



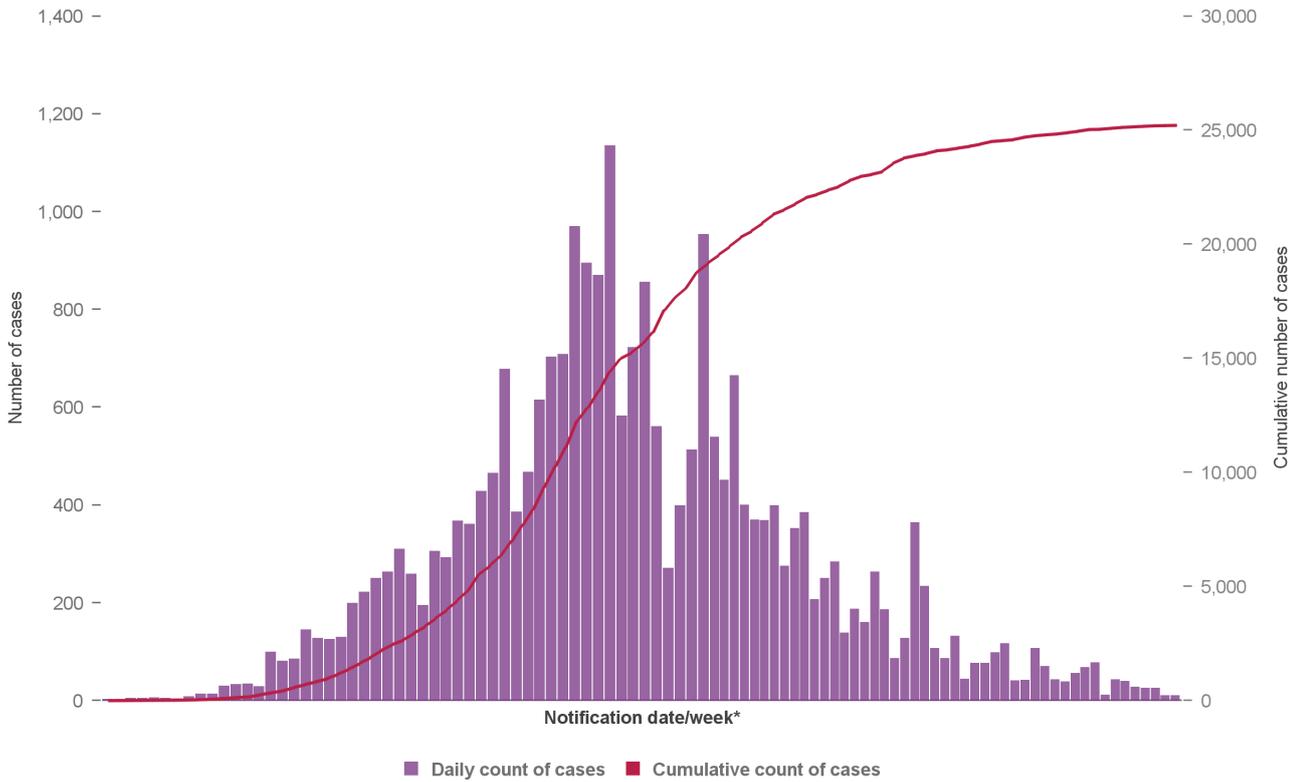
# Epidemiology of COVID-19 in Ireland

Report prepared by HPSC on 10/06/2020 for National Public Health Emergency Team

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

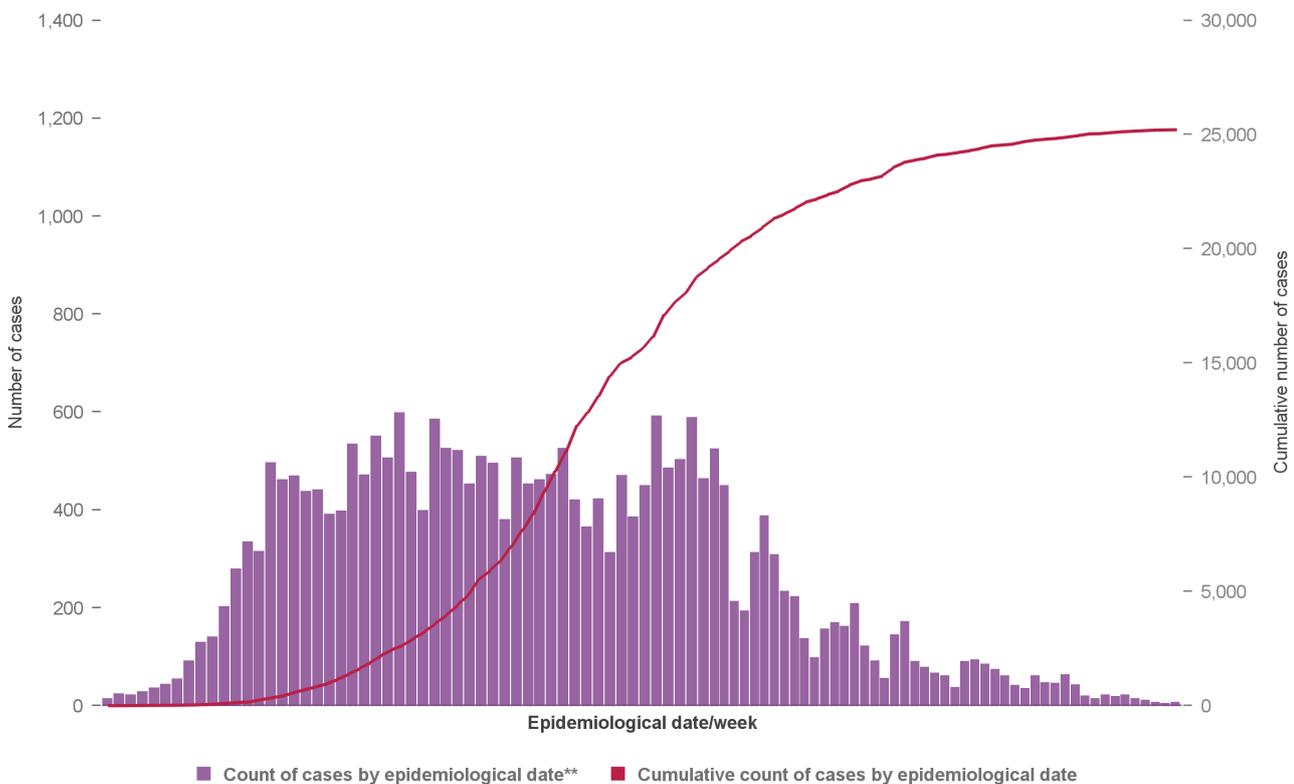
	Number	Percent
Total number of confirmed cases	25,212	
National cumulative incidence of confirmed cases per 100,000 population	529.46	
Total number of cases hospitalised	3,321	13.17
Total number of cases admitted to ICU	411	1.63
Total number of deaths among confirmed cases	1,433	5.68
Case fatality ratio (CFR, %)	5.68	
National cumulative incidence of confirmed deaths per 100,000 population	30.09	
Total number of outbreaks/clusters	887	
Total number of cases associated with clusters	10,281	40.78
Total number of imported cases	365	1.45
Number of cases in healthcare workers	8,099	32.12
Males	10,771	42.72
Females	14,409	57.15
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 09:21 on 10/06/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.



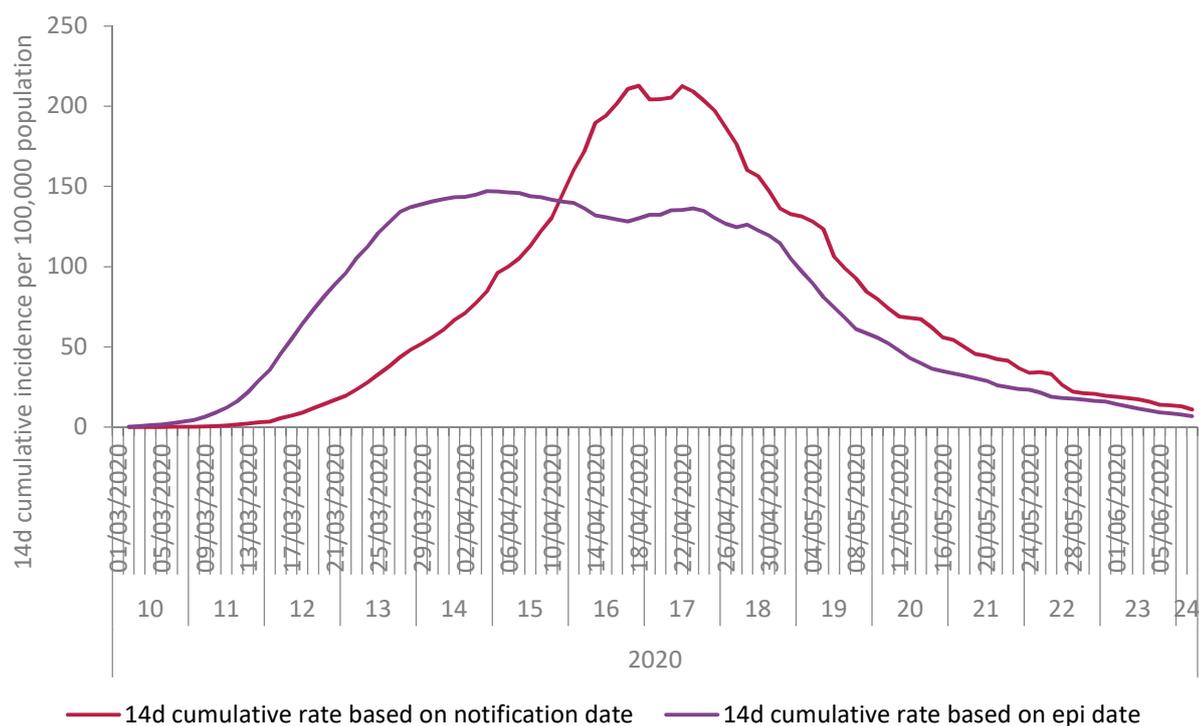
**Figure 1a: Number\* and cumulative number of confirmed COVID-19 cases notified in Ireland by notification date\* to midnight 08/06/2020**

\*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 08/06/2020**

\*\*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.



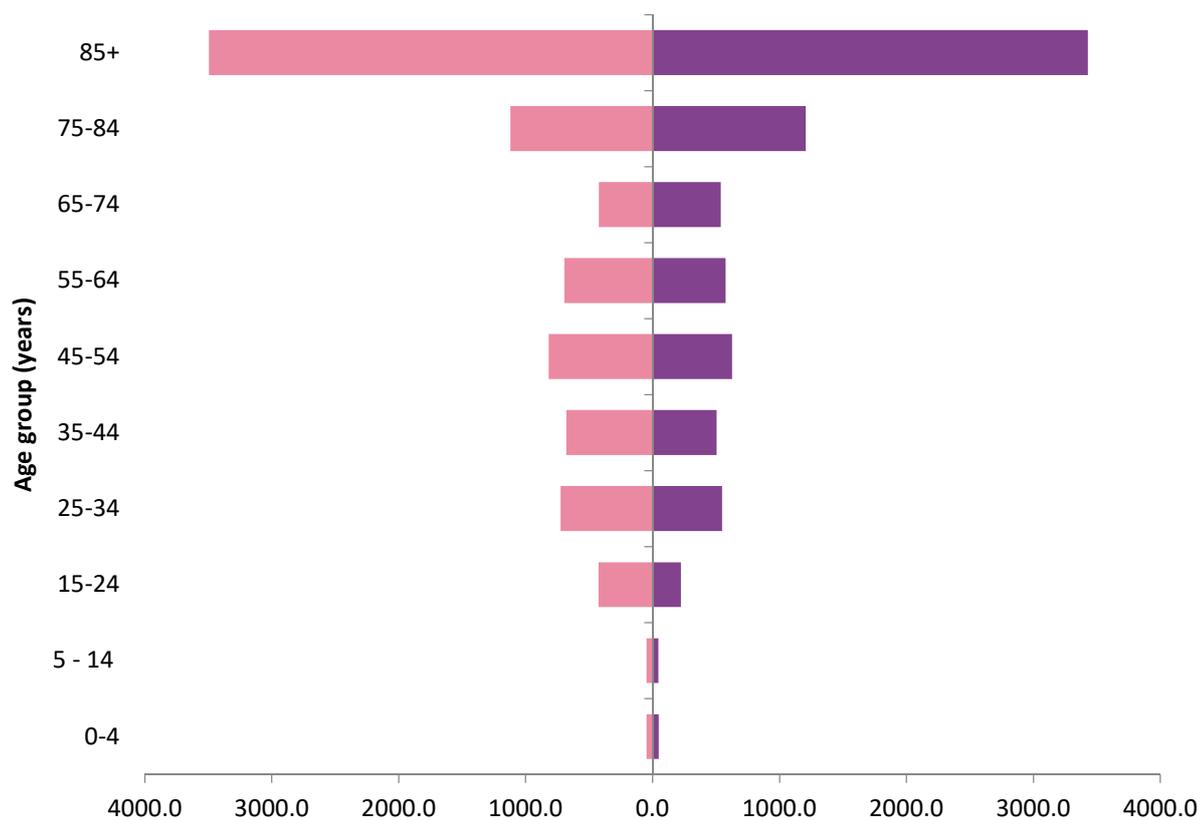
**Figure 2: Cumulative 14 day incidence rate of confirmed COVID-19 cases per 100,000 population notified in Ireland by notification\* and epidemiological date\*\* to midnight 08/06/2020**

\* 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

\*\*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.

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

Characteristic		Number of cases	Percent
<b>Total number of confirmed cases</b>		<b>25,212</b>	<b>100</b>
<b>Sex</b>	Male:Female ratio	0.75	
	Male	10,771	42.72
	Female	14,409	57.15
	Unknown	32	0.13
<b>Age</b>	Median age (years)	48	
	Mean age (years)	51	
	Age range (years)	0 - 106	
	0-4 yrs	161	0.64
	5-14 yrs	320	1.27
	15-24 yrs	1,861	7.38
	25-34 yrs	4,223	16.75
	35-44 yrs	4,438	17.6
	45-54 yrs	4,535	17.99
	55-64 yrs	3,232	12.82
	65-74 yrs	1,794	7.12
	75-84 yrs	2,278	9.04
	85+ yrs	2,347	9.31
	Unknown	23	0.09

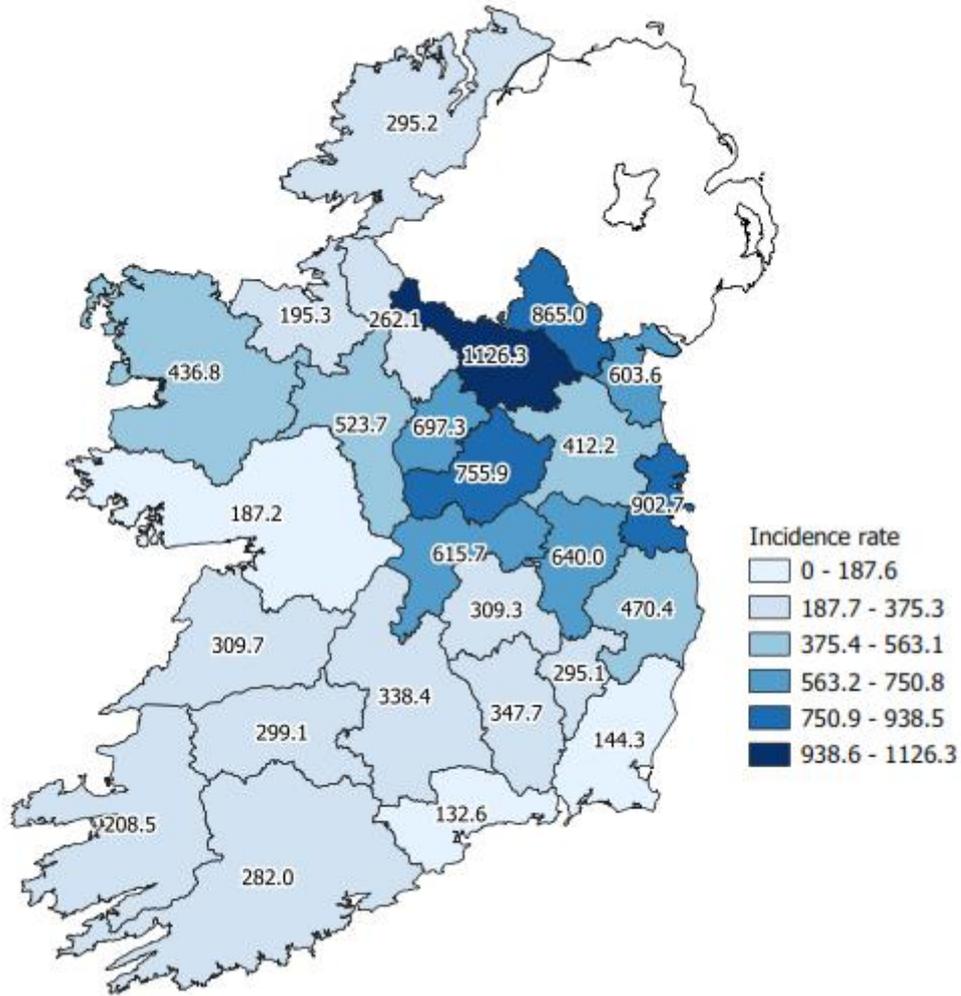


**Cumulative age- and sex-specific rate per 100,000 population**

	0-4	5 - 14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
Female	48.2	48.2	425.4	723.7	678.5	817.4	694.6	424.2	1120.4	3494.9
Male	48.3	46.7	222.6	548.7	505.0	627.3	574.5	537.8	1205.9	3429.9

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 08/06/2020 (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)**



**Figure 4: Cumulative incidence rates of confirmed cases of COVID-19 per 100,000 population notified in Ireland to midnight 08/06/2020**

*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 2: Number of confirmed COVID-19 cases by county notified to midnight 08/06/2020**

County Name	Number of cases	Percent
Carlow	168	0.67
Cavan	858	3.4
Clare	368	1.46
Cork	1,531	6.07
Donegal	470	1.86
Dublin	12,163	48.24
Galway	483	1.92
Kerry	308	1.22
Kildare	1,424	5.65
Kilkenny	345	1.37
Laois	262	1.04
Leitrim	84	0.33
Limerick	583	2.31
Longford	285	1.13
Louth	778	3.09
Mayo	570	2.26
Meath	804	3.19
Monaghan	531	2.11
Offaly	480	1.9
Roscommon	338	1.34
Sligo	128	0.51
Tipperary	540	2.14
Waterford	154	0.61
Westmeath	671	2.66
Wexford	216	0.86
Wicklow	670	2.66
<b>Total</b>	<b>25,212</b>	<b>100</b>

**Table 3: Number of confirmed COVID-19 cases by WHO transmission classification notified to midnight 08/06/2020**

Transmission classification*	Count of Events	%
Community transmission, incl. possible community transmission	9,612	38.12%
Local transmission, incl. possible local transmission	15,000	59.50%
Travel abroad, incl. possible travel abroad	579	2.30%
Unknown	21	0.08%
<b>Total</b>	<b>25,212</b>	<b>100.00%</b>

\*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 08/06/2020**

Age Group (years)	Number of cases (n)	Cases hospitalised (n)	Cases hospitalised (%)	Cases admitted to ICU (n)	Cases admitted to ICU (%)
0-4 yrs	161	20	0.6	0	0
5-14 yrs	320	17	0.51	2	0.49
15-24 yrs	1861	71	2.14	5	1.22
25-34 yrs	4223	198	5.96	15	3.65
35-44 yrs	4438	260	7.83	34	8.27
45-54 yrs	4535	445	13.4	84	20.44
55-64 yrs	3232	489	14.72	120	29.2
65-74 yrs	1794	579	17.43	104	25.3
75-84 yrs	2278	754	22.7	41	9.98
85+ yrs	2347	486	14.63	6	1.46
Unknown	23	2	0.06	0	0
<b>Total</b>	<b>25,212</b>	<b>3,321</b>	<b>100</b>	<b>411</b>	<b>100</b>

**Table 5: Number and proportion of confirmed cases of COVID-19 notified in Ireland by age-group, hospitalisation and ICU admission 08/06/2020**

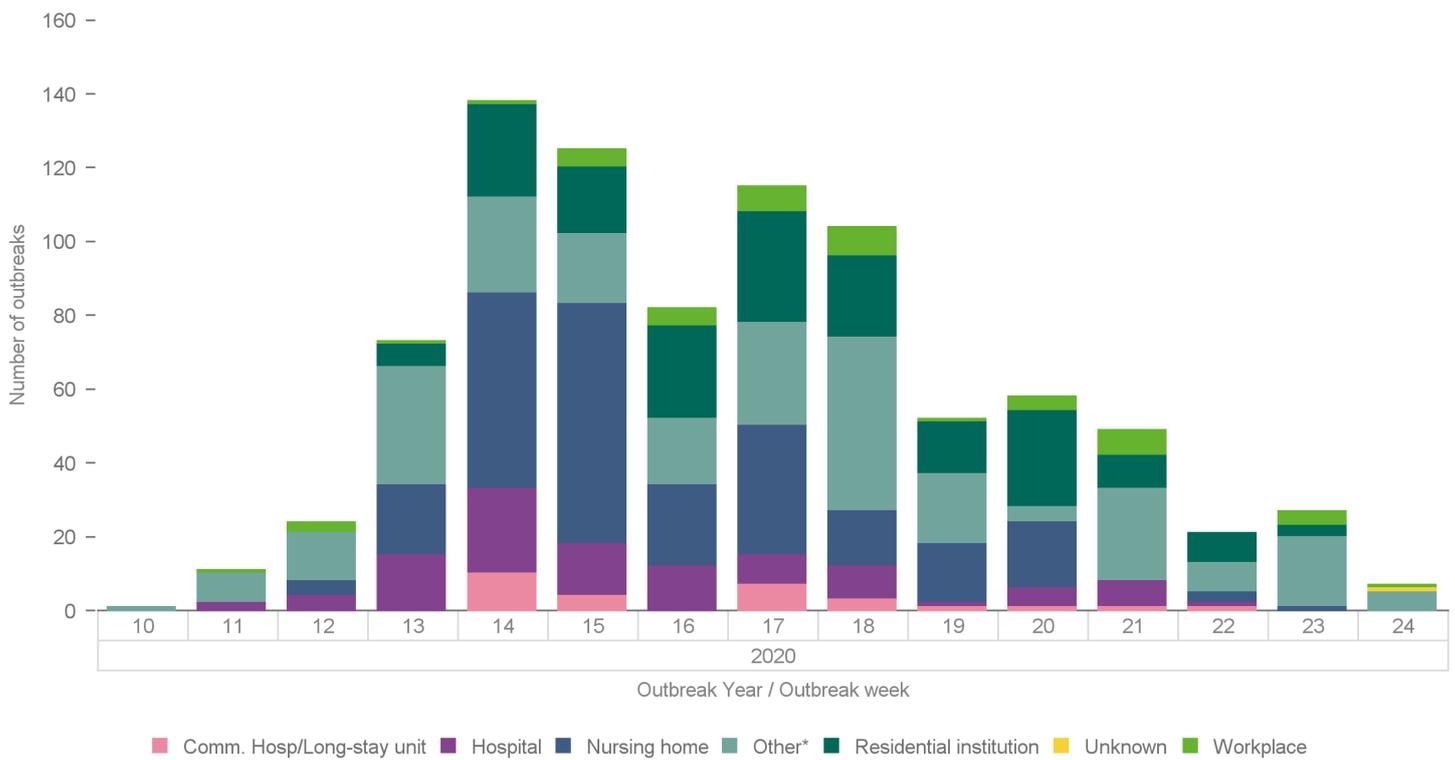
	0-4 yrs	5-14 yrs	15-24 yrs	25-34 yrs	35-44 yrs	45-54 yrs	55-64 yrs	65-74 yrs	75-84 yrs	85+ yrs	Unknown
Number of cases (n)	161	320	1,861	4,223	4,438	4,535	3,232	1,794	2,278	2,347	23
Cases hospitalised (n)	20	17	71	198	260	445	489	579	754	486	2
Cases hospitalised (%)	12.42	5.31	3.82	4.69	5.86	9.81	15.13	32.27	33.1	20.71	8.7
Cases admitted to ICU (n)	0	2	5	15	34	84	120	104	41	6	0
Cases admitted to ICU (%)	0	0.63	0.27	0.36	0.77	1.85	3.71	5.8	1.8	0.26	0
Deaths (n)	0	0	2	5	10	23	62	210	489	632	0
Case fatality ratio (%)	0	0	0.11	0.12	0.23	0.51	1.92	11.71	21.47	26.93	0

## Outbreaks of COVID-19

**Table 6: Number of clusters/outbreaks COVID-19 by location and HSE area notified to midnight 08/06/2020**

Outbreak Location	E	M	MW	NE	NW	S	SE	W	Total
Other*	19	14	52	33	9	81	31	33	<b>272</b>
Nursing home	124	10	13	38	5	9	16	36	<b>251</b>
Residential institution	114	9	7	17	4	20	10	5	<b>186</b>
Hospital	60	3	2	13	2	12	3	6	<b>101</b>
Workplace	8	5	5	14	1	8	3	4	<b>48</b>
Comm. Hosp/Long-stay unit	4	3	2		4	6	5	4	<b>28</b>
Unknown			1						<b>1</b>
<b>Total</b>	<b>329</b>	<b>44</b>	<b>82</b>	<b>115</b>	<b>25</b>	<b>136</b>	<b>68</b>	<b>88</b>	<b>887</b>

\*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 08/06/2020**

\*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.

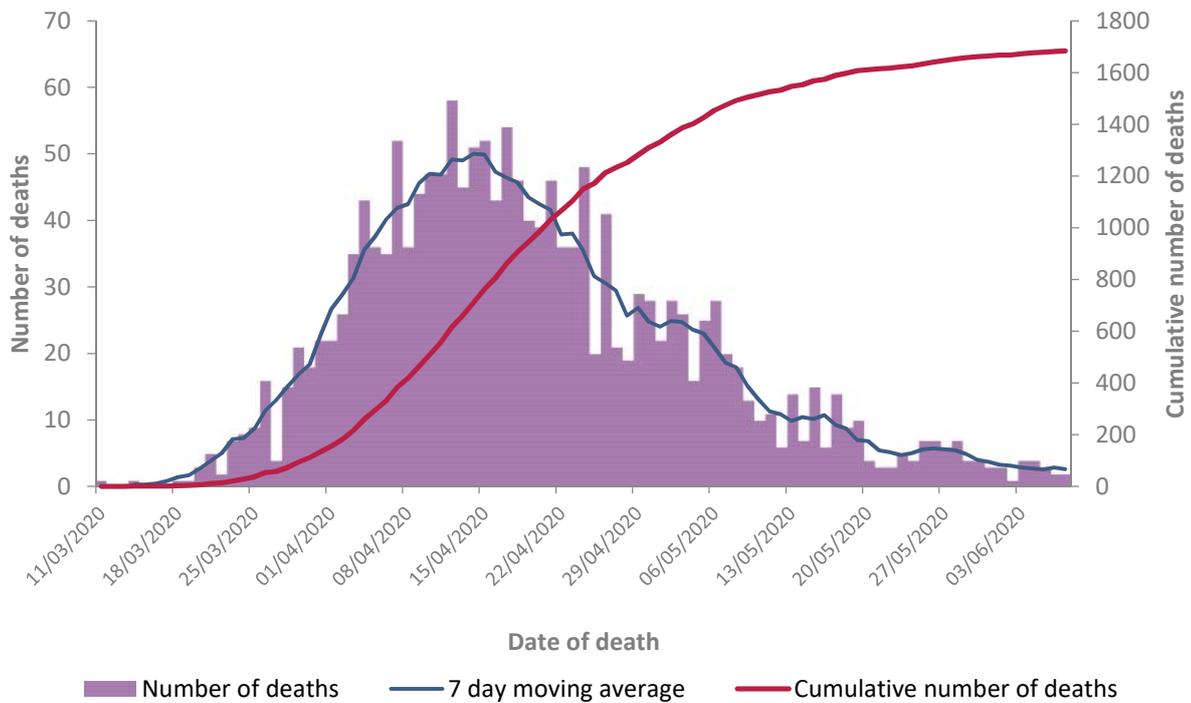
## Deaths among COVID-19 cases

Table 7: Summary of deaths in all COVID-19 cases notified in Ireland up to midnight 08/06/2020

	Number	Percent
Total number of deaths	1,691	
Confirmed	1,433	84.74
Probable	95	5.62
Possible	163	9.64
Total number of cases hospitalised	718	42.46
Cases admitted to ICU	84	4.97
Cases not admitted to ICU	634	37.49
Total number of imported cases	6	0.35
Number of cases in healthcare workers	7	0.41
Number with underlying clinical conditions	1,546	91.43
Total number of male cases	837	49.5
M:F ratio	0.98	
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 08/06/2020

Age group (years)	Female	Male	Total	Percent
15-24 yrs	<5	<5	2	0.12
25-34 yrs	<5	<5	5	0.3
35-44 yrs	5	6	11	0.65
45-54 yrs	10	15	25	1.48
55-64 yrs	23	44	67	3.96
65-74 yrs	84	150	234	13.84
75-84 yrs	260	313	573	33.89
85+ yrs	466	306	772	45.65
Unknown	<5	<5	2	0.12
<b>Total</b>	<b>854</b>	<b>837</b>	<b>1,691</b>	<b>100</b>
<b>Percent</b>	<b>50.5</b>	<b>49.5</b>		



**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 08/06/2020**

\* Date of death is not yet available for six 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 09:21 on 6/10/20. 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  $\geq 85$  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.