Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 07/09/2020

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 24/08/2020 up to midnight 06/09/2020

	Number	Percent
Total number of confirmed cases	1,672	
National incidence of confirmed cases per 100,000 population	35.11	
Number of cases hospitalised*	55	3.29
Number of cases admitted to ICU*	1	0.06
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	683	40.85
Number of imported cases	32	1.91
Number of cases in healthcare workers	192	11.48
Males	837	50.06
Females	831	49.7
M:F ratio	1.01	
Median age (years)	33	
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 24/08/2020 - 06/09/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 13:18 on 07/09/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.
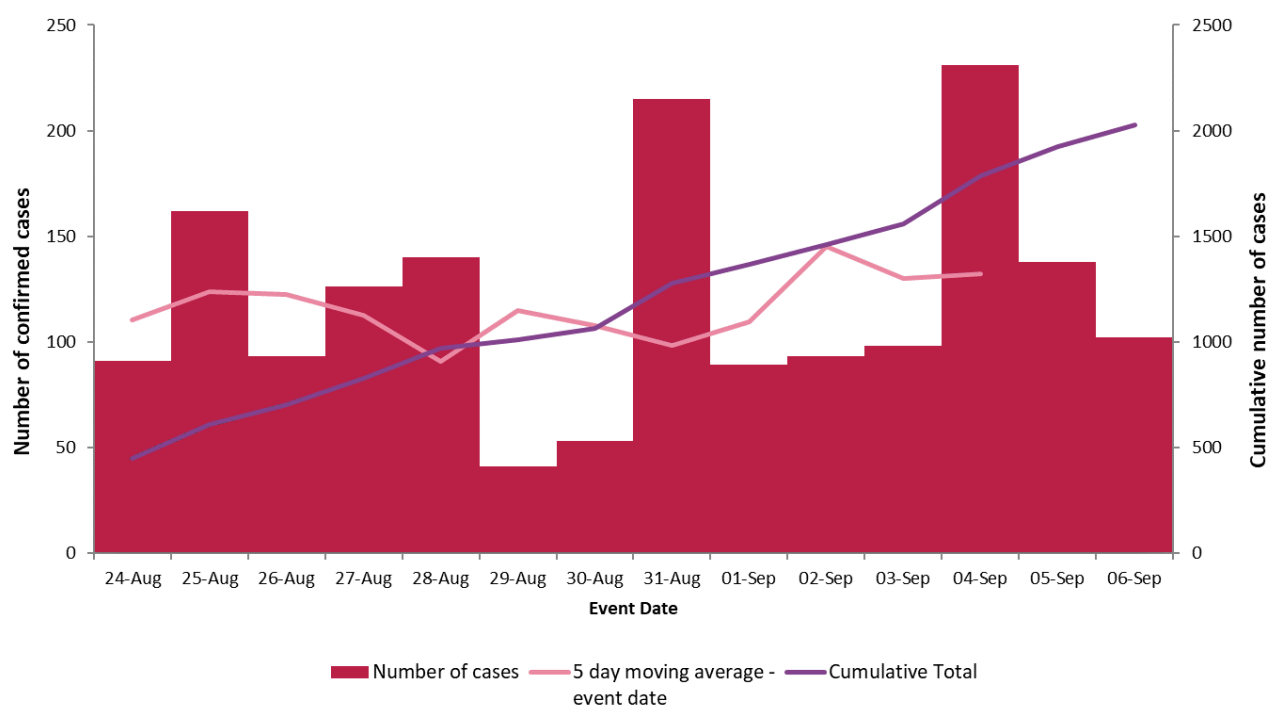
Figure 1. Daily number and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date (n=1,672)

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 24/08/2020 up to midnight on 06/09/202

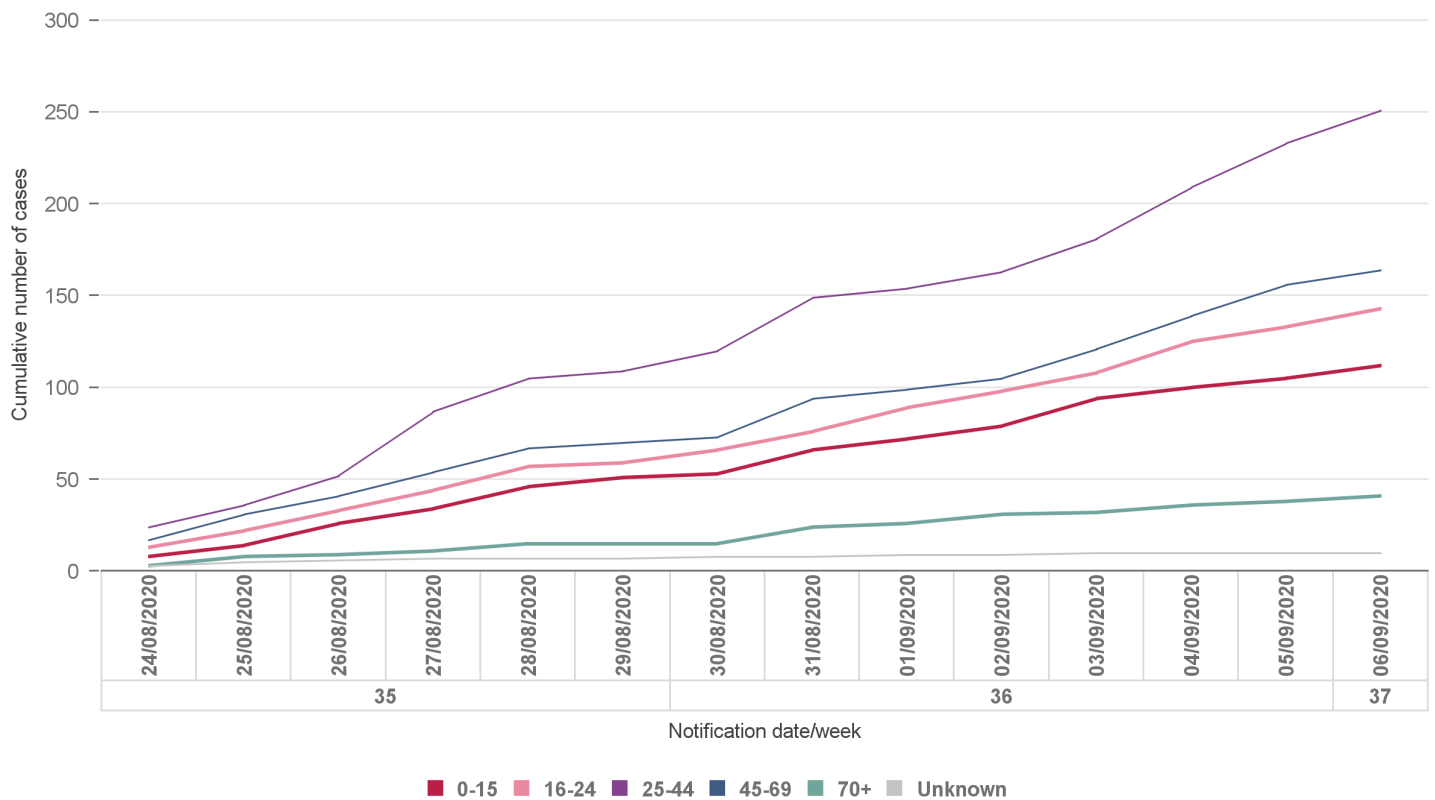| Characteristic		Number of cases	Percent
Total number of confirmed cases		**1,672**	**100**
Sex	Male:Female ratio	1.01	
	Male	837	50.06
	Female	831	49.7
	Unknown	4	0.24
Age	Median age (years)	33	
	Mean age (years)	36	
	Age range (years)	0 - 98	
	0-4 yrs	59	3.53
	5-14 yrs	142	8.49
	15-24 yrs	374	22.37
	25-34 yrs	318	19.02
	35-44 yrs	271	16.21
	45-54 yrs	224	13.4
	55-64 yrs	132	7.89
	65-74 yrs	67	4.01
	75-84 yrs	53	3.17
	85+ yrs	29	1.73
	Unknown	3	0.18
Underlying clinical conditions	Yes	445	26.61
	No	1,039	62.14
	Unknown	188	11.24

Figure 2: Cumulative number of confirmed COVID-19 cases notified in Ireland by date/week of notification and age group from 24/08/2020 to midnight 06/09/2020

Table 2: Characteristics of confirmed COVID-19 cases by community healthcare organisation (CHO)* notified from 24/08/2020 to midnight 06/09/2020

CHO Area	Cases		M:F ratio	Mean age (years)	Healthcare workers		Associated with clusters	
	N	%			N	%	N	%
CHO1	92	5.5	1.2	32	6	6.5	68	73.9
CHO2	48	2.9	1.5	29	4	8.3	30	62.5
CHO3	157	9.4	0.9	33	8	5.1	56	35.7
CHO4	64	3.8	1.2	31	4	6.3	42	65.6
CHO5	203	12.1	1.1	38	9	4.4	99	48.8
CHO6	162	9.7	1.0	39	27	16.7	40	24.7
CHO7	447	26.7	1.0	36	55	12.3	164	36.7
CHO8	157	9.4	1.0	37	37	23.6	81	51.6
CHO9	342	20.5	0.9	34	42	12.3	103	30.1
National	**1,672**	**100**	**1.0**	**36**	**192**	**11.5**	**683**	**40.8**

Table 3: Number of confirmed COVID-19 cases by CHO notified in Ireland from 24/08/2020 to midnight 06/09/2020

CHO Area	Number of confirmed cases	Incidence per 100,000 population
CHO1	92	23.5
CHO2	48	10.6
CHO3	157	40.8
CHO4	64	9.3
CHO5	203	39.8
CHO6	162	42.3
CHO7	447	63.2
CHO8	157	25.4
CHO9	342	55.0
Ireland	**1,672**	**35.1**

* **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 24/08/2020 to midnight 06/09/2020

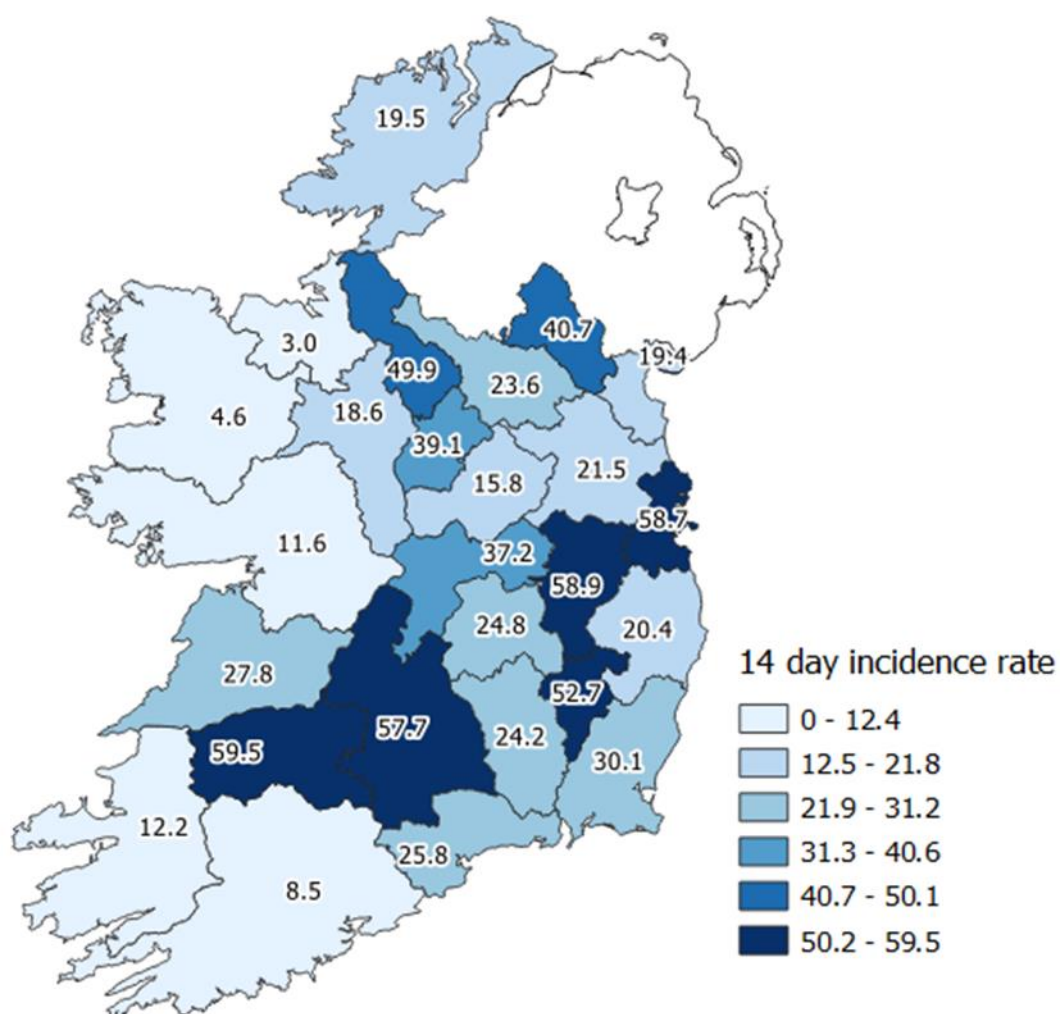| County	Number of confirmed cases	Incidence per 100,000 population
Carlow	30	52.7
Cavan	18	23.6
Clare	33	27.8
Cork	46	8.5
Donegal	31	19.5
Dublin	791	58.7
Galway	30	11.6
Kerry	18	12.2
Kildare	131	58.9
Kilkenny	24	24.2
Laois	21	24.8
Leitrim	16	49.9
Limerick	116	59.5
Longford	16	39.1
Louth	25	19.4
Mayo	6	4.6
Meath	42	21.5
Monaghan	25	40.7
Offaly	29	37.2
Roscommon	12	18.6
Sligo	<5	3.1
Tipperary	92	57.7
Waterford	30	25.8
Westmeath	14	15.8
Wexford	45	30.1
Wicklow	29	20.4
Ireland	**1,672**	**35.1**

Figure 3: Cumulative incidence rates of confirmed cases of COVID-19 per 100,000 population, by county, notified in Ireland between 24/08/2020 and midnight 06/09/2020

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 24/08/2020 and 06/09/2020

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	50	36.7
CCA2	Dublin South East	86	69.5
CCA3	Dublin South City	103	68.7
CCA4	Dublin South West	105	65.3
CCA5	Dublin West	105	67.6
CCA6	Dublin North West	128	61.6
CCA7	Dublin North Central	79	51.1
CCA8	Dublin North	135	52.1
	Dublin	**791**	**58.7**

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 24/08/2020 to midnight 06/09/2020

Most likely transmission source	Number of cases	Percent
Travel related	111	6.64%
Close contact with a known confirmed case	875	52.33%
Healthcare setting acquired: patient	49	2.93%
Healthcare setting acquired: staff	67	4.01%
Community transmission	392	23.44%
Under investigation	178	10.65%
Total	**1,672**	**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
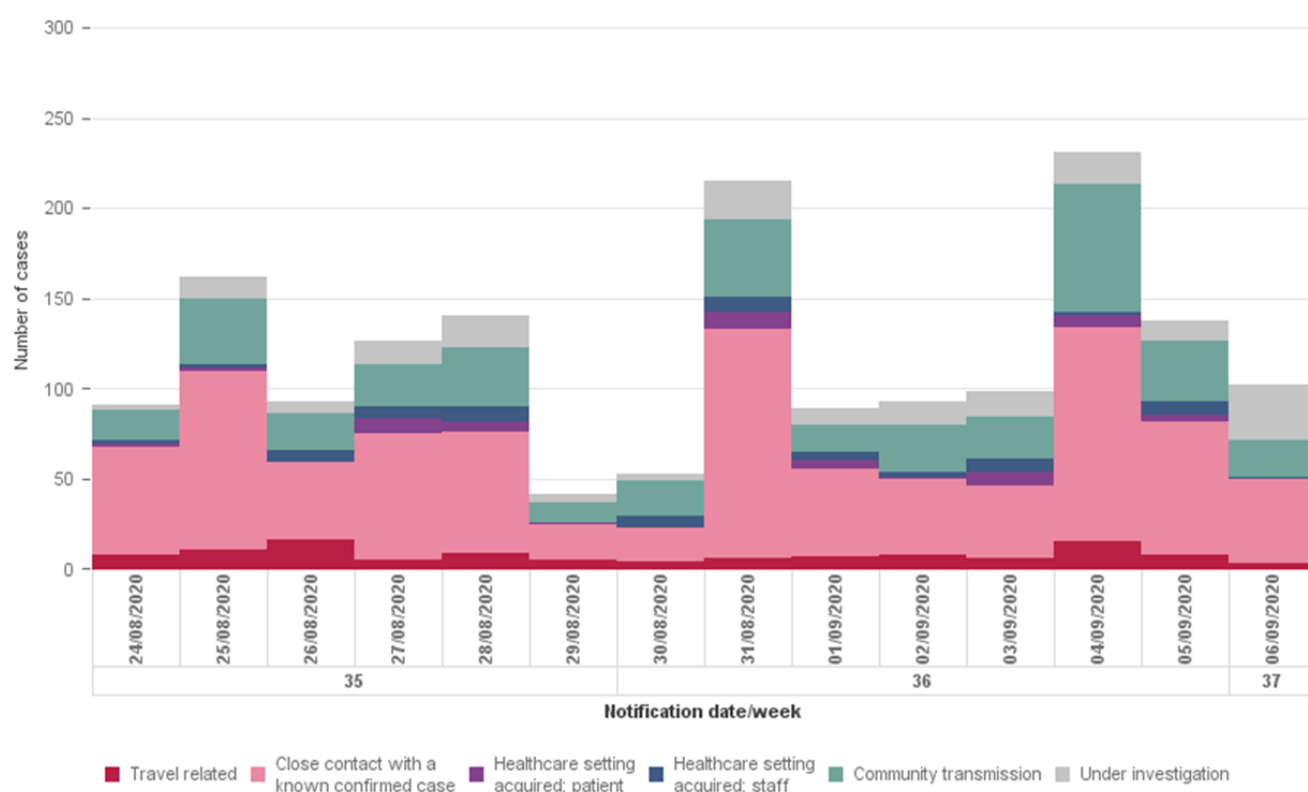

Figure 4: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and most likely transmission source from 24/08/2020 to midnight 06/09/2020
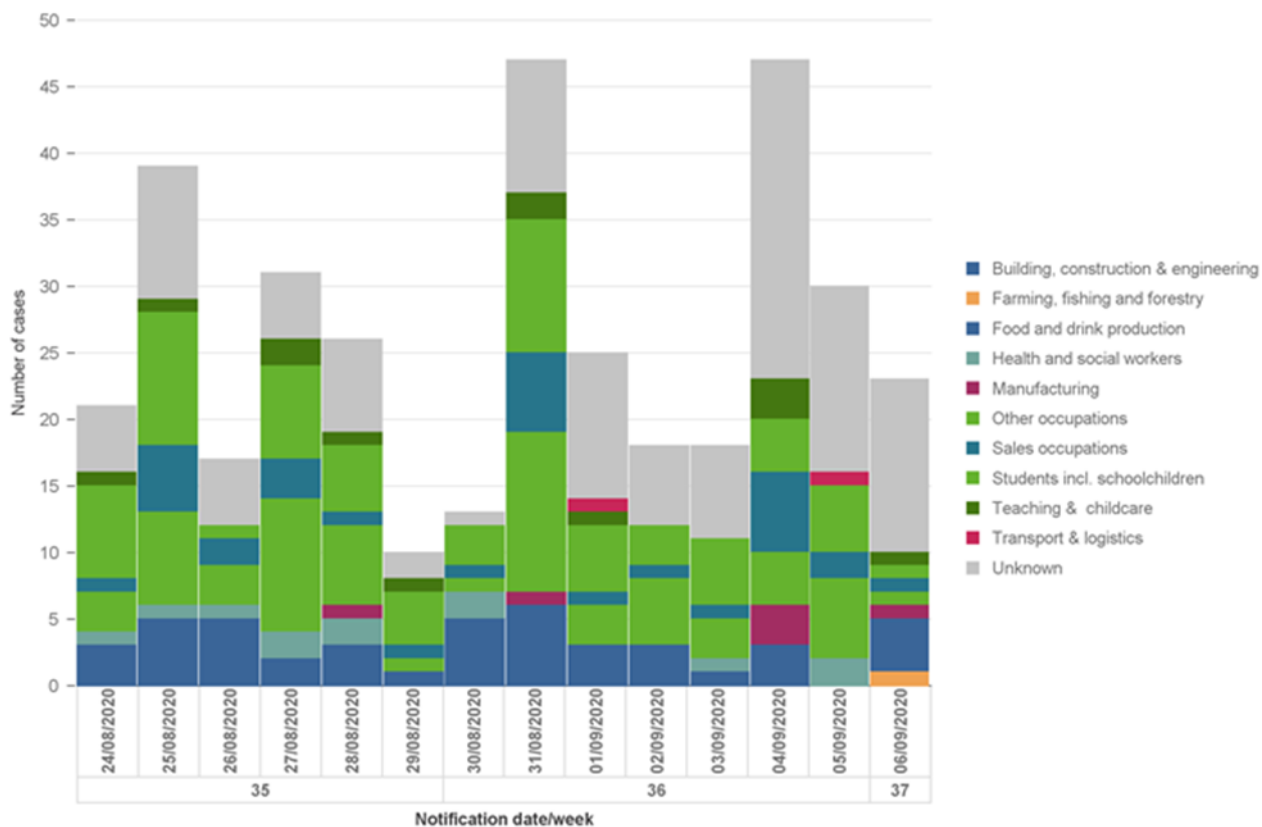
Figure 5: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and occupation* from 24/08/2020 to midnight 06/09/2020

 *Among cases aged 16-69 years

Table 7: Cumulative number of confirmed cases of COVID-19 notified in Ireland from 24/08/2020 to midnight 06/09/2020 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	59	2	3.6	1	100
5-14 yrs	142	1	1.8	0	0
15-24 yrs	374	9	16.4	0	0
25-34 yrs	318	4	7.3	0	0
35-44 yrs	271	1	1.8	0	0
45-54 yrs	224	6	10.9	0	0
55-64 yrs	132	5	9.1	0	0
65-74 yrs	67	8	14.5	0	0
75-84 yrs	53	11	20.0	0	0
85+ yrs	29	8	14.5	0	0
Unknown	3			0	0
Total	**1,672**	**55**	**100**	**1**	**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

Report prepared by COVID-19 Epidemiology Team, HPSC

1. Data Source

Data are based on statutory notifications and were extracted from Computerised Infectious Disease Reporting (CIDR) system at 13:12 on 06/09/2020. 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.