



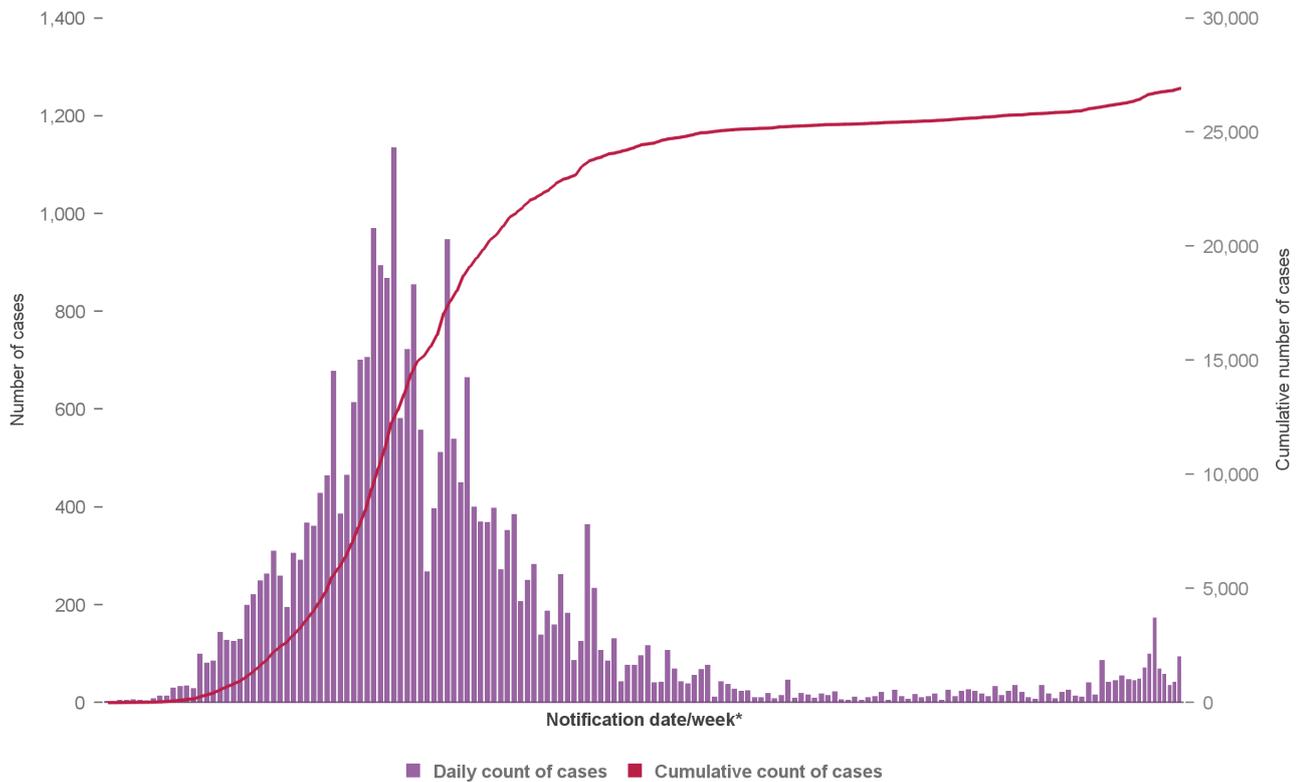
# Epidemiology of COVID-19 in Ireland

Report prepared by HPSC on 14/08/2020 for National Public Health Emergency Team

Summary characteristics of confirmed COVID-19 cases notified in Ireland up to midnight 12/08/2020

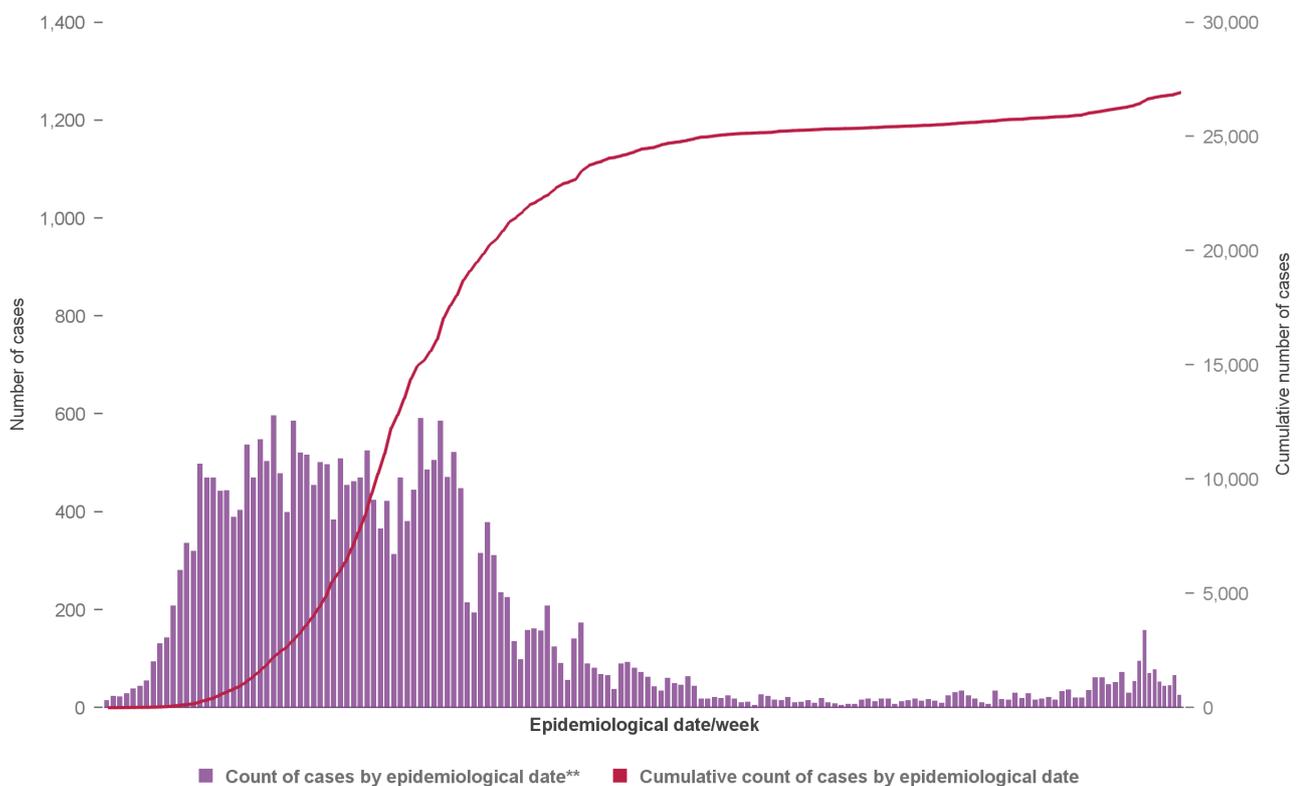
	Number	Percent
Total number of confirmed cases	26,928	
National cumulative incidence of confirmed cases per 100,000 population	565.49	
Total number of cases hospitalised	3,381	12.56
Total number of cases admitted to ICU	441	1.64
Total number of deaths among confirmed cases	1,516	5.63
Case fatality ratio (CFR, %)	5.63	
National cumulative incidence of confirmed deaths per 100,000 population	31.84	
Total number of outbreaks/clusters	2,474	
Total number of cases associated with clusters	14,751	54.78
Total number of imported cases	467	1.73
Number of cases in healthcare workers	8,480	31.49
Males	11,686	43.4
Females	15,213	56.5
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 09:20 on 14/08/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.



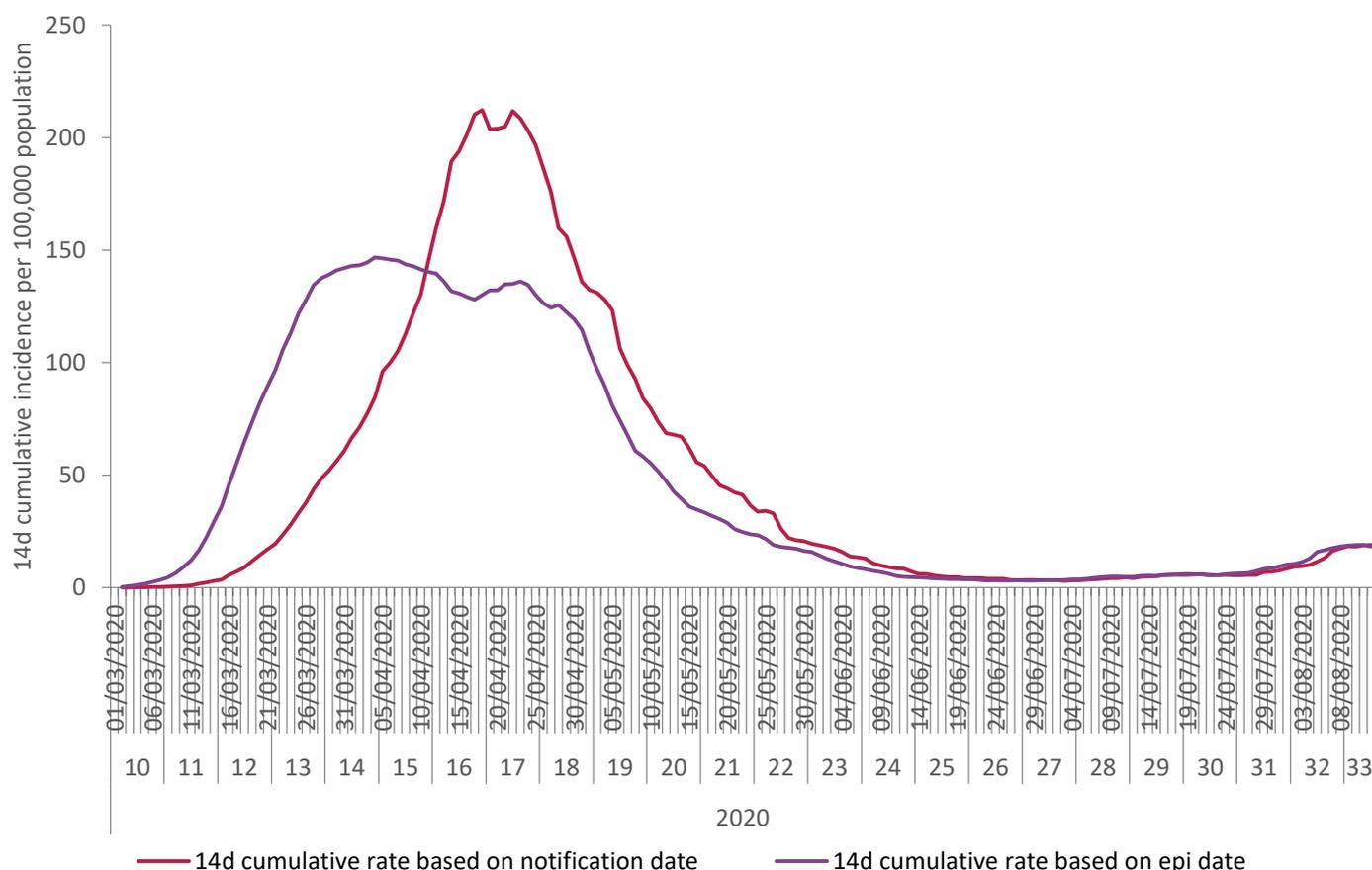
**Figure 1a: Number\* and cumulative number of confirmed COVID-19 cases notified in Ireland by notification date\* to midnight 12/08/2020**

\*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 12/08/2020**

\*\*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 12/08/2020**

\* 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 12/08/2020**

Characteristic		Number of cases	Percent
<b>Total number of confirmed cases</b>		<b>26,928</b>	<b>100</b>
<b>Sex</b>	Male:Female ratio	0.77	
	Male	11,686	43.4
	Female	15,213	56.5
	Unknown	29	0.11
<b>Age</b>	Median age (years)	47	
	Mean age (years)	50	
	Age range (years)	0 - 106	
	0-4 yrs	235	0.87
	5-14 yrs	416	1.54
	15-24 yrs	2,169	8.05
	25-34 yrs	4,650	17.27
	35-44 yrs	4,740	17.6
	45-54 yrs	4,784	17.77
	55-64 yrs	3,353	12.45
	65-74 yrs	1,862	6.91
	75-84 yrs	2,319	8.61
	85+ yrs	2,379	8.83
	Unknown	21	0.08



	0-4	5 - 14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
Female	72.3	63.0	474.7	775.1	714.4	852.7	718.0	448.6	1143.8	3551.1
Male	69.5	60.3	280.3	628.1	549.8	671.9	598.7	549.7	1223.8	3460.2

**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 12/08/2020 (excluding 20 cases for whom age is unknown and 28 cases for whom sex is unknown and 1 case for whom both are unknown)**

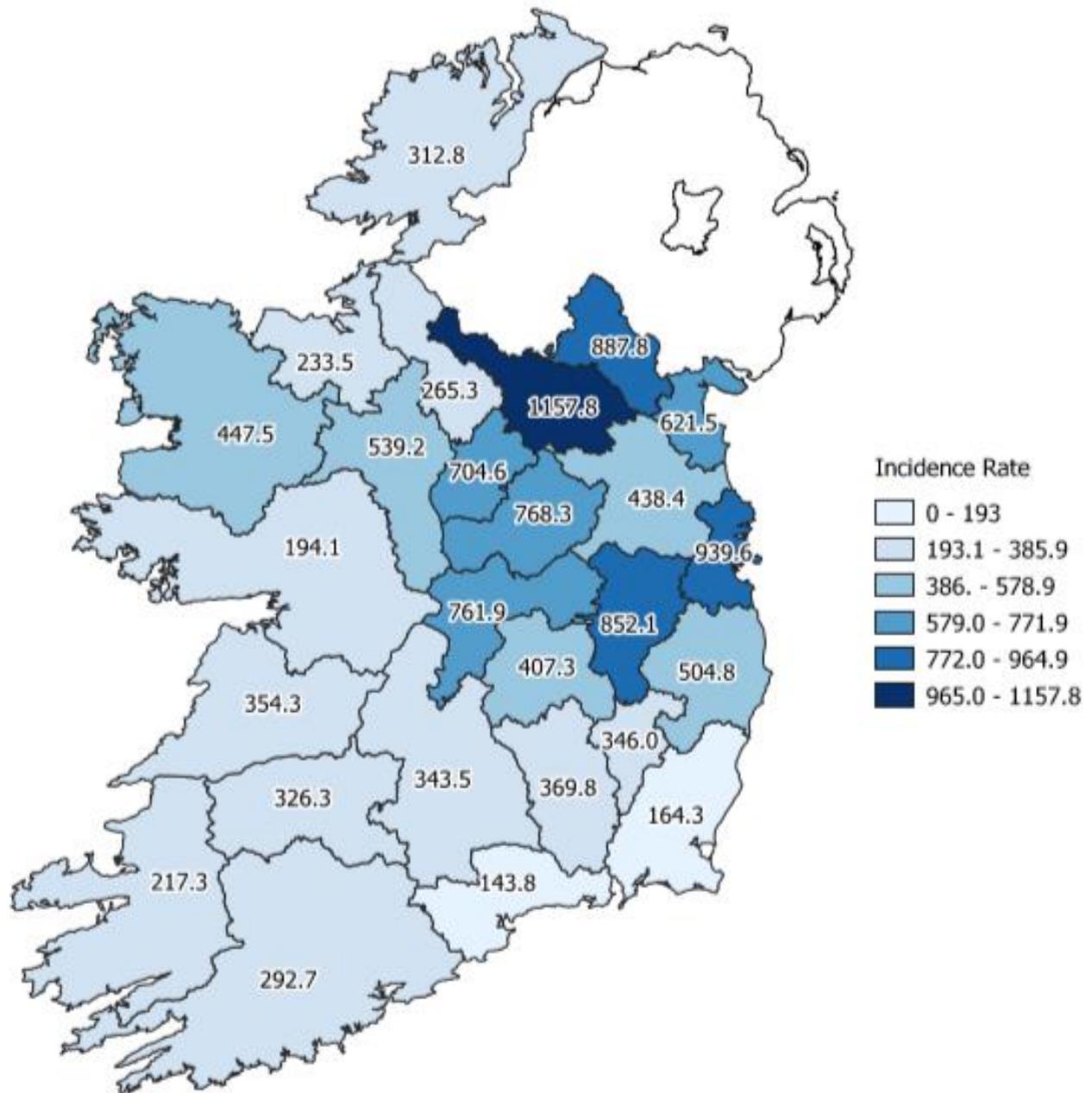


Figure 4: Cumulative incidence rates of confirmed cases of COVID-19 per 100,000 population notified in Ireland to midnight 12/08/2020

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 12/08/2020**

<b>County Name</b>	<b>Number of cases</b>	<b>Percent</b>
Carlow	197	0.73
Cavan	882	3.28
Clare	421	1.56
Cork	1,589	5.9
Donegal	498	1.85
Dublin	12,660	47.01
Galway	501	1.86
Kerry	321	1.19
Kildare	1,896	7.04
Kilkenny	367	1.36
Laois	345	1.28
Leitrim	85	0.32
Limerick	636	2.36
Longford	288	1.07
Louth	801	2.97
Mayo	584	2.17
Meath	855	3.18
Monaghan	545	2.02
Offaly	594	2.21
Roscommon	348	1.29
Sligo	153	0.57
Tipperary	548	2.04
Waterford	167	0.62
Westmeath	682	2.53
Wexford	246	0.91
Wicklow	719	2.67
<b>Total</b>	<b>26,928</b>	<b>100</b>

**Table 3: Number of confirmed COVID-19 cases by WHO transmission classification notified to midnight 12/08/2020**

Transmission classification*	Count of Events	%
Community transmission, incl. possible community transmission	8,235	30.58%
Local transmission, incl. possible local transmission	18,001	66.85%
Travel abroad, incl. possible travel abroad	660	2.45%
Unknown	32	0.12%
<b>Total</b>	<b>26,928</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 12/08/2020**

Age Group (years)	Number of cases (n)	Cases hospitalised (n)	Cases hospitalised (%)	Cases admitted to ICU (n)	Cases admitted to ICU (%)
0-4 yrs	235	24	0.71	0	0
5-14 yrs	416	18	0.53	2	0.45
15-24 yrs	2169	80	2.37	5	1.13
25-34 yrs	4650	203	6	15	3.4
35-44 yrs	4740	276	8.16	37	8.39
45-54 yrs	4784	454	13.43	91	20.63
55-64 yrs	3353	502	14.85	128	29.02
65-74 yrs	1862	593	17.54	109	24.72
75-84 yrs	2319	752	22.24	48	10.88
85+ yrs	2379	478	14.14	6	1.36
Unknown	21	1	0.03	0	0
<b>Total</b>	<b>26,928</b>	<b>3,381</b>	<b>100</b>	<b>441</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 12/08/2020**

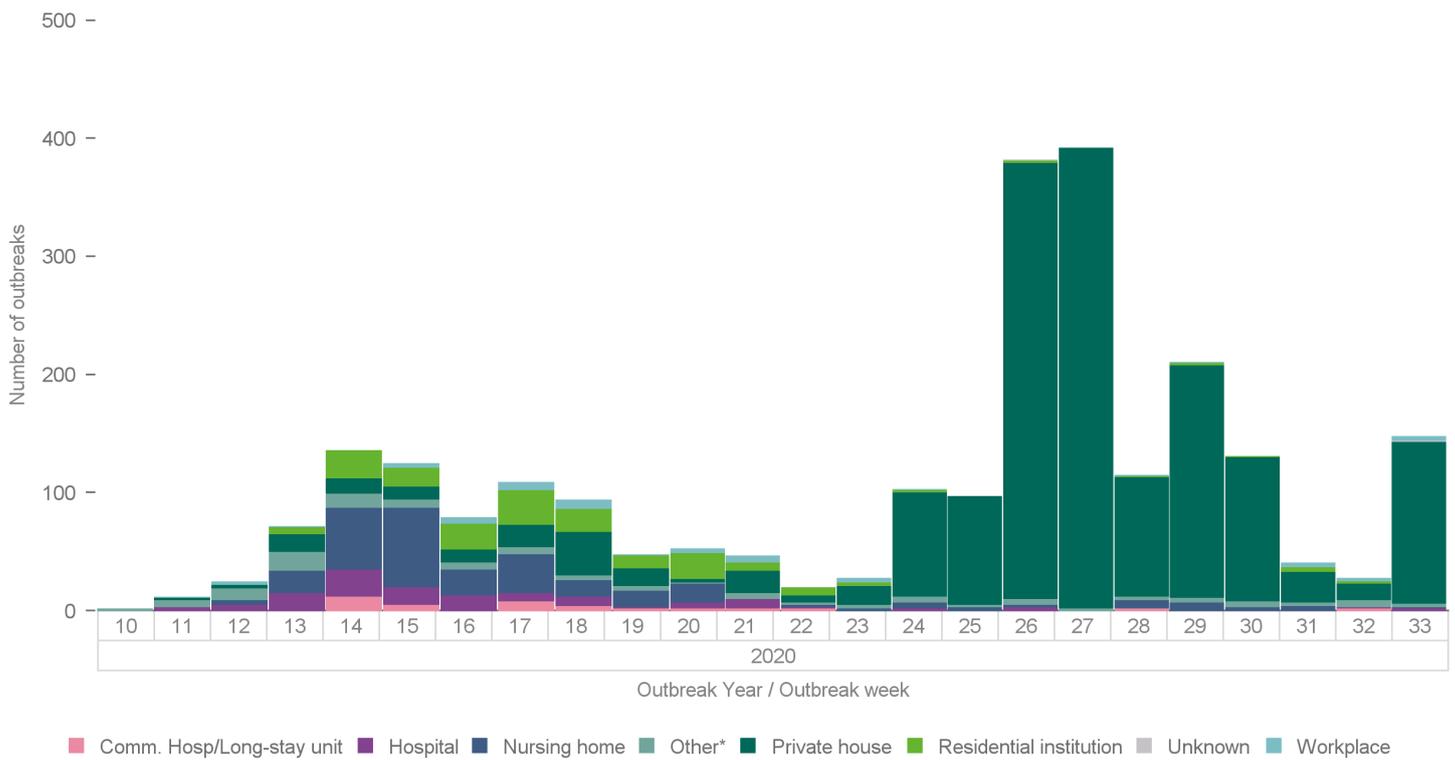
	0-4 yrs	5-14 yrs	15-24 yrs	25-34 yrs	35-44 yrs	45-54 yrs	55-64 yrs	65-74 yrs	75-84 yrs	85+ yrs	Unknown
Number of cases (n)	235	416	2,169	4,650	4,740	4,784	3,353	1,862	2,319	2,379	21
Cases hospitalised (n)	24	18	80	203	276	454	502	593	752	478	1
Cases hospitalised (%)	10.21	4.33	3.69	4.37	5.82	9.49	14.97	31.85	32.43	20.09	4.76
Cases admitted to ICU (n)	0	2	5	15	37	91	128	109	48	6	0
Cases admitted to ICU (%)	0	0.48	0.23	0.32	0.78	1.9	3.82	5.85	2.07	0.25	0
Deaths (n)	0	0	1	5	12	24	68	228	519	659	0
Case fatality ratio (%)	0	0	0.05	0.11	0.25	0.5	2.03	12.24	22.38	27.7	0

## Outbreaks of COVID-19

**Table 6: Number of clusters/outbreaks COVID-19 by location and HSE area notified to midnight 12/08/2020**

Outbreak Location	E	HPSC	M	MW	NE	NW	S	SE	W	Total
Private house	1,203		6	96	122	54	116	81	28	<b>1,706</b>
Nursing home	131		10	17	42	5	14	17	36	<b>272</b>
Residential institution	105		10	8	18	4	21	10	4	<b>180</b>
Other*	13	2	8	33	7	8	29	11	9	<b>120</b>
Hospital	62		3	3	14	2	10	5	6	<b>105</b>
Workplace	13		9	6	14	1	8	3	4	<b>58</b>
Comm. Hosp/Long-stay unit	5		4	2		4	6	5	5	<b>31</b>
Unknown	1						1			<b>2</b>
<b>Total</b>	<b>1,533</b>	<b>2</b>	<b>50</b>	<b>165</b>	<b>217</b>	<b>78</b>	<b>205</b>	<b>132</b>	<b>92</b>	<b>2,474</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 12/08/2020**

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

Note: 1,644 COVID-19 outbreaks were reported on CIDR between week 24 and week 33 2020 (June 9th to 12th August). Of these, 1,560 were family outbreaks. Most of these family outbreaks occurred earlier and were reported between weeks 24 and 33 as a result of data validation: 1 occurred in February, 636 in March, 475 in April, 99 in May, 13 in June, 44 in July and 17 in August.

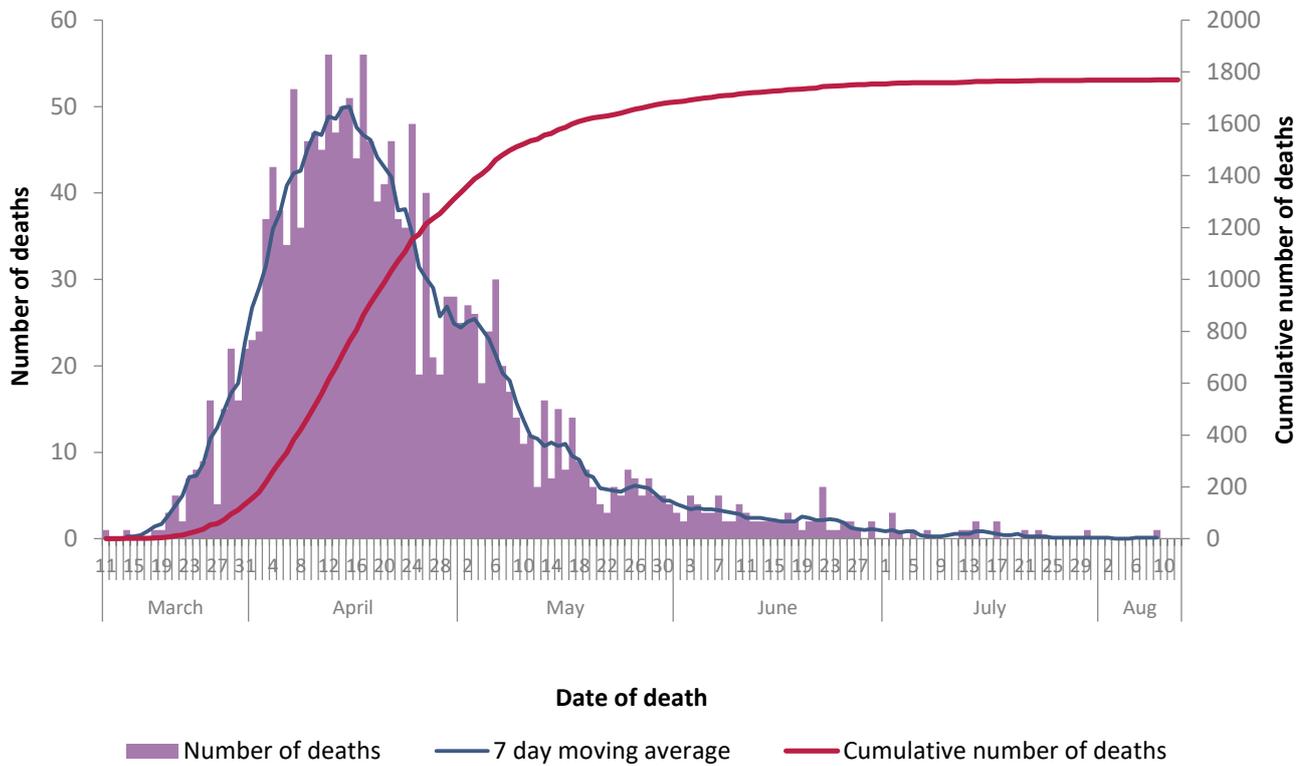
## Deaths among COVID-19 cases

Table 7: Summary of deaths in all COVID-19 cases notified in Ireland up to midnight 12/08/2020

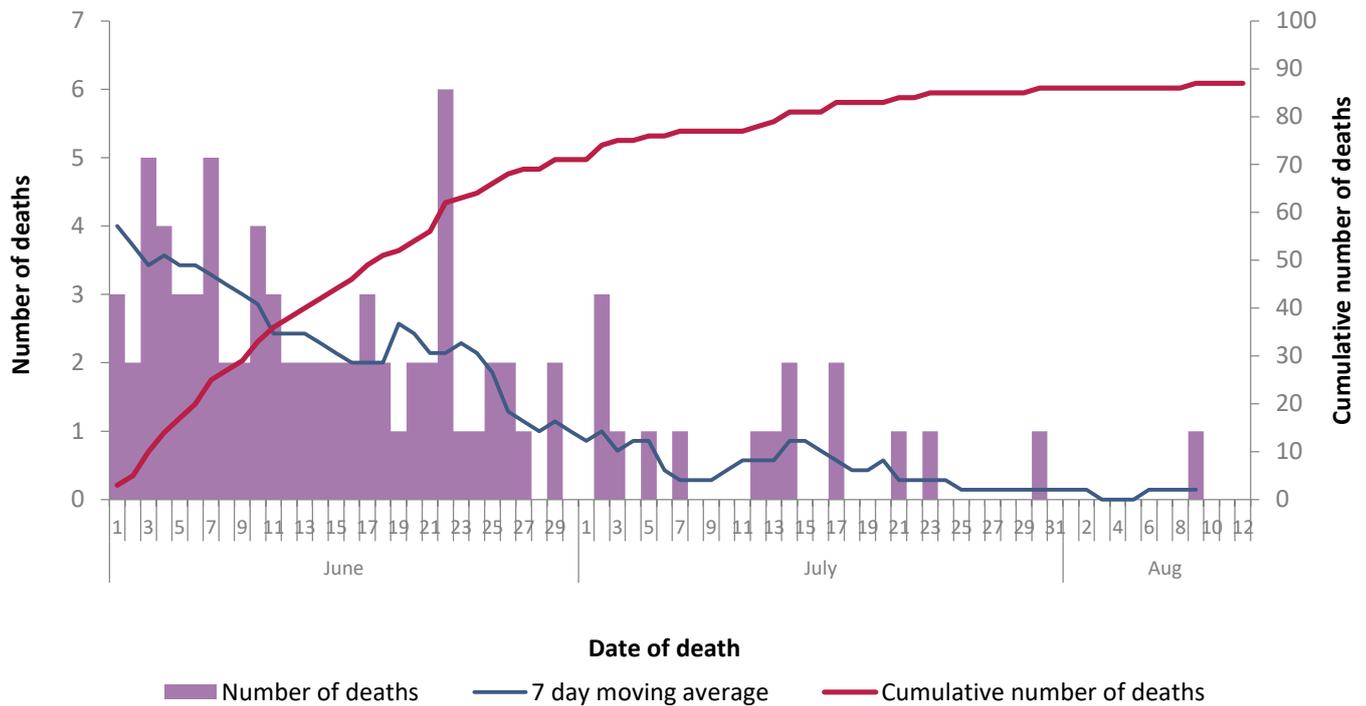
	Number	Percent
Total number of deaths	1,774	
Confirmed	1,516	85.46
Probable	99	5.58
Possible	159	8.96
Total number of cases hospitalised	755	42.56
Cases admitted to ICU	93	5.24
Cases not admitted to ICU	662	37.32
Total number of imported cases	6	0.34
Number of cases in healthcare workers	8	0.45
Number with underlying clinical conditions	1,674	94.36
Total number of male cases	872	49.15
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 12/08/2020

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	26	47	73	4.11
65-74 yrs	93	160	253	14.26
75-84 yrs	279	324	603	33.99
85+ yrs	483	315	798	44.98
Unknown	<5	<5	2	0.11
<b>Total</b>	<b>902</b>	<b>872</b>	<b>1,774</b>	<b>100</b>
<b>Percent</b>	<b>50.85</b>	<b>49.15</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 12/08/2020**



**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 12/08/2020 (n=87)**

\* 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 09:20 on 8/14/20. 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.
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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.