



Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 11/10/2020

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 27/09/2020 up to midnight 10/10/2020

	Number	Percent
Total number of confirmed cases	7,548	
National incidence of confirmed cases per 100,000 population	158.51	
Number of cases hospitalised*	223	2.95
Number of cases admitted to ICU*	14	0.19
Number of deaths among confirmed cases	9	0.12
Case fatality ratio (CFR, %)	0.12	
National incidence of confirmed deaths per 100,000 population	0.19	
Number of cases** associated with clusters	2,551	33.8
Number of imported cases	12	0.16
Number of cases in healthcare workers	442	5.86
Males	3,776	50.03
Females	3,757	49.77
M:F ratio	1.01	
Median age (years)	32	
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
27/09/2020 - 10/10/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 13:23 on 11/10/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.

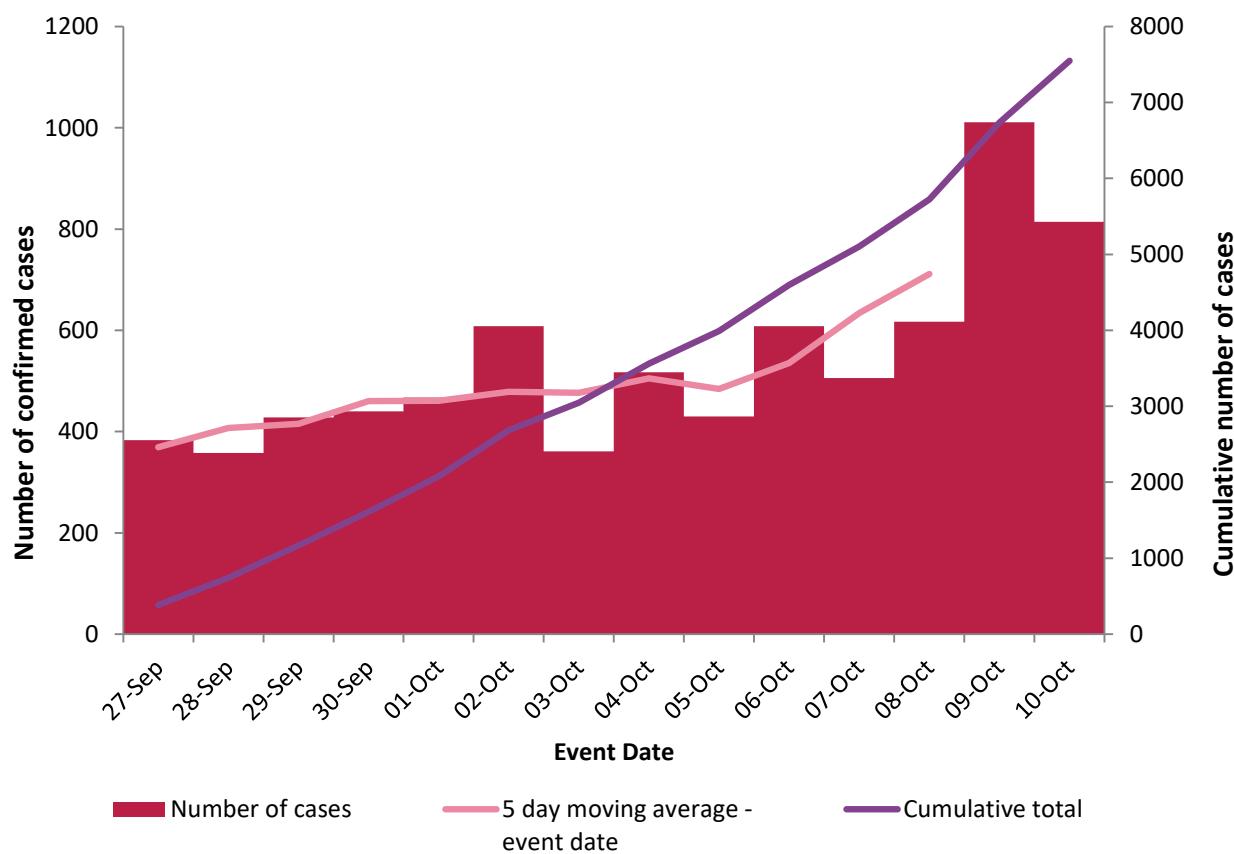


Figure 1. Daily number and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date (n=7,548)

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 27/09/2020 up to midnight on 10/10/2020

Characteristic	Number of cases	Percent
Total number of confirmed cases	7,548	100
Sex		
Male:Female ratio	1.01	
Male	3,776	50.03
Female	3,757	49.77
Unknown	15	0.2
Age		
Median age (years)	32	
Mean age (years)	36	
Age range (years)	0 - 98	
0-4 yrs	204	2.7
5-14 yrs	492	6.52
15-24 yrs	2,001	26.51
25-34 yrs	1,324	17.54
35-44 yrs	1,074	14.23
45-54 yrs	1,015	13.45
55-64 yrs	762	10.1
65-74 yrs	356	4.72
75-84 yrs	196	2.6
85+ yrs	119	1.58
Unknown	5	0.07
Underlying clinical conditions		
Yes	1,401	18.56
No	4,590	60.81
Unknown	1,557	20.63

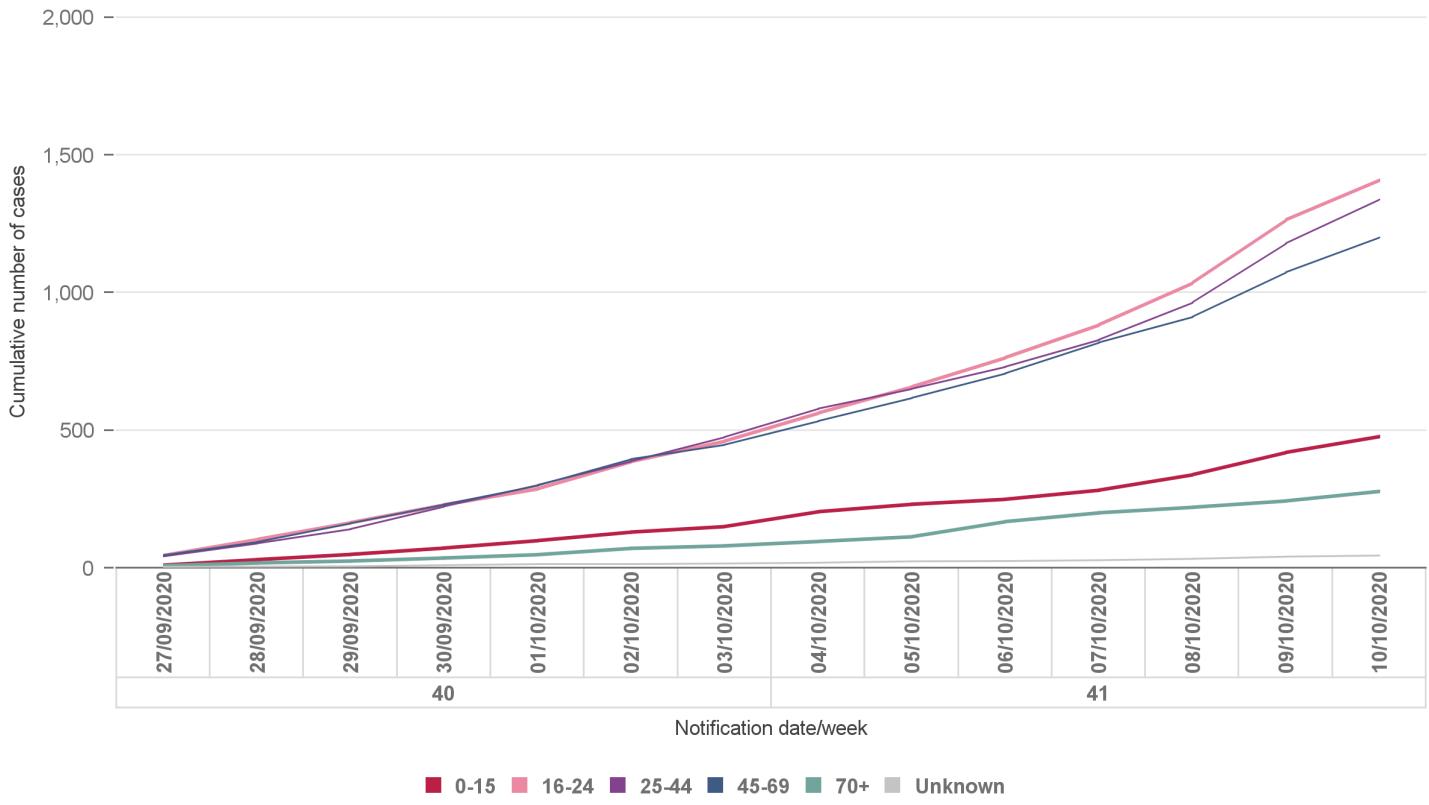


Figure 2: Cumulative number of confirmed COVID-19 cases notified in Ireland by date/week of notification and age group from 27/09/2020 to midnight 10/10/2020

Table 2: Characteristics of confirmed COVID-19 cases by CHO notified from 27/09/2020 to midnight 10/10/2020

CHO Area	Cases		M:F ratio	Mean age (years)	Healthcare workers		Associated with clusters	
	N	%			N	%	N	%
CHO1	1,141	15.12	1.02	37	81	7.1	490	42.94
CHO2	605	8.02	1.03	32	16	2.64	293	48.43
CHO3	658	8.72	1.05	30	6	0.91	94	14.29
CHO4	1,025	13.58	1.05	35	53	5.17	408	39.8
CHO5	418	5.54	1	39	32	7.66	126	30.14
CHO6	504	6.68	0.77	38	37	7.34	171	33.93
CHO7	1,086	14.39	0.99	37	62	5.71	292	26.89
CHO8	908	12.03	1.16	40	69	7.6	310	34.14
CHO9	1,203	15.94	0.93	36	86	7.15	367	30.51
National	7,548	100	1.01	36	442	5.86	2,551	33.8

Table 3: Number of confirmed COVID-19 cases by community healthcare organisation (CHO) notified in Ireland from 27/09/2020 to midnight 10/10/2020

CHO Area	Number of confirmed cases	Incidence per 100,000 population
CHO1	1141	291.6
CHO2	605	133.5
CHO3	658	170.9
CHO4	1025	148.4
CHO5	418	81.9
CHO6	504	131.5
CHO7	1086	153.5
CHO8	908	146.6
CHO9	1203	194.3
Ireland	7,548	158.5

*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 27/09/2020 to midnight 10/10/2020

County	Number of confirmed cases	Incidence per 100,000 population
Carlow	34	59.7
Cavan	258	338.7
Clare	309	260.1
Cork	862	158.8
Donegal	549	344.9
Dublin	2353	174.6
Galway	394	152.7
Kerry	163	110.4
Kildare	321	144.3
Kilkenny	72	72.6
Laois	113	133.4
Leitrim	31	96.7
Limerick	312	160.1
Longford	85	208.0
Louth	140	108.6
Mayo	92	70.5
Meath	357	183.0
Monaghan	196	319.3
Offaly	107	137.2
Roscommon	119	184.4
Sligo	107	163.3
Tipperary	111	69.6
Waterford	74	63.7
Westmeath	103	116.0
Wexford	167	111.5
Wicklow	119	83.6
Ireland	7,548	158.5

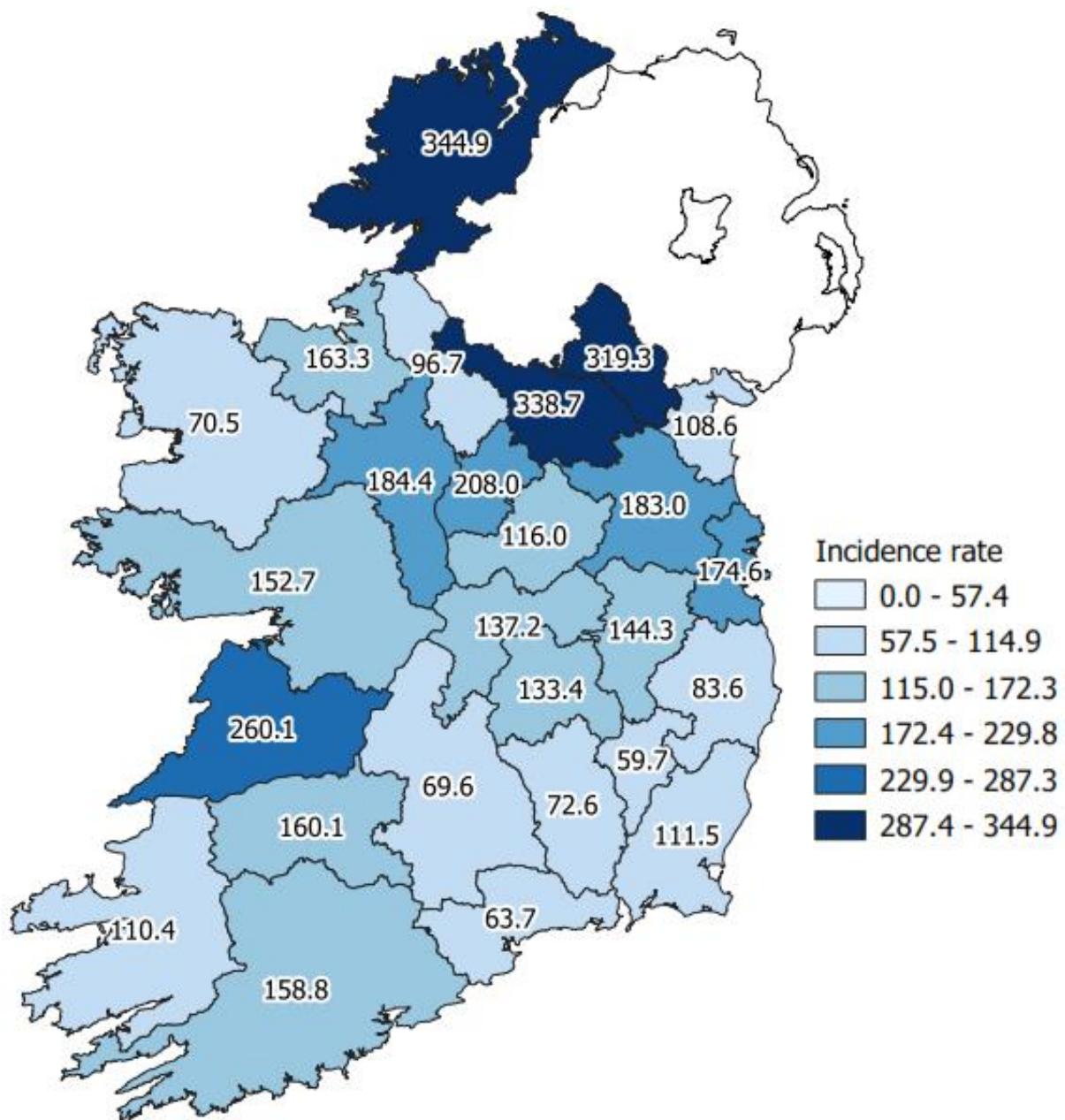


Figure 3: Cumulative incidence rates of confirmed cases of COVID-19 per 100,000 population, by county, notified in Ireland between 27/09/2020 and midnight 10/10/2020

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 in Ireland with a notification date between 27/09/2020 and 10/10/2020

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	124	91.1
CCA2	Dublin South East	271	219.1
CCA3	Dublin South City	192	128.1
CCA4	Dublin South West	248	154.1
CCA5	Dublin West	315	202.8
CCA6	Dublin North West	465	223.9
CCA7	Dublin North Central	374	241.9
CCA8	Dublin North	364	140.5
Dublin		2353	174.6

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 27/09/2020 to midnight 10/10/2020

Most likely transmission source	Number of cases	Percent
Travel related *	69	0.91%
Close contact with a known confirmed case	3,842	50.90%
Healthcare setting acquired: patient	153	2.03%
Healthcare setting acquired: staff	90	1.19%
Community transmission	1,645	21.79%
Under investigation	1,749	23.17%
Total	7,548	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

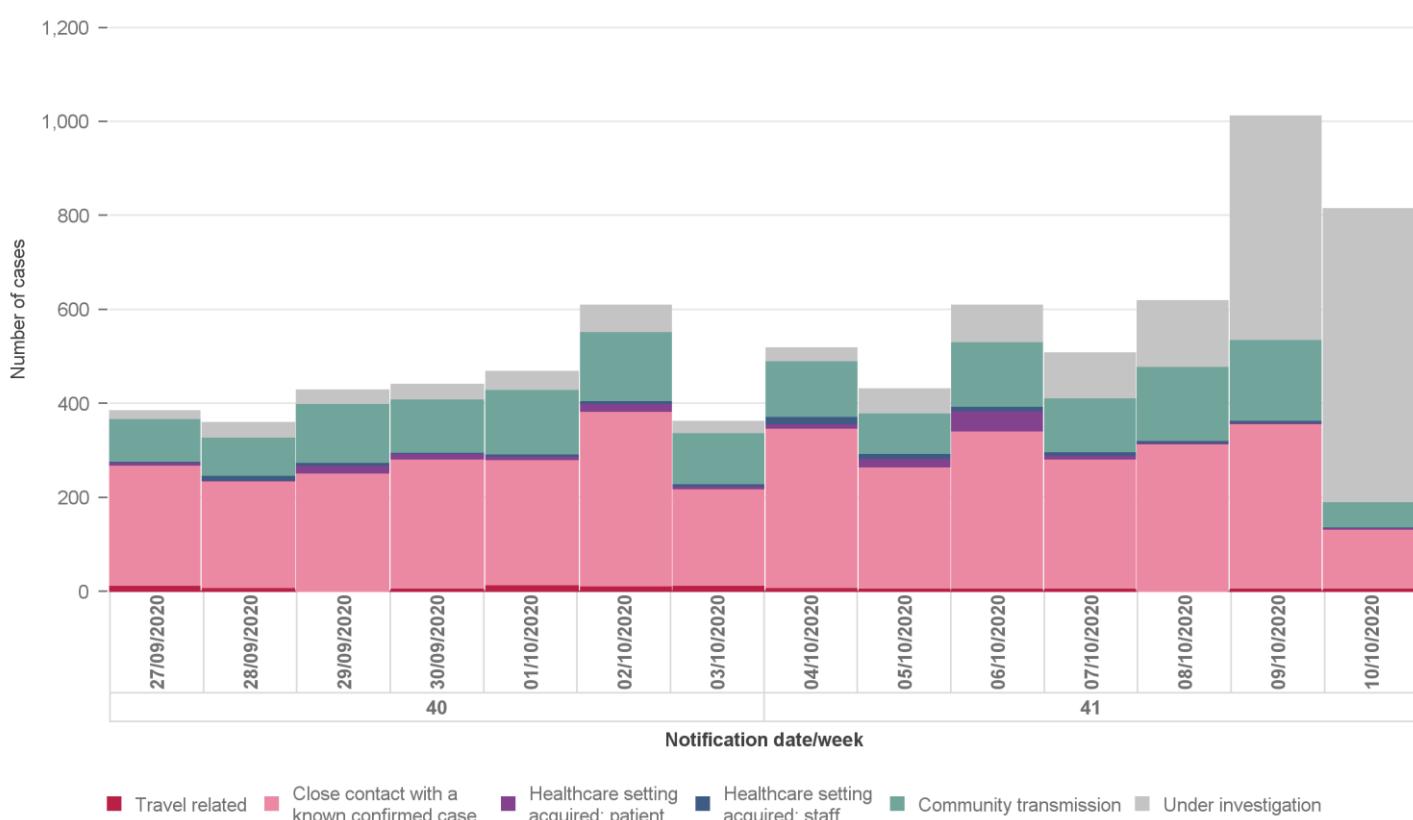


Figure 4: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and most likely transmission source from 27/09/2020 to midnight 10/10/2020

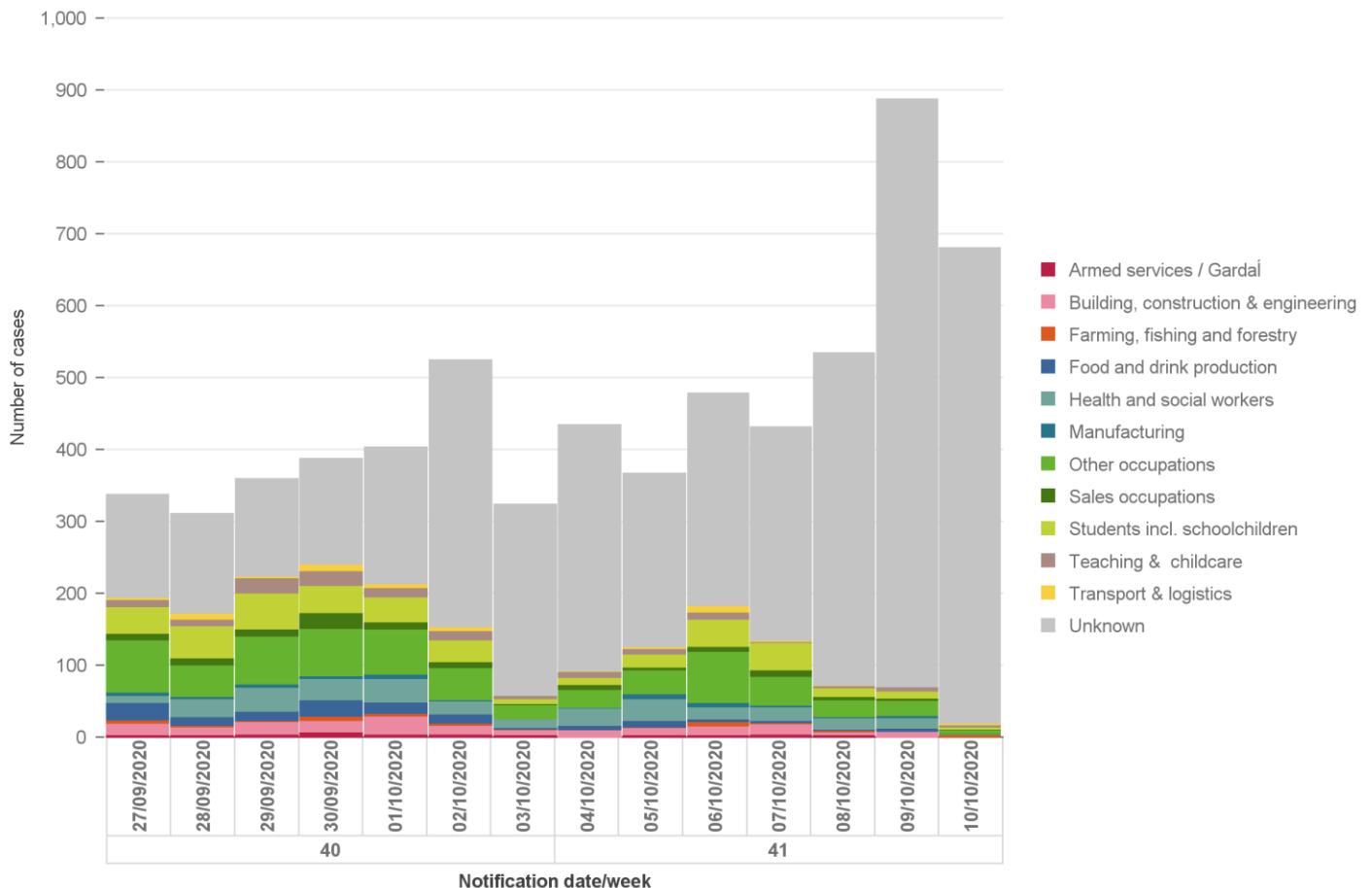


Figure 5: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and occupation* from 27/09/2020 to midnight 10/10/2020

*Among cases aged 16-69 years

Table 7: Cumulative number of confirmed cases of COVID-19 notified in Ireland from 27/09/2020 to midnight 10/10/2020 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	204	9	4.04	0	0
5-14 yrs	492	11	4.93	0	0
15-24 yrs	2001	15	6.73	0	0
25-34 yrs	1324	21	9.42	0	0
35-44 yrs	1074	16	7.17	2	14.29
45-54 yrs	1015	14	6.28	0	0
55-64 yrs	762	32	14.35	5	35.71
65-74 yrs	356	35	15.7	5	35.71
75-84 yrs	196	42	18.83	2	14.29
85+ yrs	119	27	12.11	0	0
Unknown	5	1	0.45	0	0
Total	7,548	223	100	14	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 13:23 on 11/10/2020. 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. HSE areas

The counties covered by each HSE area are as follows:

- HSE East (E): Dublin, Kildare & Wicklow;
- HSE Midlands (M): Laois, Longford, Offaly & Westmeath;
- HSE Midwest (MW): Clare, Limerick & N. Tipperary;
- HSE Northeast (NE): Cavan, Louth, Meath & Monaghan;
- HSE Northwest (NW): Donegal, Leitrim & Sligo;
- HSE South (S): Kerry & Cork;
- HSE Southeast (SE): Carlow, Kilkenny, S. Tipperary, Waterford & Wexford;
- HSE West (W): Galway, Mayo & Roscommon.

5. 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.