



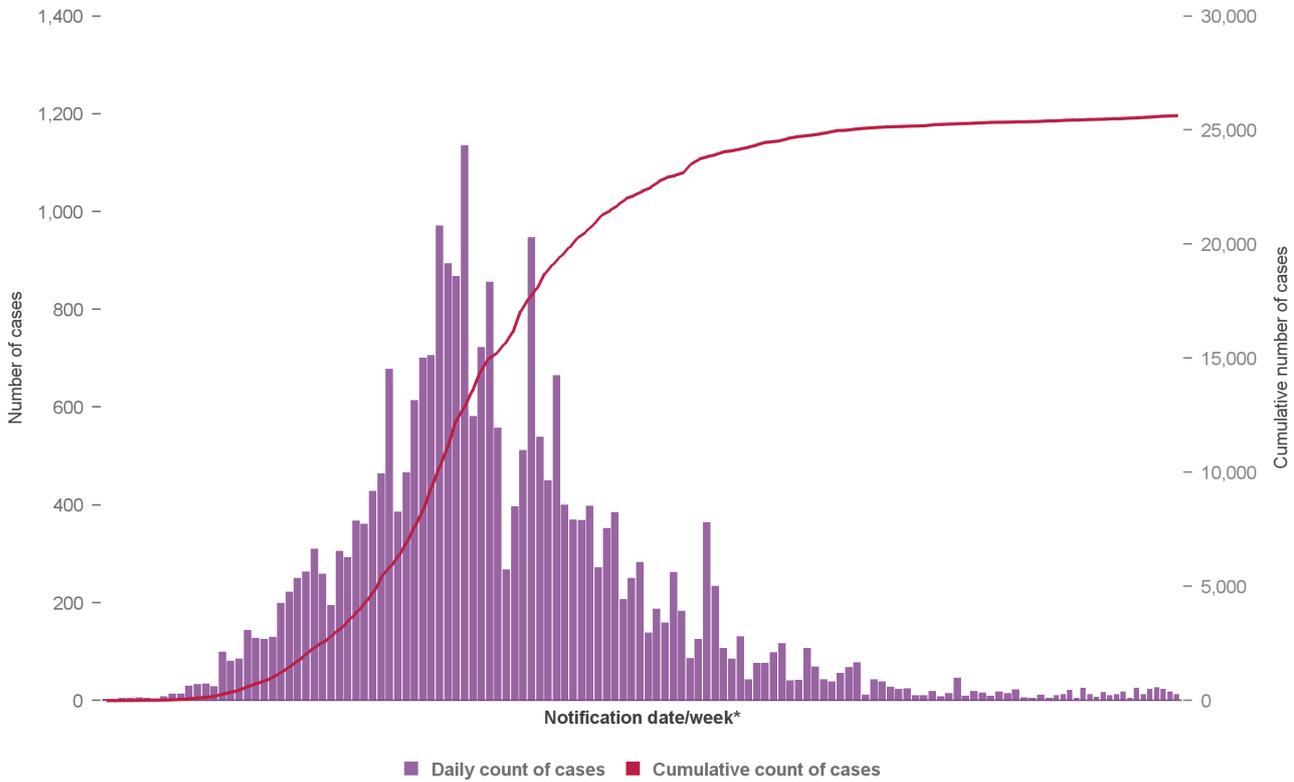
# Epidemiology of COVID-19 in Ireland

Report prepared by HPSC on 14/07/2020 for National Public Health Emergency Team

Summary characteristics of confirmed COVID-19 cases notified in Ireland up to midnight 12/07/2020

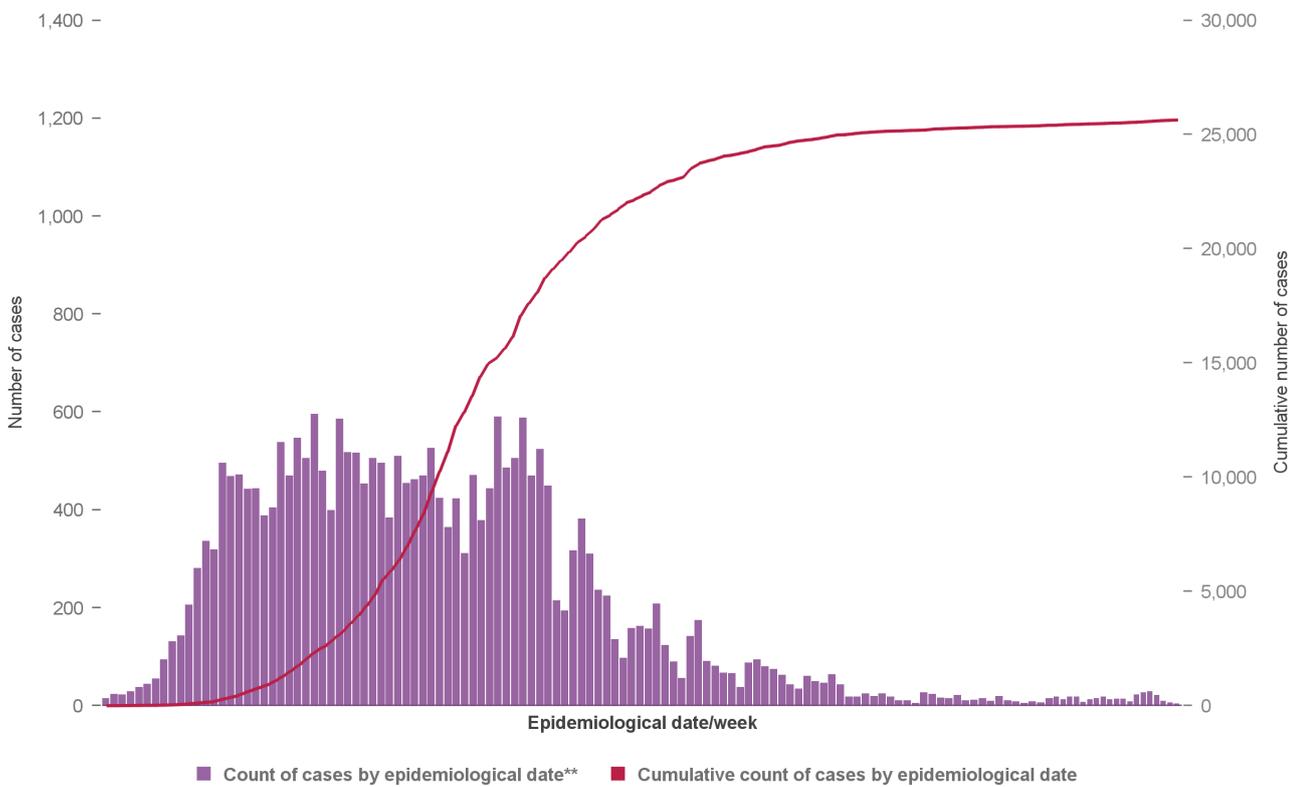
	Number	Percent
Total number of confirmed cases	25,638	
National cumulative incidence of confirmed cases per 100,000 population	538.4	
Total number of cases hospitalised	3,332	13
Total number of cases admitted to ICU	436	1.7
Total number of deaths among confirmed cases	1,487	5.8
Case fatality ratio (CFR, %)	5.8	
National cumulative incidence of confirmed deaths per 100,000 population	31.23	
Total number of outbreaks/clusters	1,933	
Total number of cases associated with clusters	13,208	51.52
Total number of imported cases	417	1.63
Number of cases in healthcare workers	8,293	32.35
Males	10,958	42.74
Females	14,650	57.14
M:F ratio	0.75	
Median age (years)	48	
Mean age (years)	50	
Age range (years)	0 - 106	

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 09:15 on 14/07/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.



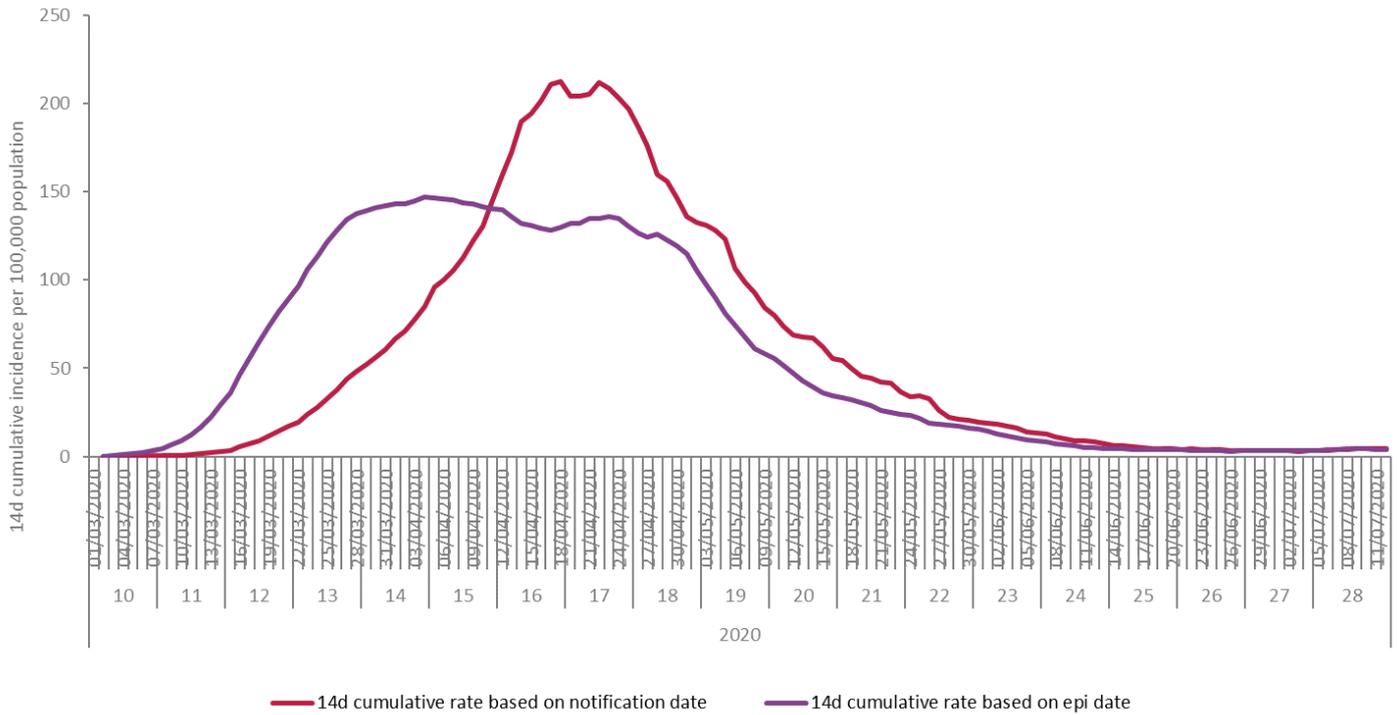
**Figure 1a: Number\* and cumulative number of confirmed COVID-19 cases notified in Ireland by notification date\* to midnight 12/07/2020**

\*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 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 12/07/2020**

\*\*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.



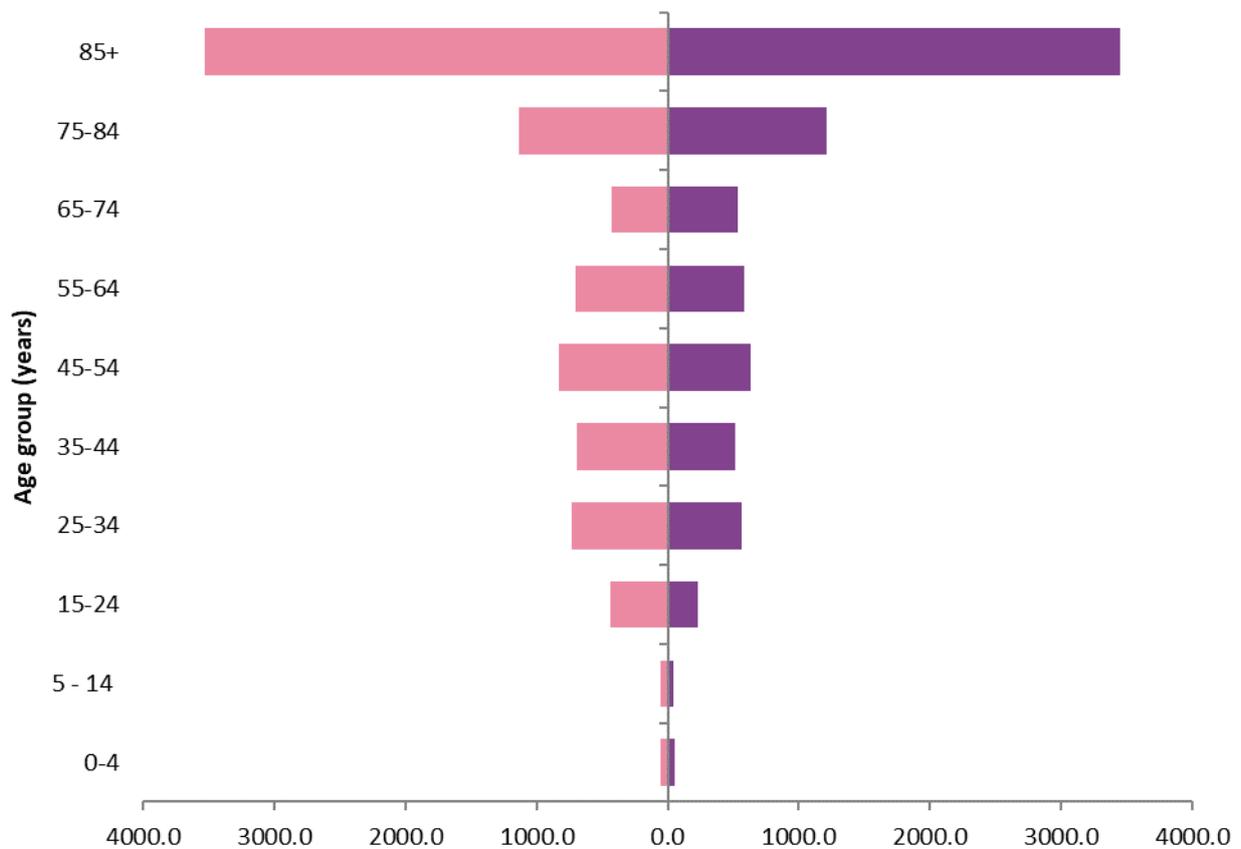
**Figure 2: Cumulative 14 day incidence rate of confirmed COVID-19 cases per 100,000 population notified in Ireland by notification\* and epidemiological date\*\* to midnight 12/07/2020**

\* 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 12/07/2020**

Characteristic		Number of cases	Percent
<b>Total number of confirmed cases</b>		<b>25,638</b>	<b>100</b>
<b>Sex</b>	Male:Female ratio	0.75	
	Male	10,958	42.74
	Female	14,650	57.14
	Unknown	30	0.12
<b>Age</b>	Median age (years)	48	
	Mean age (years)	50	
	Age range (years)	0 - 106	
	0-4 yrs	179	0.7
	5-14 yrs	336	1.31
	15-24 yrs	1,942	7.57
	25-34 yrs	4,319	16.85
	35-44 yrs	4,512	17.6
	45-54 yrs	4,588	17.9
	55-64 yrs	3,263	12.73
	65-74 yrs	1,810	7.06
	75-84 yrs	2,297	8.96
	85+ yrs	2,370	9.24
	Unknown	22	0.09



	0-4	5 - 14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
Female	55.6	51.2	442.0	736.3	689.6	826.0	701.2	432.2	1131.6	3533.1
Male	52.4	48.4	234.2	565.3	513.7	635.9	580.1	538.3	1213.7	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 12/07/2020 (excluding 22 cases for whom age is unknown and 30 cases for whom sex is unknown and 1 case for whom both is unknown)**

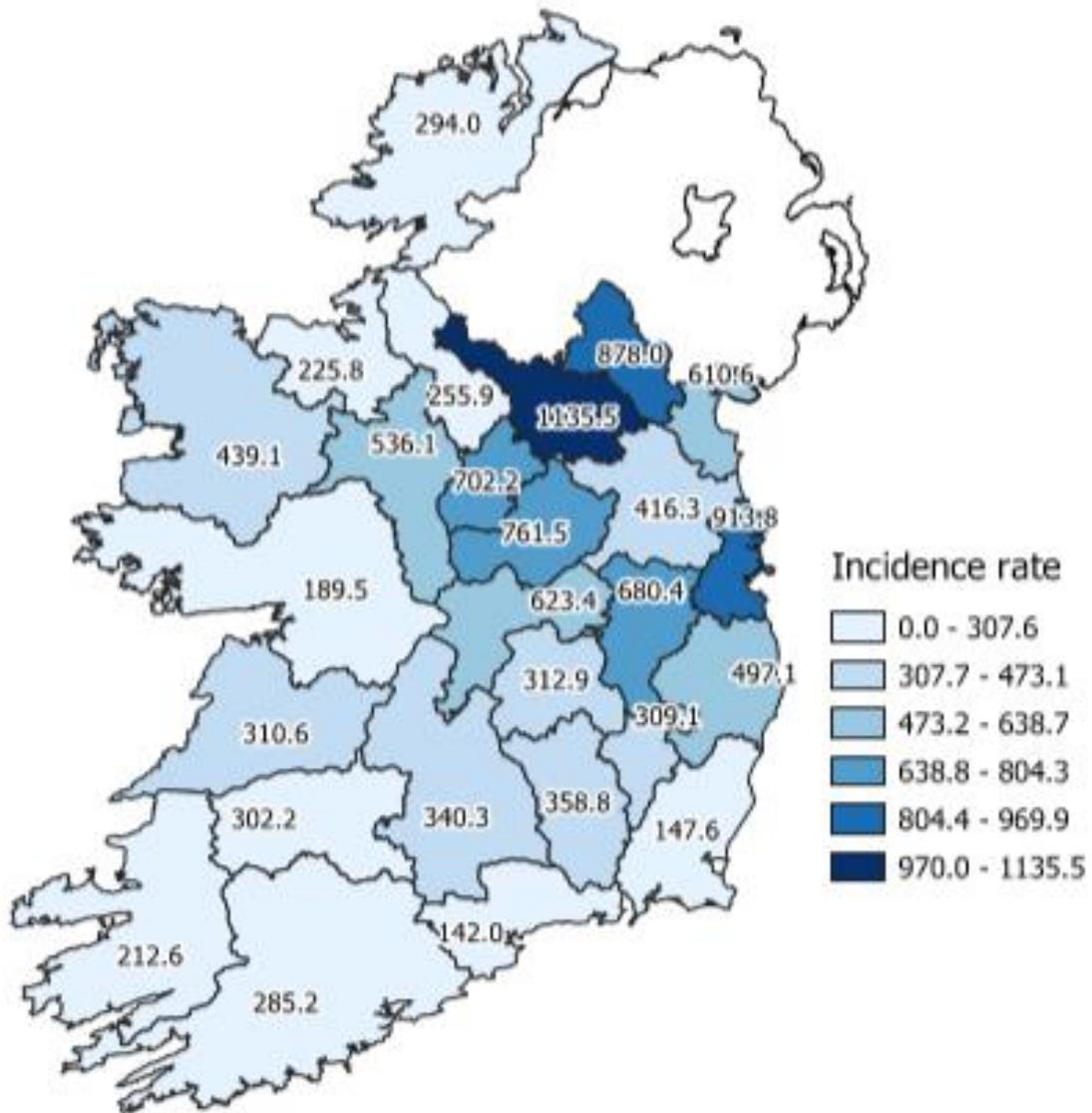


Figure 4: Cumulative incidence rates of confirmed cases of COVID-19 per 100,000 population notified in Ireland to midnight 12/07/2020

*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 12/07/2020**

<b>County Name</b>	<b>Number of cases</b>	<b>Percent</b>
Carlow	176	0.69
Cavan	865	3.37
Clare	369	1.44
Cork	1,548	6.04
Donegal	468	1.83
Dublin	12,312	48.02
Galway	489	1.91
Kerry	314	1.22
Kildare	1,514	5.91
Kilkenny	356	1.39
Laois	265	1.03
Leitrim	82	0.32
Limerick	589	2.3
Longford	287	1.12
Louth	787	3.07
Mayo	573	2.23
Meath	812	3.17
Monaghan	539	2.1
Offaly	486	1.9
Roscommon	346	1.35
Sligo	148	0.58
Tipperary	543	2.12
Waterford	165	0.64
Westmeath	676	2.64
Wexford	221	0.86
Wicklow	708	2.76
<b>Total</b>	<b>25,638</b>	<b>100</b>

**Table 3: Number of confirmed COVID-19 cases by WHO transmission classification notified to midnight 12/07/2020**

Transmission classification*	Count of Events	%
Community transmission, incl. possible community transmission	8,312	32.42%
Local transmission, incl. possible local transmission	16,710	65.18%
Travel abroad, incl. possible travel abroad	610	2.38%
Unknown	6	0.02%
<b>Total</b>	<b>25,638</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 12/07/2020**

Age Group (years)	Number of cases (n)	Cases hospitalised (n)	Cases hospitalised (%)	Cases admitted to ICU (n)	Cases admitted to ICU (%)
0-4 yrs	179	23	0.69	0	0
5-14 yrs	336	17	0.51	2	0.46
15-24 yrs	1942	75	2.25	5	1.15
25-34 yrs	4319	197	5.91	15	3.44
35-44 yrs	4512	273	8.19	36	8.26
45-54 yrs	4588	447	13.42	91	20.87
55-64 yrs	3263	495	14.86	126	28.9
65-74 yrs	1810	584	17.53	109	25
75-84 yrs	2297	743	22.3	46	10.55
85+ yrs	2370	476	14.29	6	1.38
Unknown	22	2	0.06	0	0
<b>Total</b>	<b>25,638</b>	<b>3,332</b>	<b>100</b>	<b>436</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 12/07/2020**

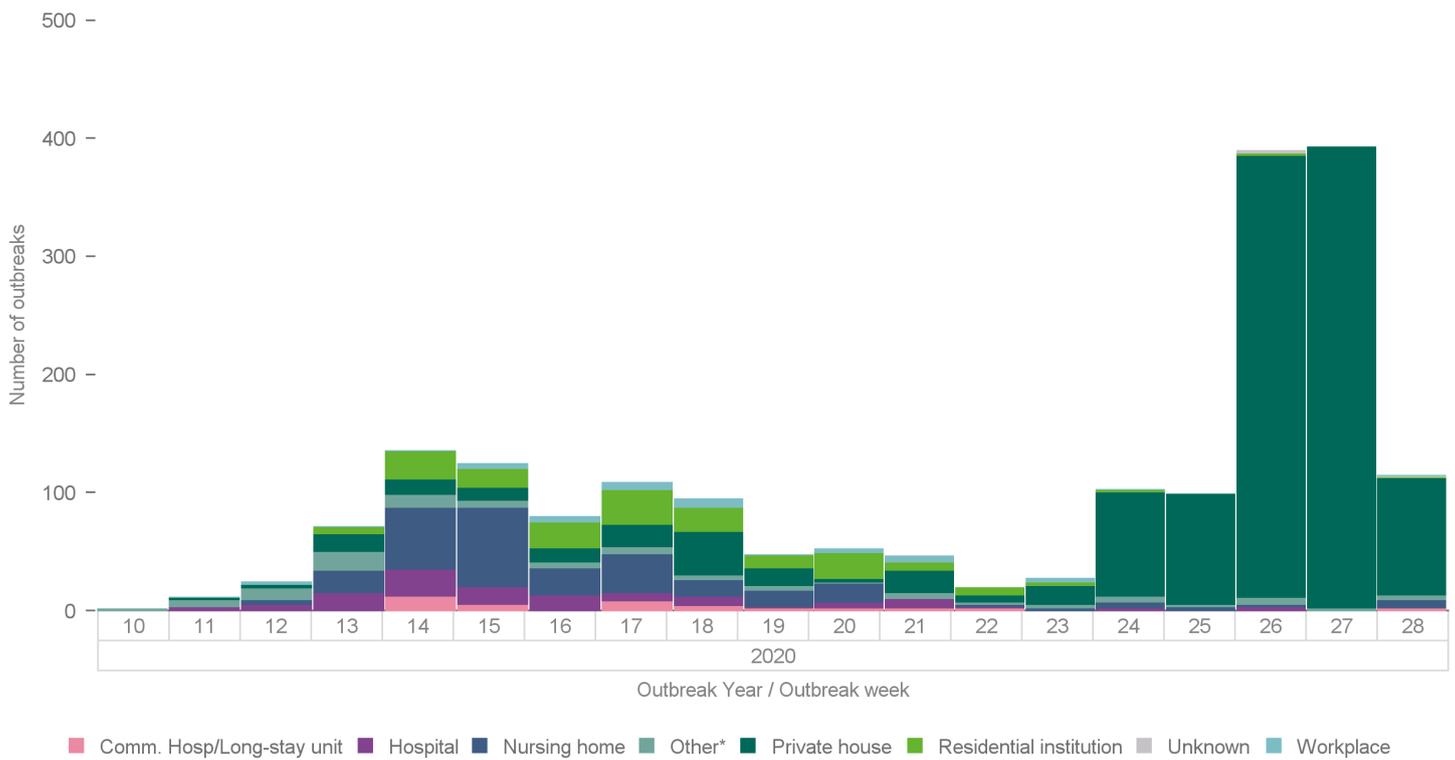
	0-4 yrs	5-14 yrs	15-24 yrs	25-34 yrs	35-44 yrs	45-54 yrs	55-64 yrs	65-74 yrs	75-84 yrs	85+ yrs	Unknown
Number of cases (n)	179	336	1,942	4,319	4,512	4,588	3,263	1,810	2,297	2,370	22
Cases hospitalised (n)	23	17	75	197	273	447	495	584	743	476	2
Cases hospitalised (%)	12.85	5.06	3.86	4.56	6.05	9.74	15.17	32.27	32.35	20.08	9.09
Cases admitted to ICU (n)	0	2	5	15	36	91	126	109	46	6	0
Cases admitted to ICU (%)	0	0.6	0.26	0.35	0.8	1.98	3.86	6.02	2	0.25	0
Deaths (n)	0	0	1	5	12	22	65	221	511	650	0
Case fatality ratio (%)	0	0	0.05	0.12	0.27	0.48	1.99	12.21	22.25	27.43	0

## Outbreaks of COVID-19

**Table 6: Number of clusters/outbreaks COVID-19 by location and HSE area notified to midnight 12/07/2020**

Outbreak Location	E	M	MW	NE	NW	S	SE	W	Total
Private house	827	6	53	118	41	109	36	27	1,217
Nursing home	125	10	16	40	5	11	17	37	261
Residential institution	100	9	7	17	4	21	10	4	172
Hospital	61	3	3	14	2	10	4	6	103
Other*	12	8	26	6	7	21	8	9	98
Workplace	7	5	5	14	1	9	3	4	48
Comm. Hosp/Long-stay unit	4	4	2		4	6	5	5	30
Unknown	2				1	1			4
<b>Total</b>	<b>1,138</b>	<b>45</b>	<b>112</b>	<b>209</b>	<b>65</b>	<b>188</b>	<b>83</b>	<b>92</b>	<b>1,933</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 12/07/2020**

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

Note: 1094 COVID-19 outbreaks were reported on CIDR between week 24 and week 28 2020 (June 7th to July 12th). Of these, 1057 were family outbreaks. Most of these family outbreaks occurred earlier and were reported between weeks 24 and 28 as a result of data validation: 1 occurred in February, 497 in March, 328 in April, 83 in May and 32 in June.

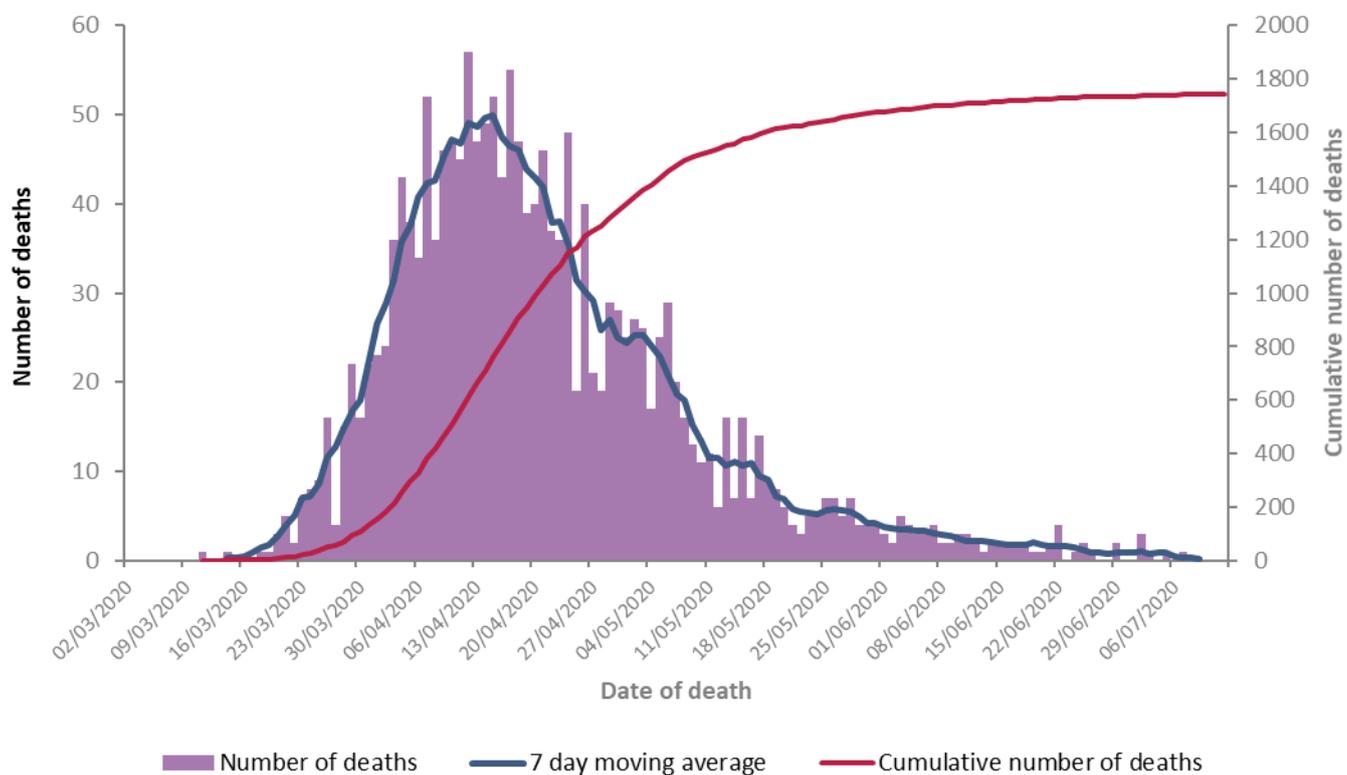
## Deaths among COVID-19 cases

Table 7: Summary of deaths in all COVID-19 cases notified in Ireland up to midnight 12/07/2020

	Number	Percent
Total number of deaths	1,746	
Confirmed	1,487	85.17
Probable	100	5.73
Possible	159	9.11
Total number of cases hospitalised	741	42.44
Cases admitted to ICU	91	5.21
Cases not admitted to ICU	650	37.23
Total number of imported cases	5	0.29
Number of cases in healthcare workers	7	0.4
Number with underlying clinical conditions	1,643	94.1
Total number of male cases	860	49.26
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 12/07/2020

Age group (years)	Female	Male	Total	Percent
15-24 yrs	<5	<5	1	0.06
25-34 yrs	<5	<5	5	0.29
35-44 yrs	6	7	13	0.74
45-54 yrs	9	15	24	1.37
55-64 yrs	25	45	70	4.01
65-74 yrs	90	156	246	14.09
75-84 yrs	274	323	597	34.19
85+ yrs	477	311	788	45.13
Unknown	<5	<5	2	0.11
<b>Total</b>	<b>886</b>	<b>860</b>	<b>1,746</b>	<b>100</b>
<b>Percent</b>	<b>50.74</b>	<b>49.26</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 12/07/2020**

\* 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 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 14/07/2020. 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 community, extended family, hotel, public house, retail outlet, travel related and all other locations.