



Epidemiology of COVID-19 in Ireland

Report prepared by HPSC on 11/06/2020 for National Public Health Emergency Team

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

	Number	Percent
Total number of confirmed cases	25,230	
National cumulative incidence of confirmed cases per 100,000 population	529.83	
Total number of cases hospitalised	3,307	13.11
Total number of cases admitted to ICU	412	1.63
Total number of deaths among confirmed cases	1,440	5.71
Case fatality ratio (CFR, %)	5.71	
National cumulative incidence of confirmed deaths per 100,000 population	30.24	
Total number of outbreaks/clusters	901	
Total number of cases associated with clusters	10,395	41.2
Total number of imported cases	365	1.45
Number of cases in healthcare workers	8,114	32.16
Males	10,777	42.72
Females	14,421	57.16
M:F ratio	0.75	
Median age (years)	48	
Mean age (years)	51	
Age range (years)	0 - 106	

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 09:15 on 11/06/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.

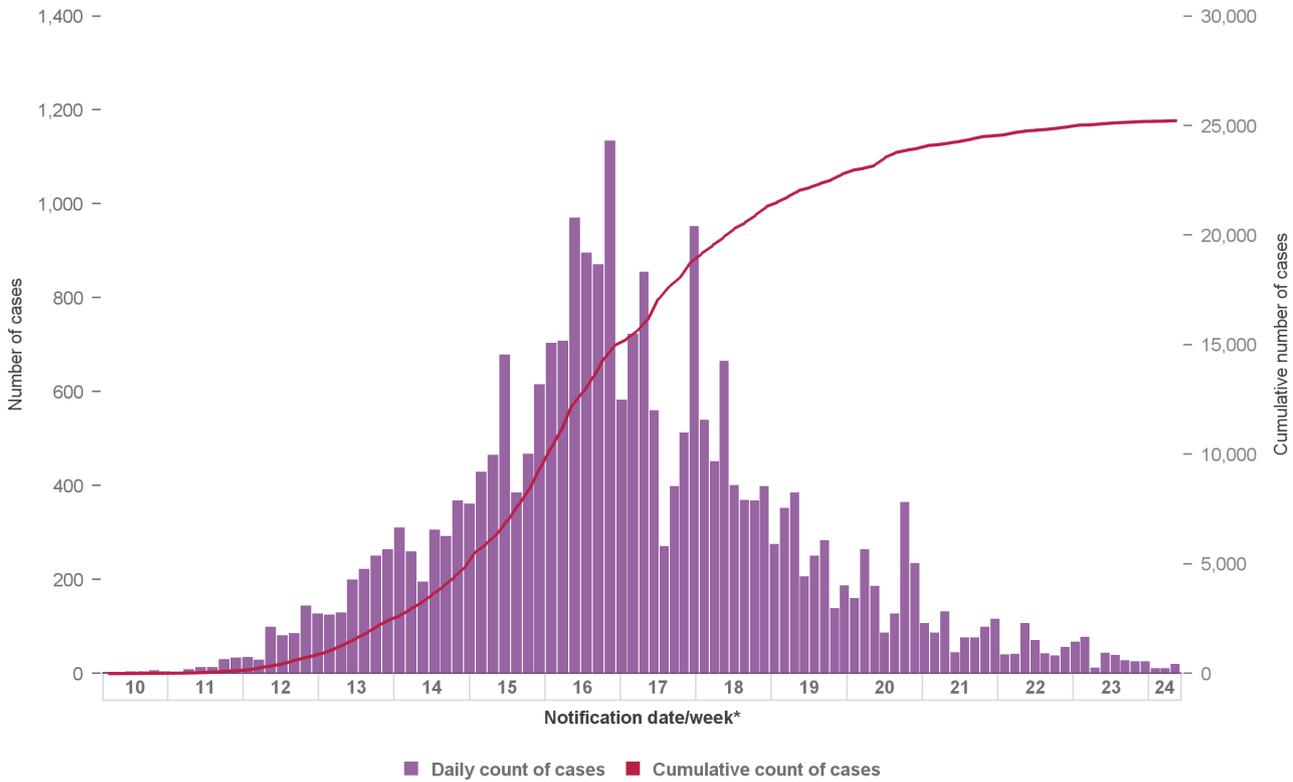


Figure 1a: Number* and cumulative number of confirmed COVID-19 cases notified in Ireland by notification date* to midnight 09/06/2020

*Between 05/04/2020 – 19/04/2020, the daily number of COVID-19 events notified in Ireland is inflated due to batch reporting of cases with specimen dates between from 19/03/2020 – 01/04/2020 in addition to real-time reporting of cases with contemporaneous specimen dates

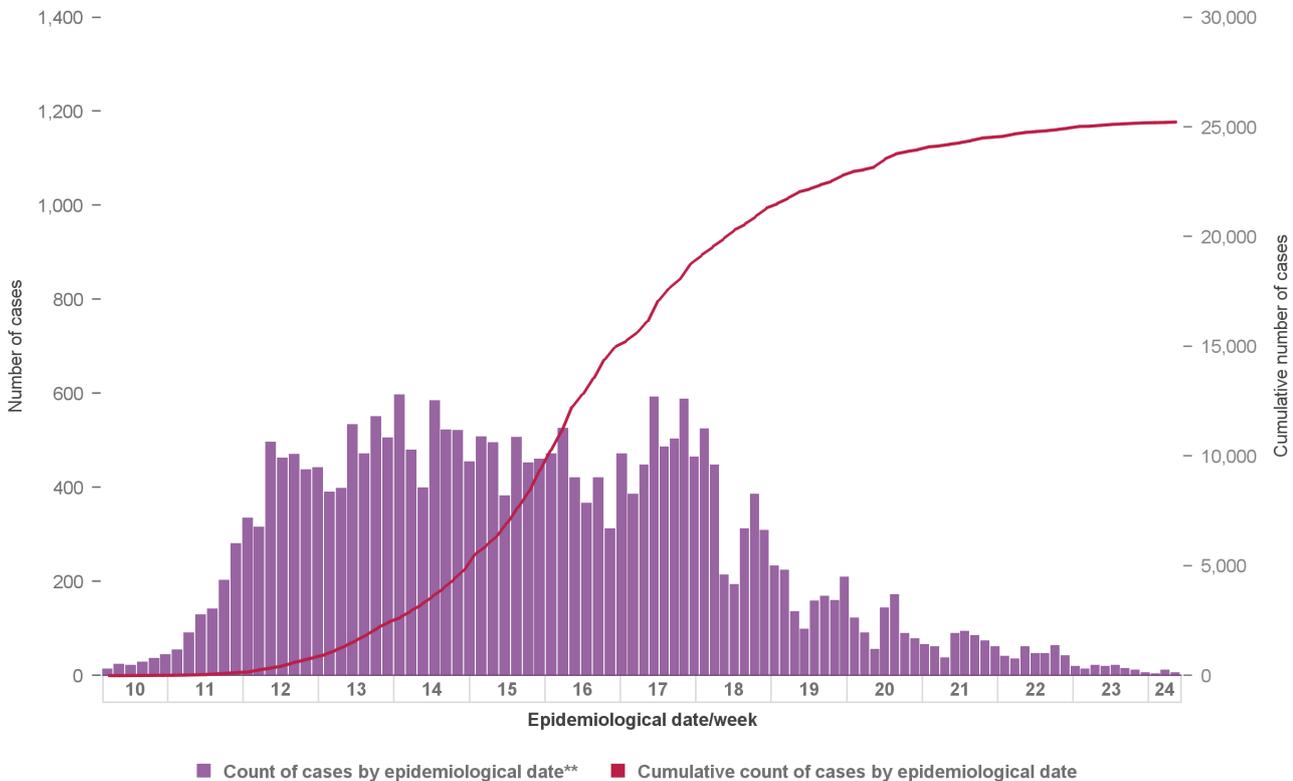


Figure 1b: Number and cumulative number of confirmed COVID-19 cases notified in Ireland by epidemiological date to midnight 09/06/2020**

**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.

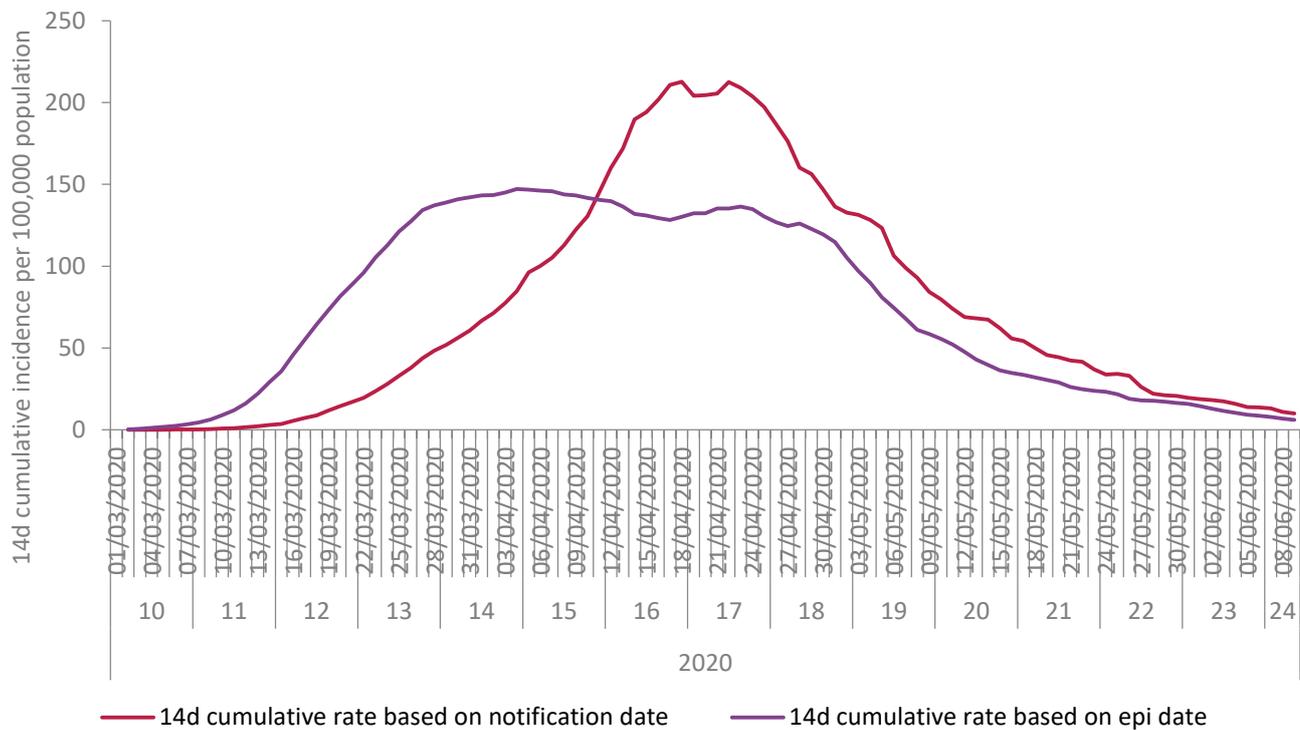


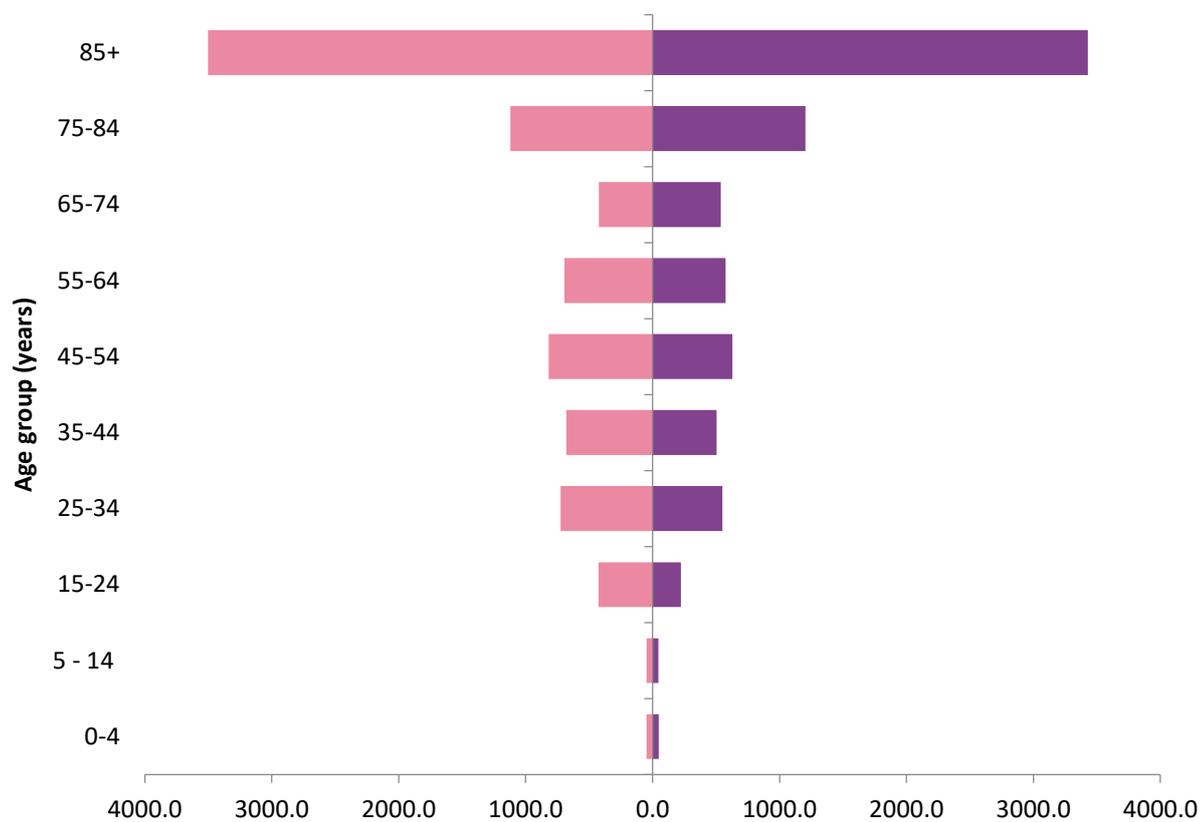
Figure 2: Cumulative 14 day incidence rate of confirmed COVID-19 cases per 100,000 population notified in Ireland by notification* and epidemiological date to midnight 09/06/2020**

* Between 05/04/2020 – 19/04/2020, the daily number of COVID-19 events notified in Ireland is inflated due to batch reporting of cases with specimen dates between from 19/03/2020 – 01/04/2020 in addition to real-time reporting of cases with contemporaneous specimen dates

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

Characteristic		Number of cases	Percent
Total number of confirmed cases		25,230	100
Sex	Male:Female ratio	0.75	
	Male	10,777	42.72
	Female	14,421	57.16
	Unknown	32	0.13
Age	Median age (years)	48	
	Mean age (years)	51	
	Age range (years)	0 - 106	
	0-4 yrs	162	0.64
	5-14 yrs	320	1.27
	15-24 yrs	1,866	7.4
	25-34 yrs	4,226	16.75
	35-44 yrs	4,441	17.6
	45-54 yrs	4,538	17.99
	55-64 yrs	3,232	12.81
	65-74 yrs	1,794	7.11
	75-84 yrs	2,278	9.03
	85+ yrs	2,350	9.31
	Unknown	23	0.09



	0-4	5 - 14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
Female	48.2	48.2	426.5	724.0	679.0	818.1	694.6	424.2	1121.4	3501.7
Male	48.9	46.7	223.3	549.3	505.3	627.6	574.5	537.8	1204.8	3429.9

Cumulative age- and sex-specific rate per 100,000 population

Female Male

Figure 3: Cumulative age- and sex-specific incidence rates of confirmed cases of COVID-19 per 100,000 population notified in Ireland to midnight 09/06/2020 (excluding 23 cases for whom age is unknown, 31 cases for whom sex is unknown and one case for whom both age and sex are unknown)

Table 2: Number of confirmed COVID-19 cases by county notified to midnight 09/06/2020

County Name	Number of cases	Percent
Carlow	168	0.67
Cavan	858	3.4
Clare	369	1.46
Cork	1,532	6.07
Donegal	470	1.86
Dublin	12,167	48.22
Galway	485	1.92
Kerry	308	1.22
Kildare	1,426	5.65
Kilkenny	346	1.37
Laois	262	1.04
Leitrim	84	0.33
Limerick	583	2.31
Longford	285	1.13
Louth	778	3.08
Mayo	570	2.26
Meath	804	3.19
Monaghan	534	2.12
Offaly	481	1.91
Roscommon	340	1.35
Sligo	128	0.51
Tipperary	541	2.14
Waterford	154	0.61
Westmeath	671	2.66
Wexford	216	0.86
Wicklow	670	2.66
Total	25,230	100

Table 3: Number of confirmed COVID-19 cases by WHO transmission classification notified to midnight 09/06/2020

Transmission classification*	Count of Events	%
Community transmission, incl. possible community transmission	9,514	37.71%
Local transmission, incl. possible local transmission	15,112	59.90%
Travel abroad, incl. possible travel abroad	579	2.29%
Unknown	25	0.10%
Total	25,230	100.00%

*See technical note 3 for definition of WHO transmission classification

Cases which were notified more than 2 weeks ago and have not yet been reported as imported or linked to an outbreak are classified as possible community transmission.

Table 4: Cumulative number of confirmed cases of COVID-19 notified in Ireland by age group and hospital, ICU and vital status as of midnight 09/06/2020

Age Group (years)	Number of cases (n)	Cases hospitalised (n)	Cases hospitalised (%)	Cases admitted to ICU (n)	Cases admitted to ICU (%)
0-4 yrs	162	20	0.6	0	0
5-14 yrs	320	17	0.51	2	0.49
15-24 yrs	1866	69	2.09	5	1.21
25-34 yrs	4226	198	5.99	15	3.64
35-44 yrs	4441	261	7.89	34	8.25
45-54 yrs	4538	444	13.43	84	20.39
55-64 yrs	3232	490	14.82	120	29.13
65-74 yrs	1794	576	17.42	105	25.49
75-84 yrs	2278	748	22.62	41	9.95
85+ yrs	2350	482	14.58	6	1.46
Unknown	23	2	0.06	0	0
Total	25,230	3,307	100	412	100

Table 5: Number and proportion of confirmed cases of COVID-19 notified in Ireland by age-group, hospitalisation and ICU admission 09/06/2020

	0-4 yrs	5-14 yrs	15-24 yrs	25-34 yrs	35-44 yrs	45-54 yrs	55-64 yrs	65-74 yrs	75-84 yrs	85+ yrs	Unknown
Number of cases (n)	162	320	1,866	4,226	4,441	4,538	3,232	1,794	2,278	2,350	23
Cases hospitalised (n)	20	17	69	198	261	444	490	576	748	482	2
Cases hospitalised (%)	12.35	5.31	3.7	4.69	5.88	9.78	15.16	32.11	32.84	20.51	8.7
Cases admitted to ICU (n)	0	2	5	15	34	84	120	105	41	6	0
Cases admitted to ICU (%)	0	0.63	0.27	0.35	0.77	1.85	3.71	5.85	1.8	0.26	0
Deaths (n)	0	0	2	5	10	23	63	211	490	636	0
Case fatality ratio (%)	0	0	0.11	0.12	0.23	0.51	1.95	11.76	21.51	27.06	0

Outbreaks of COVID-19

Table 6: Number of clusters/outbreaks COVID-19 by location and HSE area notified to midnight 09/06/2020

Outbreak Location	E	M	MW	NE	NW	S	SE	W	Total
Other*	19	14	54	45	9	80	32	34	287
Nursing home	124	10	13	38	5	9	16	36	251
Residential institution	114	9	7	17	4	20	10	5	186
Hospital	60	3	2	13	2	11	3	6	100
Workplace	8	5	5	14	1	8	3	4	48
Comm. Hosp/Long-stay unit	4	3	2		4	6	5	4	28
Unknown			1						1
Total	329	44	84	127	25	134	69	89	901

*Other outbreak location includes all outbreaks locations other than residential facilities, acute hospitals and workplaces. This includes community, extended family, hotel, private house, public house, retail outlet, travel related and all other locations.

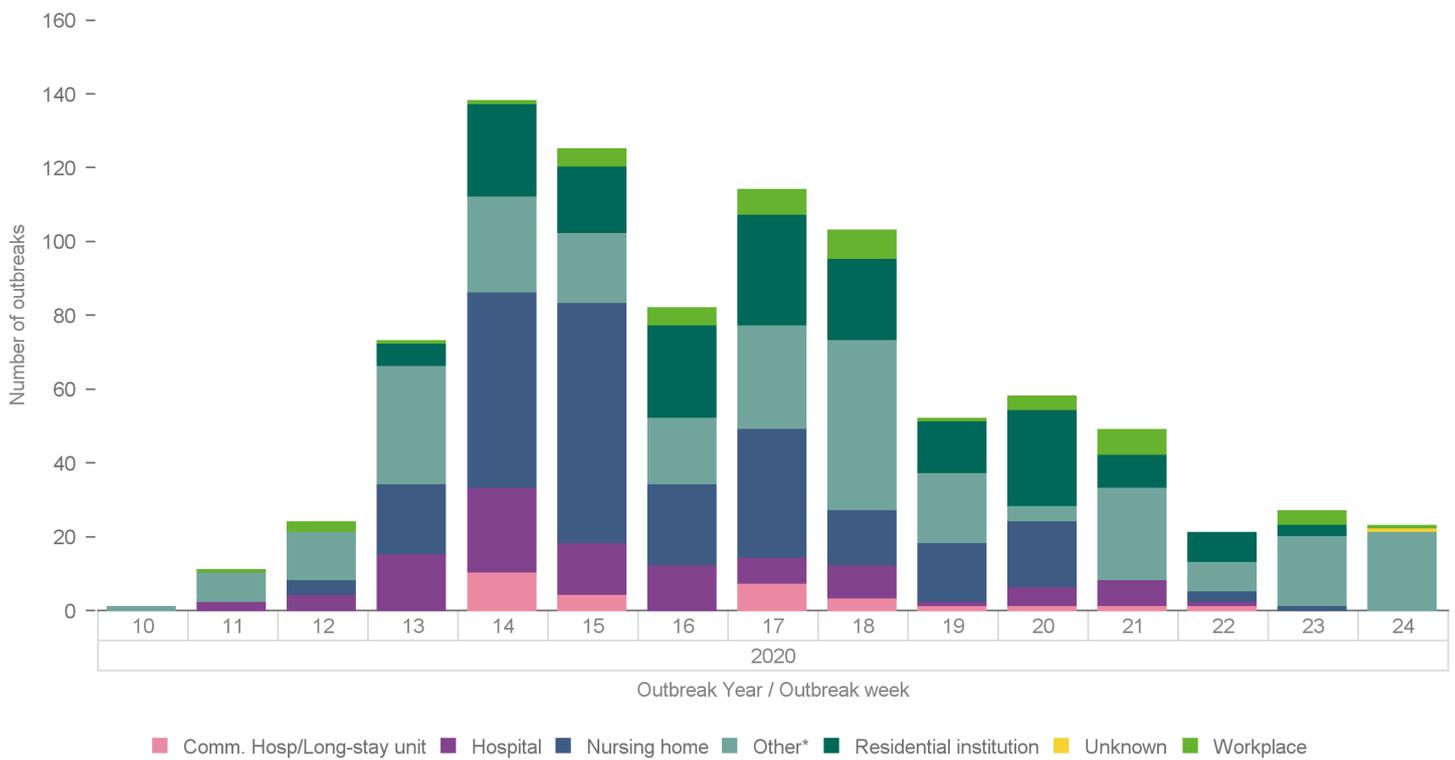


Figure 5: Trend in number of COVID-19 clusters by location and week notified to midnight 09/06/2020

*Other outbreak location includes all outbreaks locations other than residential facilities, acute hospitals and workplaces. This includes community, extended family, hotel, private house, public house, retail outlet, travel related and all other locations.

Deaths among COVID-19 cases

Table 7: Summary of deaths in all COVID-19 cases notified in Ireland up to midnight 09/06/2020

	Number	Percent
Total number of deaths	1,700	
Confirmed	1,440	84.71
Probable	95	5.59
Possible	165	9.71
Total number of cases hospitalised	721	42.41
Cases admitted to ICU	85	5.00
Cases not admitted to ICU	636	37.41
Total number of imported cases	6	0.35
Number of cases in healthcare workers	7	0.41
Number with underlying clinical conditions	1,555	91.47
Total number of male cases	839	49.35
M:F ratio	0.97	
Median age (years)	84	
Mean age (years)	82	
Age range (years)	17 - 105	

Table 8: Number of deaths in all COVID-19 cases by sex and age group notified in Ireland up to midnight 09/06/2020

Age group (years)	Female	Male	Total	Percent
15-24 yrs	<5	<5	2	0.12
25-34 yrs	<5	<5	5	0.29
35-44 yrs	5	6	11	0.65
45-54 yrs	10	15	25	1.47
55-64 yrs	24	44	68	4.00
65-74 yrs	85	150	235	13.82
75-84 yrs	262	313	575	33.82
85+ yrs	469	308	777	45.71
Unknown	<5	<5	2	0.12
Total	861	839	1,700	100
Percent	50.65	49.35		

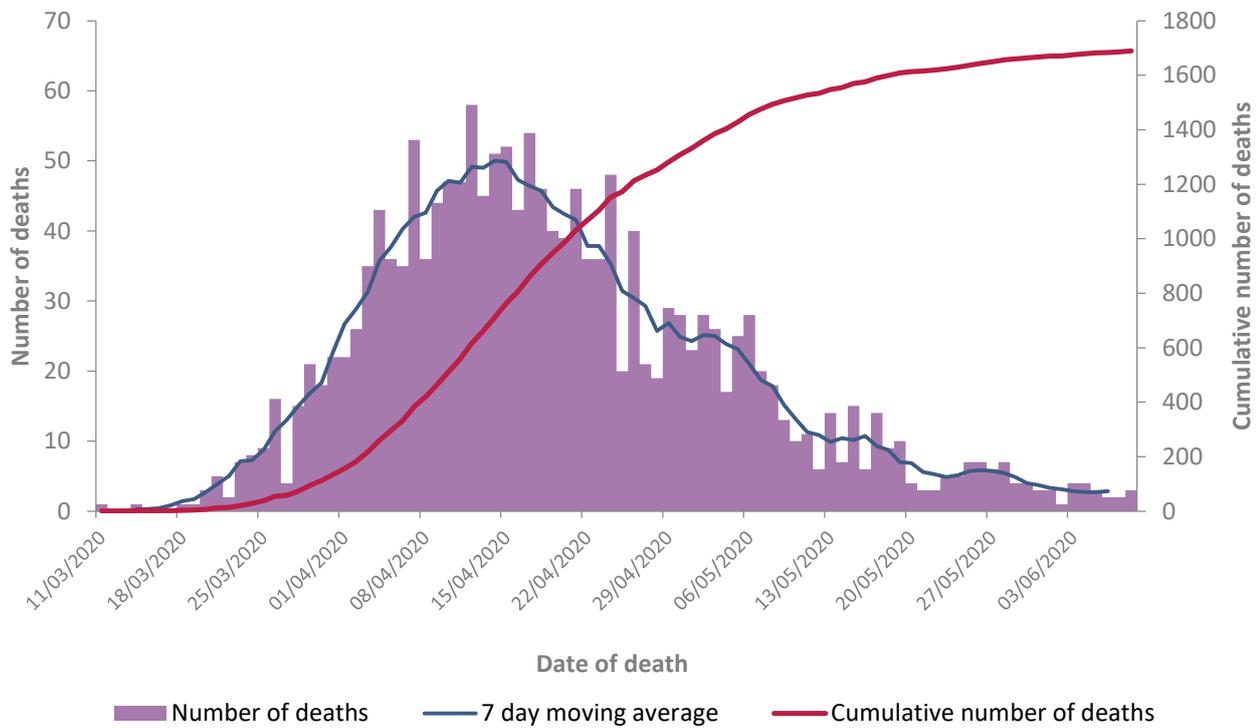


Figure 6: Daily and 7 day moving average number of deaths among COVID-19 cases notified in Ireland by date of death and cumulative total to midnight 09/06/2020

* Date of death is not yet available for seven cases

Please note: a lag in time between reporting of deaths and data extraction is expected and as such most recent dates will not yet reflect all deaths on that date

Acknowledgements

Sincere thanks are extended to all those who are participating in the collection of data and reporting of data used in this report. This includes 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 09:15 on 11/06/2020. 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.

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 all outbreaks locations other than residential facilities and acute hospitals. This includes community, extended family, hotel, private house, public house, retail outlet, travel related and all other locations.