



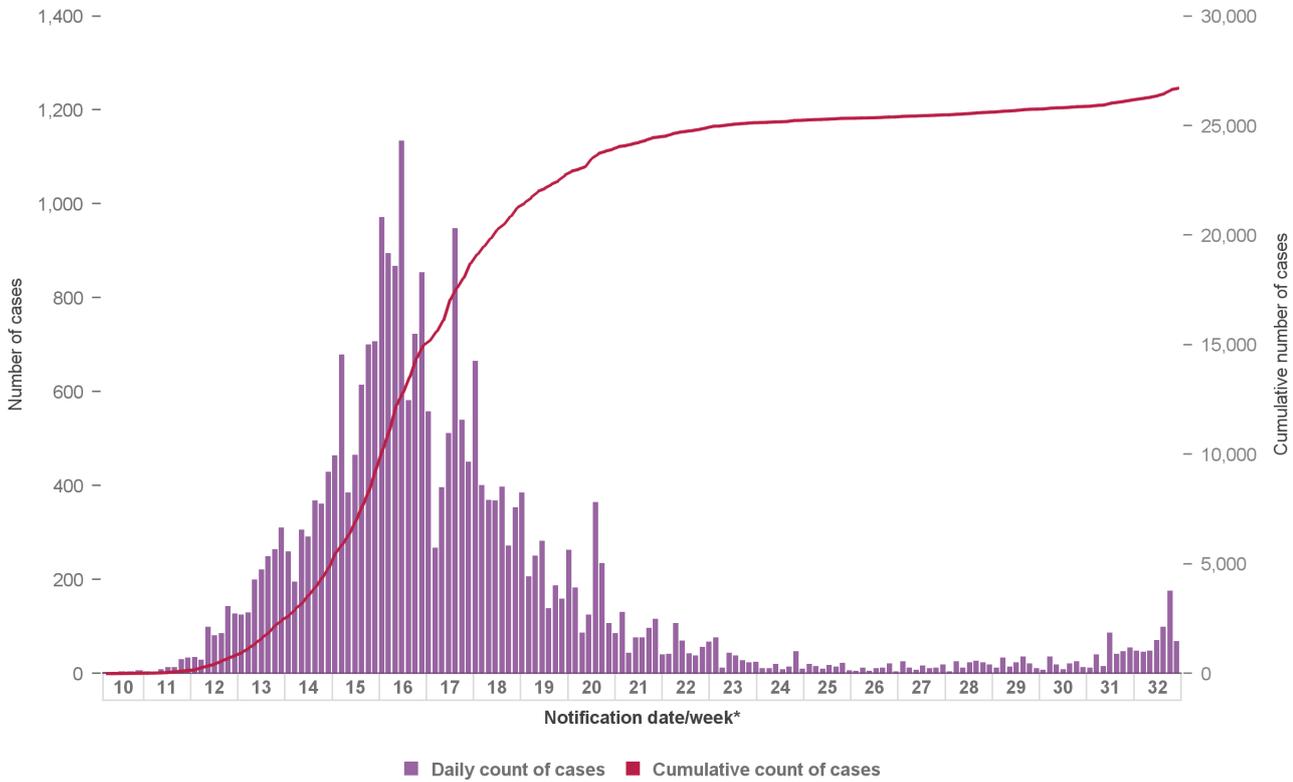
# Epidemiology of COVID-19 in Ireland

Report prepared by HPSC on 10/08/2020 for National Public Health Emergency Team

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

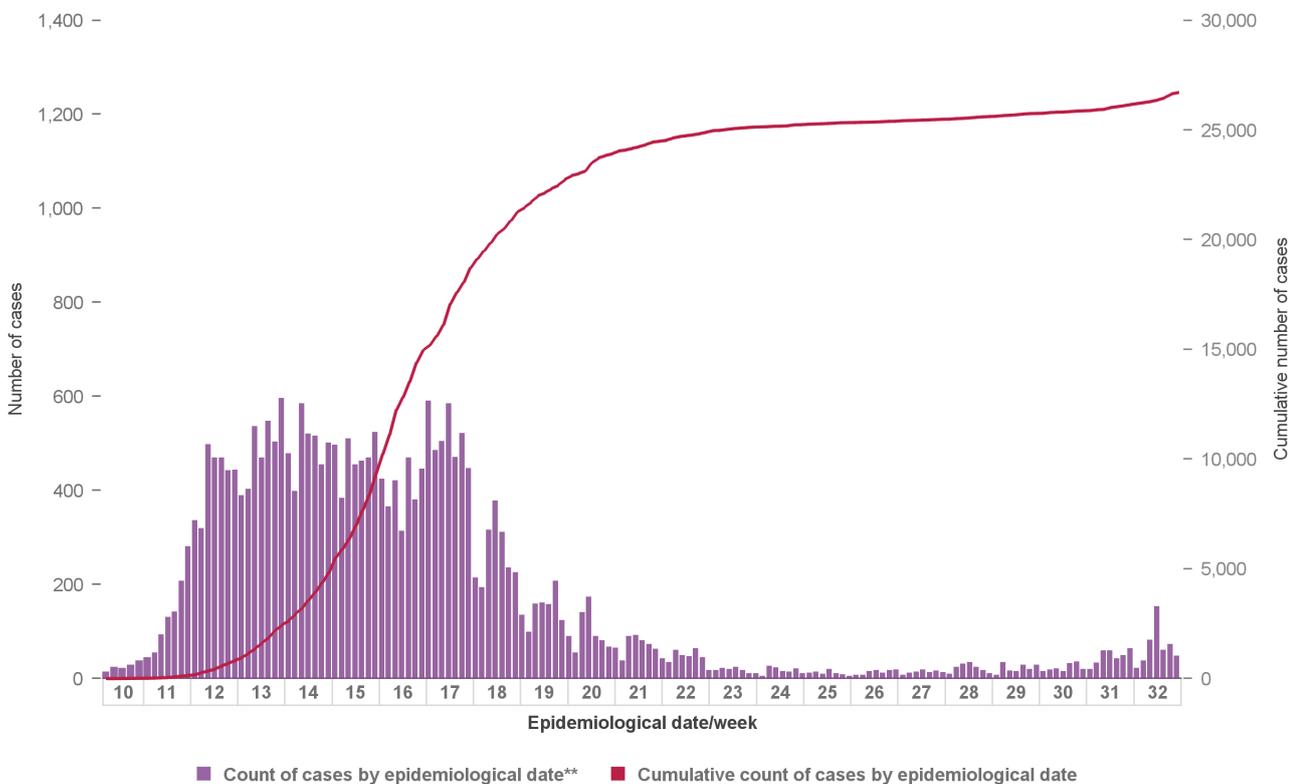
	Number	Percent
Total number of confirmed cases	26,711	
National cumulative incidence of confirmed cases per 100,000 population	560.94	
Total number of cases hospitalised	3,364	12.59
Total number of cases admitted to ICU	438	1.64
Total number of deaths among confirmed cases	1,514	5.67
Case fatality ratio (CFR, %)	5.67	
National cumulative incidence of confirmed deaths per 100,000 population	31.79	
Total number of outbreaks/clusters	2,336	
Total number of cases associated with clusters	14,432	54.03
Total number of imported cases	457	1.71
Number of cases in healthcare workers	8,458	31.66
Males	11,582	43.36
Females	15,101	56.53
M:F ratio	0.77	
Median age (years)	47	
Mean age (years)	50	
Age range (years)	0 - 106	

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 09:22 on 10/08/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.



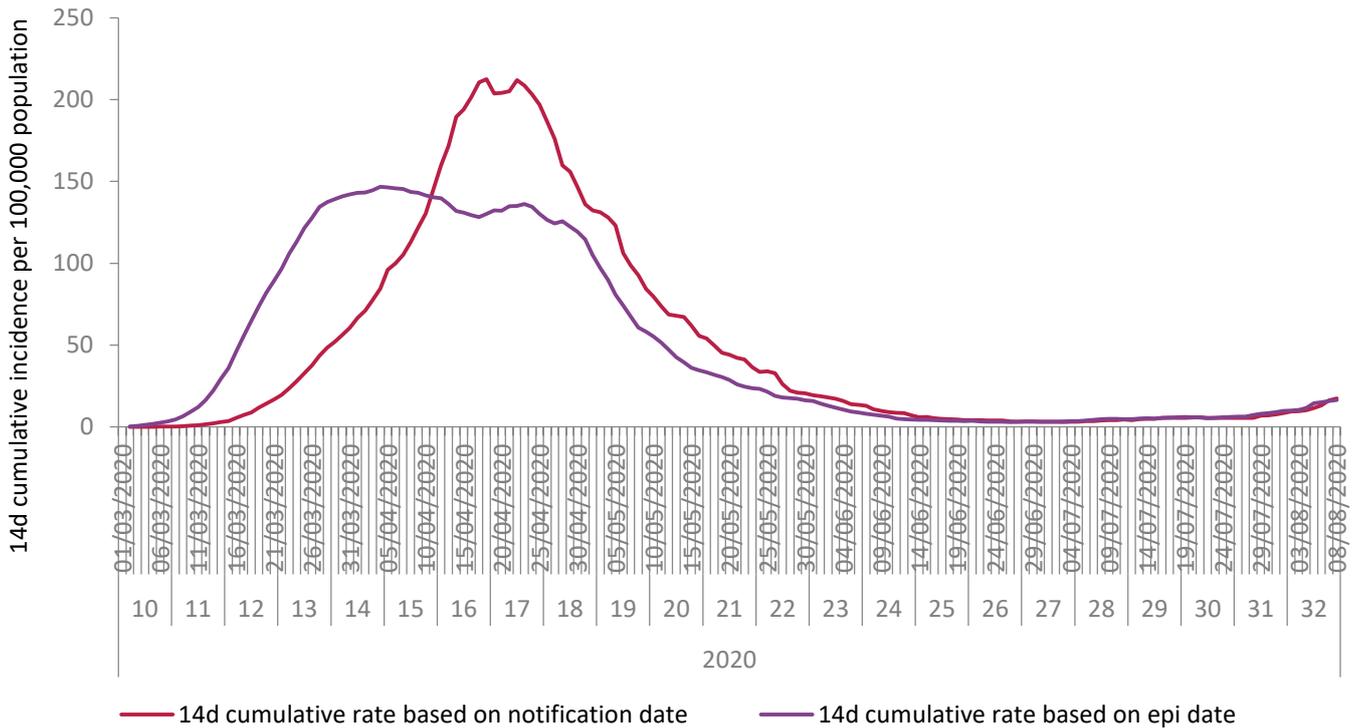
**Figure 1a: Number\* and cumulative number of confirmed COVID-19 cases notified in Ireland by notification date\* to midnight 08/08/2020**

\*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 08/08/2020**

\*\*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.



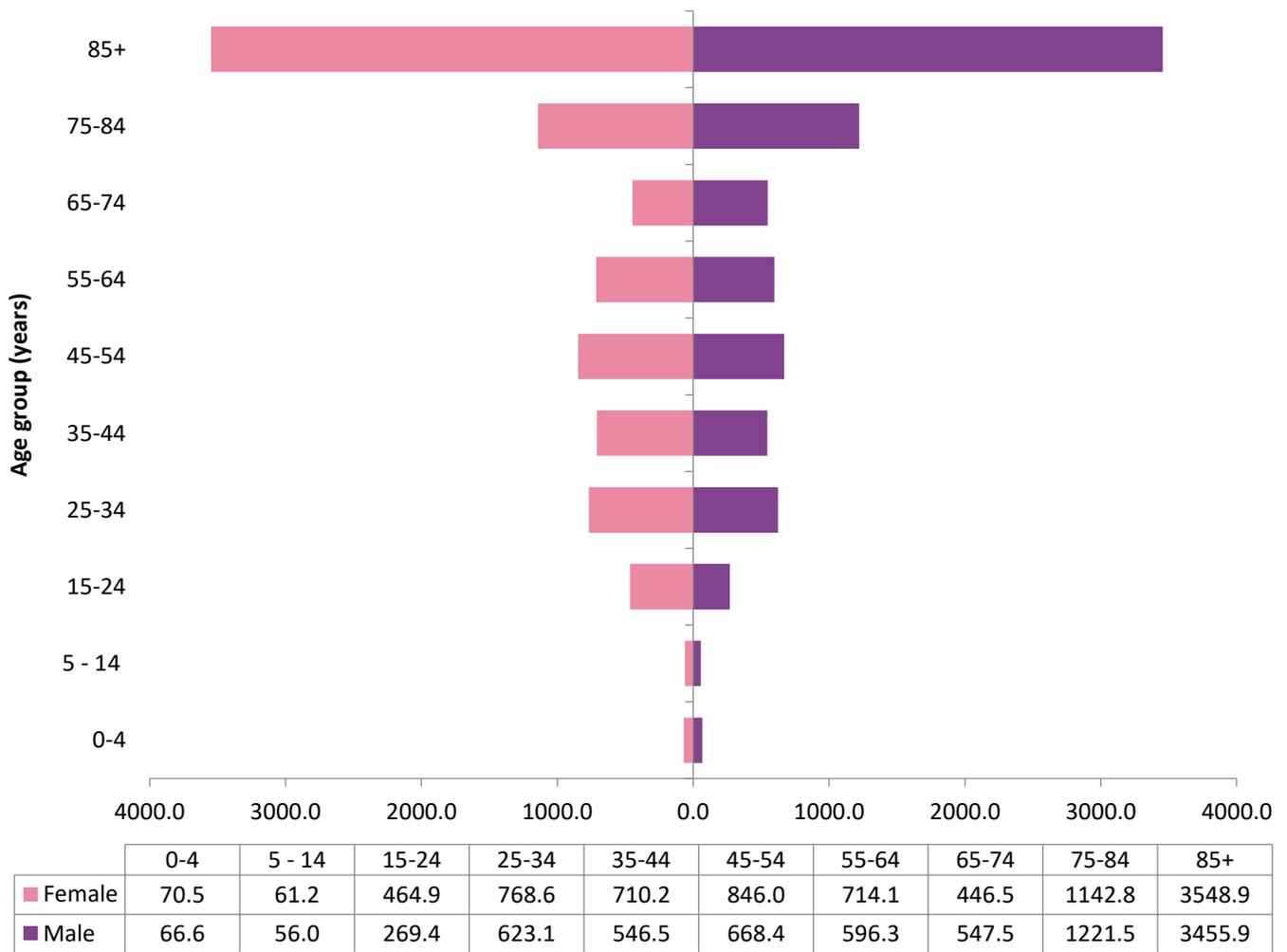
**Figure 2: Cumulative 14 day incidence rate of confirmed COVID-19 cases per 100,000 population notified in Ireland by notification\* and epidemiological date\*\* to midnight 08/08/2020**

\* 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 08/08/2020**

Characteristic		Number of cases	Percent
<b>Total number of confirmed cases</b>		<b>26,711</b>	<b>100</b>
<b>Sex</b>	Male:Female ratio	0.77	
	Male	11,582	43.36
	Female	15,101	56.53
	Unknown	28	0.1
<b>Age</b>	Median age (years)	47	
	Mean age (years)	50	
	Age range (years)	0 - 106	
	0-4 yrs	227	0.85
	5-14 yrs	395	1.48
	15-24 yrs	2,109	7.9
	25-34 yrs	4,612	17.27
	35-44 yrs	4,711	17.64
	45-54 yrs	4,752	17.79
	55-64 yrs	3,337	12.49
	65-74 yrs	1,854	6.94
	75-84 yrs	2,316	8.67
	85+ yrs	2,377	8.9
	Unknown	21	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 08/08/2020 (excluding 20 cases for whom age is unknown and 27 cases for whom sex is unknown and 1 case for whom both are unknown)**

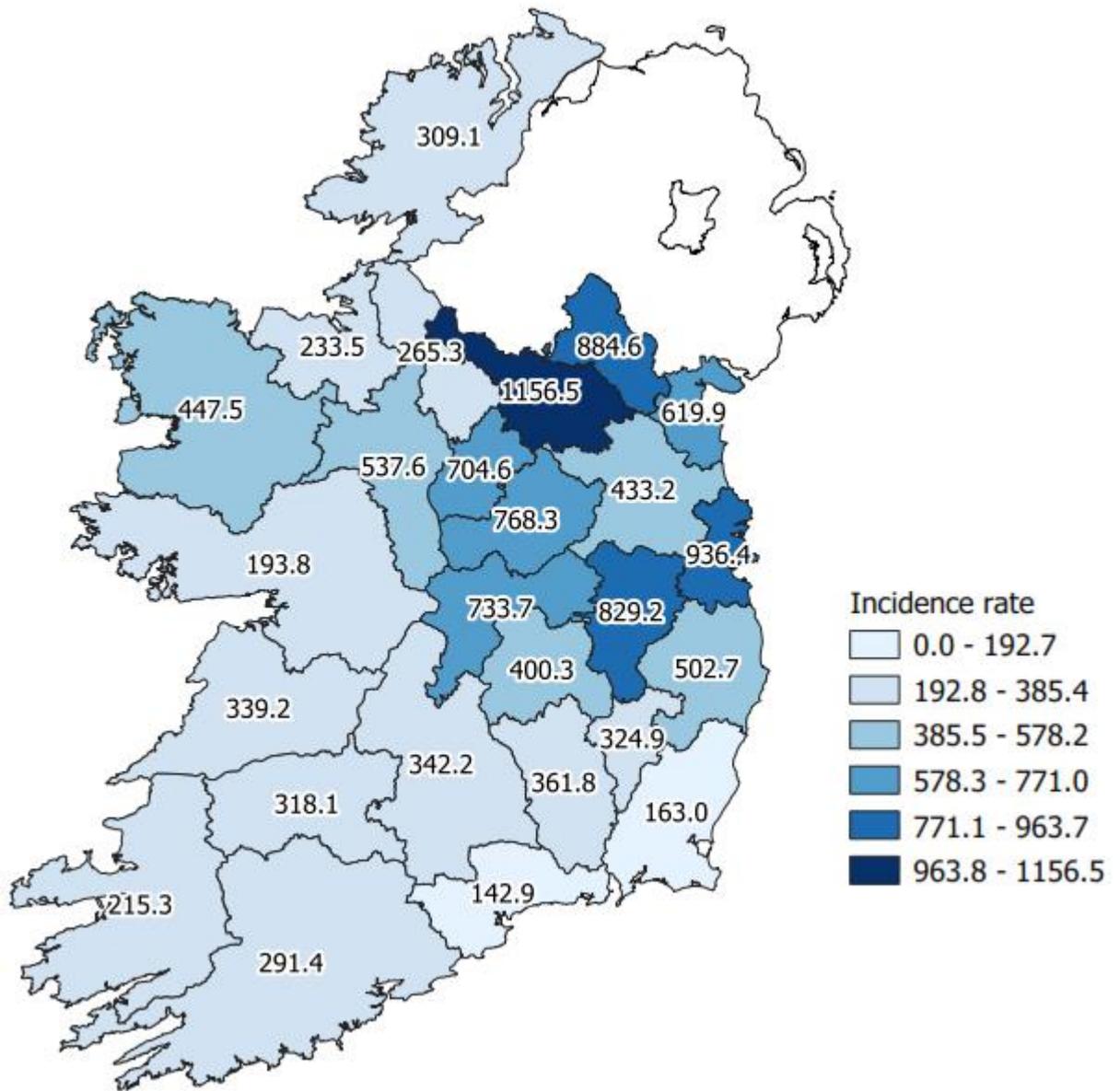


Figure 4: Cumulative incidence rates of confirmed cases of COVID-19 per 100,000 population notified in Ireland to midnight 08/08/2020

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 08/08/2020**

County Name	Number of cases	Percent
Carlow	185	0.69
Cavan	881	3.3
Clare	403	1.51
Cork	1,582	5.92
Donegal	492	1.84
Dublin	12,617	47.24
Galway	500	1.87
Kerry	318	1.19
Kildare	1,845	6.91
Kilkenny	359	1.34
Laois	339	1.27
Leitrim	85	0.32
Limerick	620	2.32
Longford	288	1.08
Louth	799	2.99
Mayo	584	2.19
Meath	845	3.16
Monaghan	543	2.03
Offaly	572	2.14
Roscommon	347	1.3
Sligo	153	0.57
Tipperary	546	2.04
Waterford	166	0.62
Westmeath	682	2.55
Wexford	244	0.91
Wicklow	716	2.68
<b>Total</b>	<b>26,711</b>	<b>100</b>

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

Transmission classification*	Count of Events	%
Community transmission, incl. possible community transmission	8,250	30.89%
Local transmission, incl. possible local transmission	17,724	66.35%
Travel abroad, incl. possible travel abroad	654	2.45%
Unknown	83	0.31%
<b>Total</b>	<b>26,711</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 08/08/2020**

Age Group (years)	Number of cases (n)	Cases hospitalised (n)	Cases hospitalised (%)	Cases admitted to ICU (n)	Cases admitted to ICU (%)
0-4 yrs	227	24	0.71	0	0
5-14 yrs	395	18	0.54	2	0.46
15-24 yrs	2109	77	2.29	5	1.14
25-34 yrs	4612	200	5.95	15	3.42
35-44 yrs	4711	275	8.17	36	8.22
45-54 yrs	4752	452	13.44	91	20.78
55-64 yrs	3337	500	14.86	127	29
65-74 yrs	1854	590	17.54	109	24.89
75-84 yrs	2316	750	22.29	47	10.73
85+ yrs	2377	477	14.18	6	1.37
Unknown	21	1	0.03	0	0
<b>Total</b>	<b>26,711</b>	<b>3,364</b>	<b>100</b>	<b>438</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 08/08/2020**

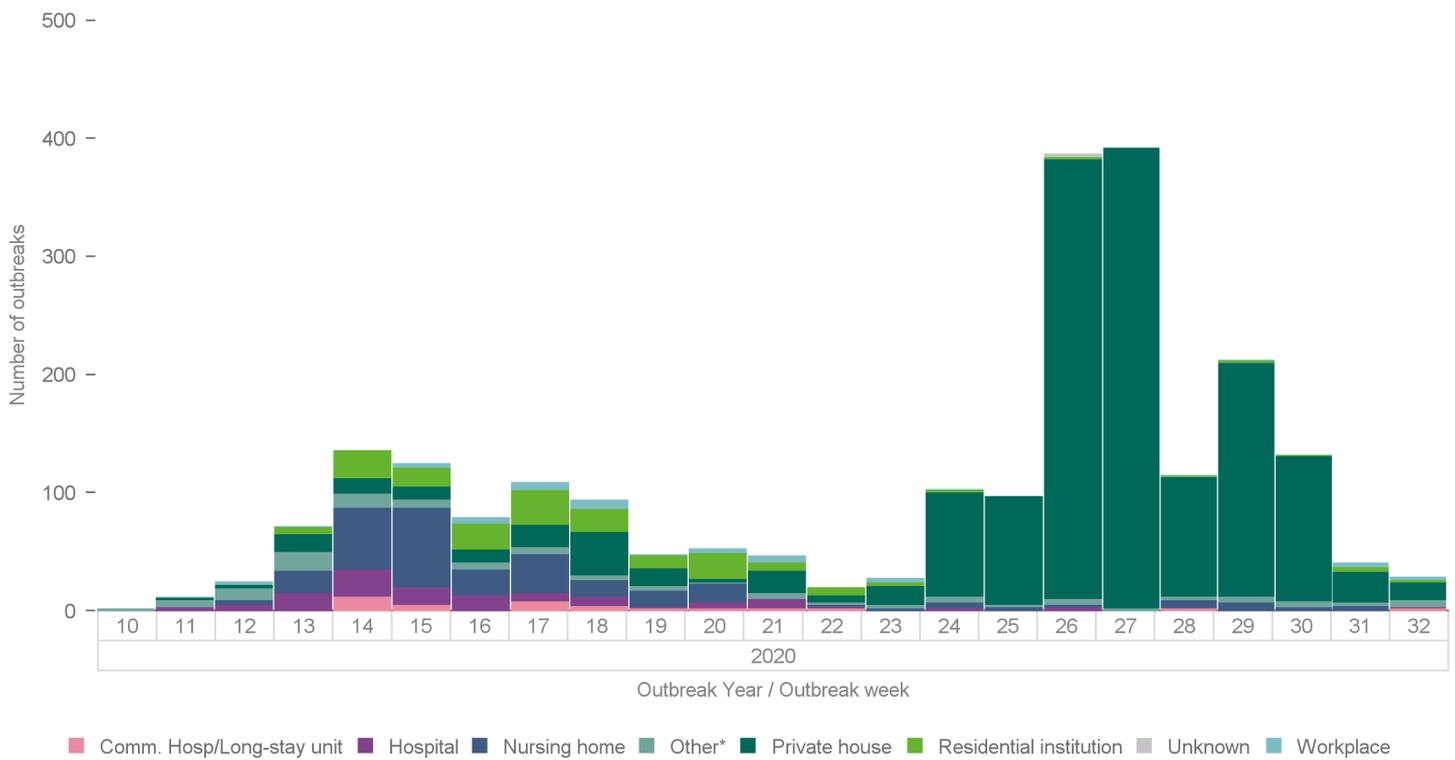
	0-4 yrs	5-14 yrs	15-24 yrs	25-34 yrs	35-44 yrs	45-54 yrs	55-64 yrs	65-74 yrs	75-84 yrs	85+ yrs	Unknown
Number of cases (n)	227	395	2,109	4,612	4,711	4,752	3,337	1,854	2,316	2,377	21
Cases hospitalised (n)	24	18	77	200	275	452	500	590	750	477	1
Cases hospitalised (%)	10.57	4.56	3.65	4.34	5.84	9.51	14.98	31.82	32.38	20.07	4.76
Cases admitted to ICU (n)	0	2	5	15	36	91	127	109	47	6	0
Cases admitted to ICU (%)	0	0.51	0.24	0.33	0.76	1.91	3.81	5.88	2.03	0.25	0
Deaths (n)	0	0	1	5	12	24	67	228	518	659	0
Case fatality ratio (%)	0	0	0.05	0.11	0.25	0.51	2.01	12.3	22.37	27.72	0

## Outbreaks of COVID-19

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

Outbreak Location	E	HPSC	M	MW	NE	NW	S	SE	W	Total
Private house	1,079		6	94	123	54	113	78	28	<b>1,575</b>
Nursing home	131		10	17	41	5	14	17	36	<b>271</b>
Residential institution	105		10	8	18	4	21	10	4	<b>180</b>
Other*	14	2	8	31	7	8	28	11	9	<b>118</b>
Hospital	61		3	3	14	2	10	5	6	<b>104</b>
Workplace	13		7	5	14	1	8	2	4	<b>54</b>
Comm. Hosp/Long-stay unit	5		4	2		4	6	5	5	<b>31</b>
Unknown	2						1			<b>3</b>
<b>Total</b>	<b>1,410</b>	<b>2</b>	<b>48</b>	<b>160</b>	<b>217</b>	<b>78</b>	<b>201</b>	<b>128</b>	<b>92</b>	<b>2,336</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 08/08/2020**

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

Note: 1,498 COVID-19 outbreaks were reported on CIDR between week 24 and week 32 2020 (June 7th to 8th August). Of these, 1,421 were family outbreaks. Most of these family outbreaks occurred earlier and were reported between weeks 24 and 32 as a result of data validation: 1 occurred in February, 705 in March, 528 in April, 100 in May, 23 in June, 61 in July and 3 in August.

## Deaths among COVID-19 cases

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

	Number	Percent
Total number of deaths	1,772	
Confirmed	1,514	85.44
Probable	99	5.59
Possible	159	8.97
Total number of cases hospitalised	753	42.49
Cases admitted to ICU	92	5.19
Cases not admitted to ICU	661	37.3
Total number of imported cases	6	0.34
Number of cases in healthcare workers	8	0.45
Number with underlying clinical conditions	1,672	94.36
Total number of male cases	872	49.21
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 08/08/2020

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	16	26	1.47
55-64 yrs	25	47	72	4.06
65-74 yrs	93	160	253	14.28
75-84 yrs	278	324	602	33.97
85+ yrs	483	315	798	45.03
Unknown	<5	<5	2	0.11
<b>Total</b>	<b>900</b>	<b>872</b>	<b>1,772</b>	<b>100</b>
<b>Percent</b>	<b>50.79</b>	<b>49.21</b>		

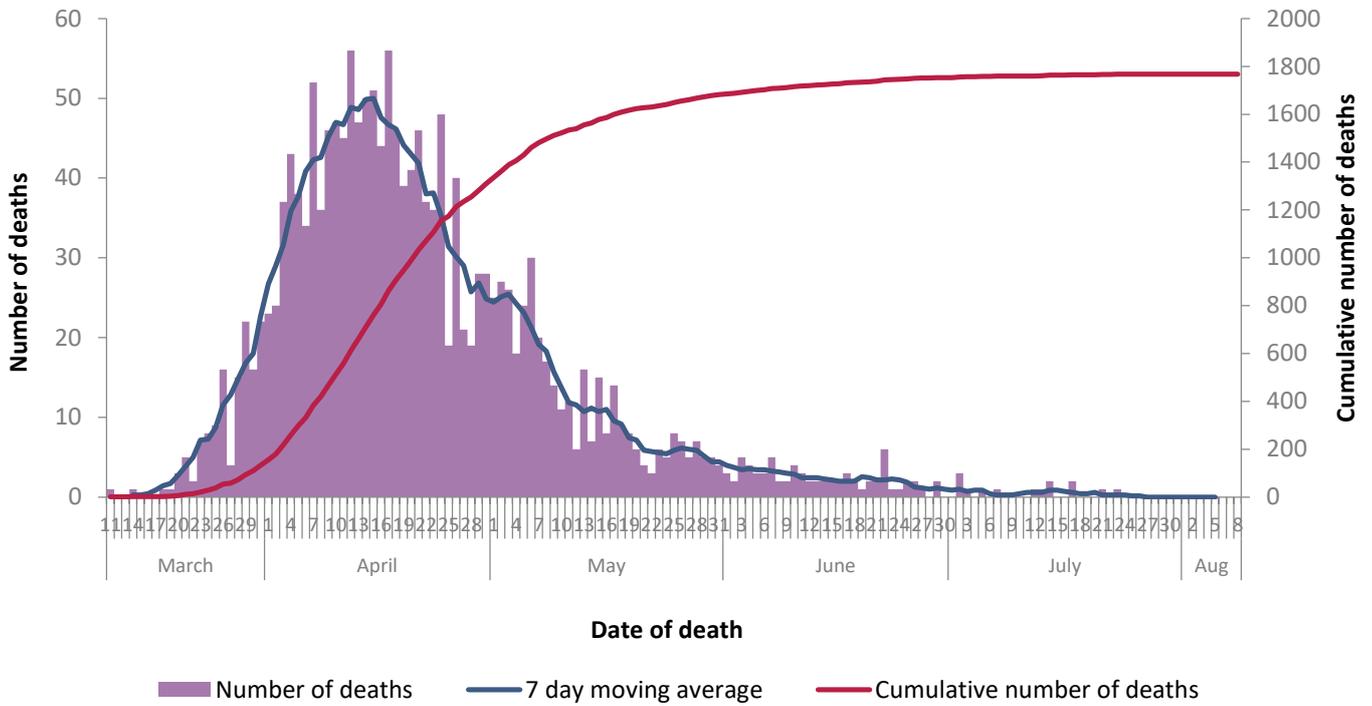


Figure 6a: Daily and 7 day moving average number of deaths among COVID-19 cases notified in Ireland by date of death and cumulative total to midnight 08/08/2020

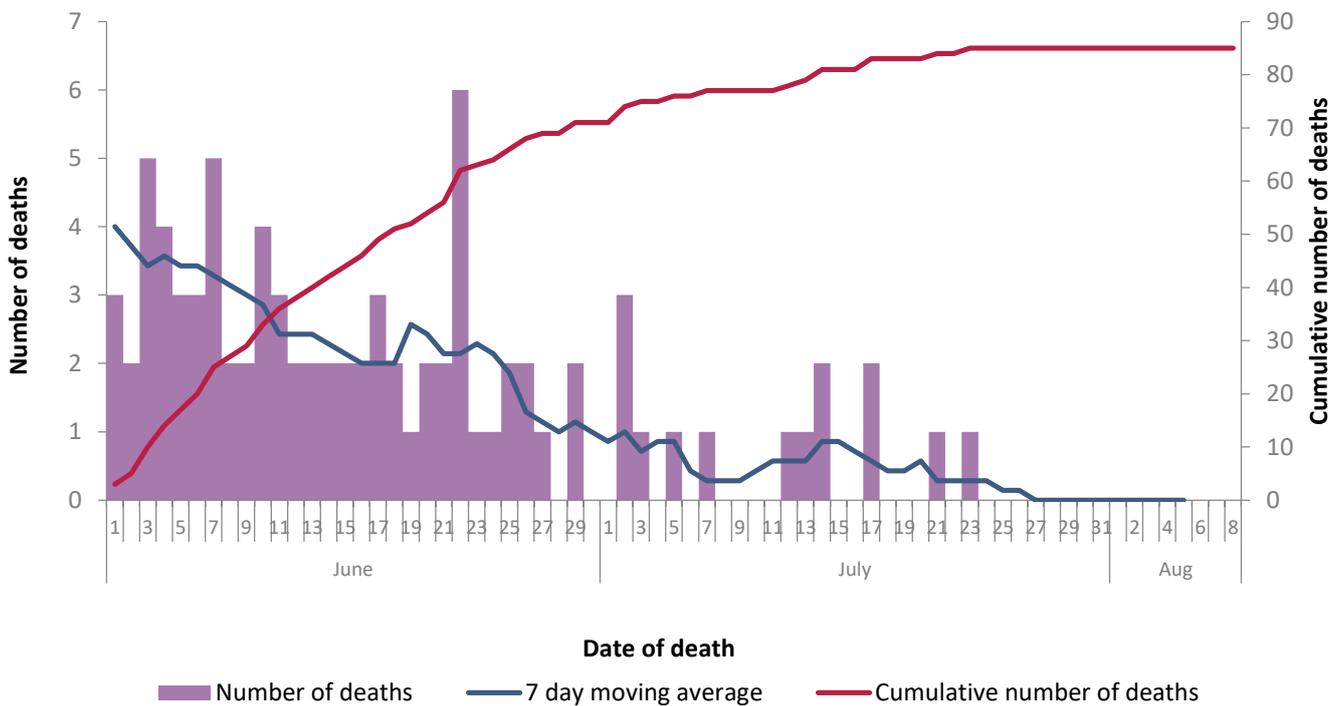


Figure 6b: Daily and 7 day moving average number of deaths among COVID-19 cases notified in Ireland by date of death and cumulative total, 01/06/2020 to midnight 08/08/2020 (n=85)

\* Date of death is not yet available for five 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 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 09:22 on 10/08/2020. 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.
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### 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.