



Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 29/09/2020

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 15/09/2020 up to midnight 28/09/2020

	Number	Percent
Total number of confirmed cases	4,213	
National incidence of confirmed cases per 100,000 population	88.47	
Number of cases hospitalised*	123	2.92
Number of cases admitted to ICU*	9	0.21
Number of deaths among confirmed cases	5	0.12
Case fatality ratio (CFR, %)	0.12	
National incidence of confirmed deaths per 100,000 population	0.11	
Number of cases** associated with clusters	2,016	47.85
Number of imported cases	21	0.5
Number of cases in healthcare workers	240	5.7
Males	2,088	49.56
Females	2,122	50.37
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
15/09/2020 - 28/09/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 13:22 on 29/09/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.

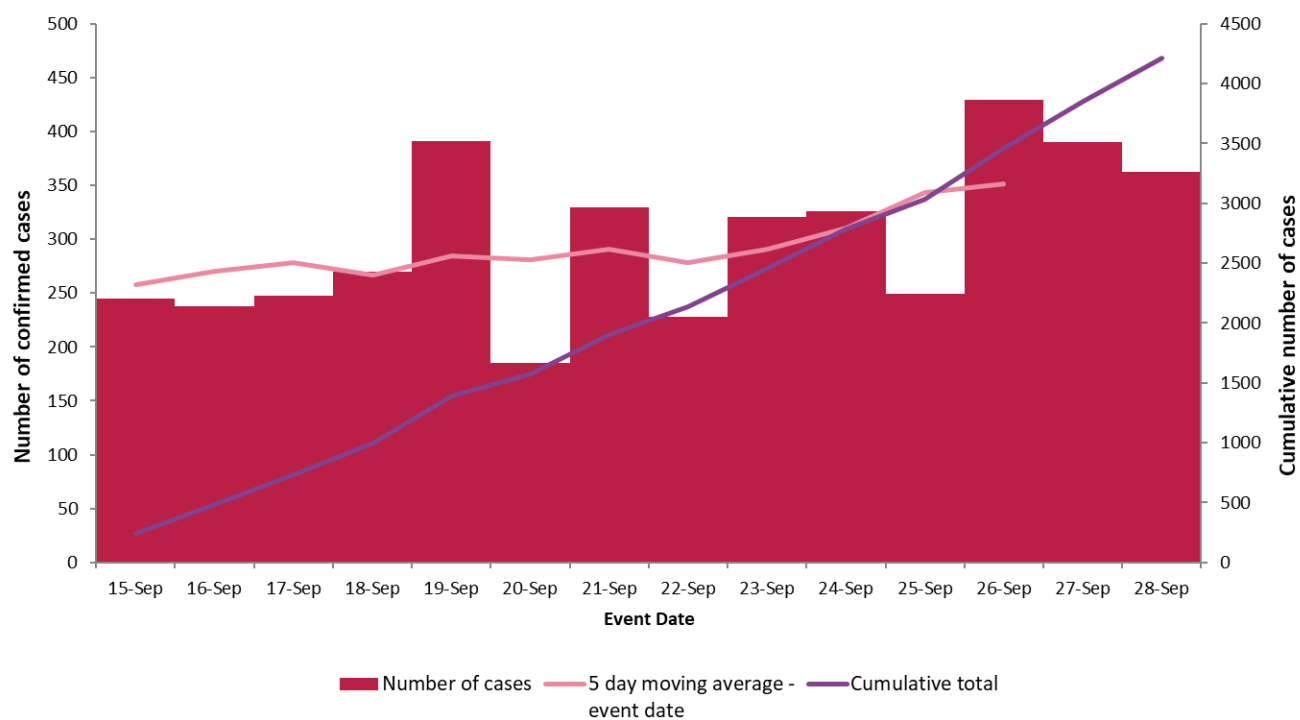


Figure 1. Daily number and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date (n=4,213)

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 15/09/2020 up to midnight on 28/09/202

Characteristic		Number of cases	Percent
Total number of confirmed cases		4,213	100
Sex	Male:Female ratio	0.98	
	Male	2,088	49.56
	Female	2,122	50.37
	Unknown	3	0.07
Age	Median age (years)	33	
	Mean age (years)	36	
	Age range (years)	0 - 99	
	0-4 yrs	115	2.73
	5-14 yrs	321	7.62
	15-24 yrs	1,022	24.26
	25-34 yrs	765	18.16
	35-44 yrs	616	14.62
	45-54 yrs	580	13.77
	55-64 yrs	391	9.28
	65-74 yrs	240	5.7
	75-84 yrs	114	2.71
	85+ yrs	48	1.14
	Unknown	1	0.02
Underlying clinical conditions	Yes	1,122	26.63
	No	2,524	59.91
	Unknown	567	13.46

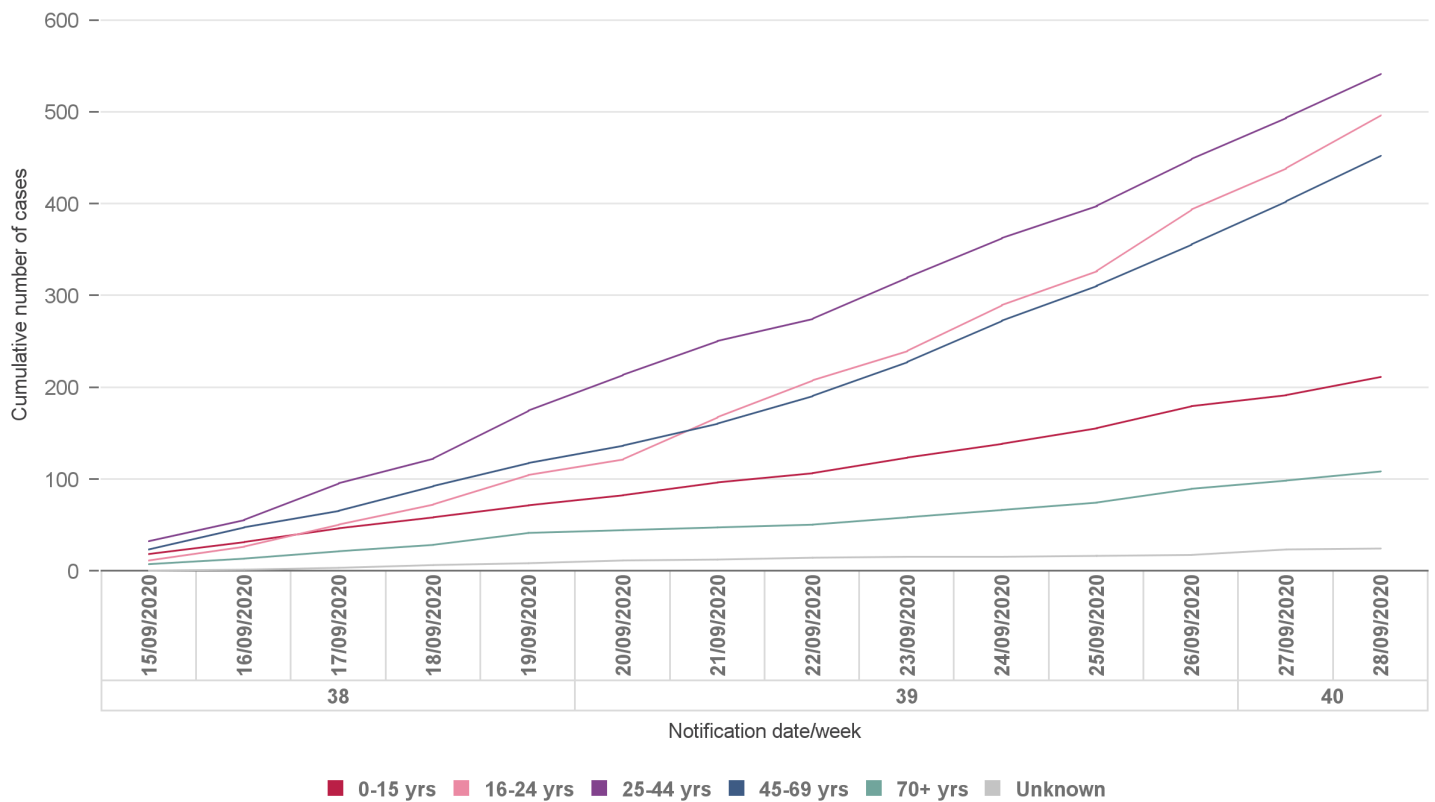


Figure 2: Cumulative number of confirmed COVID-19 cases notified in Ireland by date/week of notification and age group (years) from 15/09/2020 to midnight 28/09/2020

**Table 2: Characteristics of confirmed COVID-19 cases by community healthcare organisation (CHO)*
notified from 15/09/2020 to midnight 28/09/2020**

CHO Area	Cases		M:F ratio	Mean age (years)	Healthcare workers		Associated with clusters	
	N	%			N	%	N	%
CHO1	468	11.11	1.17	35	17	3.63	270	57.69
CHO2	272	6.46	1.18	33	17	6.25	122	44.85
CHO3	150	3.56	0.9	39	10	6.67	84	56
CHO4	421	9.99	0.91	36	17	4.04	320	76.01
CHO5	186	4.41	1.16	37	7	3.76	108	58.06
CHO6	429	10.18	0.85	36	19	4.43	157	36.6
CHO7	880	20.89	0.99	37	46	5.23	358	40.68
CHO8	341	8.09	0.99	35	33	9.68	228	66.86
CHO9	1,066	25.3	0.93	37	74	6.94	369	34.62
National	4,213	100	0.98	36	240	5.7	2,016	47.85

**Table 3: Number of confirmed COVID-19 cases by community healthcare organisation (CHO)
* notified in Ireland from 15/09/2020 to midnight 28/09/2020**

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	4,213	88.5

*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 15/09/2020 to midnight 28/09/2020

County	Number of confirmed cases	Incidence per 100,000 population
Carlow	22	38.6
Cavan	36	47.3
Clare	61	51.3
Cork	388	71.5
Donegal	325	204.2
Dublin	2102	156.0
Galway	169	65.5
Kerry	33	22.3
Kildare	174	78.2
Kilkenny	27	27.2
Laois	27	31.9
Leitrim	5	15.6
Limerick	69	35.4
Longford	24	58.7
Louth	104	80.7
Mayo	39	29.9
Meath	95	48.7
Monaghan	83	135.2
Offaly	48	61.6
Roscommon	64	99.2
Sligo	19	29.0
Tipperary	38	23.8
Waterford	67	57.7
Westmeath	43	48.4
Wexford	52	34.7
Wicklow	99	69.5
Ireland	4,213	88.5

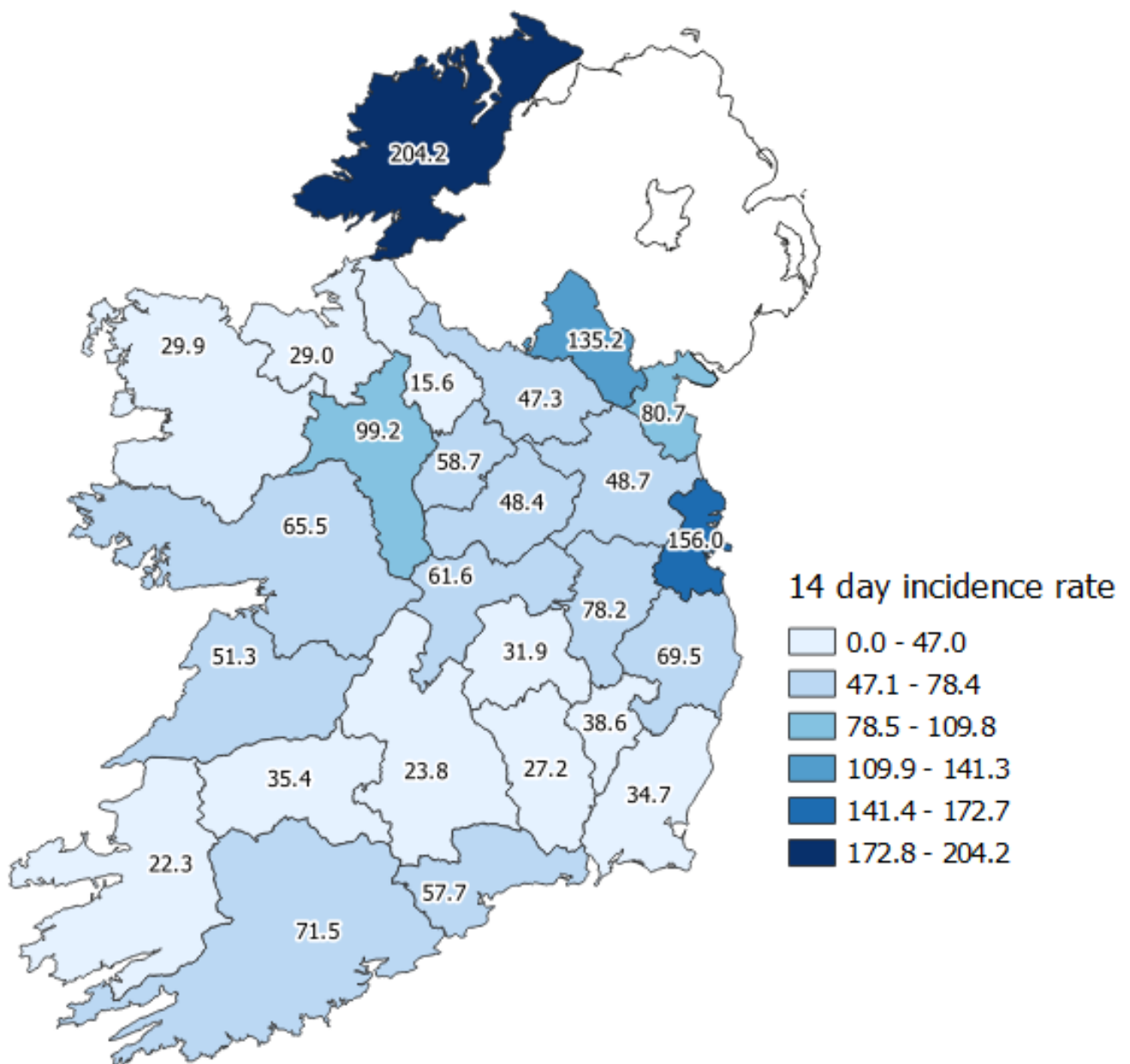


Figure 3: Cumulative incidence rates of confirmed COVID-19 cases per 100,000 population, by county, notified in Ireland from 15/09/2020 to midnight 28/09/2020

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 15/09/2020 to midnight 28/09/2020

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	99	72.8
CCA2	Dublin South East	233	188.4
CCA3	Dublin South City	195	130.1
CCA4	Dublin South West	271	168.4
CCA5	Dublin West	238	153.2
CCA6	Dublin North West	401	193.1
CCA7	Dublin North Central	294	190.2
CCA8	Dublin North	371	143.2
	Dublin	2102	156.0

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 15/09/2020 to midnight 28/09/2020

Most likely transmission source	Number of cases	Percent
Travel related	91	2.16%
Close contact with a known confirmed case	2,328	55.26%
Healthcare setting acquired: patient	45	1.07%
Healthcare setting acquired: staff	50	1.19%
Community transmission	1,103	26.18%
Under investigation	596	14.15%
Total	4,213	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

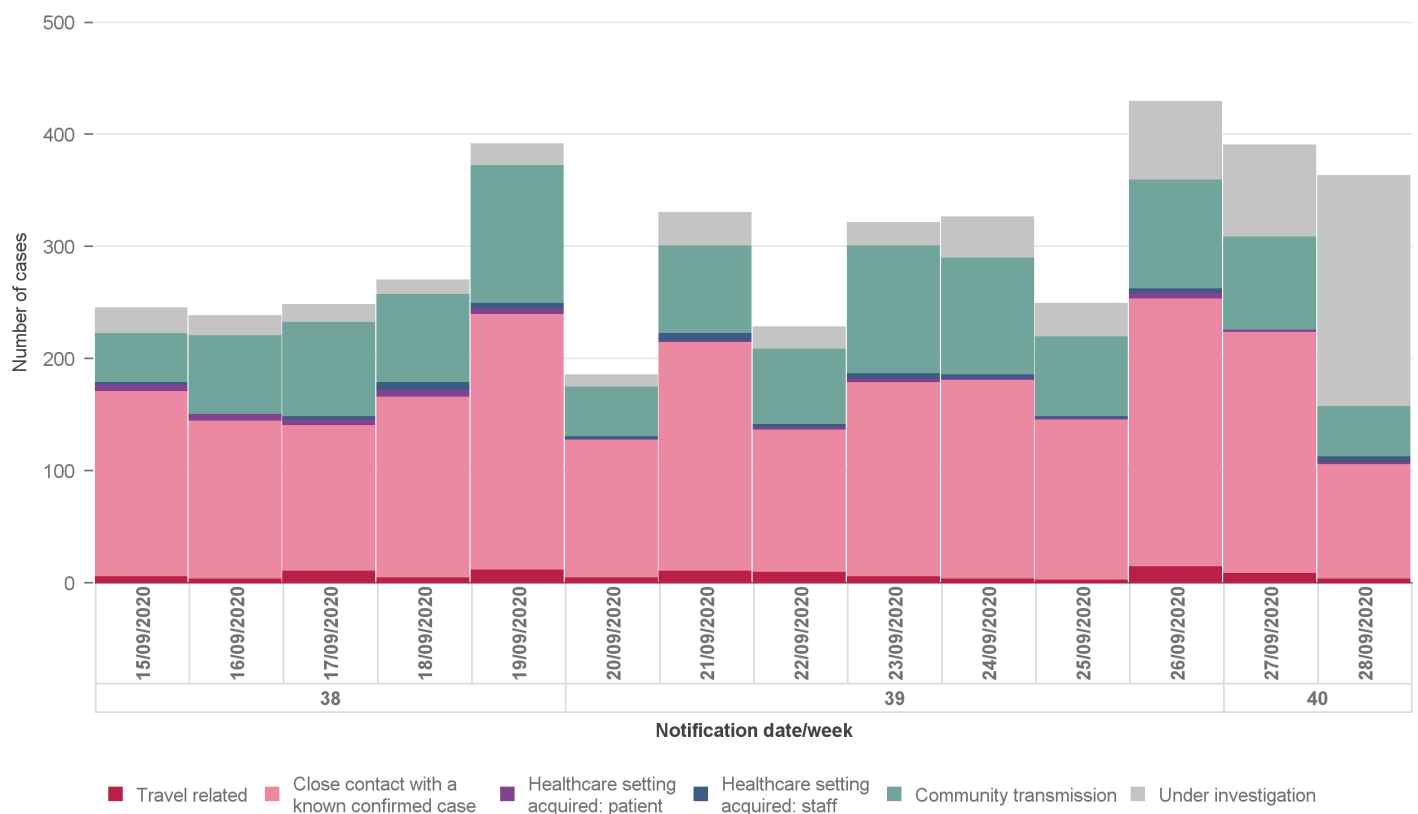


Figure 4: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and most likely transmission source from 15/09/2020 to midnight 28/09/2020

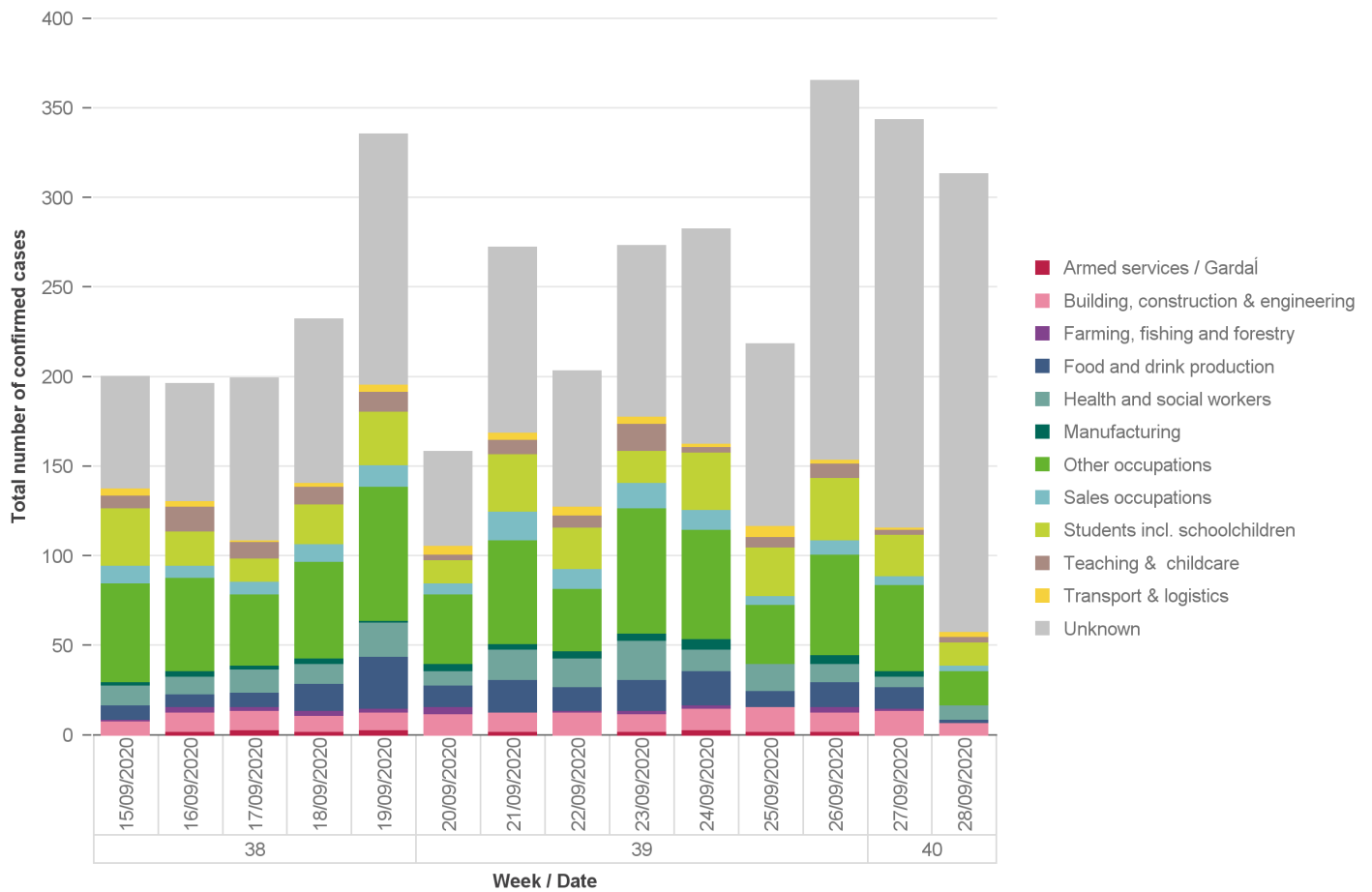


Figure 5: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and occupation* from 15/09/2020 to midnight 28/09/2020

*Among cases aged 16-69 years

Table 7: Cumulative number of confirmed cases of COVID-19 notified in Ireland from 15/09/2020 to midnight 28/09/2020 by age group and 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	115	1	0.81	0	0
5-14 yrs	321	2	1.63	0	0
15-24 yrs	1022	7	5.69	0	0
25-34 yrs	765	5	4.07	0	0
35-44 yrs	616	12	9.76	4	44.44
45-54 yrs	580	17	13.82	1	11.11
55-64 yrs	391	28	22.76	1	11.11
65-74 yrs	240	27	21.95	3	33.33
75-84 yrs	114	15	12.2	0	0
85+ yrs	48	9	7.32	0	0
Unknown	1			0	0
Total	4,213	123	100	9	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 29/09/2020. 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.