Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 03/09/2020

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 20/08/2020 up to midnight 02/09/2020

	Number	Percent
Total number of confirmed cases	1,536	
National incidence of confirmed cases per 100,000 population	32.26	
Number of cases hospitalised*	49	3.19
Number of cases admitted to ICU*	2	0.13
Number of deaths among confirmed cases	0	0
Case fatality ratio (CFR, %)	0	
National incidence of confirmed deaths per 100,000 population	0	
Number of cases** associated with clusters	726	47.27
Number of imported cases	32	2.08
Number of cases in healthcare workers	140	9.11
Males	794	51.69
Females	740	48.18
M:F ratio	1.07	
Median age (years)	32	
Mean age (years)	35	
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 20/08/2020 - 02/09/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 13:25 on 03/09/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.
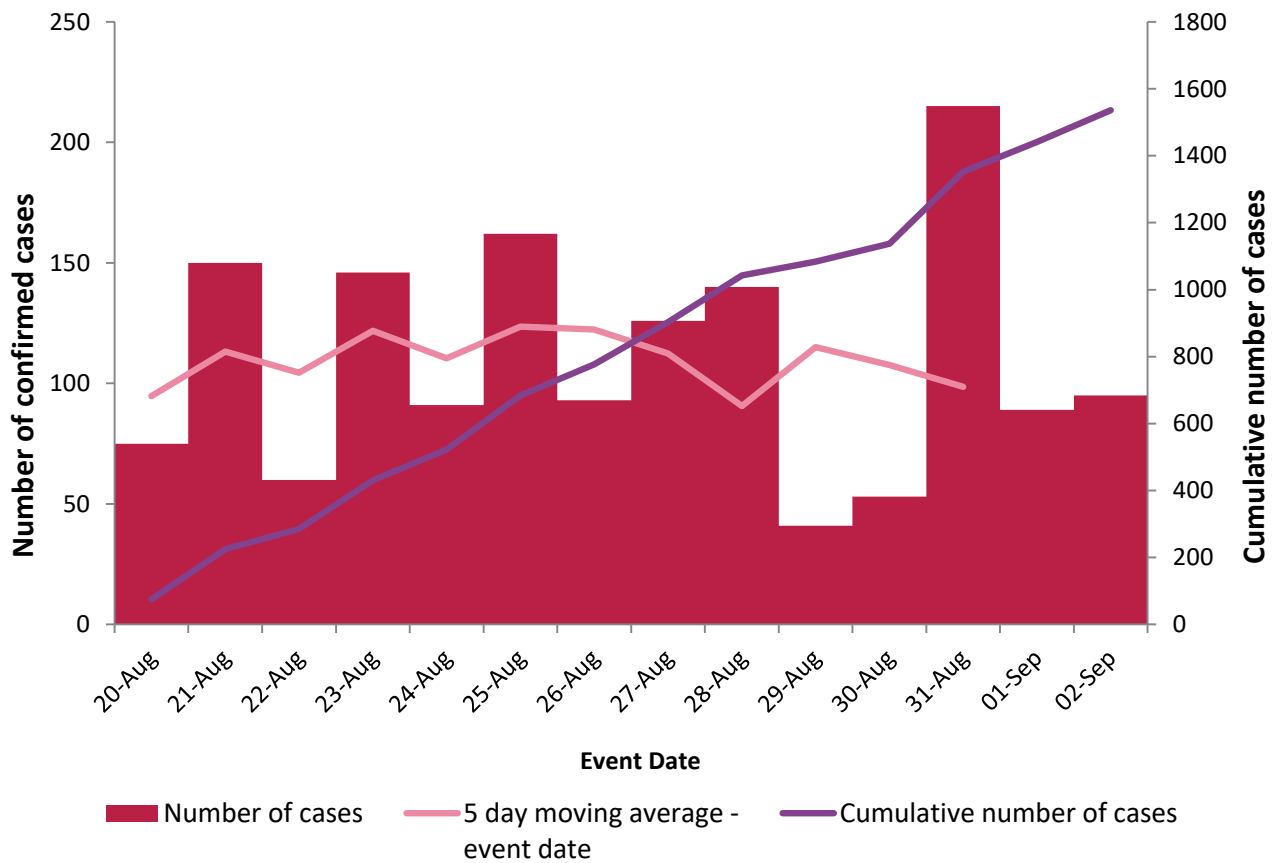
Figure 1. Daily number and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date (n=1,536)

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 20/08/2020 up to midnight on 02/09/202

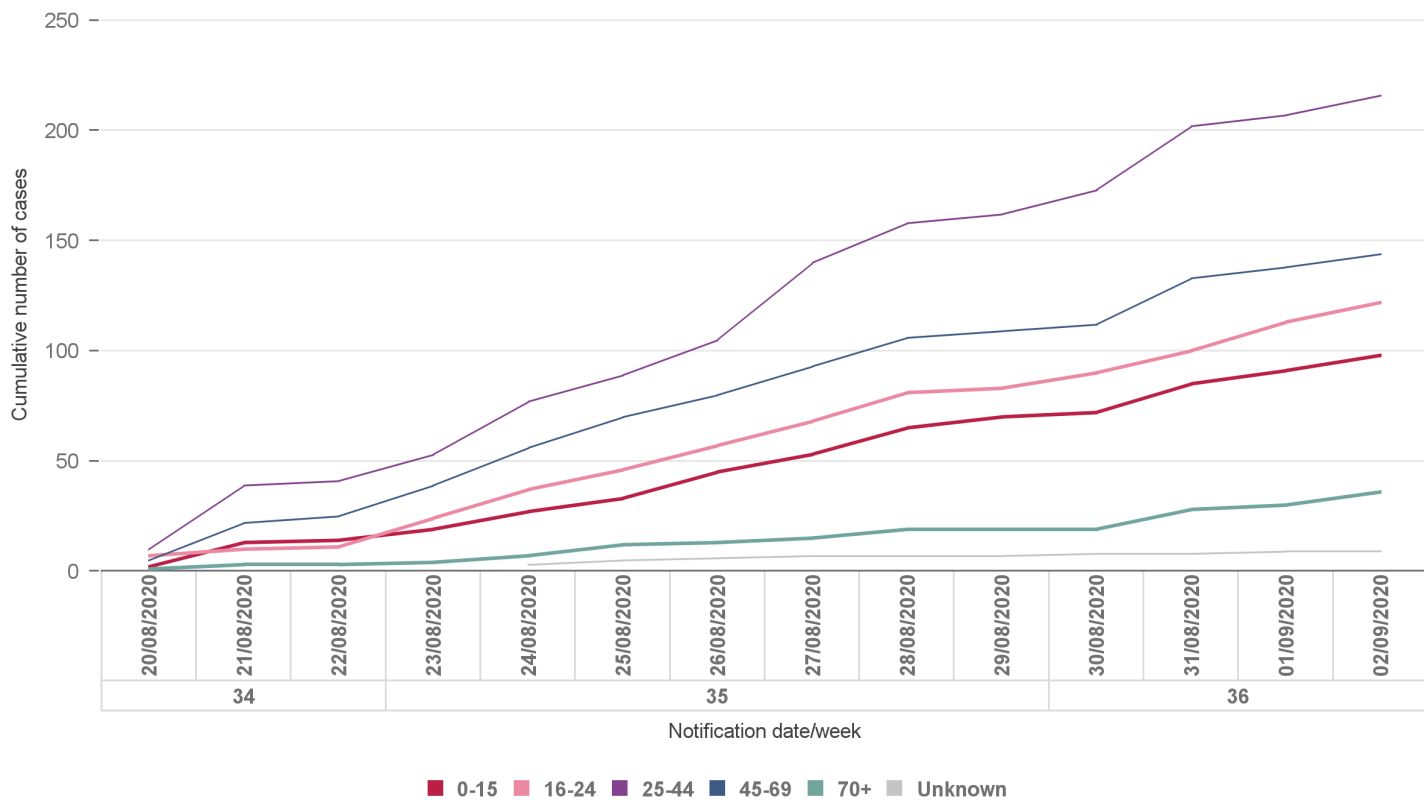| Characteristic		Number of cases	Percent
Total number of confirmed cases		**1,536**	**100**
Sex	Male:Female ratio	1.07	
	Male	794	51.69
	Female	740	48.18
	Unknown	2	0.13
Age	Median age (years)	32	
	Mean age (years)	35	
	Age range (years)	0 - 98	
	0-4 yrs	50	3.26
	5-14 yrs	132	8.59
	15-24 yrs	365	23.76
	25-34 yrs	297	19.34
	35-44 yrs	234	15.23
	45-54 yrs	206	13.41
	55-64 yrs	130	8.46
	65-74 yrs	53	3.45
	75-84 yrs	49	3.19
	85+ yrs	17	1.11
	Unknown	3	0.2
Underlying clinical conditions	Yes	382	24.87
	No	969	63.09
	Unknown	185	12.04

Figure 2: Cumulative number of confirmed COVID-19 cases notified in Ireland by date/week of notification and age group from 20/08/2020 to midnight 02/09/2020

Table 2: Characteristics of confirmed COVID-19 cases by CHO notified from 20/08/2020 to midnight 02/09/2020

CHO Area*	Cases		M:F ratio	Mean age (years)	Healthcare workers		Associated with clusters	
	N	%			N	%	N	%
CHO1	67	4.4	1.7	30	<5	3.0	54	80.6
CHO2	26	1.7	2.3	28	<5	3.8	12	46.2
CHO3	147	9.6	0.8	33	6	4.1	44	29.9
CHO4	49	3.2	1.3	30	<5	2.0	36	73.5
CHO5	198	12.9	1.3	39	7	3.5	90	45.5
CHO6	142	9.2	1.1	37	17	12.0	47	33.1
CHO7	450	29.3	1.0	36	51	11.3	230	51.1
CHO8	138	9.0	1.2	36	24	17.4	76	55.1
CHO9	319	20.8	1.0	33	31	9.7	137	42.9
National	**1536**	**100.0**	**1.1**	**35**	**140**	**9.1**	**726**	**47.3**

Table 3: Number of confirmed COVID-19 cases by community healthcare organisation (CHO) notified in Ireland from 20/08/2020 to midnight 02/09/2020

CHO Area*	Number of confirmed cases	Incidence per 100,000 population
CHO1	67	17.1
CHO2	26	5.7
CHO3	147	38.2
CHO4	49	7.1
CHO5	198	38.8
CHO6	142	37.1
CHO7	450	63.6
CHO8	138	22.3
CHO9	319	51.3
Ireland	**1,536**	**32.3**

* **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 20/08/2020 to midnight 02/09/2020

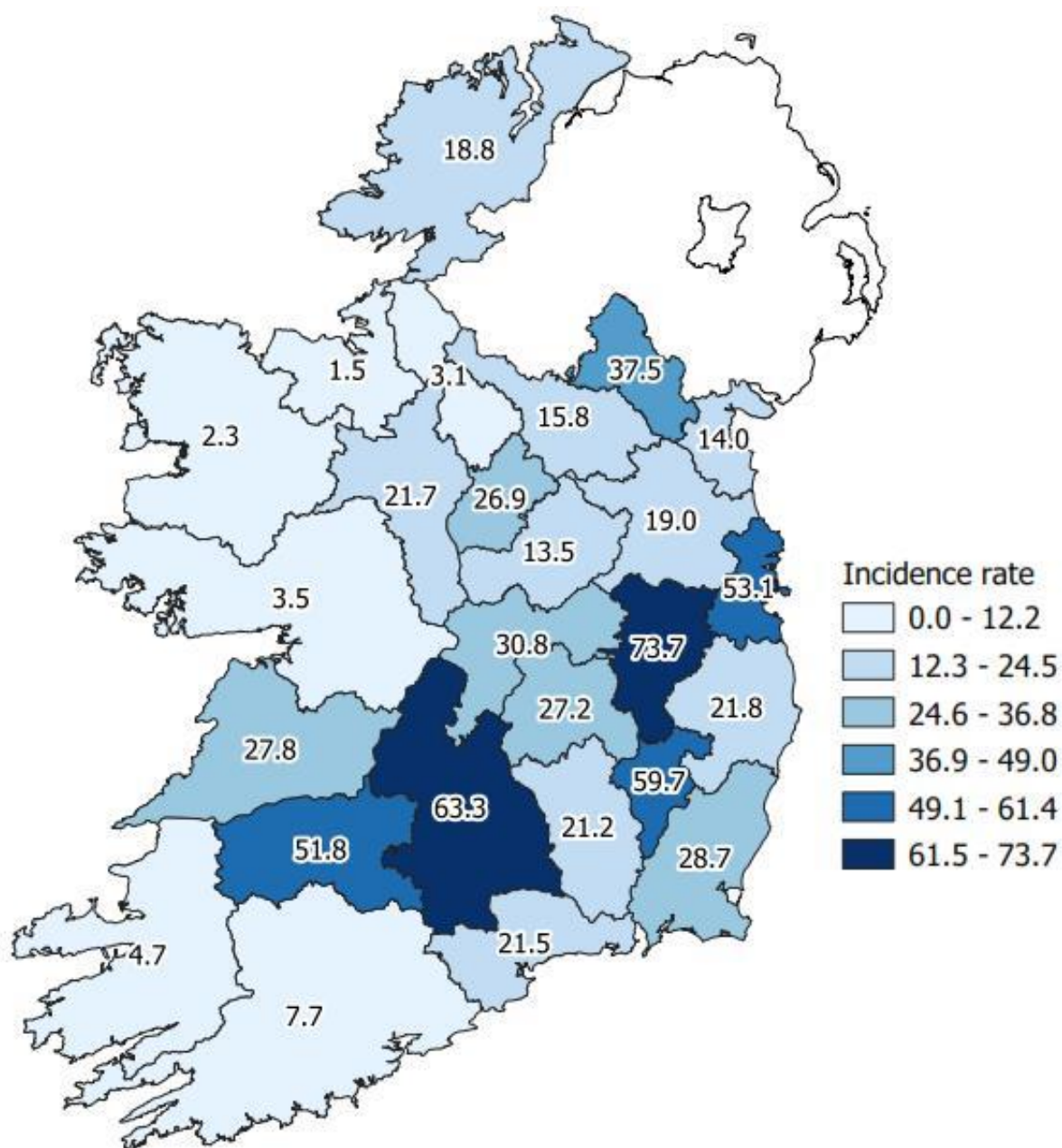| County	Number of confirmed cases	Incidence per 100,000 population
Carlow	34	59.7
Cavan	12	15.8
Clare	33	27.8
Cork	42	7.7
Donegal	30	18.8
Dublin	716	53.1
Galway	9	3.5
Kerry	7	4.7
Kildare	164	73.7
Kilkenny	21	21.2
Laois	23	27.2
Leitrim	<5	3.1
Limerick	101	51.8
Longford	11	26.9
Louth	18	14.0
Mayo	<5	2.3
Meath	37	19.0
Monaghan	23	37.5
Offaly	24	30.8
Roscommon	14	21.7
Sligo	<5	1.5
Tipperary	101	63.3
Waterford	25	21.5
Westmeath	12	13.5
Wexford	43	28.7
Wicklow	31	21.8
Ireland	**1,536**	**32.3**

Figure 3: Cumulative incidence rates of confirmed cases of COVID-19 per 100,000 population, by county, notified in Ireland between 20/08/2020 and midnight 02/09/2020

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 in Ireland with a notification date between 20/08/2020 and 02/09/2020

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	52	38.2
CCA2	Dublin South East	61	49.3
CCA3	Dublin South City	81	54.0
CCA4	Dublin South West	87	54.1
CCA5	Dublin West	116	74.7
CCA6	Dublin North West	119	57.3
CCA7	Dublin North Central	98	63.4
CCA8	Dublin North	102	39.4
	Dublin	**716**	**53.1**

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 20/08/2020 to midnight 02/09/2020

Most likely transmission source	Number of cases	Percent
Travel related*	109	7.10%
Close contact with a known confirmed case	822	53.52%
Healthcare setting acquired: patient	40	2.60%
Healthcare setting acquired: staff	55	3.58%
Community transmission	335	21.81%
Under investigation	175	11.39%
Total	**1536**	**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
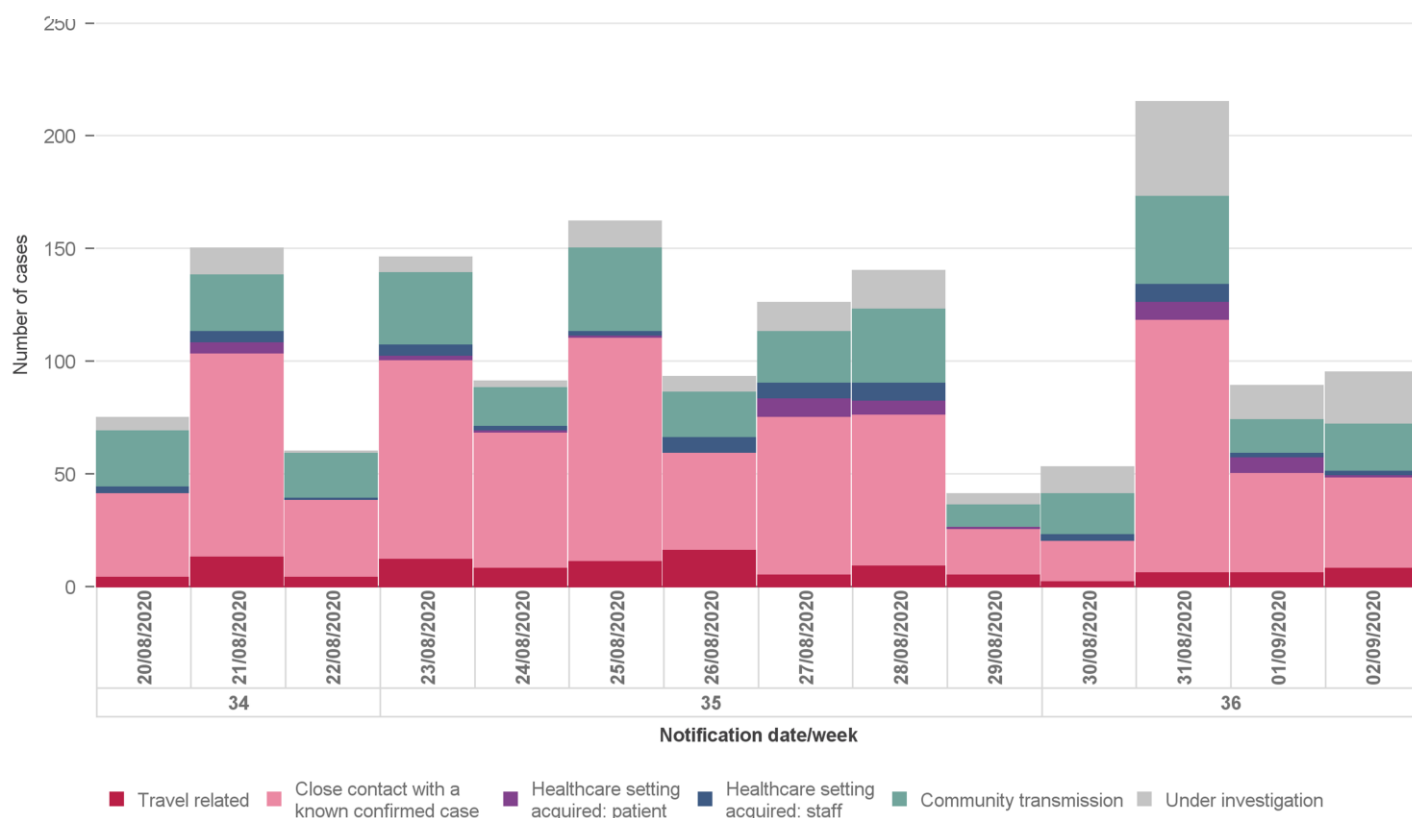

Figure 4: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and most likely transmission source from 20/08/2020 to midnight 02/09/2020
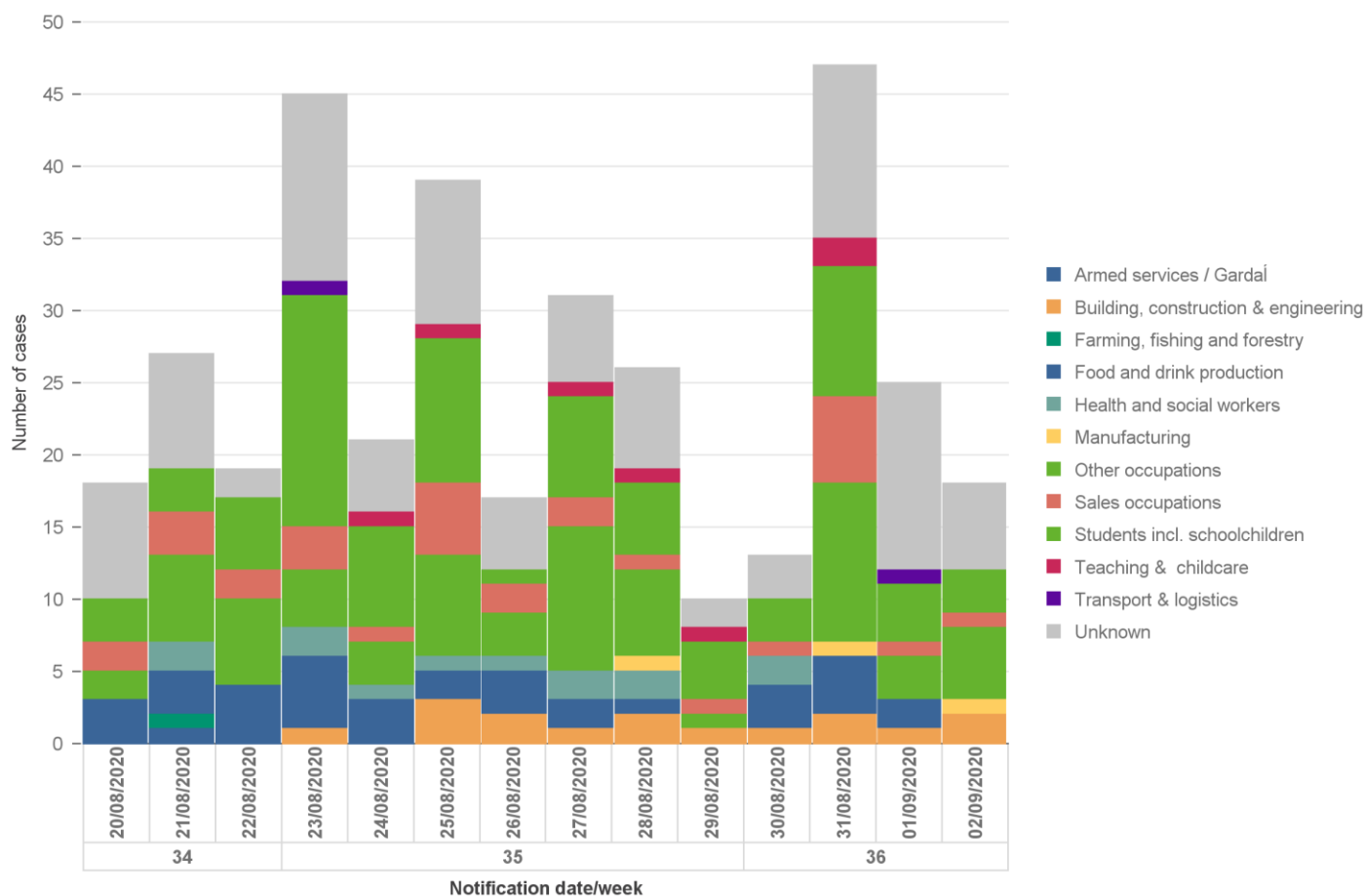
Figure 5 : Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and occupation* from 20/08/2020 to midnight 02/09/2020

*Among cases aged 16-69 years

Table 7: Cumulative number of confirmed cases of COVID-19 notified in Ireland from 20/08/2020 to midnight 02/09/2020 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	50	1	2.0	0	0
5-14 yrs	132	1	2.0	0	0
15-24 yrs	365	6	12.2	0	0
25-34 yrs	297	7	14.3	0	0
35-44 yrs	234	3	6.1	0	0
45-54 yrs	206	6	12.2	1	50
55-64 yrs	130	4	8.2	1	50
65-74 yrs	53	6	12.2	0	0
75-84 yrs	49	9	18.4	0	0
85+ yrs	17	6	12.2	0	0
Unknown	3			0	0
Total	**1,536**	**49**	**100**	**2**	**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

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 03/09/2020. 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.

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.