



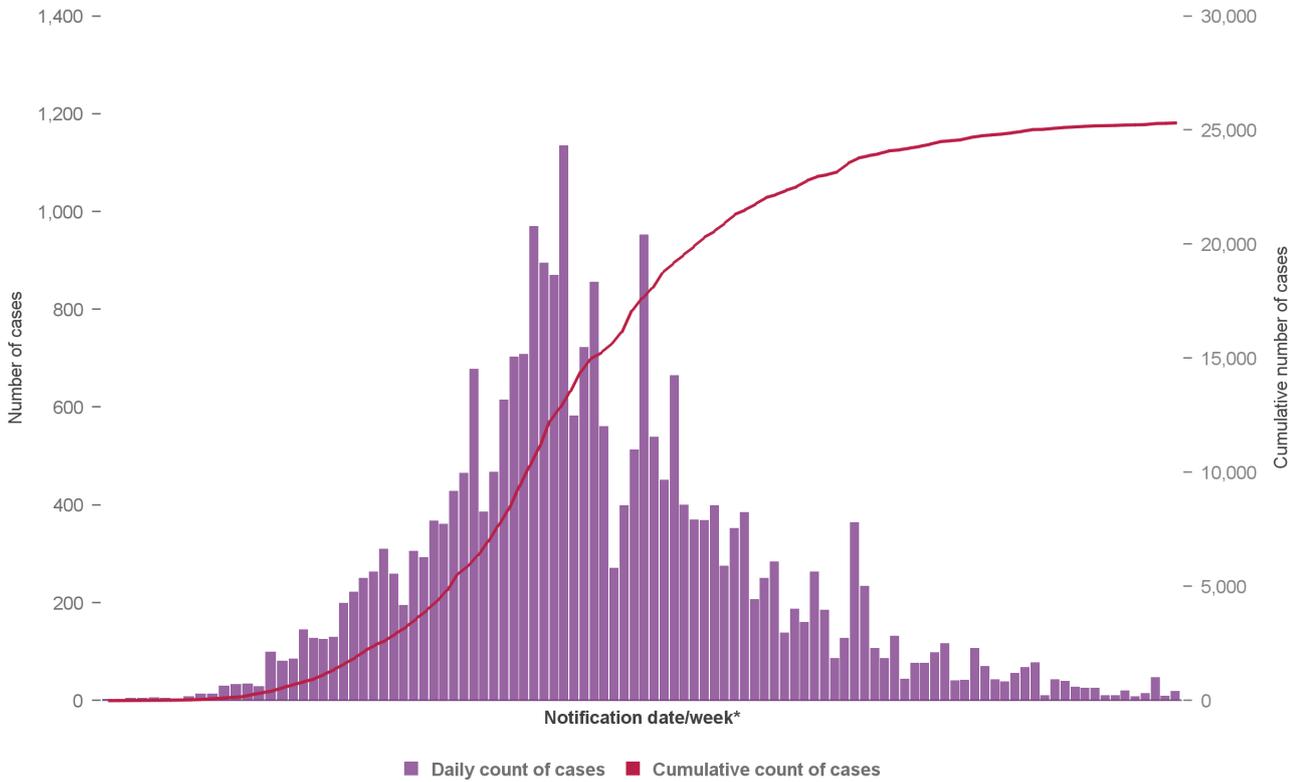
# Epidemiology of COVID-19 in Ireland

Report prepared by HPSC on 16/06/2020 for National Public Health Emergency Team

Summary characteristics of confirmed COVID-19 cases notified in Ireland up to midnight 14/06/2020

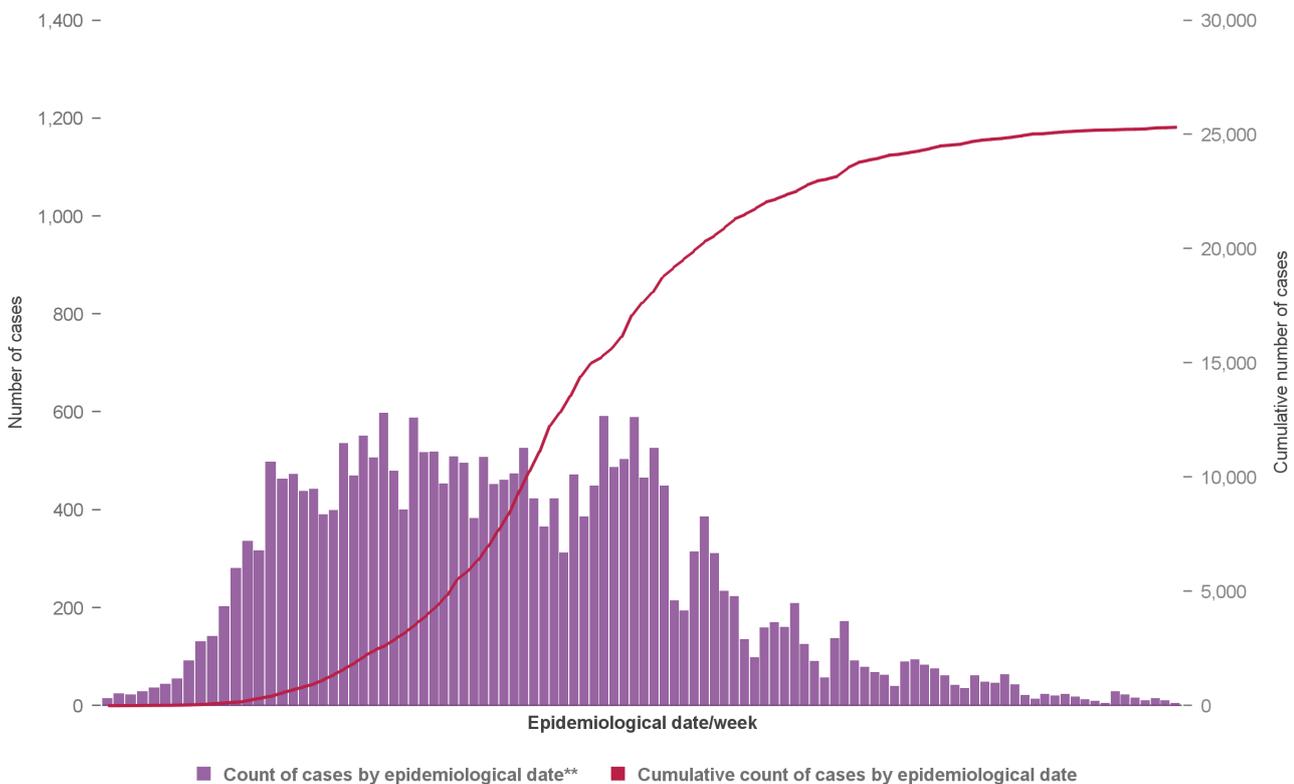
	Number	Percent
Total number of confirmed cases	25,320	
National cumulative incidence of confirmed cases per 100,000 population	531.72	
Total number of cases hospitalised	3,282	12.96
Total number of cases admitted to ICU	418	1.65
Total number of deaths among confirmed cases	1,449	5.72
Case fatality ratio (CFR, %)	5.72	
National cumulative incidence of confirmed deaths per 100,000 population	30.43	
Total number of outbreaks/clusters	976	
Total number of cases associated with clusters	10,668	42.13
Total number of imported cases	369	1.46
Number of cases in healthcare workers	8,139	32.14
Males	10,815	42.71
Females	14,475	57.17
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 16/06/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.



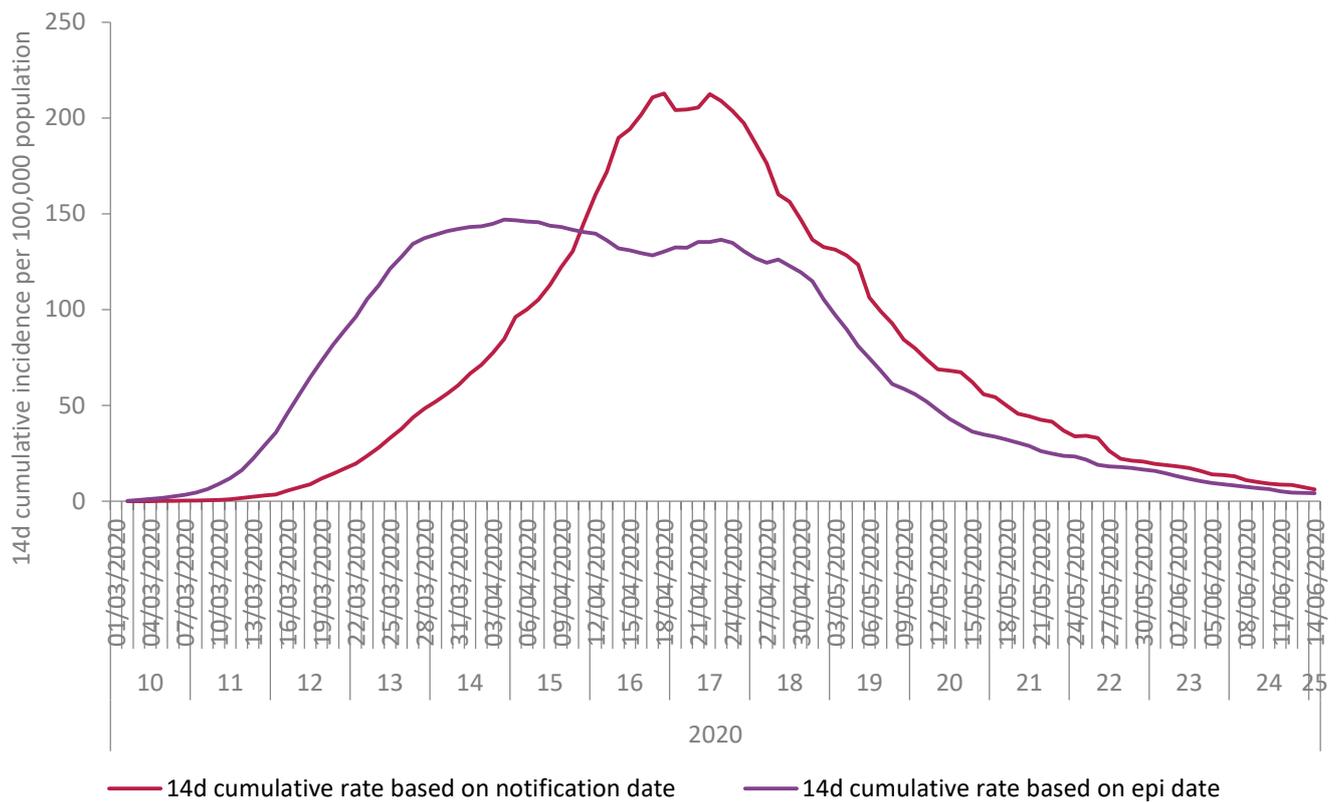
**Figure 1a: Number\* and cumulative number of confirmed COVID-19 cases notified in Ireland by notification date\* to midnight 14/06/2020**

\*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 14/06/2020**

\*\*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.



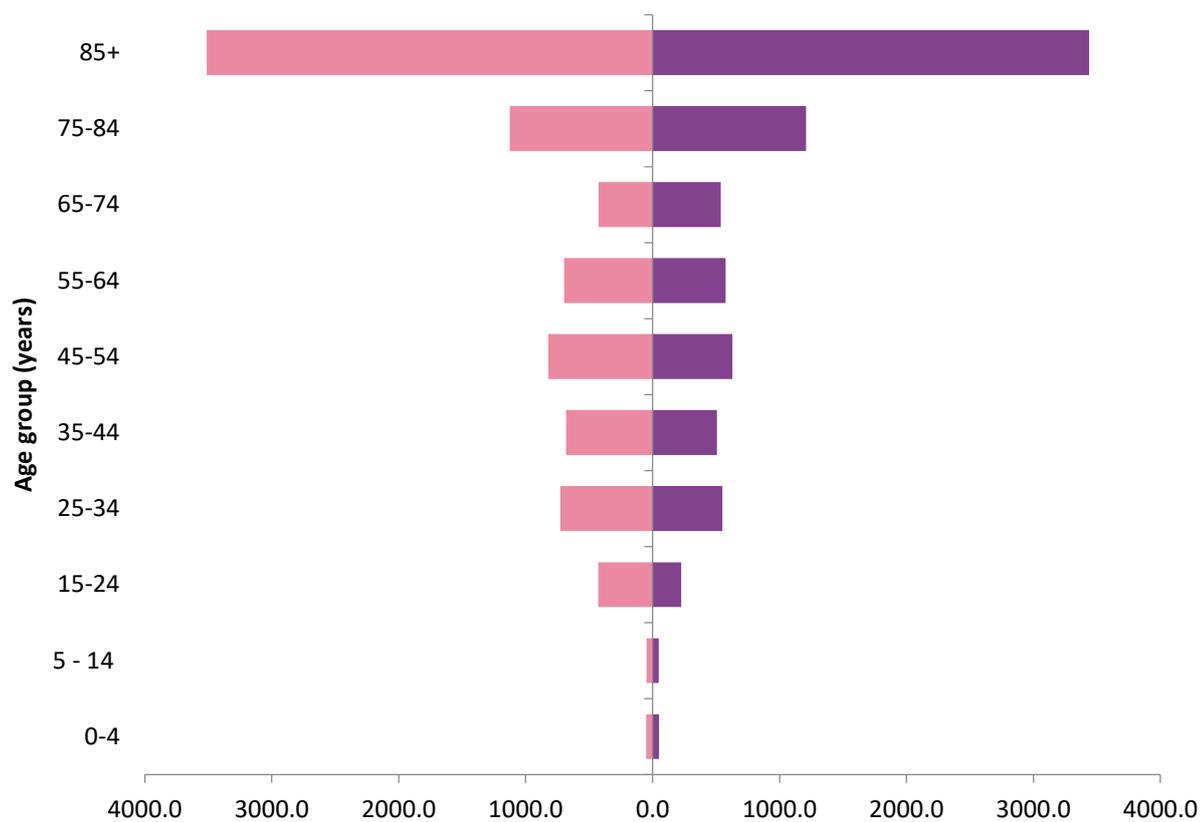
**Figure 2: Cumulative 14 day incidence rate of confirmed COVID-19 cases per 100,000 population notified in Ireland by notification\* and epidemiological date\*\* to midnight 14/06/2020**

\* 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 14/06/2020**

Characteristic		Number of cases	Percent
<b>Total number of confirmed cases</b>		<b>25,320</b>	<b>100</b>
<b>Sex</b>	Male:Female ratio	0.75	
	Male	10,815	42.71
	Female	14,475	57.17
	Unknown	30	0.12
<b>Age</b>	Median age (years)	48	
	Mean age (years)	51	
	Age range (years)	0 - 106	
	0-4 yrs	169	0.67
	5-14 yrs	324	1.28
	15-24 yrs	1,874	7.4
	25-34 yrs	4,242	16.75
	35-44 yrs	4,455	17.59
	45-54 yrs	4,553	17.98
	55-64 yrs	3,238	12.79
	65-74 yrs	1,800	7.11
	75-84 yrs	2,285	9.02
	85+ yrs	2,357	9.31
	Unknown	23	0.09

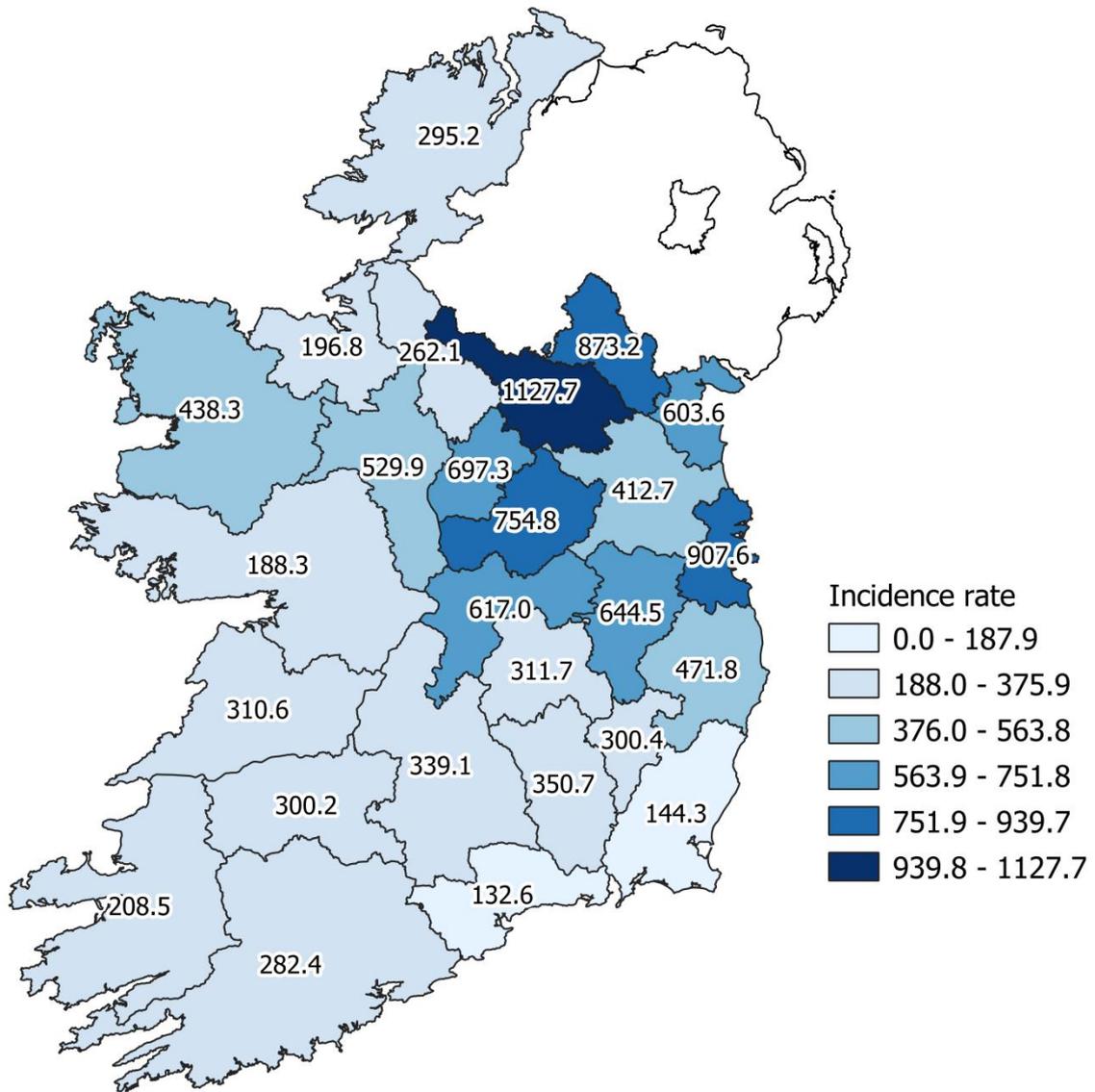


**Cumulative age- and sex-specific rate per 100,000 population**

	0-4	5 - 14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
Female	51.3	48.8	427.9	727.3	680.6	820.9	695.8	426.9	1125.1	3512.9
Male	50.7	47.3	224.6	550.9	507.4	629.8	575.7	538.3	1208.1	3438.6

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 14/06/2020 (excluding 23 cases for whom age is unknown, 29 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 14/06/2020**

*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 14/06/2020**

<b>County Name</b>	<b>Number of cases</b>	<b>Percent</b>
Carlow	171	0.68
Cavan	859	3.39
Clare	369	1.46
Cork	1,533	6.05
Donegal	470	1.86
Dublin	12,228	48.29
Galway	486	1.92
Kerry	308	1.22
Kildare	1,434	5.66
Kilkenny	348	1.37
Laois	264	1.04
Leitrim	84	0.33
Limerick	585	2.31
Longford	285	1.13
Louth	778	3.07
Mayo	572	2.26
Meath	805	3.18
Monaghan	536	2.12
Offaly	481	1.9
Roscommon	342	1.35
Sligo	129	0.51
Tipperary	541	2.14
Waterford	154	0.61
Westmeath	670	2.65
Wexford	216	0.85
Wicklow	672	2.65
<b>Total</b>	<b>25,320</b>	<b>100</b>

**Table 3: Number of confirmed COVID-19 cases by WHO transmission classification notified to midnight 14/06/2020**

Transmission classification*	Count of Events	%
Community transmission, incl. possible community transmission	9,435	37.26%
Local transmission, incl. possible local transmission	15,287	60.38%
Travel abroad, incl. possible travel abroad	583	2.30%
Unknown	15	0.06%
<b>Total</b>	<b>25,320</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 14/06/2020**

Age Group (years)	Number of cases (n)	Cases hospitalised (n)	Cases hospitalised (%)	Cases admitted to ICU (n)	Cases admitted to ICU (%)
0-4 yrs	169	20	0.61	0	0
5-14 yrs	324	17	0.52	2	0.48
15-24 yrs	1874	69	2.1	5	1.2
25-34 yrs	4242	200	6.09	15	3.59
35-44 yrs	4455	261	7.95	34	8.13
45-54 yrs	4553	445	13.56	84	20.1
55-64 yrs	3238	490	14.93	123	29.43
65-74 yrs	1800	577	17.58	107	25.6
75-84 yrs	2285	734	22.36	42	10.05
85+ yrs	2357	467	14.23	6	1.44
Unknown	23	2	0.06	0	0
<b>Total</b>	<b>25,320</b>	<b>3,282</b>	<b>100</b>	<b>418</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 14/06/2020**

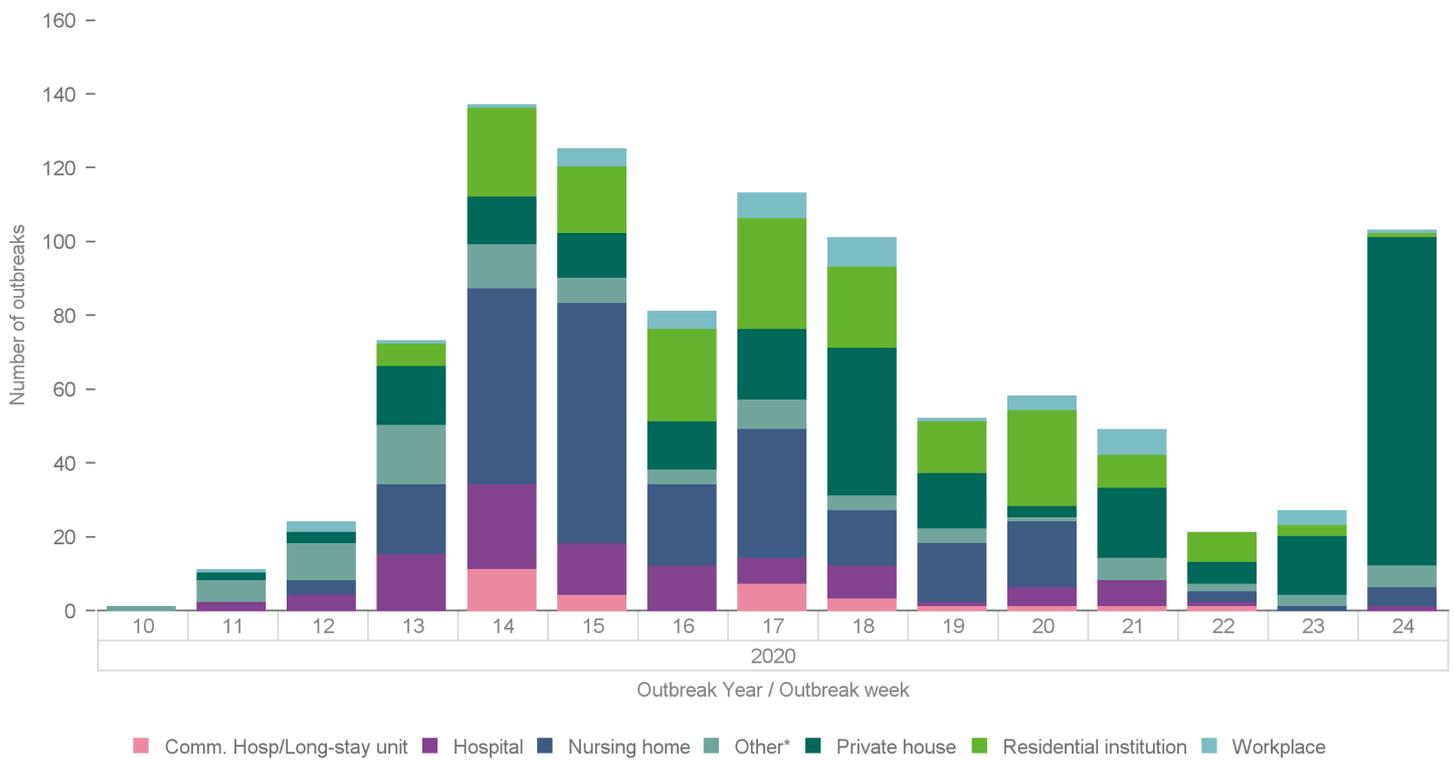
	0-4 yrs	5-14 yrs	15-24 yrs	25-34 yrs	35-44 yrs	45-54 yrs	55-64 yrs	65-74 yrs	75-84 yrs	85+ yrs	Unknown
Number of cases (n)	169	324	1,874	4,242	4,455	4,553	3,238	1,800	2,285	2,357	23
Cases hospitalised (n)	20	17	69	200	261	445	490	577	734	467	2
Cases hospitalised (%)	11.83	5.25	3.68	4.71	5.86	9.77	15.13	32.06	32.12	19.81	8.7
Cases admitted to ICU (n)	0	2	5	15	34	84	123	107	42	6	0
Cases admitted to ICU (%)	0	0.62	0.27	0.35	0.76	1.84	3.8	5.94	1.84	0.25	0
Deaths (n)	0	0	2	5	11	23	63	211	496	638	0
Case fatality ratio (%)	0	0	0.11	0.12	0.25	0.51	1.95	11.72	21.71	27.07	0

## Outbreaks of COVID-19

**Table 6: Number of clusters/outbreaks COVID-19 by location and HSE area notified to midnight 14/06/2020**

Outbreak Location	E	M	MW	NE	NW	S	SE	W	Total
Private house	5	6	45	94	6	58	27	25	<b>266</b>
Nursing home	127	10	15	38	5	9	16	36	<b>256</b>
Residential institution	115	9	7	17	4	20	10	4	<b>186</b>
Hospital	60	3	2	13	2	11	4	6	<b>101</b>
Other*	14	8	24	7	4	18	6	9	<b>90</b>
Workplace	8	5	5	14	1	8	3	4	<b>48</b>
Comm. Hosp/Long-stay unit	4	3	2		4	6	5	5	<b>29</b>
<b>Total</b>	<b>333</b>	<b>44</b>	<b>100</b>	<b>183</b>	<b>26</b>	<b>130</b>	<b>71</b>	<b>89</b>	<b>976</b>

\*Other outbreak location includes all outbreaks locations other than residential facilities, acute hospitals, private houses and workplaces. This includes community, extended family, hotel, 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 14/06/2020**

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

Note: In week 24, 103 new COVID-19 outbreaks were reported on CIDR, of which 92 were family outbreaks. Of these, 39 family outbreaks occurred in March, 36 family outbreaks occurred in April and 8 family outbreaks occurred in May 2020.

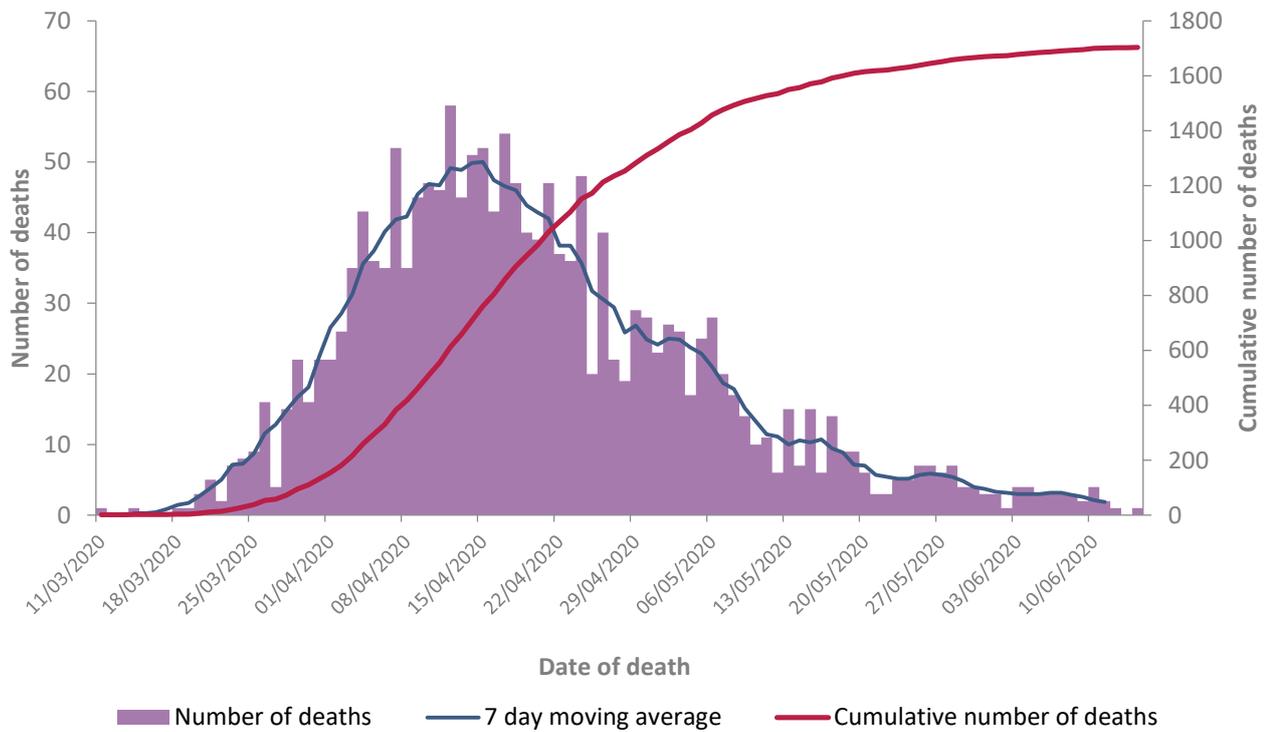
## Deaths among COVID-19 cases

Table 7: Summary of deaths in all COVID-19 cases notified in Ireland up to midnight 14/06/2020

	Number	Percent
Total number of deaths	1,709	
Confirmed	1,449	84.79
Probable	96	5.62
Possible	164	9.60
Total number of cases hospitalised	710	41.54
Cases admitted to ICU	86	5.03
Cases not admitted to ICU	624	36.51
Total number of imported cases	6	0.35
Number of cases in healthcare workers	7	0.41
Number with underlying clinical conditions	1,573	92.04
Total number of male cases	845	49.44
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 14/06/2020

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	7	12	0.70
45-54 yrs	10	15	25	1.46
55-64 yrs	24	44	68	3.98
65-74 yrs	86	150	236	13.81
75-84 yrs	265	317	582	34.06
85+ yrs	468	309	777	45.47
Unknown	<5	<5	2	0.12
<b>Total</b>	<b>864</b>	<b>845</b>	<b>1,709</b>	<b>100</b>
<b>Percent</b>	<b>50.56</b>	<b>49.44</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 14/06/2020**

\* 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 09:15 on 16/06/2020. 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  $\geq 85$  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, acute hospitals, private houses and workplaces. This includes community, extended family, hotel, public house, retail outlet, travel related and all other locations.