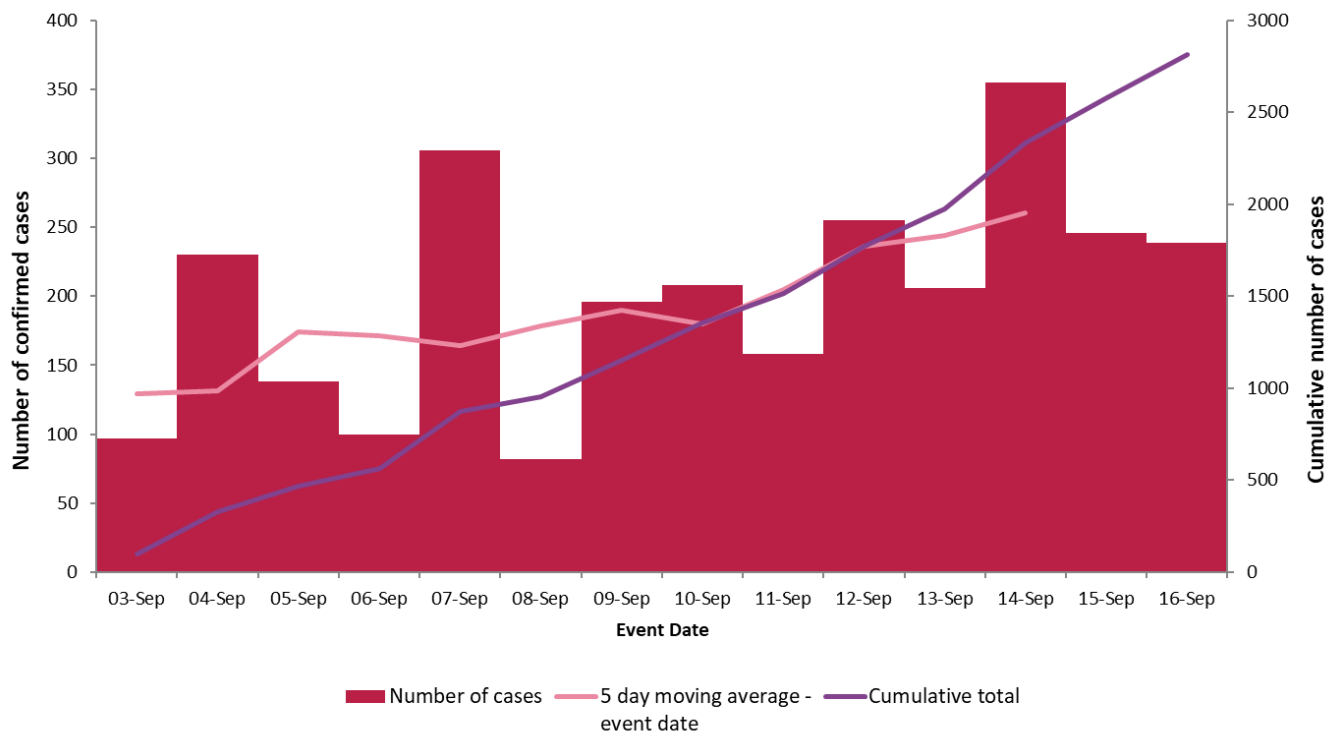


Figure 1. Daily number and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date (n=2,816)

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 03/09/2020 up to midnight on 16/09/202

Characteristic		Number of cases	Percent
Total number of confirmed cases		2,816	100
Sex	Male:Female ratio	0.96	
	Male	1,375	48.83
	Female	1,435	50.96
	Unknown	6	0.21
Age	Median age (years)	33	
	Mean age (years)	36	
	Age range (years)	0 - 98	
	0-4 yrs	121	4.3
	5-14 yrs	251	8.91
	15-24 yrs	592	21.02
	25-34 yrs	501	17.79
	35-44 yrs	407	14.45
	45-54 yrs	381	13.53
	55-64 yrs	280	9.94
	65-74 yrs	174	6.18
	75-84 yrs	68	2.41
	85+ yrs	41	1.46
Underlying clinical conditions	Yes	797	28.3
	No	1,704	60.51
	Unknown	315	11.19

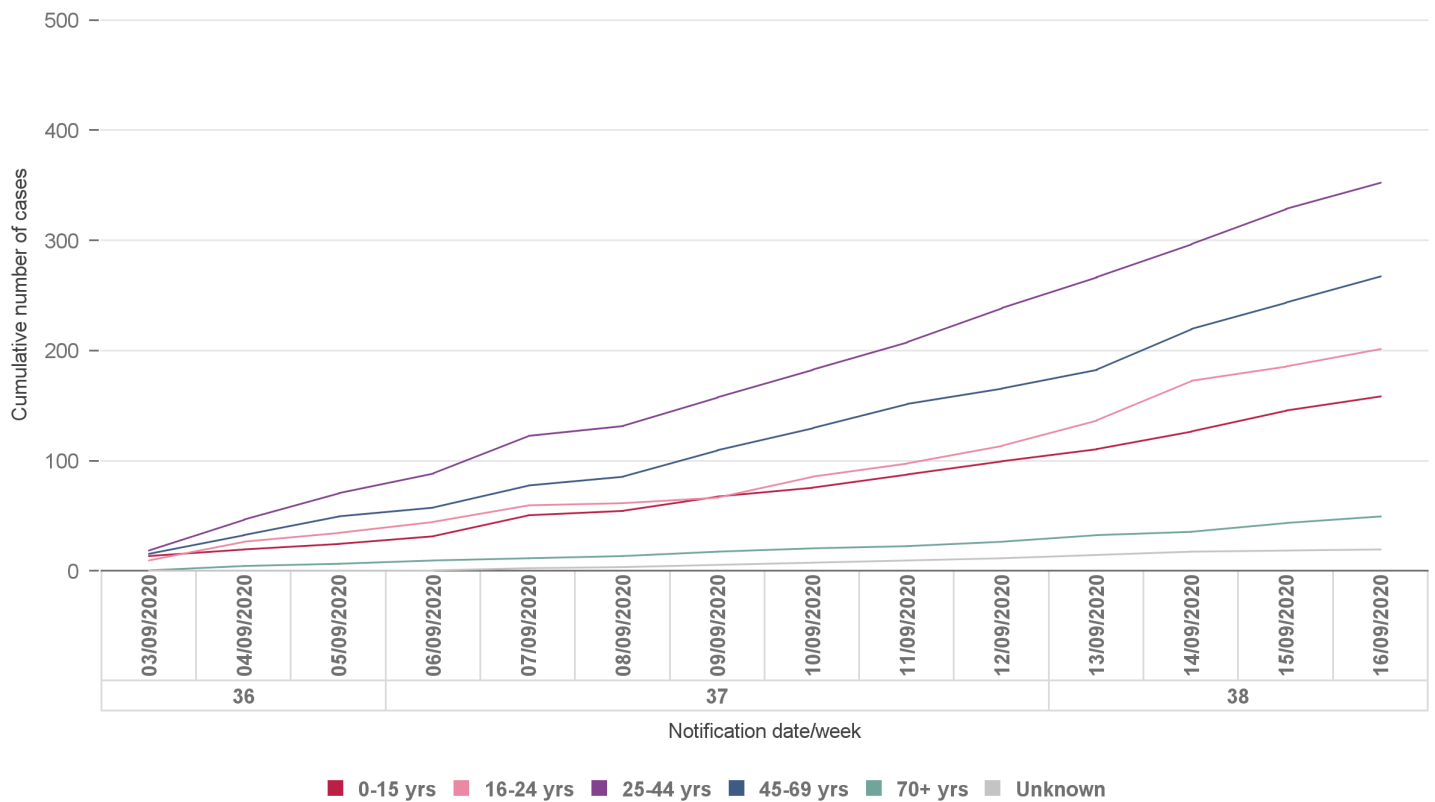


Figure 2: Cumulative number of confirmed COVID-19 cases notified in Ireland by date/week of notification and age group (years) from 03/09/2020 to midnight 16/09/2020

Table 2: Characteristics of confirmed COVID-19 cases by community healthcare organisation (CHO)* notified from 03/09/2020 to midnight 16/09/2020

CHO Area	Cases		M:F ratio	Mean age (years)	Healthcare workers		Associated with clusters	
	N	%			N	%	N	%
CHO1	154	5.47	1.2	33	12	7.79	112	72.73
CHO2	105	3.73	0.88	33	10	9.52	75	71.43
CHO3	152	5.4	1.2	40	6	3.95	108	71.05
CHO4	99	3.52	0.87	34	5	5.05	68	68.69
CHO5	217	7.71	1.11	34	13	5.99	90	41.47
CHO6	329	11.68	0.91	38	30	9.12	129	39.21
CHO7	647	22.98	1.01	36	54	8.35	197	30.45
CHO8	325	11.54	0.86	36	39	12	218	67.08
CHO9	788	27.98	0.89	37	83	10.53	337	42.77
National	2,816	100	0.96	36	252	8.95	1,334	47.37

Table 3: Number of confirmed COVID-19 cases by community healthcare organisation (CHO)
* notified in Ireland from 03/09/2020 to midnight 16/09/2020

CHO Area	Number of confirmed cases	Incidence per 100,000 population
CHO1	154	39.4
CHO2	105	23.2
CHO3	152	39.5
CHO4	99	14.3
CHO5	217	42.5
CHO6	329	85.9
CHO7	647	91.4
CHO8	325	52.5
CHO9	788	126.8
Ireland	2,816	59.1

*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 03/09/2020 to midnight 16/09/2020

County	Number of confirmed cases	Incidence per 100,000 population
Carlow	21	36.9
Cavan	16	21.0
Clare	35	29.5
Cork	67	12.3
Donegal	89	55.9
Dublin	1539	114.2
Galway	61	23.6
Kerry	32	21.7
Kildare	133	59.8
Kilkenny	28	28.2
Laois	40	47.2
Leitrim	26	81.1
Limerick	110	56.4
Longford	21	51.4
Louth	118	91.6
Mayo	25	19.2
Meath	54	27.7
Monaghan	18	29.3
Offaly	49	62.9
Roscommon	19	29.4
Sligo	5	7.6
Tipperary	28	17.5
Waterford	94	80.9
Westmeath	42	47.3
Wexford	54	36.1
Wicklow	92	64.6
Ireland	2,816	59.1

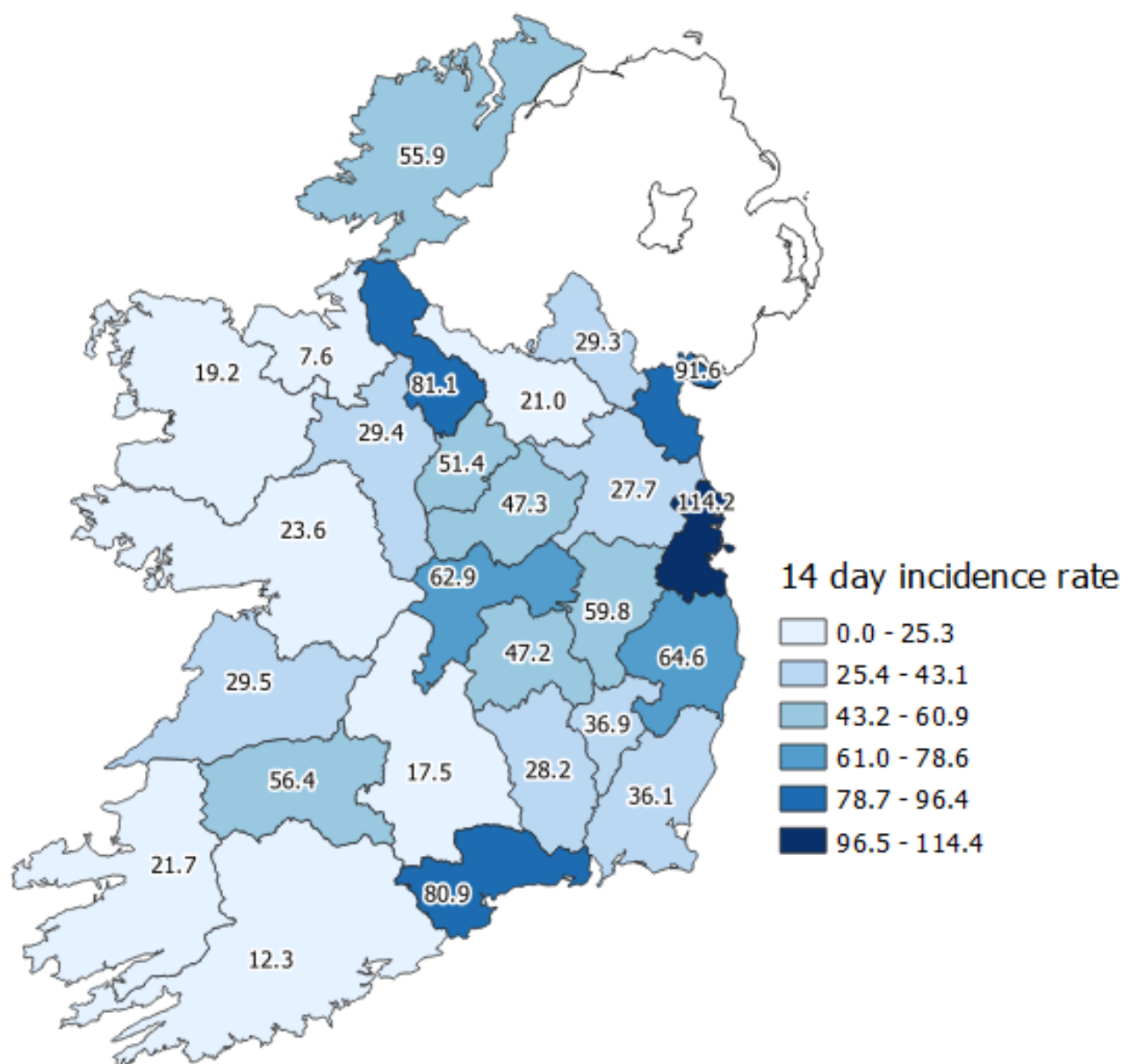


Figure 3: Cumulative incidence rates of confirmed COVID-19 cases per 100,000 population, by county, notified in Ireland from 03/09/2020 to midnight 16/09/2020

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 03/09/2020 to midnight 16/09/2020

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	71	52.2
CCA2	Dublin South East	168	135.8
CCA3	Dublin South City	149	99.4
CCA4	Dublin South West	189	117.5
CCA5	Dublin West	174	112.0
CCA6	Dublin North West	360	173.4
CCA7	Dublin North Central	173	111.9
CCA8	Dublin North	255	98.4
	Dublin	1,539	114.2

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 03/09/2020 to midnight 16/09/2020

Most likely transmission source	Number of cases	Percent
Travel related	121	4.30%
Close contact with a known confirmed case	1,521	54.01%
Healthcare setting acquired: patient	59	2.10%
Healthcare setting acquired: staff	61	2.17%
Community transmission	725	25.75%
Under investigation	329	11.68%
Total	2,816	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

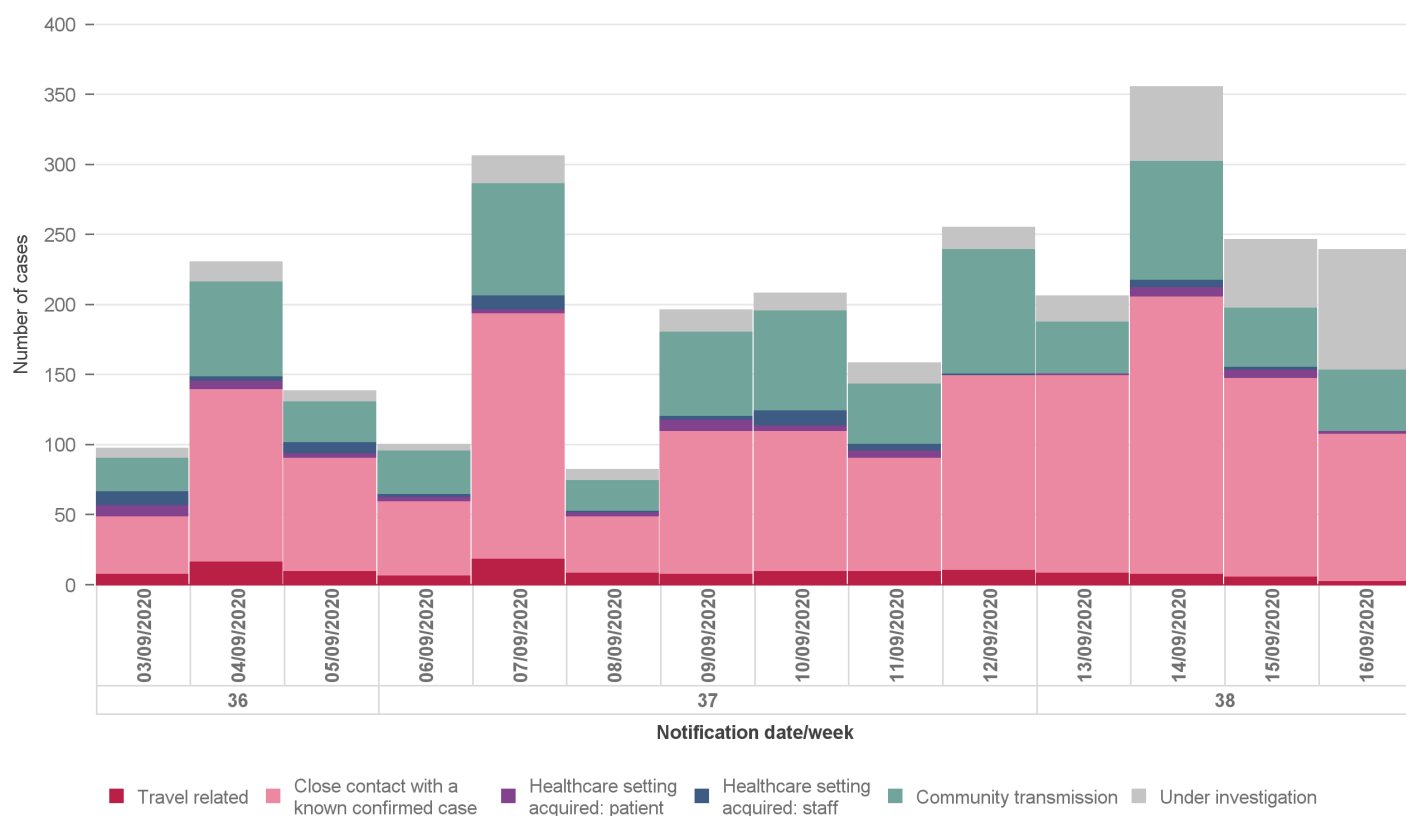


Figure 3: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and most likely transmission source from 03/09/2020 to midnight 16/09/2020

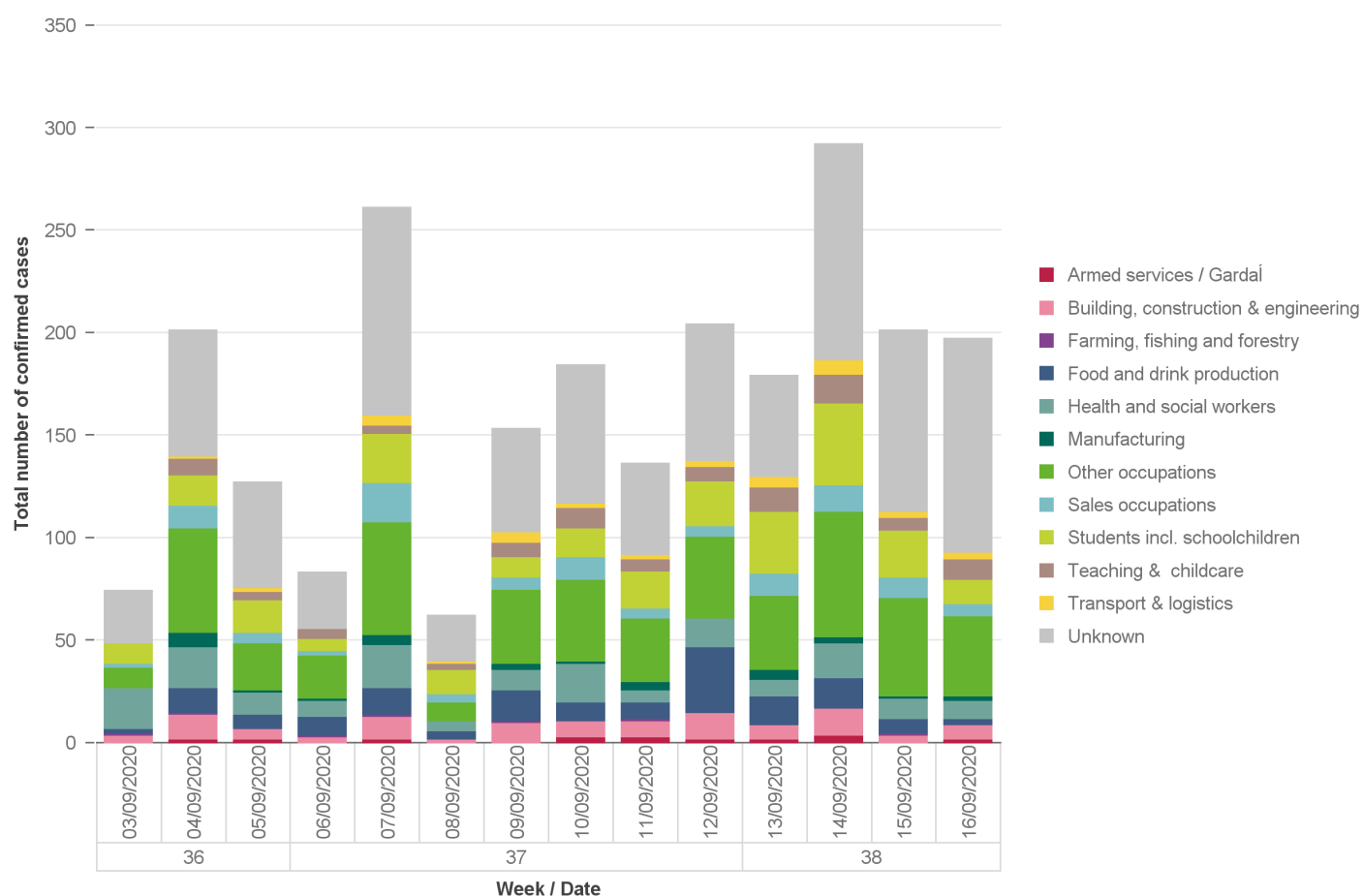


Figure 4: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and occupation* from 03/09/2020 to midnight 16/09/2020

*Among cases aged 16-69 years

Table 7: Cumulative number of confirmed cases of COVID-19 notified in Ireland from 03/09/2020 to midnight 16/09/2020 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	121	4	5.33	1	20
5-14 yrs	251			0	0
15-24 yrs	592	7	9.33	0	0
25-34 yrs	501	4	5.33	0	0
35-44 yrs	407	1	1.33	0	0
45-54 yrs	381	11	14.67	0	0
55-64 yrs	280	9	12	2	40
65-74 yrs	174	21	28	2	40
75-84 yrs	68	10	13.33	0	0
85+ yrs	41	8	10.67	0	0
Total	2,816	75	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 13:19 on 17/09/2020. 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.