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## **Epidemiology of COVID-19 in Ireland Report prepared by HPSC on 27/08/2020 for National Public Health Emergency Team**

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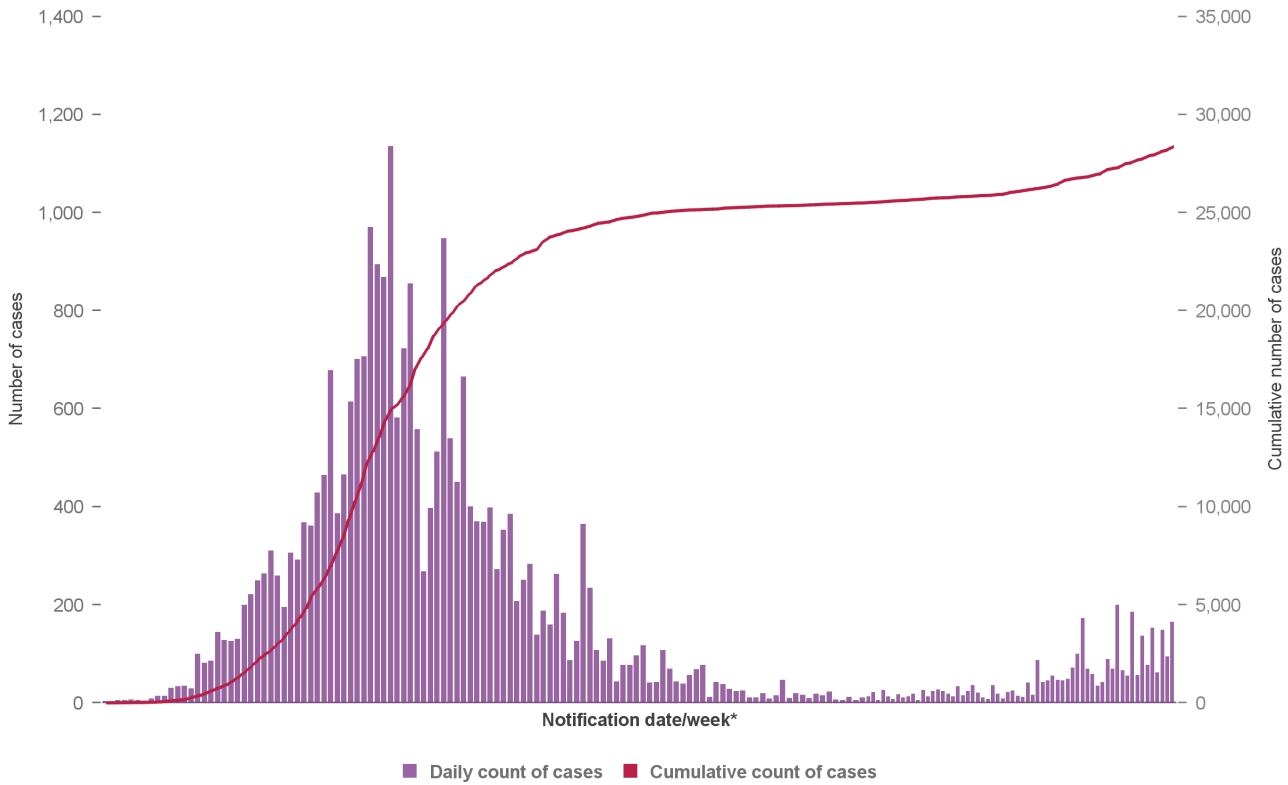
## Epidemiology of COVID-19 in Ireland

Report prepared by HPSC on 27/08/2020 for National Public Health Emergency Team

Summary characteristics of confirmed COVID-19 cases notified in Ireland up to midnight 25/08/2020

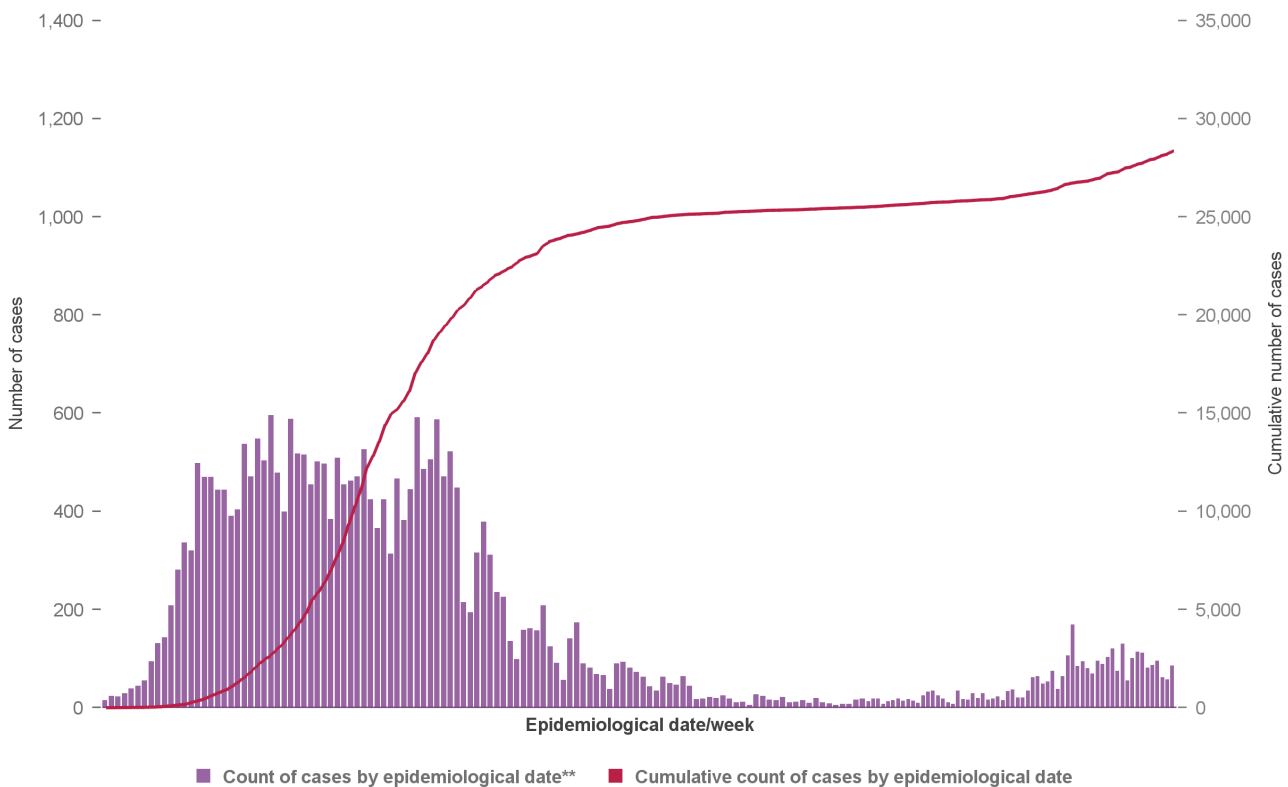
	Number	Percent
Total number of confirmed cases	28,360	
National cumulative incidence of confirmed cases per 100,000 population	595.56	
Total number of cases hospitalised	3,386	11.94
Total number of cases admitted to ICU	444	1.57
Total number of deaths among confirmed cases	1,519	5.36
Case fatality ratio (CFR, %)	5.36	
National cumulative incidence of confirmed deaths per 100,000 population	31.9	
Total number of outbreaks/clusters	2,649	
Total number of cases associated with clusters	15,430	54.41
Total number of imported cases	492	1.73
Number of cases in healthcare workers	8,584	30.27
Males	12,395	43.71
Females	15,937	56.2
M:F ratio	0.78	
Median age (years)	46	
Mean age (years)	49	
Age range (years)	0 - 106	

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 09:15 on 27/08/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.



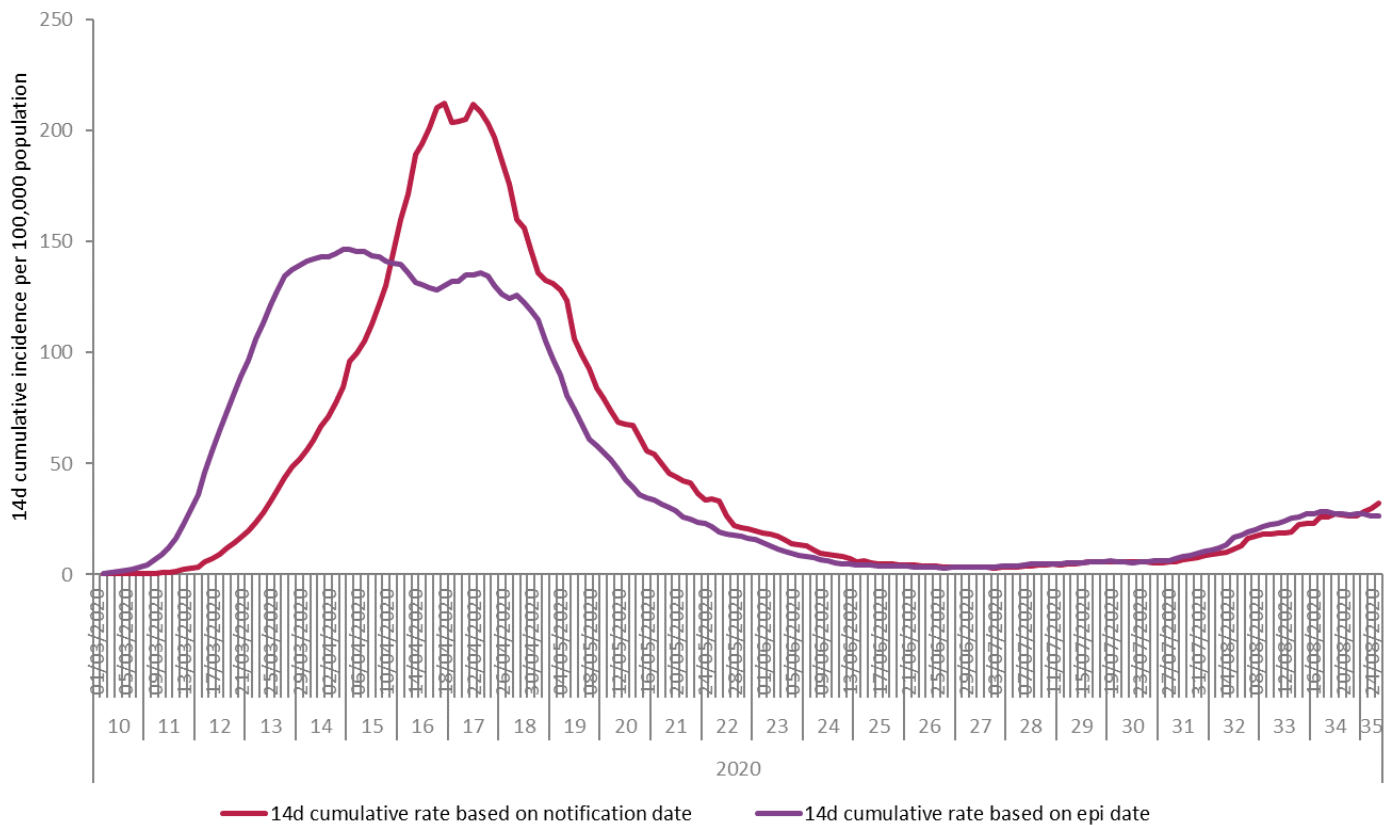
**Figure 1a: Number\* and cumulative number of confirmed COVID-19 cases notified in Ireland by notification date\* to midnight 25/08/2020**

\*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 25/08/2020**

\*\*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.



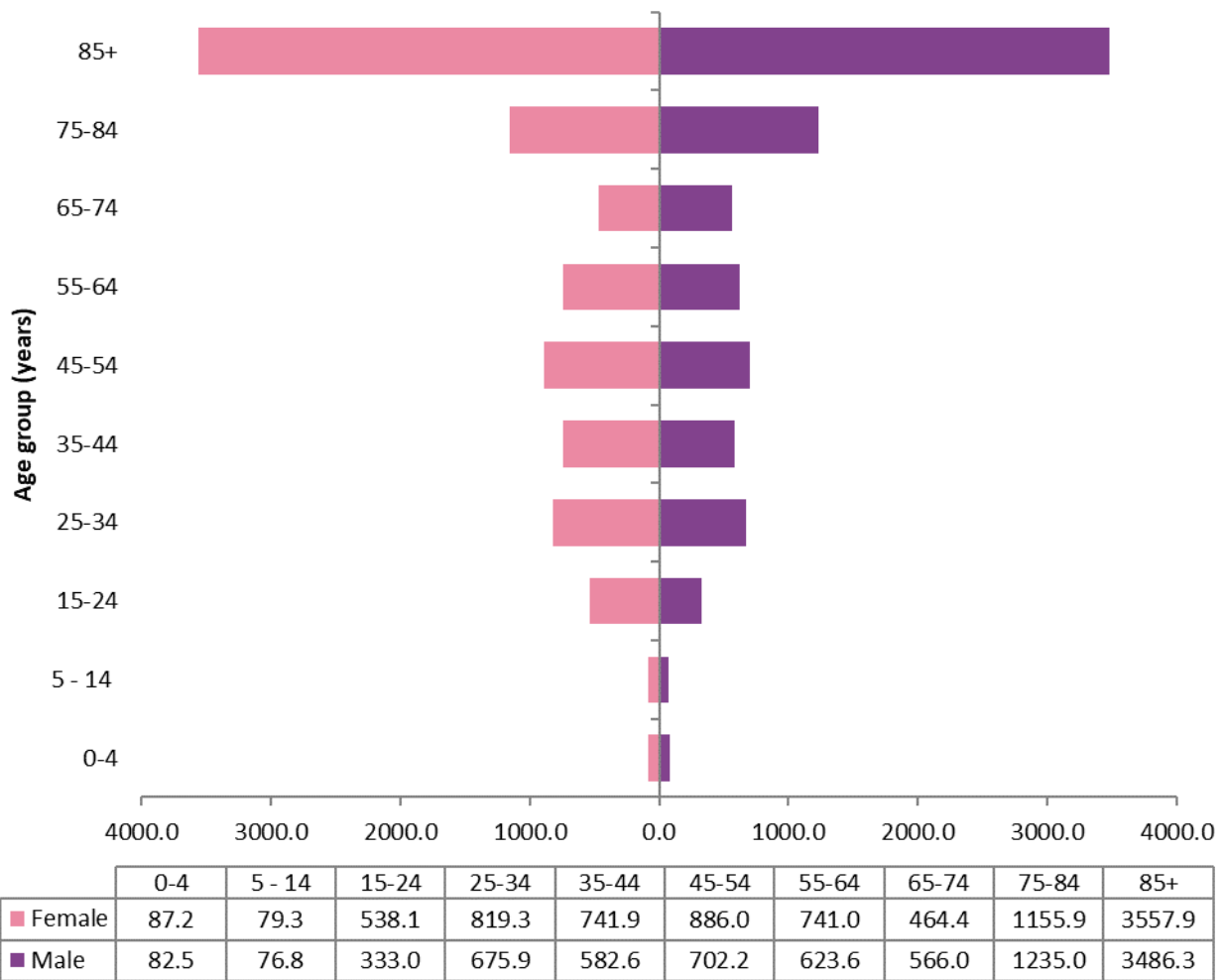
**Figure 2: Cumulative 14 day incidence rate of confirmed COVID-19 cases per 100,000 population notified in Ireland by notification\* and epidemiological date\*\* to midnight 25/08/2020**

\* 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 25/08/2020**

Characteristic		Number of cases	Percent
<b>Total number of confirmed cases</b>		<b>28,360</b>	<b>100</b>
<b>Sex</b>	Male:Female ratio	0.78	
	Male	12,395	43.71
	Female	15,937	56.2
	Unknown	28	0.1
<b>Age</b>	Median age (years)	46	
	Mean age (years)	49	
	Age range (years)	0 - 106	
	0-4 yrs	281	0.99
	5-14 yrs	528	1.86
	15-24 yrs	2,503	8.83
	25-34 yrs	4,953	17.46
	35-44 yrs	4,964	17.5
	45-54 yrs	4,982	17.57
	55-64 yrs	3,475	12.25
	65-74 yrs	1,922	6.78
	75-84 yrs	2,342	8.26
	85+ yrs	2,388	8.42
	Unknown	22	0.08



**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 25/08/2020 (excluding 21 cases for whom age is unknown and 27 cases for whom sex is unknown and 1 case for whom both are unknown)**

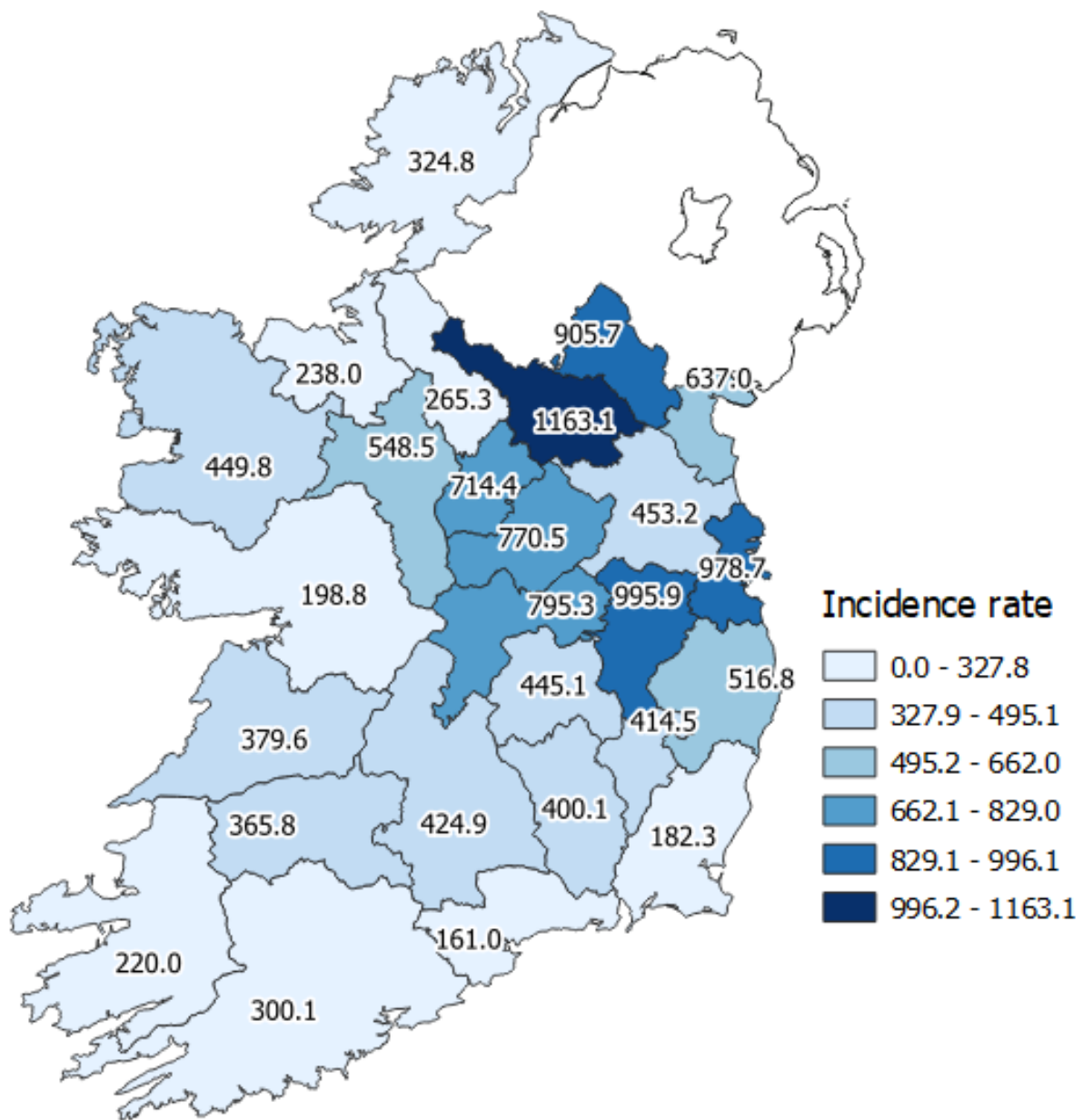


Figure 4: Cumulative incidence rates of confirmed cases of COVID-19 per 100,000 population notified in Ireland to midnight 25/08/2020

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 25/08/2020**

<b>County Name</b>	<b>Number of cases</b>	<b>Percent</b>
Carlow	236	0.83
Cavan	886	3.12
Clare	451	1.59
Cork	1,629	5.74
Donegal	517	1.82
Dublin	13,187	46.5
Galway	513	1.81
Kerry	325	1.15
Kildare	2,216	7.81
Kilkenny	397	1.4
Laois	377	1.33
Leitrim	85	0.3
Limerick	713	2.51
Longford	292	1.03
Louth	821	2.89
Mayo	587	2.07
Meath	884	3.12
Monaghan	556	1.96
Offaly	620	2.19
Roscommon	354	1.25
Sligo	156	0.55
Tipperary	678	2.39
Waterford	187	0.66
Westmeath	684	2.41
Wexford	273	0.96
Wicklow	736	2.6
<b>Total</b>	<b>28,360</b>	<b>100</b>

**Table 3: Number of confirmed COVID-19 cases by WHO transmission classification notified to midnight 25/08/2020**

Transmission classification*	Count of Events	%
Community transmission, incl. possible community transmission	8,605	30.34%
Local transmission, incl. possible local transmission	18,828	66.39%
Travel abroad, incl. possible travel abroad	689	2.43%
Unknown	238	0.84%
<b>Total</b>	<b>28,360</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 25/08/2020**

Age Group (years)	Number of cases (n)	Cases hospitalised (n)	Cases hospitalised (%)	Cases admitted to ICU (n)	Cases admitted to ICU (%)
0-4 yrs	281	25	0.74	0	0
5-14 yrs	528	18	0.53	2	0.45
15-24 yrs	2503	79	2.33	5	1.13
25-34 yrs	4953	204	6.02	15	3.38
35-44 yrs	4964	278	8.21	38	8.56
45-54 yrs	4982	454	13.41	93	20.95
55-64 yrs	3475	502	14.83	128	28.83
65-74 yrs	1922	596	17.6	110	24.77
75-84 yrs	2342	751	22.18	47	10.59
85+ yrs	2388	478	14.12	6	1.35
Unknown	22	1	0.03	0	0
<b>Total</b>	<b>28,360</b>	<b>3,386</b>	<b>100</b>	<b>444</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 25/08/2020**

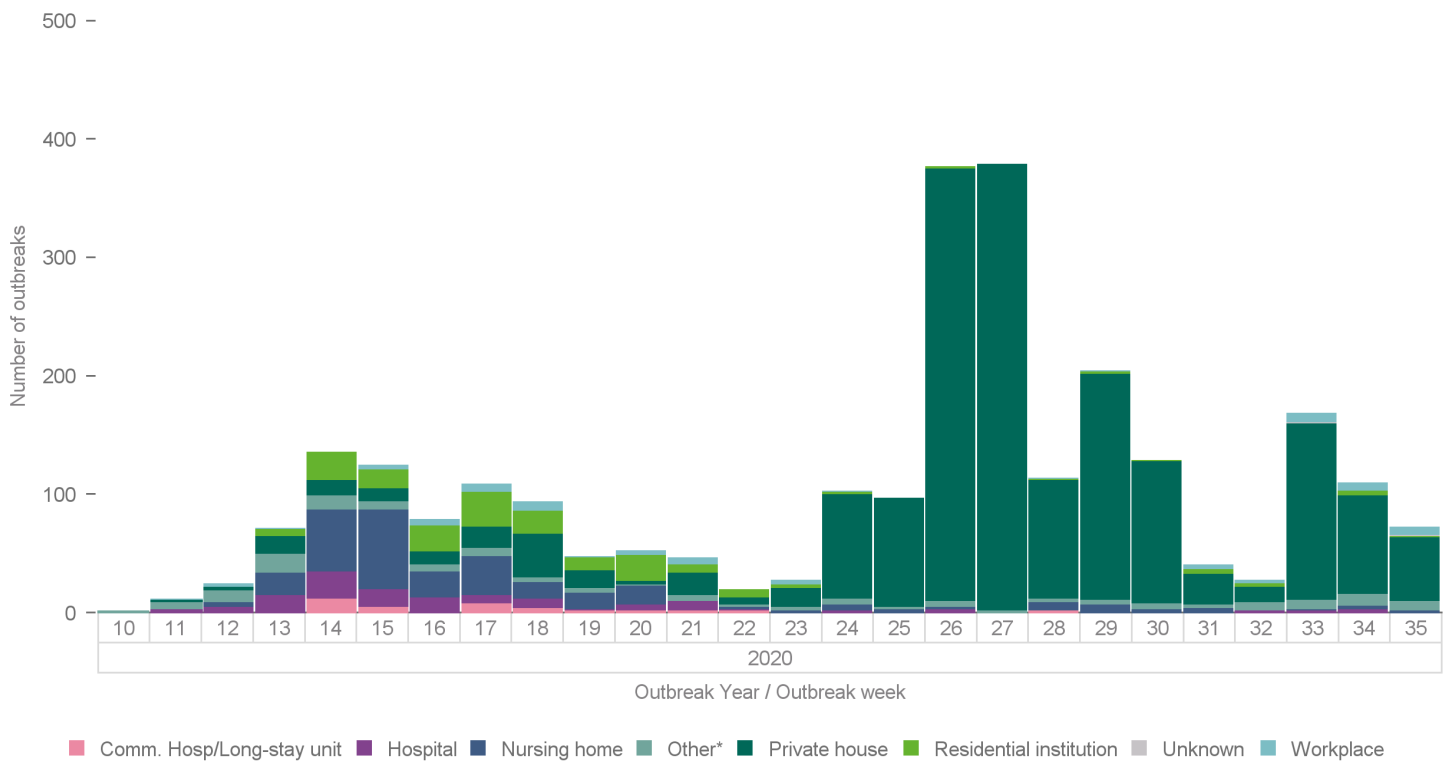
	0-4 yrs	5-14 yrs	15-24 yrs	25-34 yrs	35-44 yrs	45-54 yrs	55-64 yrs	65-74 yrs	75-84 yrs	85+ yrs	Unknown
Number of cases (n)	281	528	2,503	4,953	4,964	4,982	3,475	1,922	2,342	2,388	22
Cases hospitalised (n)	25	18	79	204	278	454	502	596	751	478	1
Cases hospitalised (%)	8.9	3.41	3.16	4.12	5.6	9.11	14.45	31.01	32.07	20.02	4.55
Cases admitted to ICU (n)	0	2	5	15	38	93	128	110	47	6	0
Cases admitted to ICU (%)	0	0.38	0.2	0.3	0.77	1.87	3.68	5.72	2.01	0.25	0
Deaths (n)	0	0	1	5	12	25	68	227	521	660	0
Case fatality ratio (%)	0	0	0.04	0.1	0.24	0.5	1.96	11.81	22.25	27.64	0

## Outbreaks of COVID-19

**Table 6: Number of clusters/outbreaks COVID-19 by location and HSE area notified to midnight 25/08/2020**

Outbreak Location	E	HPSC	M	MW	NE	NW	S	SE	W	Total
Private house	1,284		23	99	133	55	121	82	30	<b>1,827</b>
Nursing home	133		10	18	43	5	14	17	36	<b>276</b>
Residential institution	109		10	10	18	4	21	10	4	<b>186</b>
Other*	16	2	10	42	7	11	35	12	10	<b>145</b>
Hospital	63		3	4	14	2	10	5	6	<b>107</b>
Workplace	24		11	6	15	1	9	6	4	<b>76</b>
Comm. Hosp/Long-stay unit	4		4	2		4	6	5	5	<b>30</b>
Unknown	2									<b>2</b>
<b>Total</b>	<b>1,635</b>	<b>2</b>	<b>71</b>	<b>181</b>	<b>230</b>	<b>82</b>	<b>216</b>	<b>137</b>	<b>95</b>	<b>2,649</b>

\*Other outbreak location 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 25/08/2020**

\*Other outbreak location includes community, extended family, hotel, public house, retail outlet, travel related and all other locations.

Note: 1,811 COVID-19 outbreaks were reported on CIDR between week 24 and week 35 2020 (June 9th to 25th August). Of these, 1,682 were family outbreaks. Most of these family outbreaks occurred earlier and were reported between weeks 24 and 35 as a result of data validation: 1 occurred in February, 635 in March, 474 in April, 95 in May, 126 in June, 126 in July and 225 in August to date.

## Deaths among COVID-19 cases

Table 7: Summary of deaths in all COVID-19 cases notified in Ireland up to midnight 25/08/2020

	Number	Percent
Total number of deaths	1,777	
Confirmed	1,519	85.48
Probable	99	5.57
Possible	159	8.95
Total number of cases hospitalised	757	42.6
Cases admitted to ICU	93	5.23
Cases not admitted to ICU	664	37.37
Total number of imported cases	6	0.34
Number of cases in healthcare workers	8	0.45
Number with underlying clinical conditions	1,677	94.37
Total number of male cases	875	49.24
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 25/08/2020

Age group (years)	Female	Male	Total	Percent
15-24 yrs	<5	<5	1	0.06
25-34 yrs	<5	<5	5	0.28
35-44 yrs	6	7	13	0.73
45-54 yrs	10	17	27	1.52
55-64 yrs	25	48	73	4.11
65-74 yrs	93	159	252	14.18
75-84 yrs	279	326	605	34.05
85+ yrs	484	315	799	44.96
Unknown	<5	<5	2	0.11
<b>Total</b>	<b>902</b>	<b>875</b>	<b>1,777</b>	<b>100</b>
<b>Percent</b>	<b>50.76</b>	<b>49.24</b>		

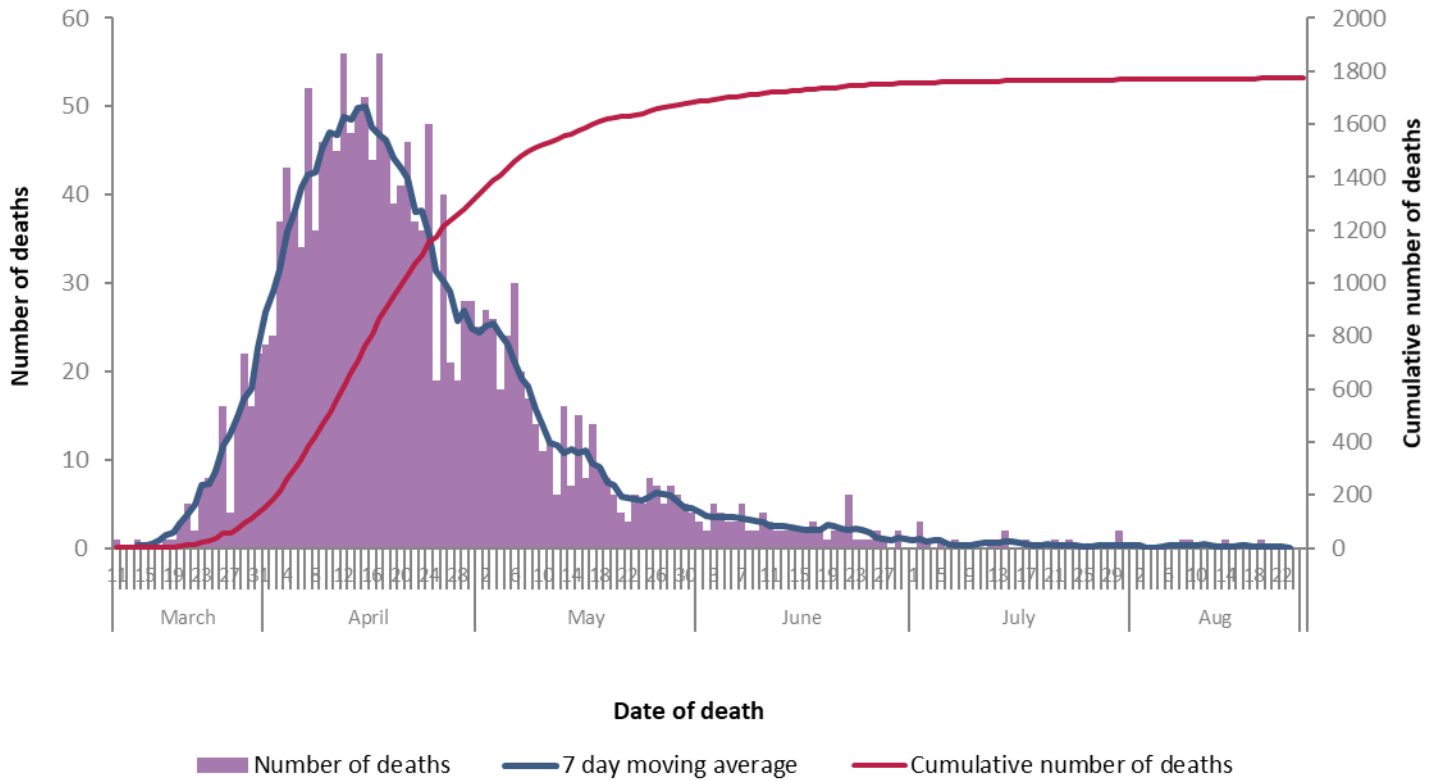


Figure 6a: Daily and 7 day moving average number of deaths among COVID-19 cases notified in Ireland by date of death and cumulative total to midnight 25/08/2020

\* Date of death is not yet available for five cases

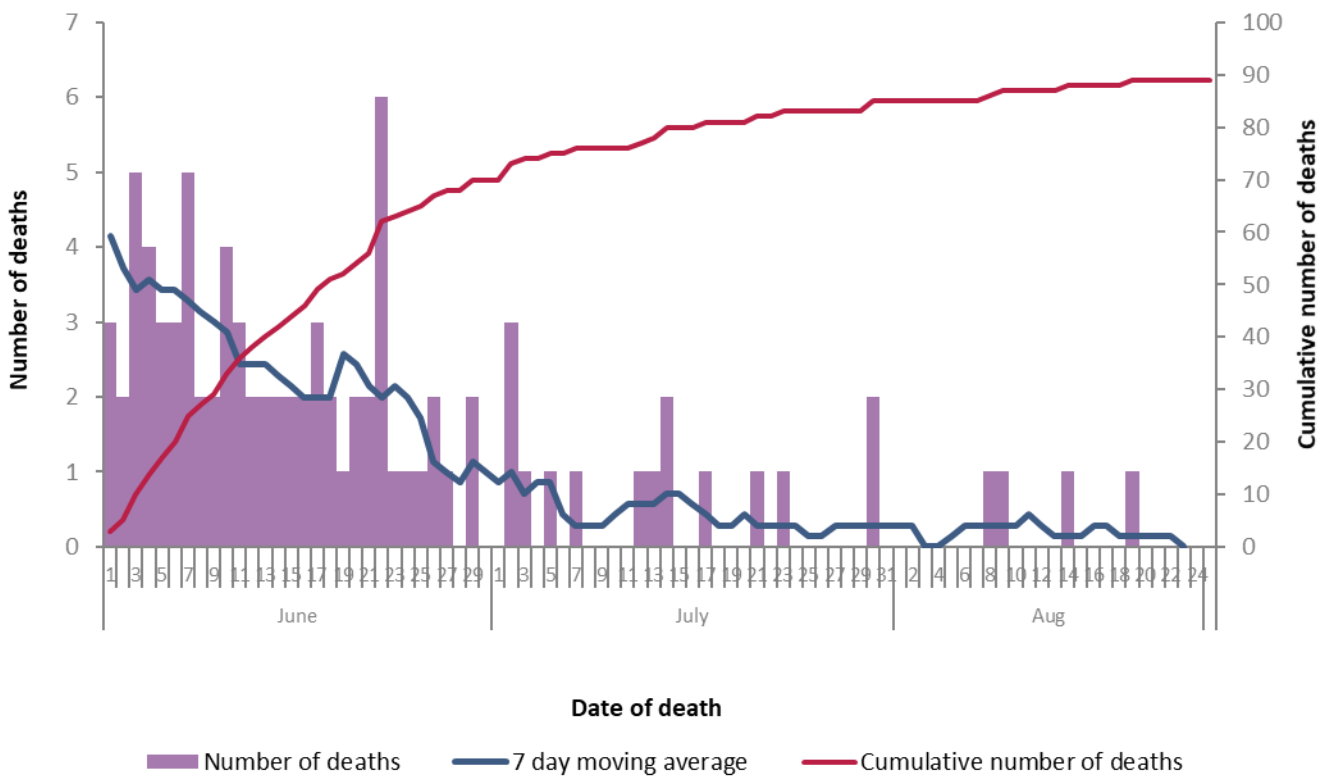


Figure 6b: Daily and 7 day moving average number of deaths among COVID-19 cases notified in Ireland by date of death and cumulative total, 01/06/2020 to midnight 25/08/2020 (n=89)

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 these reports. This includes the HSE COVID-19 Contact Management Programme (CMP), 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 27/08/2020. 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.
- 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 community, extended family, hotel, public house, retail outlet, travel related and all other locations.