



Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 28/09/2020

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 14/09/2020 up to midnight 27/09/2020

	Number	Percent
Total number of confirmed cases	4,203	
National incidence of confirmed cases per 100,000 population	88.26	
Number of cases hospitalised*	117	2.78
Number of cases admitted to ICU*	10	0.24
Number of deaths among confirmed cases	4	0.1
Case fatality ratio (CFR, %)	0.1	
National incidence of confirmed deaths per 100,000 population	0.08	
Number of cases** associated with clusters	2,024	48.16
Number of imported cases	23	0.55
Number of cases in healthcare workers	237	5.64
Males	2,101	49.99
Females	2,099	49.94
M:F ratio	1	
Median age (years)	32	
Mean age (years)	36	
Age range (years)	0 - 99	

* 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
14/09/2020 - 27/09/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 13:22 on 28/09/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.

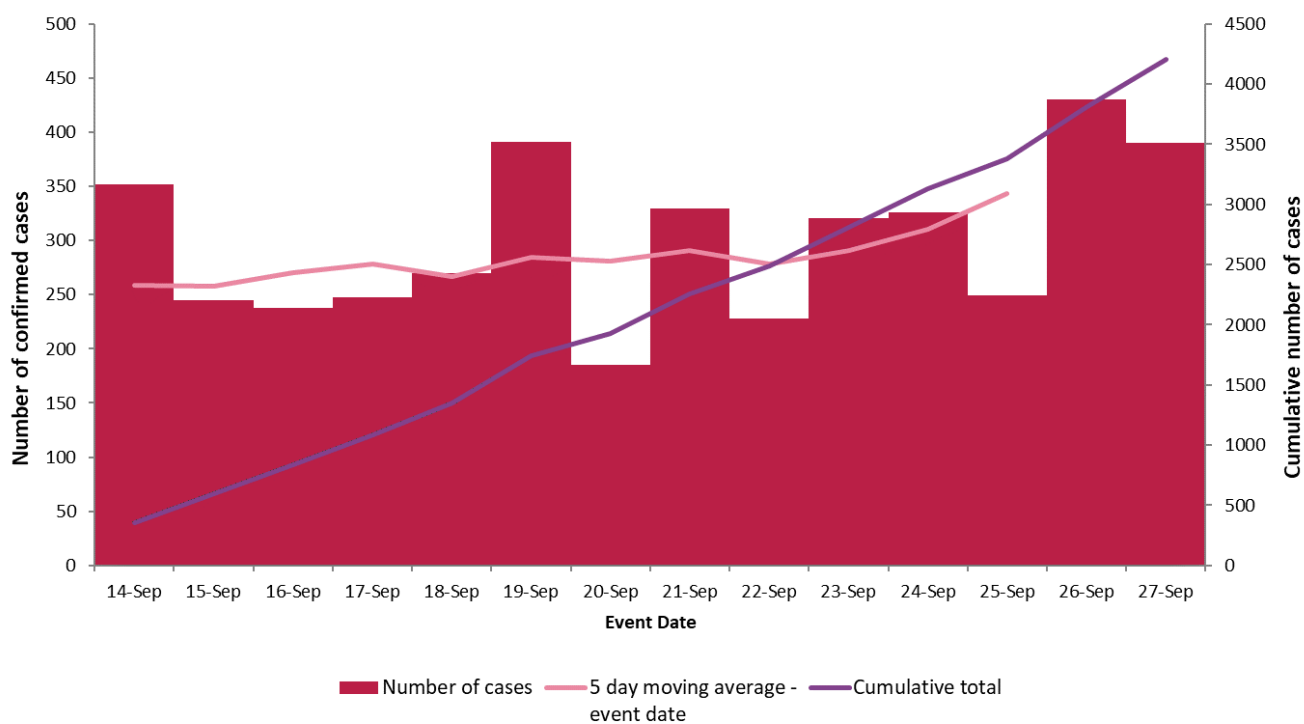


Figure 1. Daily number and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date (n=4,203)

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 14/09/2020 up to midnight on 27/09/202

Characteristic		Number of cases	Percent
Total number of confirmed cases		4,203	100
Sex	Male:Female ratio	1	
	Male	2,101	49.99
	Female	2,099	49.94
	Unknown	3	0.07
Age	Median age (years)	32	
	Mean age (years)	36	
	Age range (years)	0 - 99	
	0-4 yrs	118	2.81
	5-14 yrs	339	8.07
	15-24 yrs	1,016	24.17
	25-34 yrs	760	18.08
	35-44 yrs	600	14.28
	45-54 yrs	577	13.73
	55-64 yrs	386	9.18
	65-74 yrs	248	5.9
	75-84 yrs	114	2.71
	85+ yrs	43	1.02
	Unknown	2	0.05
Underlying clinical conditions	Yes	1,115	26.53
	No	2,469	58.74
	Unknown	619	14.73

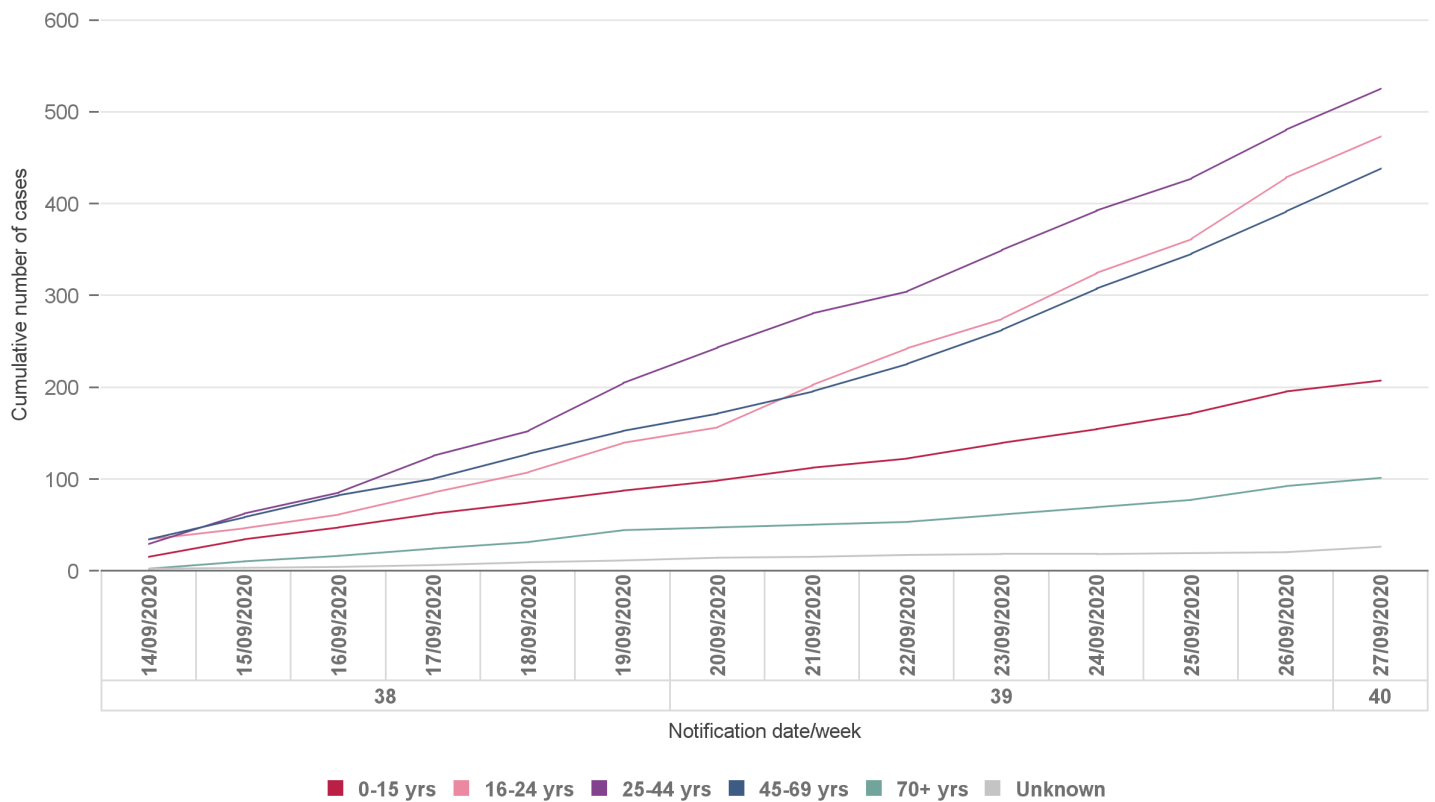


Figure 2: Cumulative number of confirmed COVID-19 cases notified in Ireland by date/week of notification and age group (years) from 14/09/2020 to midnight 27/09/2020

Table 2: Characteristics of confirmed COVID-19 cases by community healthcare organisation (CHO)* notified from 14/09/2020 to midnight 27/09/2020

CHO Area	Cases		M:F ratio	Mean age (years)	Healthcare workers		Associated with clusters	
	N	%			N	%	N	%
CHO1	444	10.56	1.21	36	14	3.15	235	52.93
CHO2	253	6.02	1.16	32	11	4.35	121	47.83
CHO3	141	3.35	0.81	39	9	6.38	77	54.61
CHO4	395	9.4	0.91	36	18	4.56	298	75.44
CHO5	188	4.47	1.21	36	6	3.19	113	60.11
CHO6	429	10.21	0.87	36	19	4.43	160	37.3
CHO7	911	21.67	1.04	36	47	5.16	375	41.16
CHO8	355	8.45	1.02	35	35	9.86	234	65.92
CHO9	1,086	25.84	0.94	37	78	7.18	411	37.85
Unknown	1	0.02		19	<5	0	0	0
National	4,203	100	1	36	237	5.64	2,024	48.16

Table 3: Number of confirmed COVID-19 cases by community healthcare organisation (CHO)* notified in Ireland from 14/09/2020 to midnight 27/09/2020

CHO Area	Number of confirmed cases	Incidence per 100,000 population
CHO1	444	113.5
CHO2	253	55.8
CHO3	141	36.6
CHO4	395	57.2
CHO5	188	36.8
CHO6	429	112.0
CHO7	911	128.7
CHO8	355	57.3
CHO9	1086	174.8
Unknown	1	
Ireland	4,203	88.3

*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 14/09/2020 to midnight 27/09/2020

County	Number of confirmed cases	Incidence per 100,000 population
Carlow	22	38.6
Cavan	38	49.9
Clare	59	49.7
Cork	357	65.8
Donegal	304	191.0
Dublin	2160	160.3
Galway	159	61.6
Kerry	38	25.7
Kildare	175	78.7
Kilkenny	27	27.2
Laois	28	33.1
Leitrim	9	28.1
Limerick	65	33.4
Longford	20	48.9
Louth	120	93.1
Mayo	40	30.6
Meath	91	46.7
Monaghan	71	115.7
Offaly	49	62.9
Roscommon	54	83.7
Sligo	22	33.6
Tipperary	38	23.8
Waterford	78	67.1
Westmeath	47	52.9
Wexford	40	26.7
Wicklow	92	64.6
Ireland	4,203	88.3

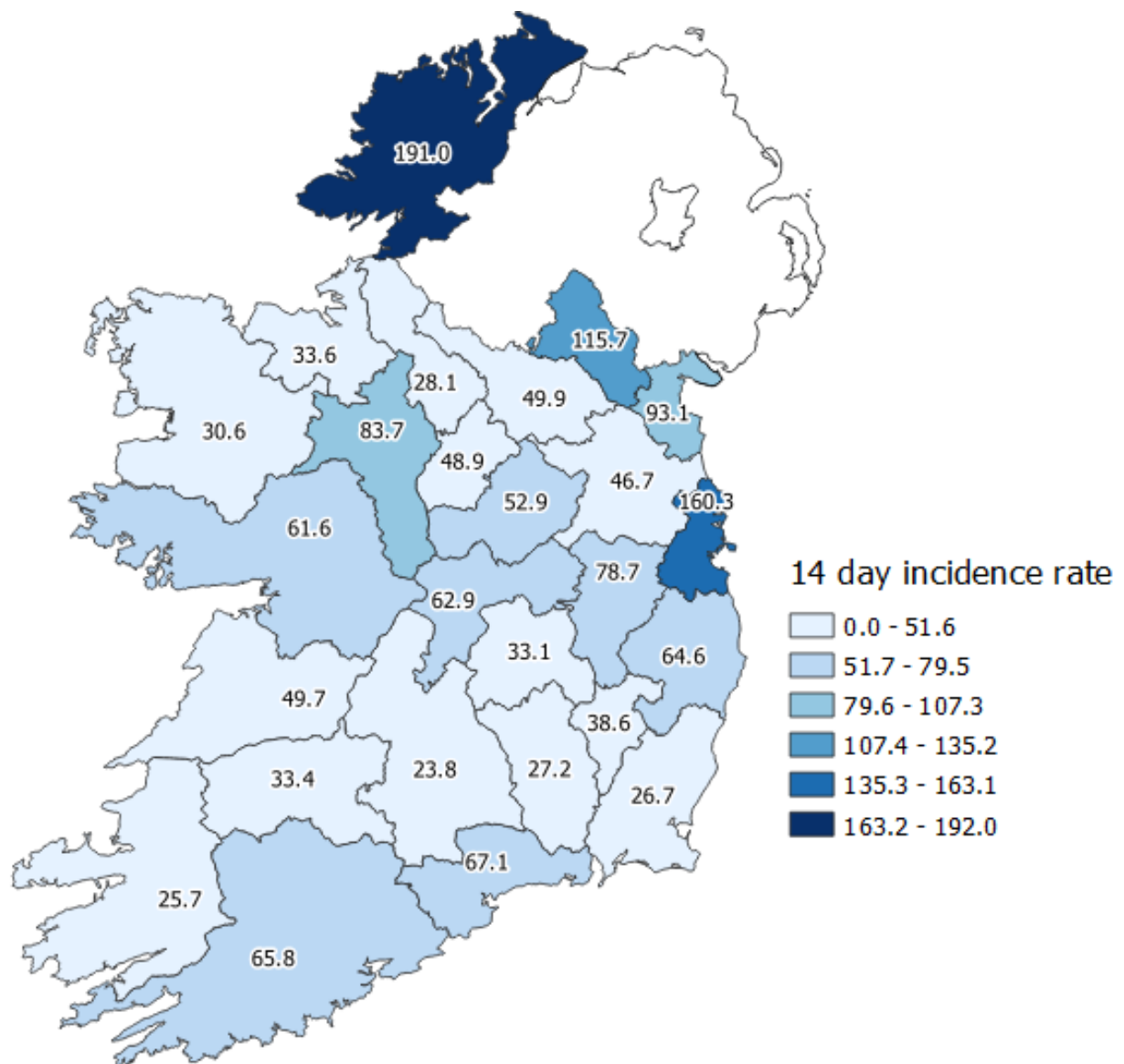


Figure 3: Cumulative incidence rates of confirmed COVID-19 cases per 100,000 population, by county, notified in Ireland from 14/09/2020 to midnight 27/09/2020

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 14/09/2020 to midnight 27/09/2020

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	101	74.2
CCA2	Dublin South East	238	192.4
CCA3	Dublin South City	199	132.7
CCA4	Dublin South West	288	179.0
CCA5	Dublin West	247	159.0
CCA6	Dublin North West	422	203.2
CCA7	Dublin North Central	296	191.5
CCA8	Dublin North	368	142.0
	Unknown	1	
	Dublin	2160	160.3

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 14/09/2020 to midnight 27/09/2020

Most likely transmission source	Number of cases	Percent
Travel related	91	2.17%
Close contact with a known confirmed case	2,285	54.37%
Healthcare setting acquired: patient	47	1.12%
Healthcare setting acquired: staff	46	1.09%
Community transmission	1,094	26.03%
Under investigation	640	15.23%
Total	4,203	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

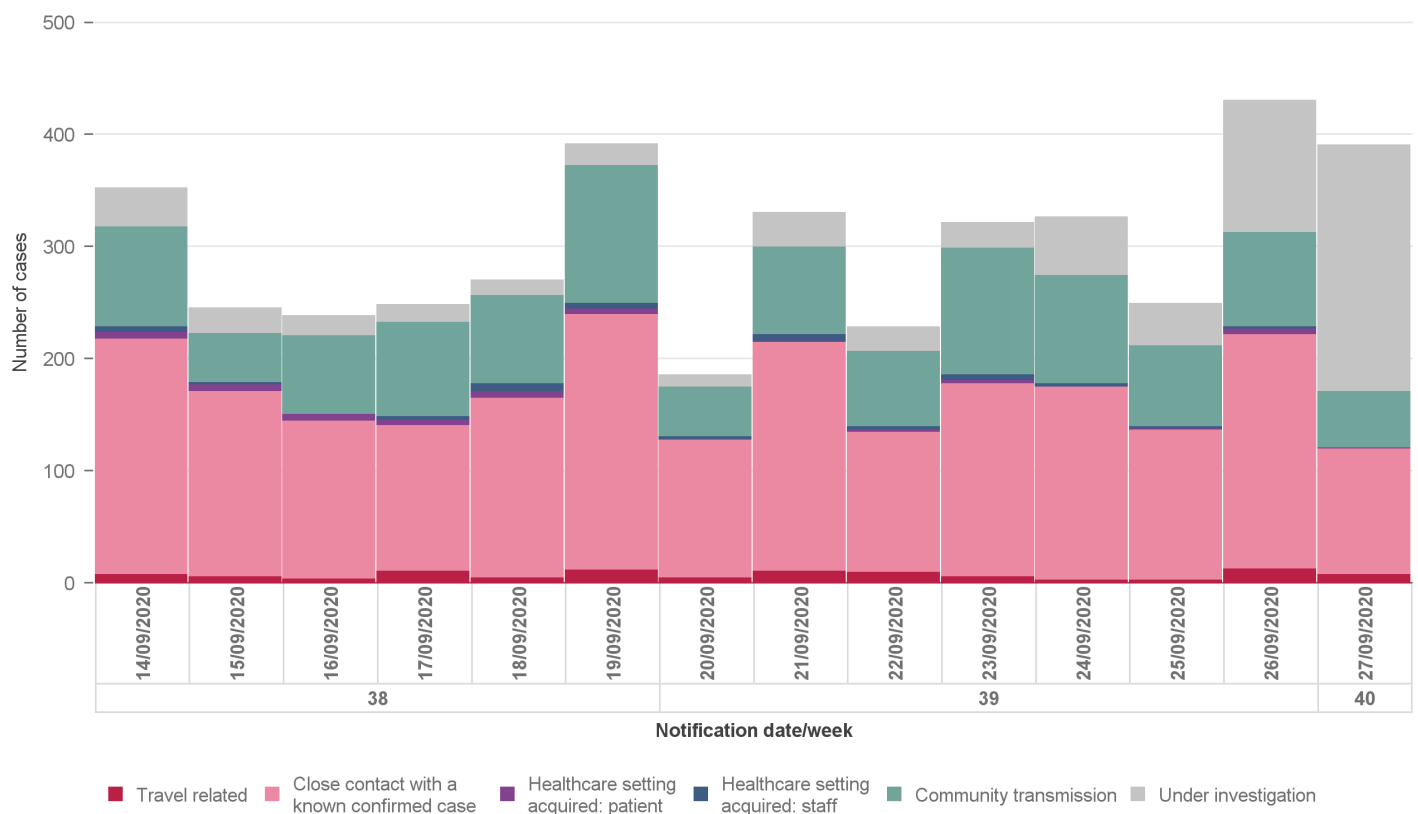


Figure 4: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and most likely transmission source from 14/09/2020 to midnight 27/09/2020

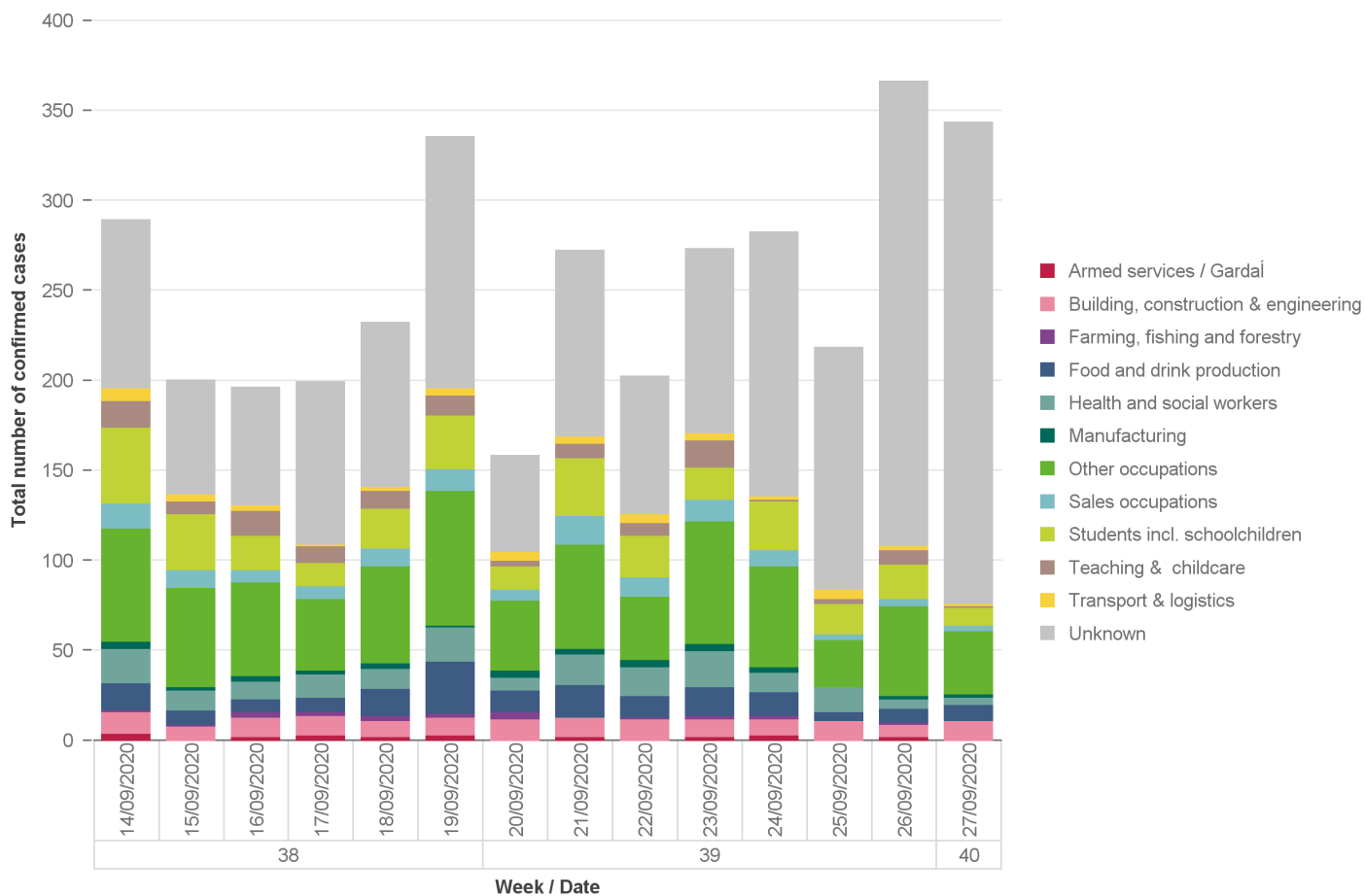


Figure 5: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and occupation* from 14/09/2020 to midnight 27/09/2020

*Among cases aged 16-69 years

Table 7: Cumulative number of confirmed cases of COVID-19 notified in Ireland from 14/09/2020 to midnight 27/09/2020 by age group, hospitalisation, and ICU admission*

Age Group (years)	Number of cases (n)	Cases hospitalised (n)	Cases hospitalised (%)	Cases admitted to ICU (n)	Cases admitted to ICU (%)
0-4 yrs	118	1	0.85	0	0
5-14 yrs	339	2	1.71	0	0
15-24 yrs	1016	7	5.98	0	0
25-34 yrs	760	6	5.13	0	0
35-44 yrs	600	10	8.55	4	40
45-54 yrs	577	17	14.53	2	20
55-64 yrs	386	23	19.66	2	20
65-74 yrs	248	26	22.22	2	20
75-84 yrs	114	16	13.68	0	0
85+ yrs	43	9	7.69	0	0
Unknown	2			0	0
Total	4,203	117	100	10	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 13:22 on 28/09/2020. 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.