



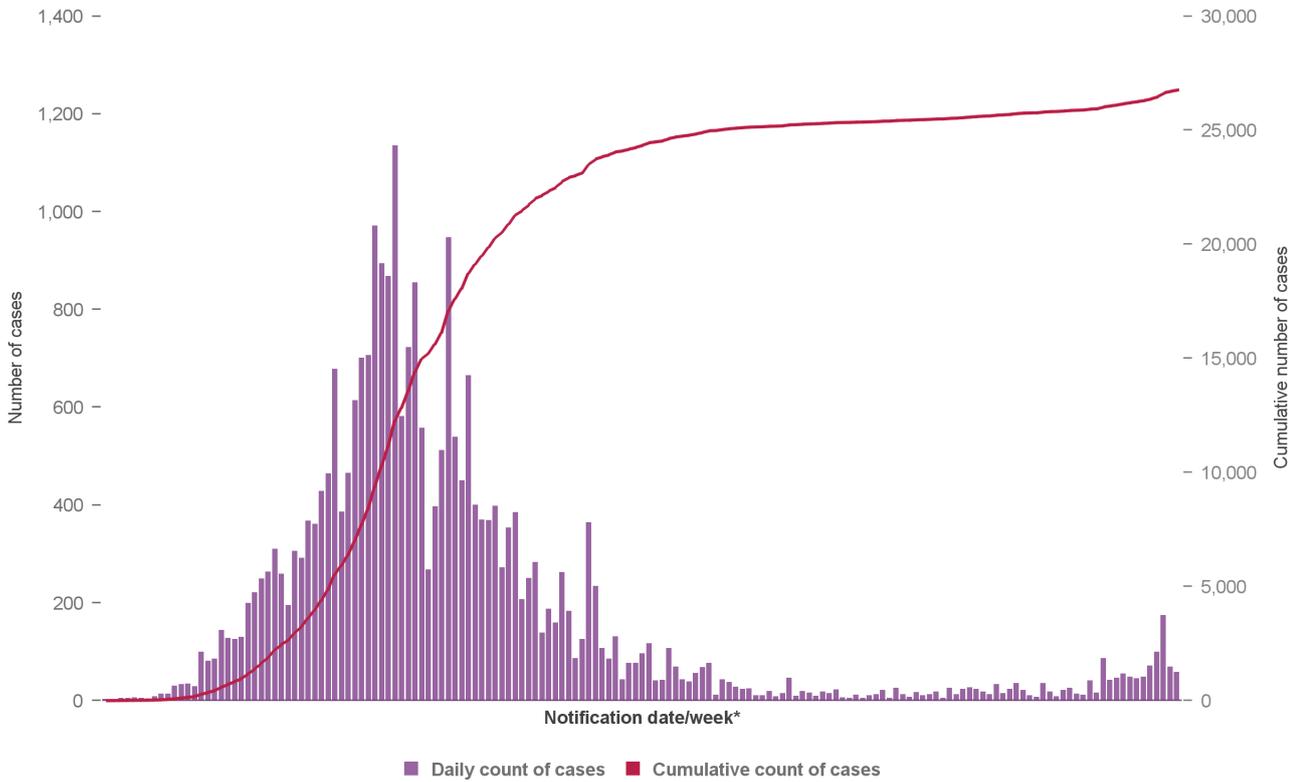
# Epidemiology of COVID-19 in Ireland

Report prepared by HPSC on 11/08/2020 for National Public Health Emergency Team

Summary characteristics of confirmed COVID-19 cases notified in Ireland up to midnight 09/08/2020

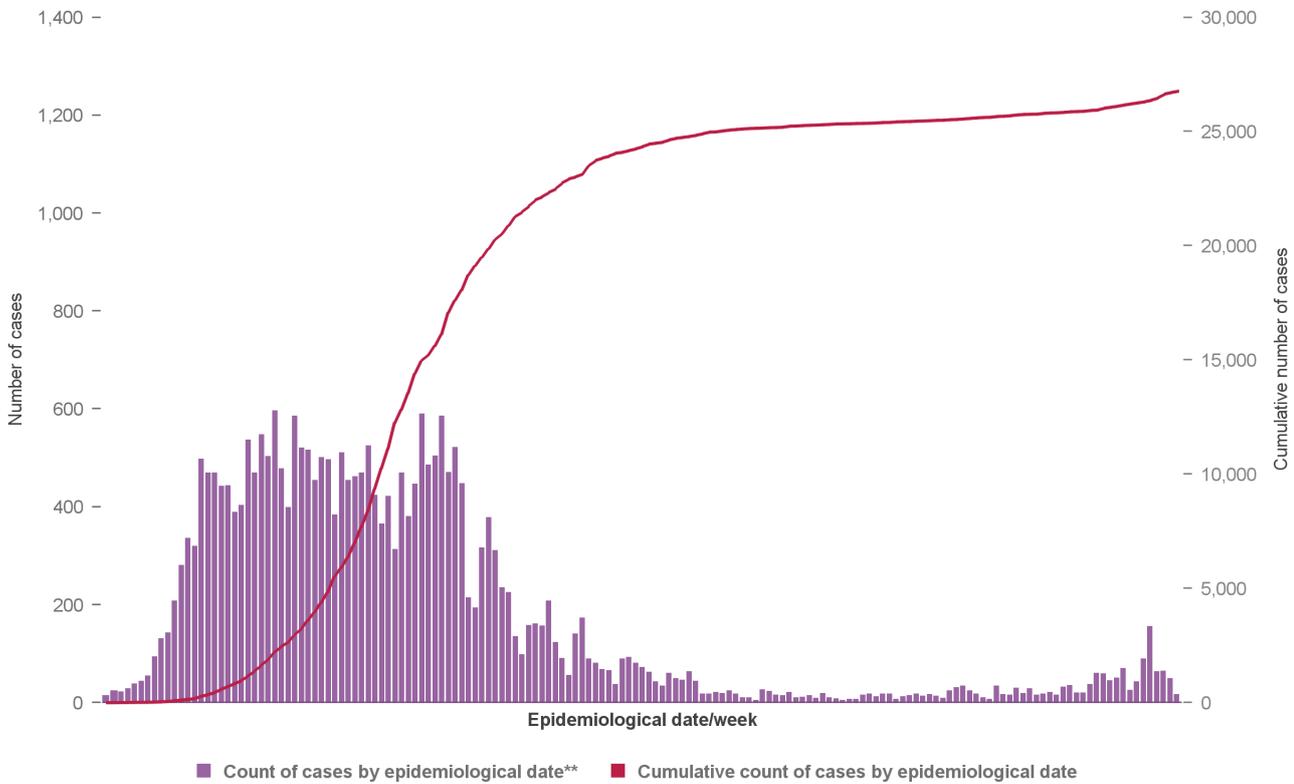
	Number	Percent
Total number of confirmed cases	26,767	
National cumulative incidence of confirmed cases per 100,000 population	562.11	
Total number of cases hospitalised	3,372	12.6
Total number of cases admitted to ICU	439	1.64
Total number of deaths among confirmed cases	1,515	5.66
Case fatality ratio (CFR, %)	5.66	
National cumulative incidence of confirmed deaths per 100,000 population	31.84	
Total number of outbreaks/clusters	2,334	
Total number of cases associated with clusters	14,476	54.08
Total number of imported cases	462	1.73
Number of cases in healthcare workers	8,467	31.63
Males	11,611	43.38
Females	15,128	56.52
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 11:07 on 11/08/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.



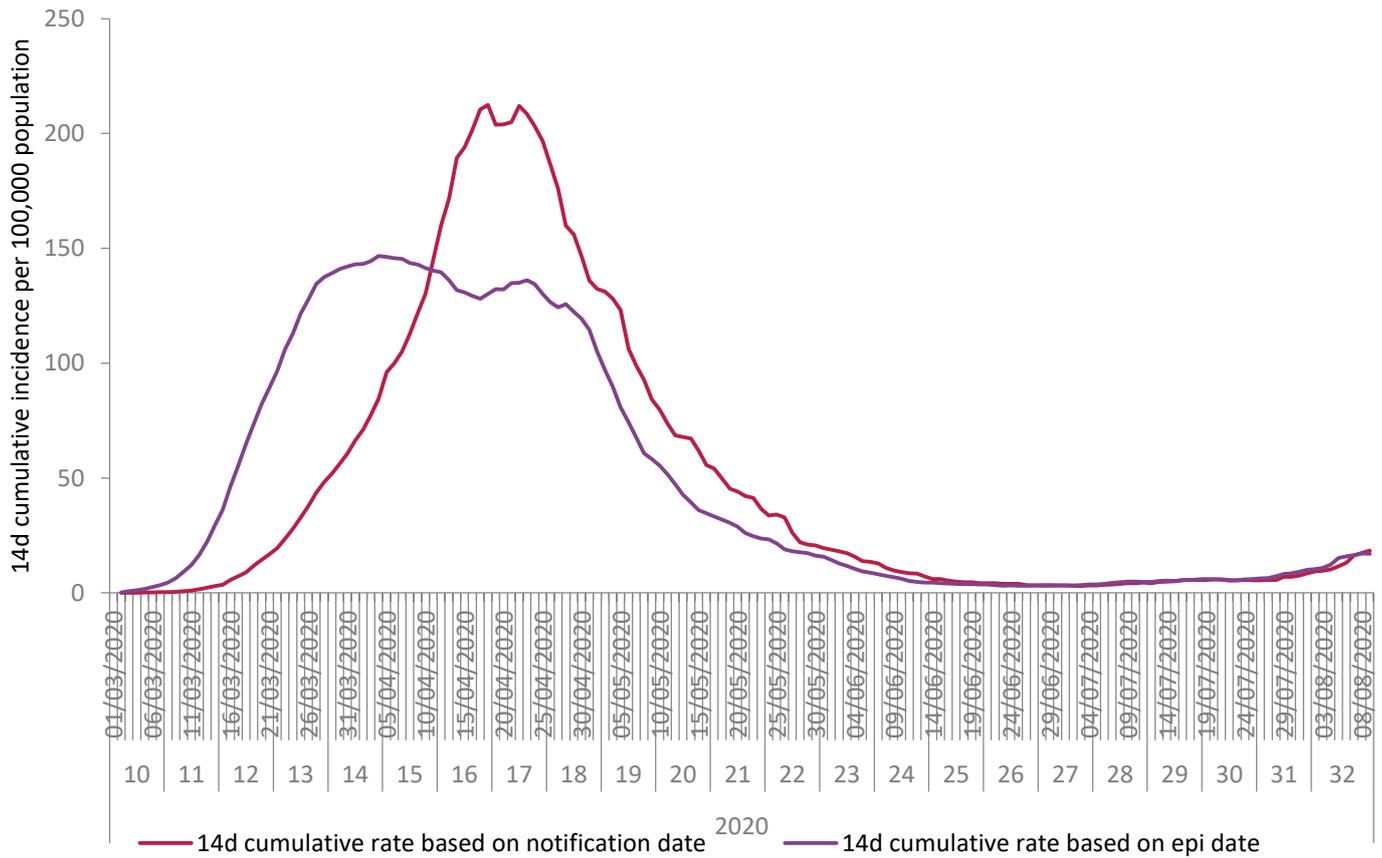
**Figure 1a: Number\* and cumulative number of confirmed COVID-19 cases notified in Ireland by notification date\* to midnight 09/08/2020**

\*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 09/08/2020**

\*\*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.



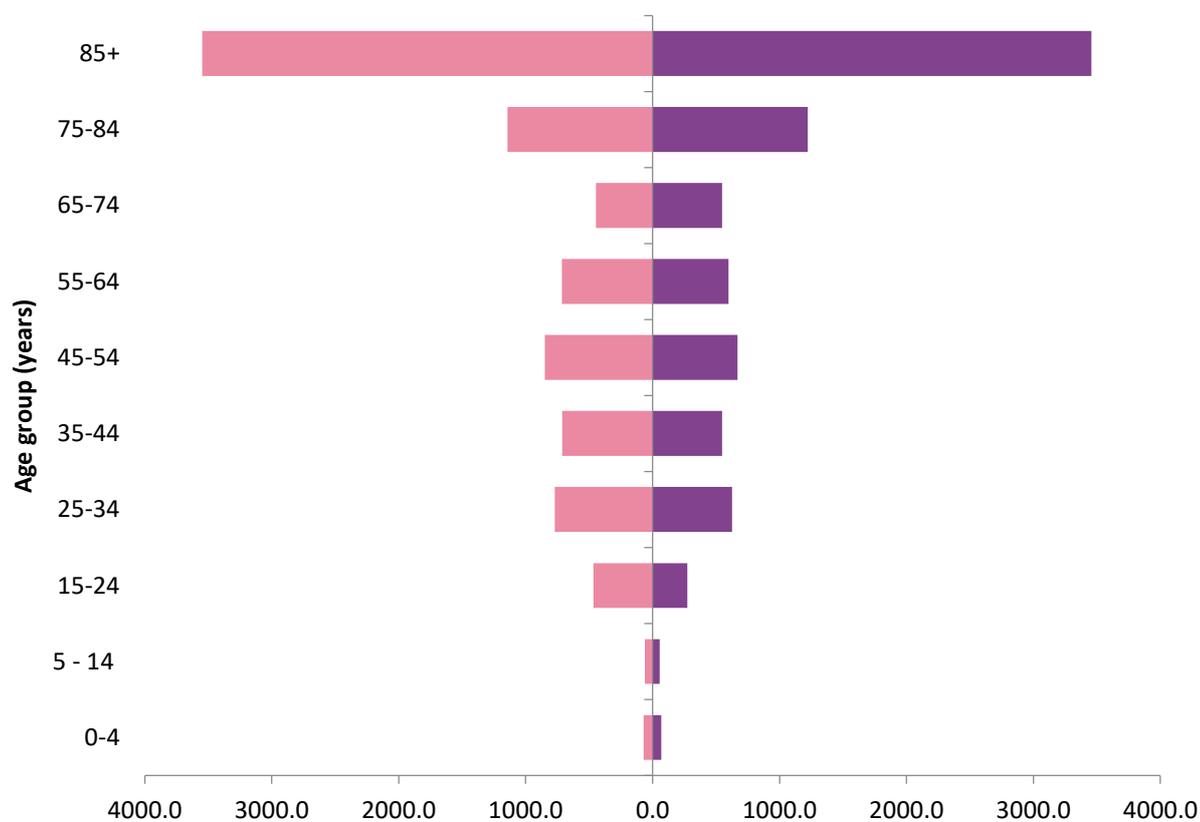
**Figure 2: Cumulative 14 day incidence rate of confirmed COVID-19 cases per 100,000 population notified in Ireland by notification\* and epidemiological date\*\* to midnight 09/08/2020**

\* 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 09/08/2020**

Characteristic		Number of cases	Percent
<b>Total number of confirmed cases</b>		<b>26,767</b>	<b>100</b>
<b>Sex</b>	Male:Female ratio	0.77	
	Male	11,611	43.38
	Female	15,128	56.52
	Unknown	28	0.1
<b>Age</b>	Median age (years)	47	
	Mean age (years)	50	
	Age range (years)	0 - 106	
	0-4 yrs	229	0.86
	5-14 yrs	399	1.49
	15-24 yrs	2,124	7.94
	25-34 yrs	4,623	17.27
	35-44 yrs	4,719	17.63
	45-54 yrs	4,761	17.79
	55-64 yrs	3,343	12.49
	65-74 yrs	1,855	6.93
	75-84 yrs	2,316	8.65
	85+ yrs	2,377	8.88
	Unknown	21	0.08

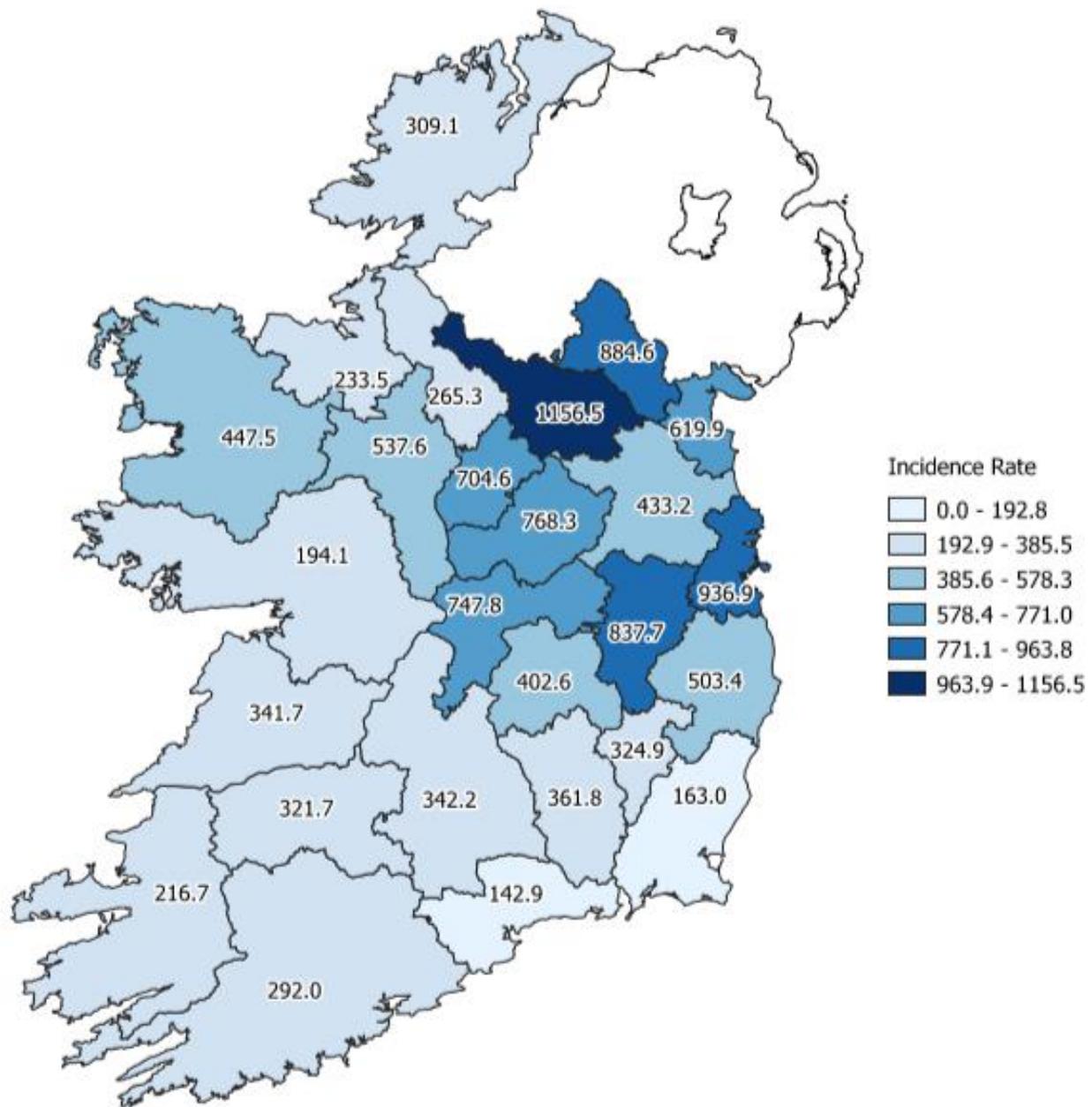


	0-4	5 - 14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
Female	70.5	61.8	466.3	770.1	711.8	847.9	715.7	446.5	1142.8	3548.9
Male	67.8	56.5	273.2	625.0	547.0	669.4	597.1	548.1	1221.5	3455.9

**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 09/08/2020 (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 09/08/2020**

*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 09/08/2020**

<b>County Name</b>	<b>Number of cases</b>	<b>Percent</b>
Carlow	185	0.69
Cavan	881	3.29
Clare	406	1.52
Cork	1,585	5.92
Donegal	492	1.84
Dublin	12,624	47.16
Galway	501	1.87
Kerry	320	1.2
Kildare	1,864	6.96
Kilkenny	359	1.34
Laois	341	1.27
Leitrim	85	0.32
Limerick	627	2.34
Longford	288	1.08
Louth	799	2.99
Mayo	584	2.18
Meath	845	3.16
Monaghan	543	2.03
Offaly	583	2.18
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	717	2.68
<b>Total</b>	<b>26,767</b>	<b>100</b>

**Table 3: Number of confirmed COVID-19 cases by WHO transmission classification notified to midnight 09/08/2020**

Transmission classification*	Count of Events	%
Community transmission, incl. possible community transmission	8,211	30.68%
Local transmission, incl. possible local transmission	17,826	66.60%
Travel abroad, incl. possible travel abroad	657	2.45%
Unknown	73	0.27%
<b>Total</b>	<b>26,767</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 09/08/2020**

Age Group (years)	Number of cases (n)	Cases hospitalised (n)	Cases hospitalised (%)	Cases admitted to ICU (n)	Cases admitted to ICU (%)
0-4 yrs	229	24	0.71	0	0
5-14 yrs	399	18	0.53	2	0.46
15-24 yrs	2124	77	2.28	5	1.14
25-34 yrs	4623	201	5.96	15	3.42
35-44 yrs	4719	276	8.19	37	8.43
45-54 yrs	4761	454	13.46	91	20.73
55-64 yrs	3343	501	14.86	127	28.93
65-74 yrs	1855	593	17.59	109	24.83
75-84 yrs	2316	750	22.24	47	10.71
85+ yrs	2377	477	14.15	6	1.37
Unknown	21	1	0.03	0	0
<b>Total</b>	<b>26,767</b>	<b>3,372</b>	<b>100</b>	<b>439</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 09/08/2020**

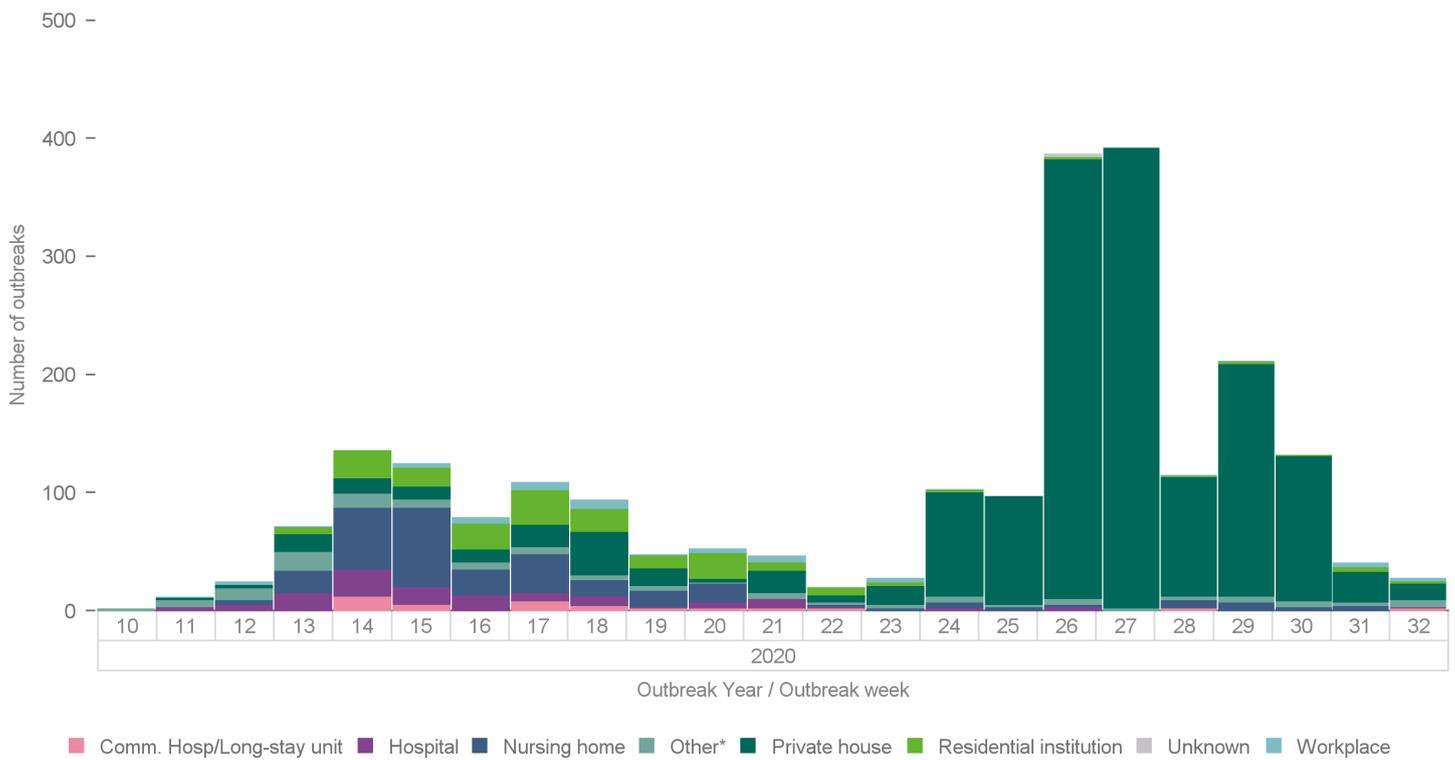
	0-4 yrs	5-14 yrs	15-24 yrs	25-34 yrs	35-44 yrs	45-54 yrs	55-64 yrs	65-74 yrs	75-84 yrs	85+ yrs	Unknown
Number of cases (n)	229	399	2,124	4,623	4,719	4,761	3,343	1,855	2,316	2,377	21
Cases hospitalised (n)	24	18	77	201	276	454	501	593	750	477	1
Cases hospitalised (%)	10.48	4.51	3.63	4.35	5.85	9.54	14.99	31.97	32.38	20.07	4.76
Cases admitted to ICU (n)	0	2	5	15	37	91	127	109	47	6	0
Cases admitted to ICU (%)	0	0.5	0.24	0.32	0.78	1.91	3.8	5.88	2.03	0.25	0
Deaths (n)	0	0	1	5	12	24	67	228	519	659	0
Case fatality ratio (%)	0	0	0.05	0.11	0.25	0.5	2	12.35	22.41	27.72	0

## Outbreaks of COVID-19

**Table 6: Number of clusters/outbreaks COVID-19 by location and HSE area notified to midnight 09/08/2020**

Outbreak Location	E	HPSC	M	MW	NE	NW	S	SE	W	Total
Private house	1,078		6	94	122	54	113	78	28	<b>1,573</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>1,409</b>	<b>2</b>	<b>48</b>	<b>160</b>	<b>216</b>	<b>78</b>	<b>201</b>	<b>128</b>	<b>92</b>	<b>2,334</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 09/08/2020**

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

Note: 1,543 COVID-19 outbreaks were reported on CIDR between week 24 and week 33 2020 (June 7th to 9th August). Of these, 1,476 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, 605 in March, 457 in April, 97 in May, 13 in June, 33 in July and 5 in August

## Deaths among COVID-19 cases

**Table 16: Summary of deaths in all COVID-19 cases notified in Ireland up to midnight 09/08/2020**

	Number	Percent
Total number of deaths	1,773	
Confirmed	1,515	85.46
Probable	99	5.58
Possible	159	8.96
Total number of cases hospitalised	755	42.56
Cases admitted to ICU	92	5.19
Cases not admitted to ICU	663	37.37
Total number of imported cases	6	0.34
Number of cases in healthcare workers	8	0.45
Number with underlying clinical conditions	1,674	94.36
Total number of male cases	873	49.21
M:F ratio	0.97	
Median age (years)	84	
Mean age (years)	82	
Age range (years)	17 - 105	

**Table 17: Number of deaths in all COVID-19 cases by sex and age group notified in Ireland up to midnight 09/08/2020**

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	14.27
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>901</b>	<b>873</b>	<b>1,773</b>	<b>100</b>
<b>Percent</b>	<b>50.79</b>	<b>49.21</b>		

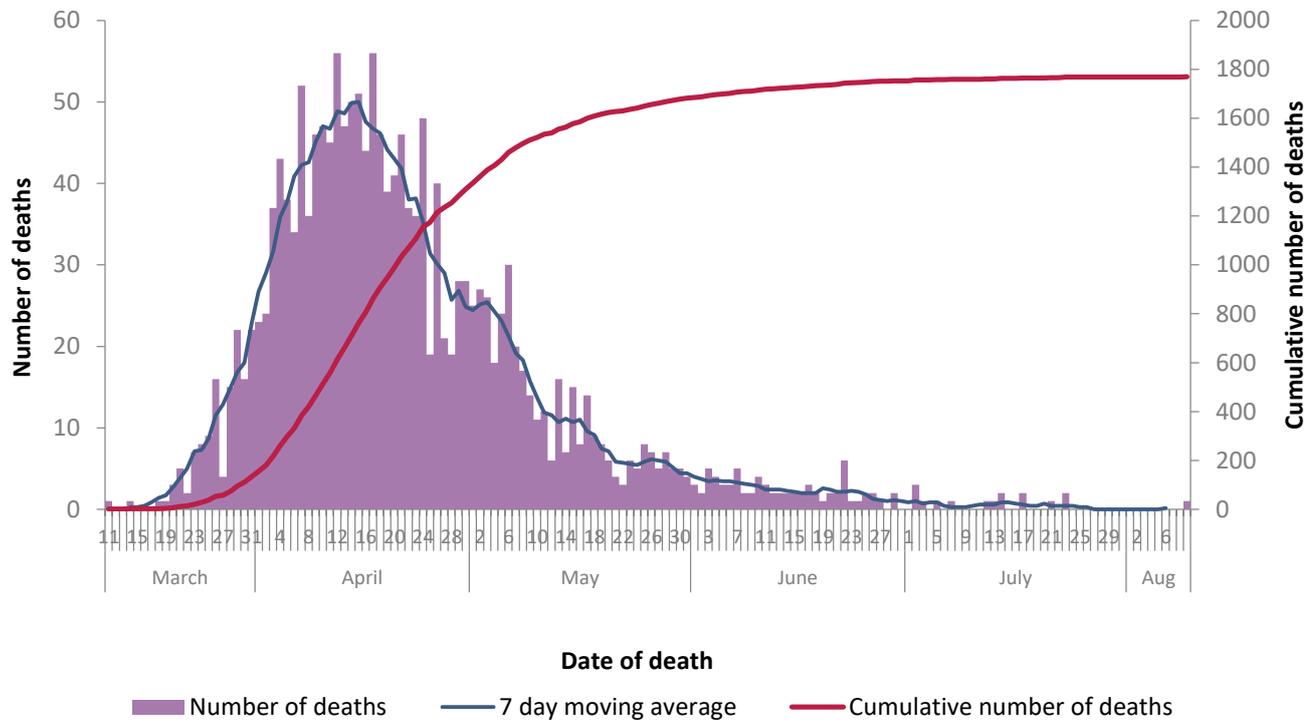


Figure 6: Daily and 7 day moving average number of deaths among COVID-19 cases notified in Ireland by date of death and cumulative total to midnight 09/08/2020

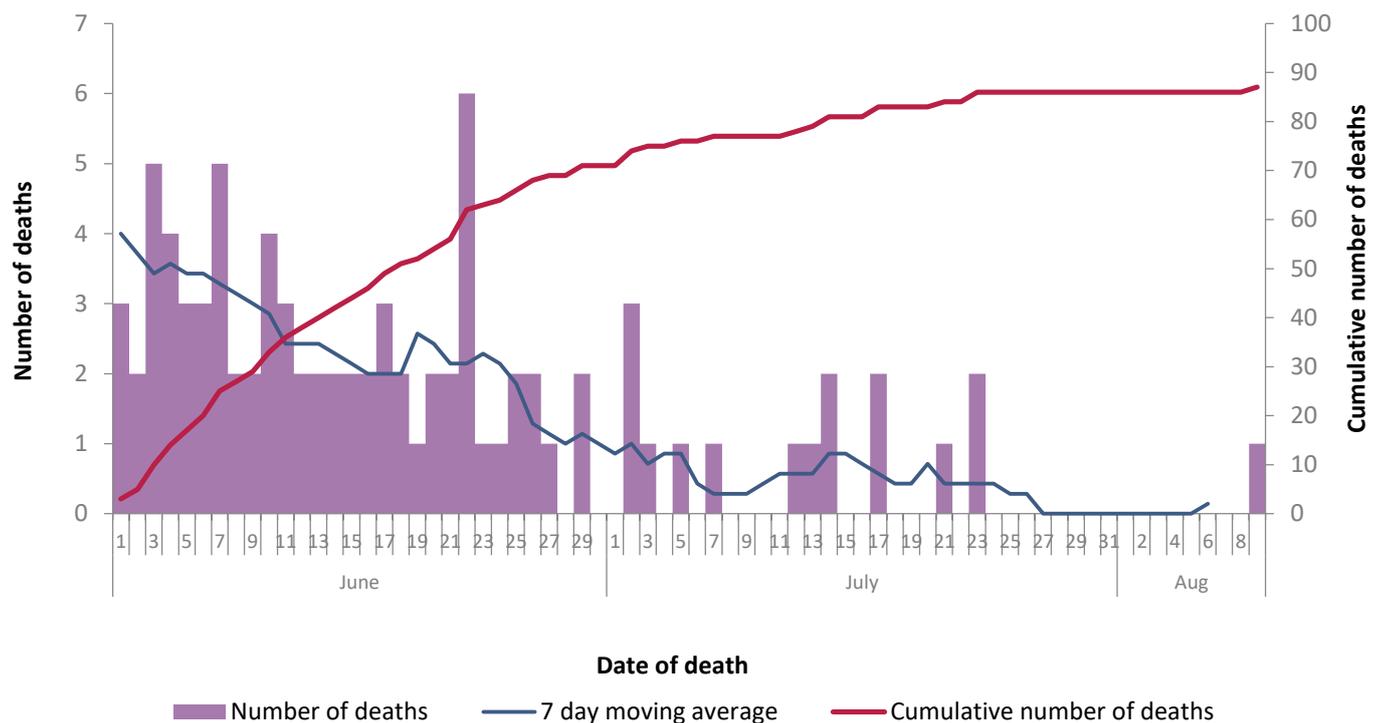


Figure 6b: Daily and 7 day moving average number of deaths among COVID-19 cases notified in Ireland by date of death and cumulative total, 01/06/2020 to midnight 09/08/2020, n=87

\* 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 11:07 on 8/11/20. 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.
- 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.