



Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 30/09/2020

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 16/09/2020 up to midnight 29/09/2020

	Number	Percent
Total number of confirmed cases	4,384	
National incidence of confirmed cases per 100,000 population	92.06	
Number of cases hospitalised*	134	3.06
Number of cases admitted to ICU*	10	0.23
Number of deaths among confirmed cases	6	0.14
Case fatality ratio (CFR, %)	0.14	
National incidence of confirmed deaths per 100,000 population	0.13	
Number of cases** associated with clusters	2,083	47.51
Number of imported cases	21	0.48
Number of cases in healthcare workers	267	6.09
Males	2,170	49.5
Females	2,211	50.43
M:F ratio	0.98	
Median age (years)	33	
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
16/09/2020 - 29/09/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 13:25 on 30/09/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.

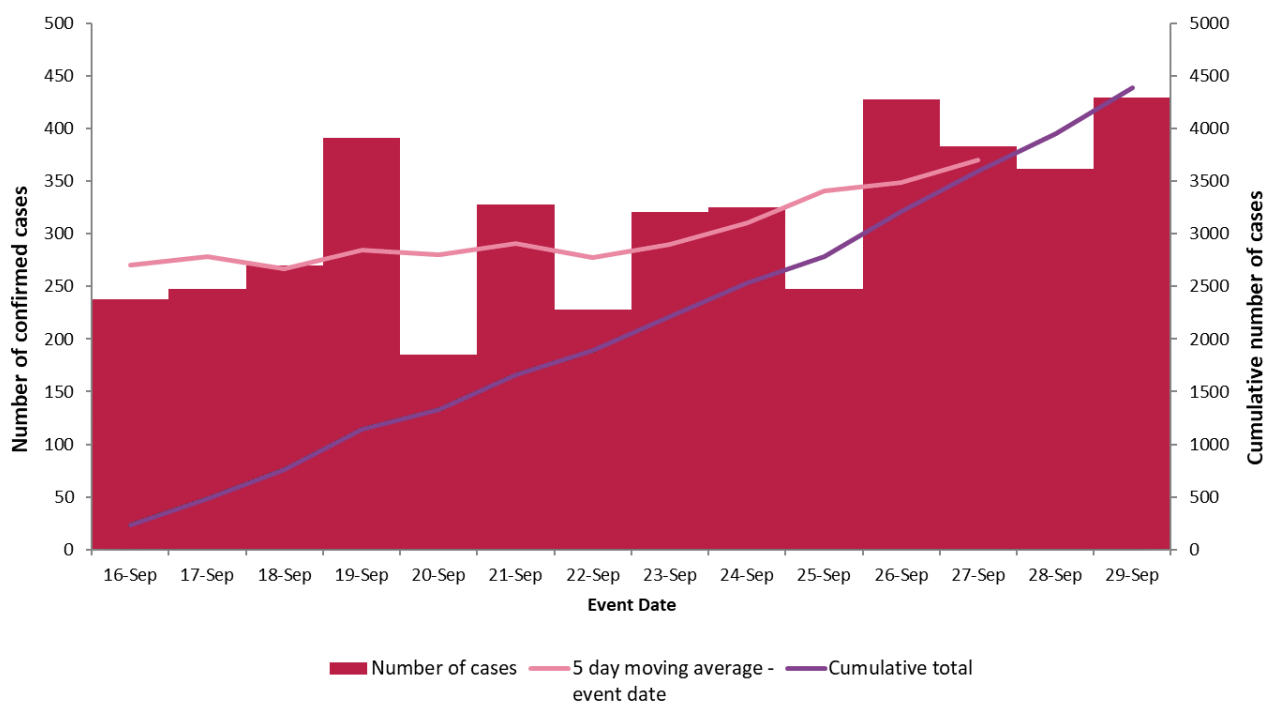


Figure 1. Daily number and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date (n=4,384)

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 16/09/2020 up to midnight on 29/09/202

Characteristic		Number of cases	Percent
Total number of confirmed cases		4,384	100
Sex	Male:Female ratio	0.98	
	Male	2,170	49.5
	Female	2,211	50.43
	Unknown	3	0.07
Age	Median age (years)	33	
	Mean age (years)	36	
	Age range (years)	0 - 99	
	0-4 yrs	121	2.76
	5-14 yrs	318	7.25
	15-24 yrs	1,077	24.57
	25-34 yrs	790	18.02
	35-44 yrs	644	14.69
	45-54 yrs	602	13.73
	55-64 yrs	409	9.33
	65-74 yrs	245	5.59
	75-84 yrs	123	2.81
	85+ yrs	55	1.25
Underlying clinical conditions	Yes	1,178	26.87
	No	2,626	59.9
	Unknown	580	13.23

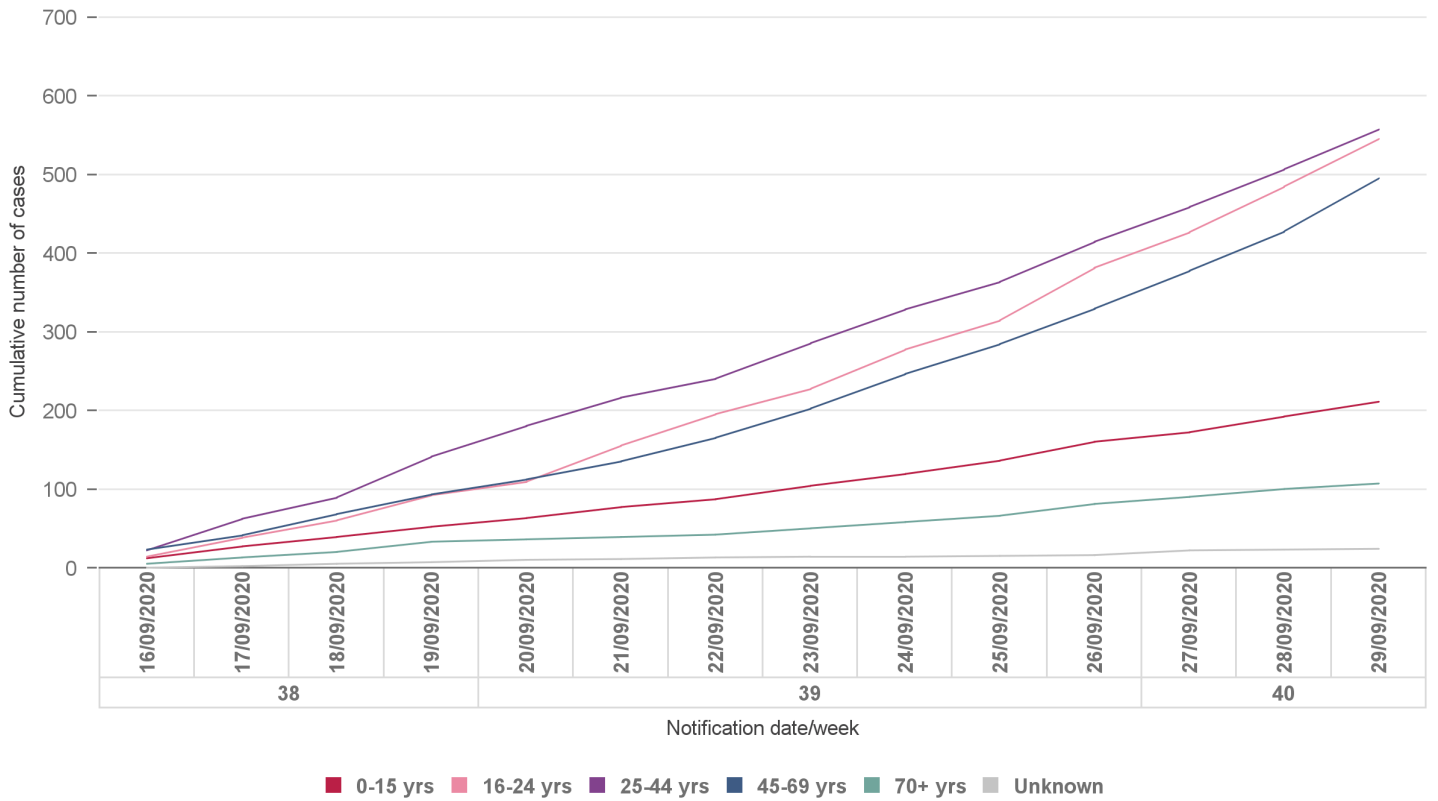


Figure 2: Cumulative number of confirmed COVID-19 cases notified in Ireland by date/week of notification and age group (years) from 16/09/2020 to midnight 29/09/2020

Table 2: Characteristics of confirmed COVID-19 cases by community healthcare organisation (CHO)* notified from 16/09/2020 to midnight 29/09/2020

CHO Area	Cases		M:F ratio	Mean age (years)	Healthcare workers		Associated with clusters	
	N	%			N	%	N	%
CHO1	484	11.04	1.08	36	25	5.17	262	54.13
CHO2	290	6.61	1.15	33	16	5.52	158	54.48
CHO3	172	3.92	0.91	38	10	5.81	83	48.26
CHO4	470	10.72	0.92	35	22	4.68	357	75.96
CHO5	171	3.9	1.19	38	13	7.6	104	60.82
CHO6	453	10.33	0.9	37	26	5.74	142	31.35
CHO7	928	21.17	0.97	37	48	5.17	368	39.66
CHO8	358	8.17	1.06	36	36	10.06	215	60.06
CHO9	1,058	24.13	0.93	37	71	6.71	394	37.24
National	4,384	100	0.98	36	267	6.09	2,083	47.51

Table 3: Number of confirmed COVID-19 cases by community healthcare organisation (CHO) * notified in Ireland from 16/09/2020 to midnight 29/09/2020

CHO Area	Number of confirmed cases	Incidence per 100,000 population
CHO1	468	119.6
CHO2	272	60.0
CHO3	150	39.0
CHO4	421	61.0
CHO5	186	36.4
CHO6	429	112.0
CHO7	880	124.3
CHO8	341	55.1
CHO9	1066	171.5
Ireland	4,384	92.1

*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 16/09/2020 to midnight 29/09/2020

County	Number of confirmed cases	Incidence per 100,000 population
Carlow	16	28.1
Cavan	43	56.4
Clare	72	60.6
Cork	441	81.2
Donegal	336	211.1
Dublin	2147	159.3
Galway	189	73.2
Kerry	29	19.6
Kildare	189	84.9
Kilkenny	26	26.2
Laois	29	34.2
Leitrim	<5	12.5
Limerick	80	41.0
Longford	30	73.4
Louth	99	76.8
Mayo	35	26.8
Meath	104	53.3
Monaghan	82	133.6
Offaly	51	65.4
Roscommon	66	102.3
Sligo	19	29.0
Tipperary	39	24.4
Waterford	61	52.5
Westmeath	45	50.7
Wexford	49	32.7
Wicklow	103	72.3
Ireland	4,384	92.1

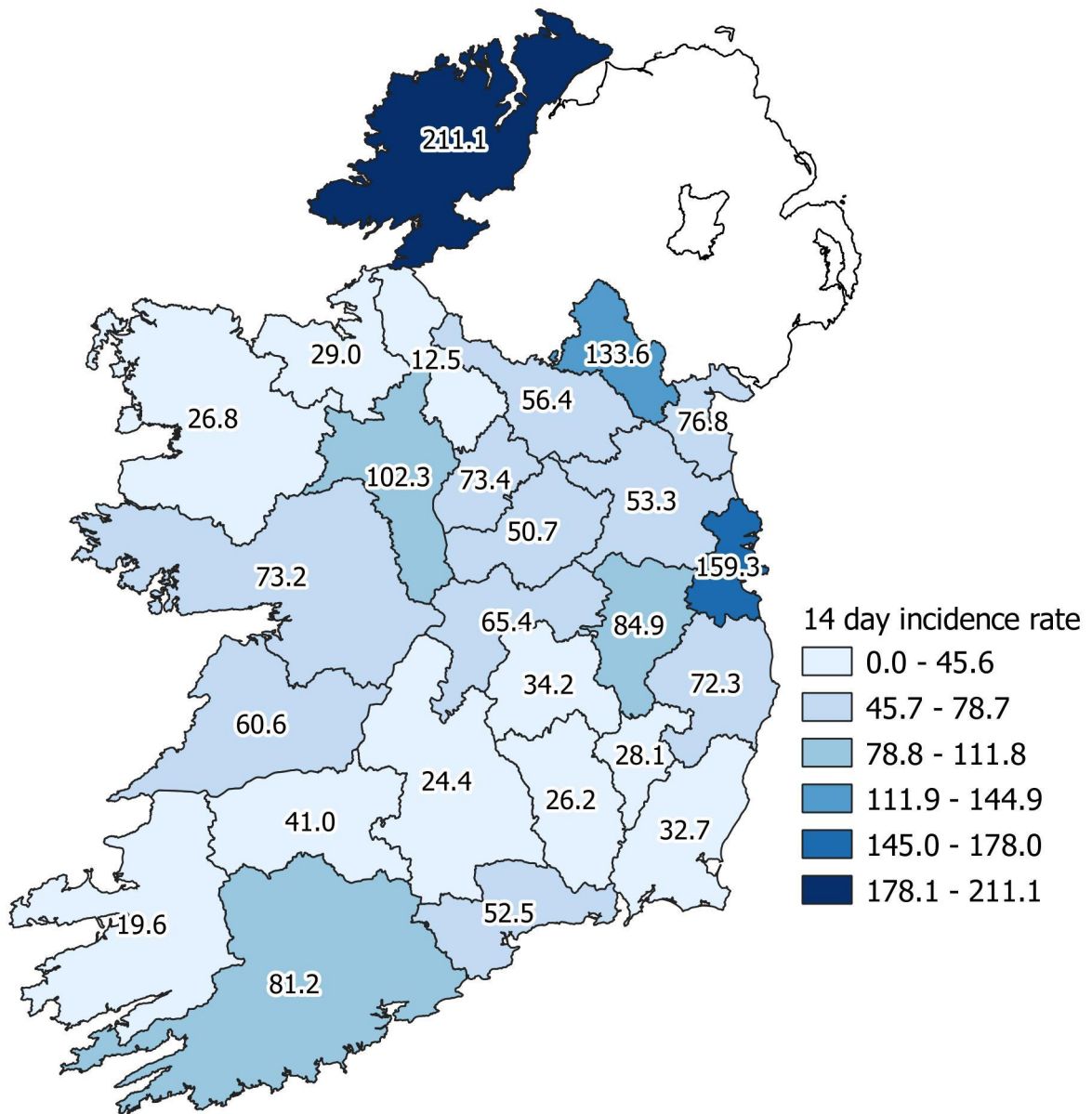


Figure 3: Cumulative incidence rates of confirmed COVID-19 cases per 100,000 population, by county, notified in Ireland from 16/09/2020 to midnight 29/09/2020

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 16/09/2020 to midnight 29/09/2020

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	117	86.0
CCA2	Dublin South East	235	190.0
CCA3	Dublin South City	209	139.4
CCA4	Dublin South West	276	171.5
CCA5	Dublin West	252	162.2
CCA6	Dublin North West	402	193.6
CCA7	Dublin North Central	300	194.1
CCA8	Dublin North	356	137.4
	Dublin	2147	159.3

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 16/09/2020 to midnight 29/09/2020

Most likely transmission source	Number of cases	Percent
Travel related	91	2.08%
Close contact with a known confirmed case	2,403	54.81%
Healthcare setting acquired: patient	49	1.12%
Healthcare setting acquired: staff	56	1.28%
Community transmission	1,169	26.67%
Under investigation	616	14.05%
Total	4,384	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

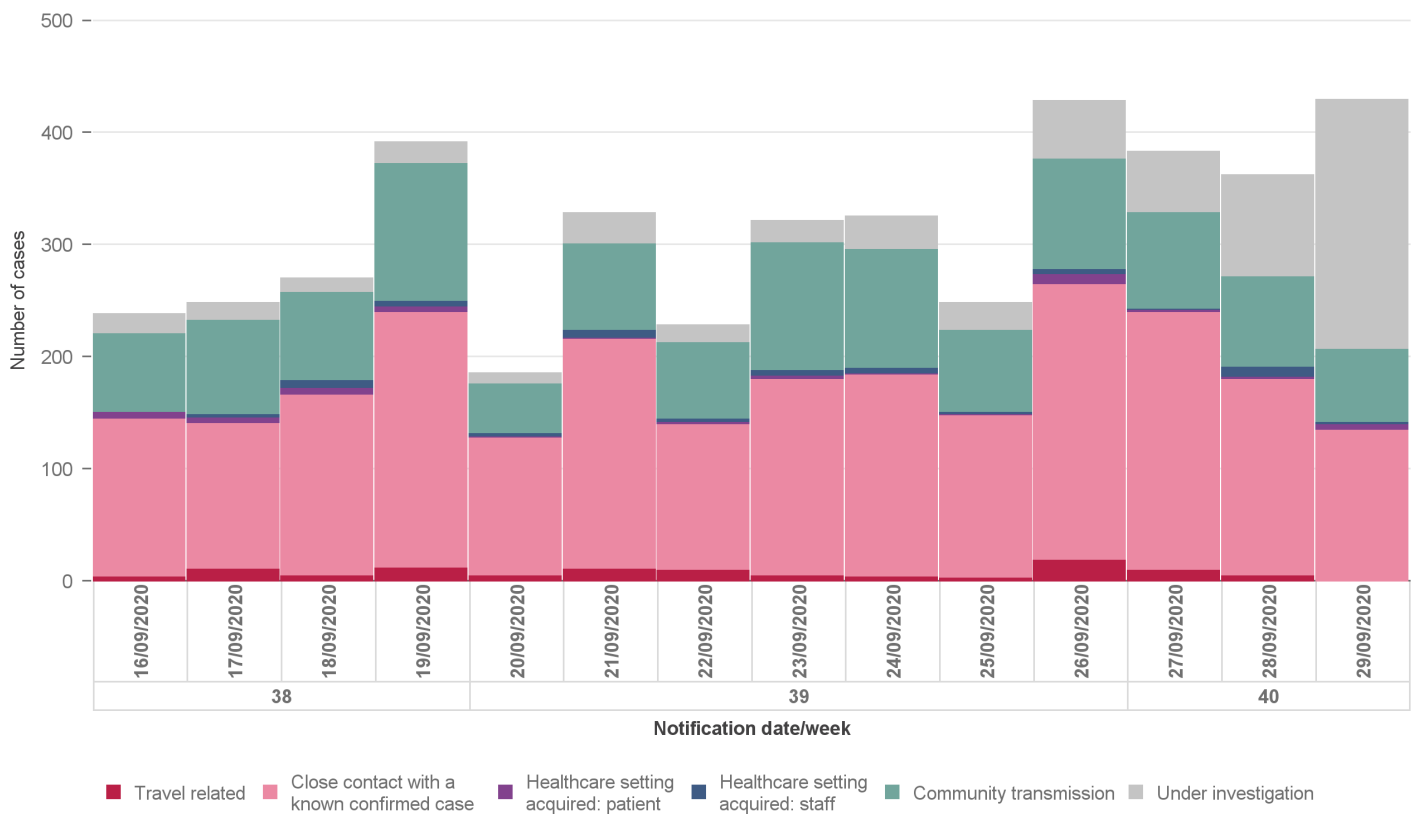


Figure 4: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and most likely transmission source from 16/09/2020 to midnight 29/09/2020

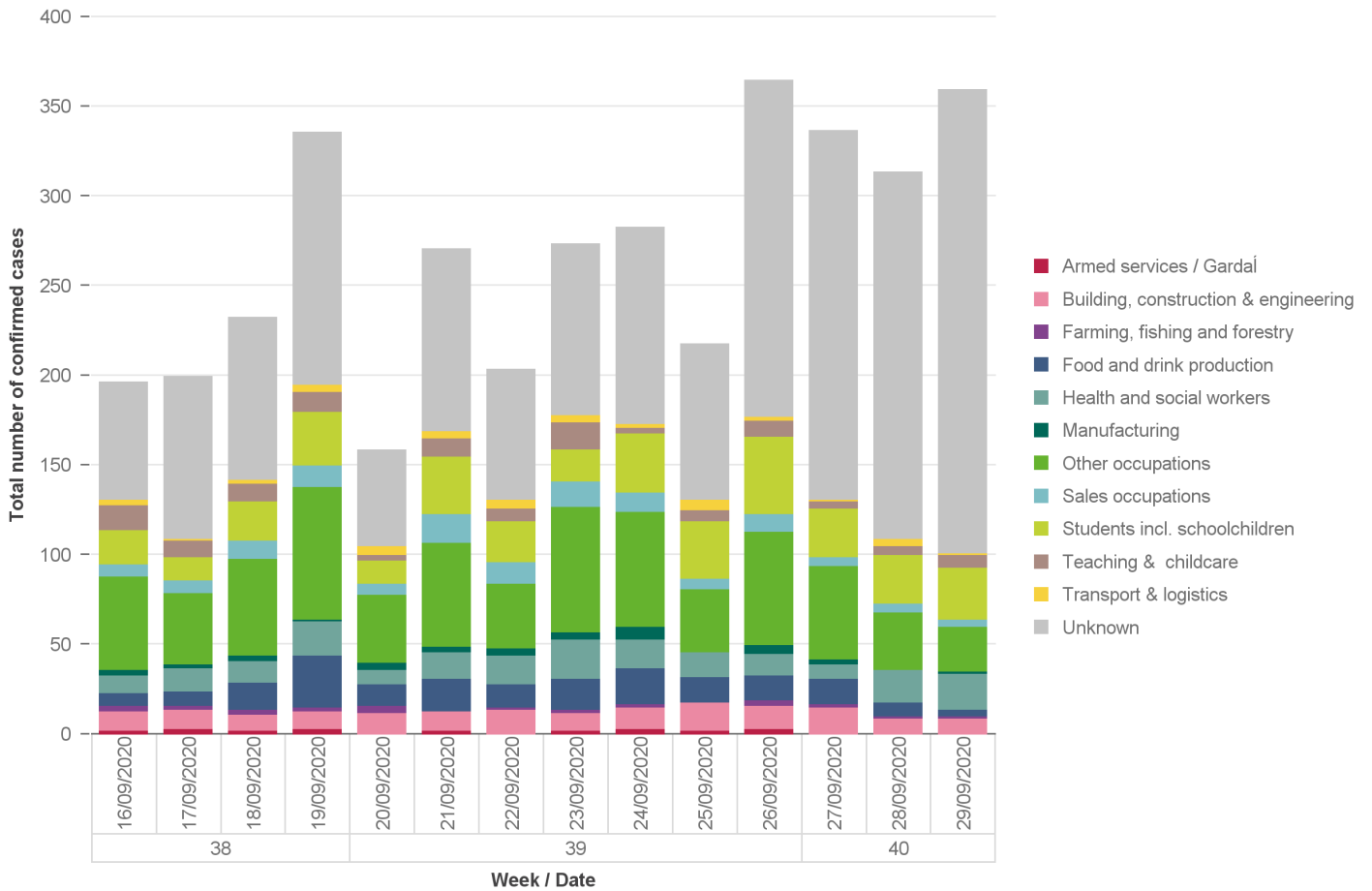


Figure 5: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and occupation* from 16/09/2020 to midnight 29/09/2020

*Among cases aged 16-69 years

Table 7: Cumulative number of confirmed cases of COVID-19 notified in Ireland from 16/09/2020 to midnight 29/09/2020 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	121	3	2.24	0	0
5-14 yrs	318	5	3.73	0	0
15-24 yrs	1077	8	5.97	0	0
25-34 yrs	790	6	4.48	1	10
35-44 yrs	644	14	10.45	3	30
45-54 yrs	602	17	12.69	1	10
55-64 yrs	409	27	20.15	1	10
65-74 yrs	245	26	19.4	3	30
75-84 yrs	123	17	12.69	1	10
85+ yrs	55	11	8.21	0	0
Total	4,384	134	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 13:25 on 30/09/2020. 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.