



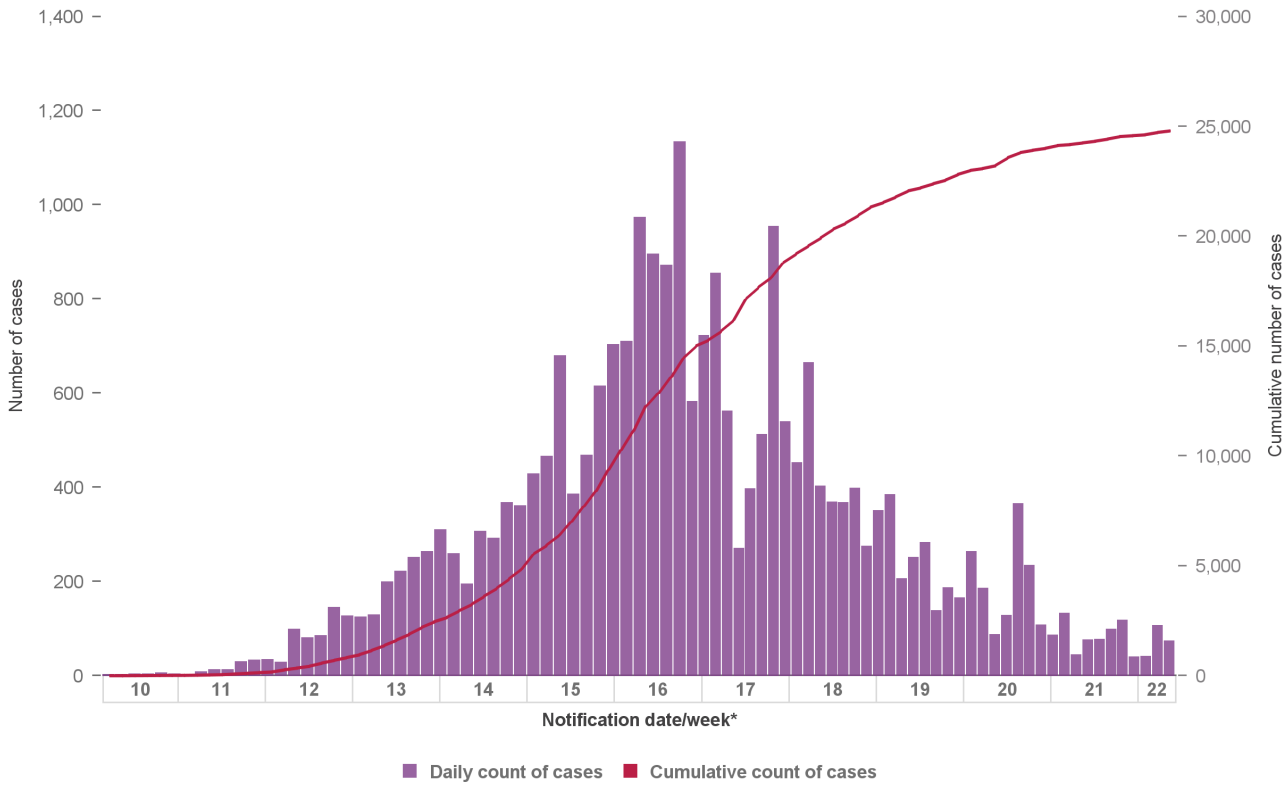
# Epidemiology of COVID-19 in Ireland

Report prepared by HPSC on 28/05/2020 for National Public Health Emergency Team

Summary characteristics of confirmed COVID-19 cases notified in Ireland up to midnight 26/05/2020

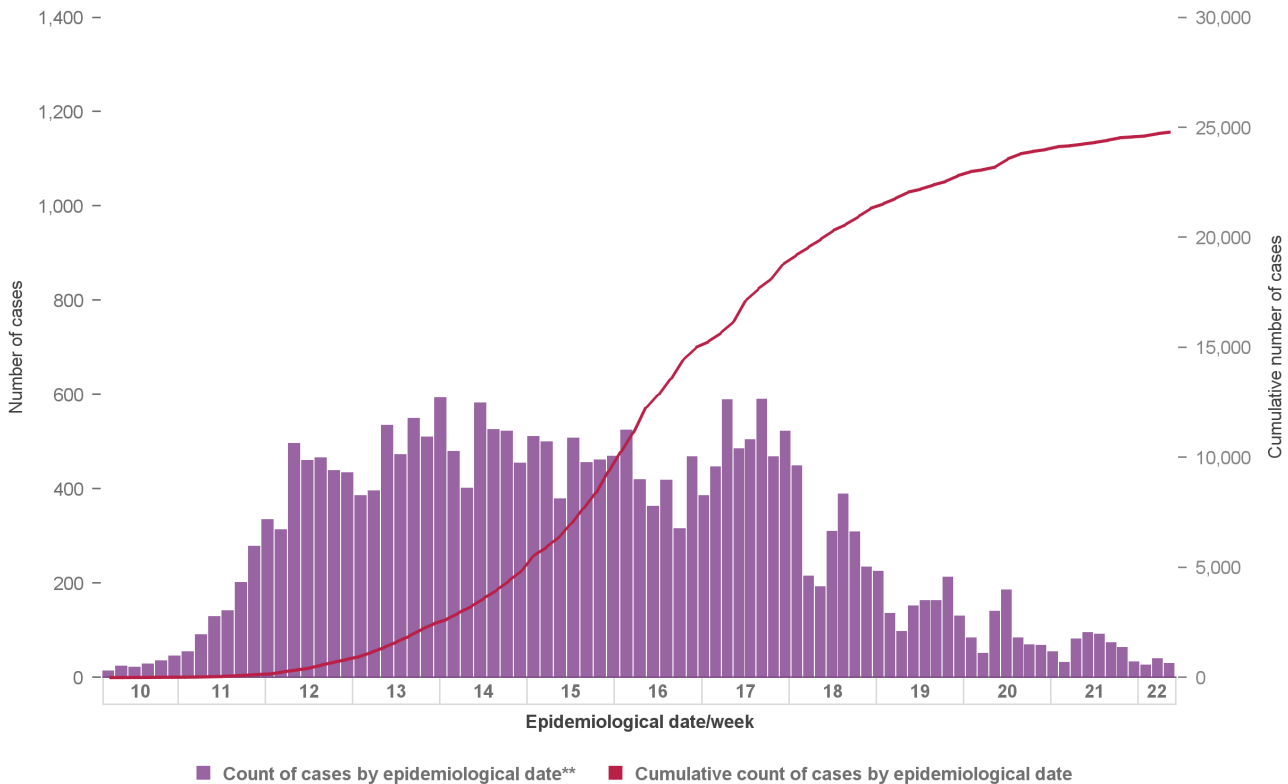
	Number	Percent
Total number of confirmed cases	24,795	
National cumulative incidence of confirmed cases per 100,000 population	520.7	
Total number of cases hospitalised	3,267	13.18
Total number of cases admitted to ICU	404	1.63
Total number of deaths among confirmed cases	1,378	5.56
Case fatality ratio (CFR, %)	5.56	
National cumulative incidence of confirmed deaths per 100,000 population	28.94	
Total number of outbreaks/clusters	850	
Total number of cases associated with clusters	9,758	39.35
Total number of imported cases	360	1.45
Number of cases in healthcare workers	7,920	31.94
Males	10,575	42.65
Females	14,186	57.21
M:F ratio	0.75	
Median age (years)	48	
Mean age (years)	51	
Age range (years)	0 - 106	

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 09:20 on 28/05/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.



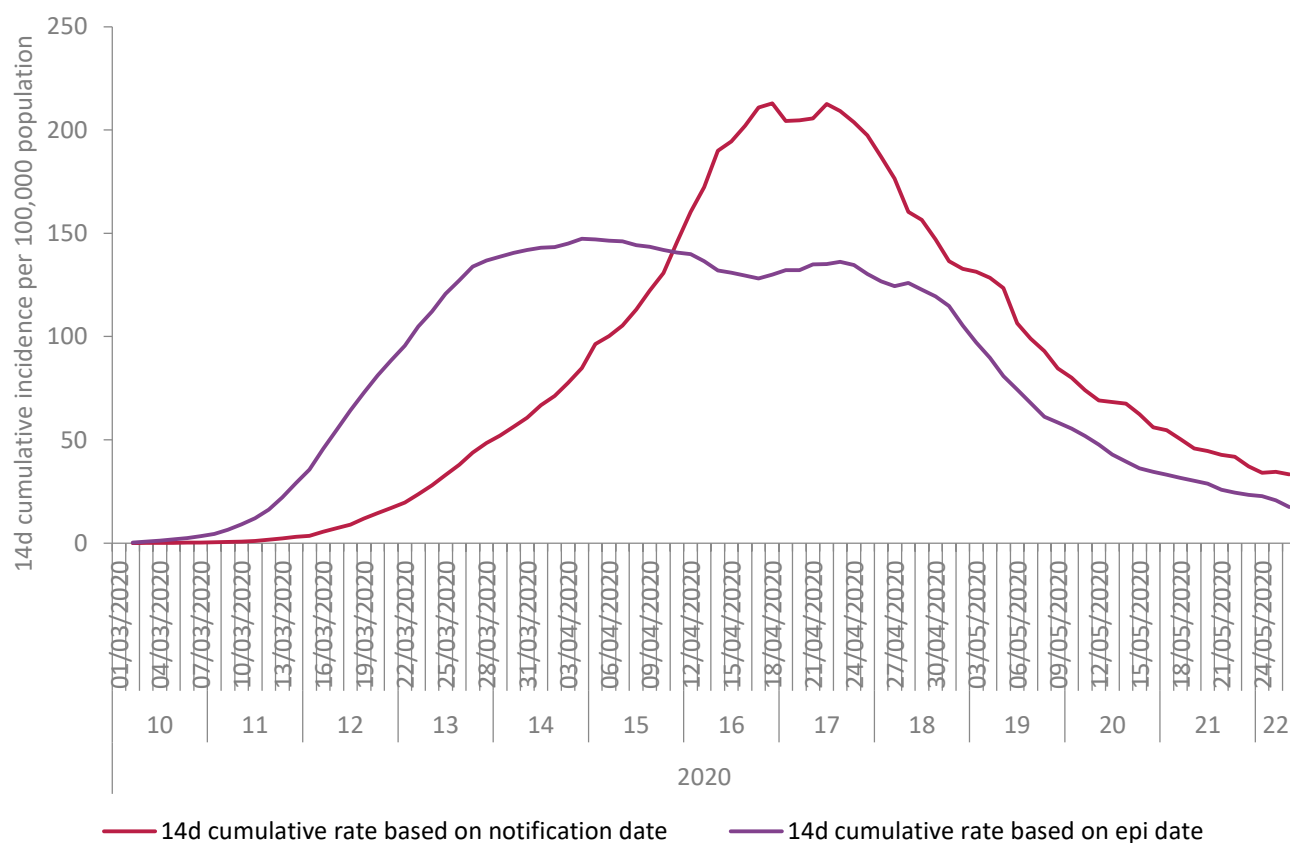
**Figure 1a: Number\* and cumulative number of confirmed COVID-19 cases notified in Ireland by notification date\* to midnight 26/05/2020**

\*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 26/05/2020**

\*\*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.



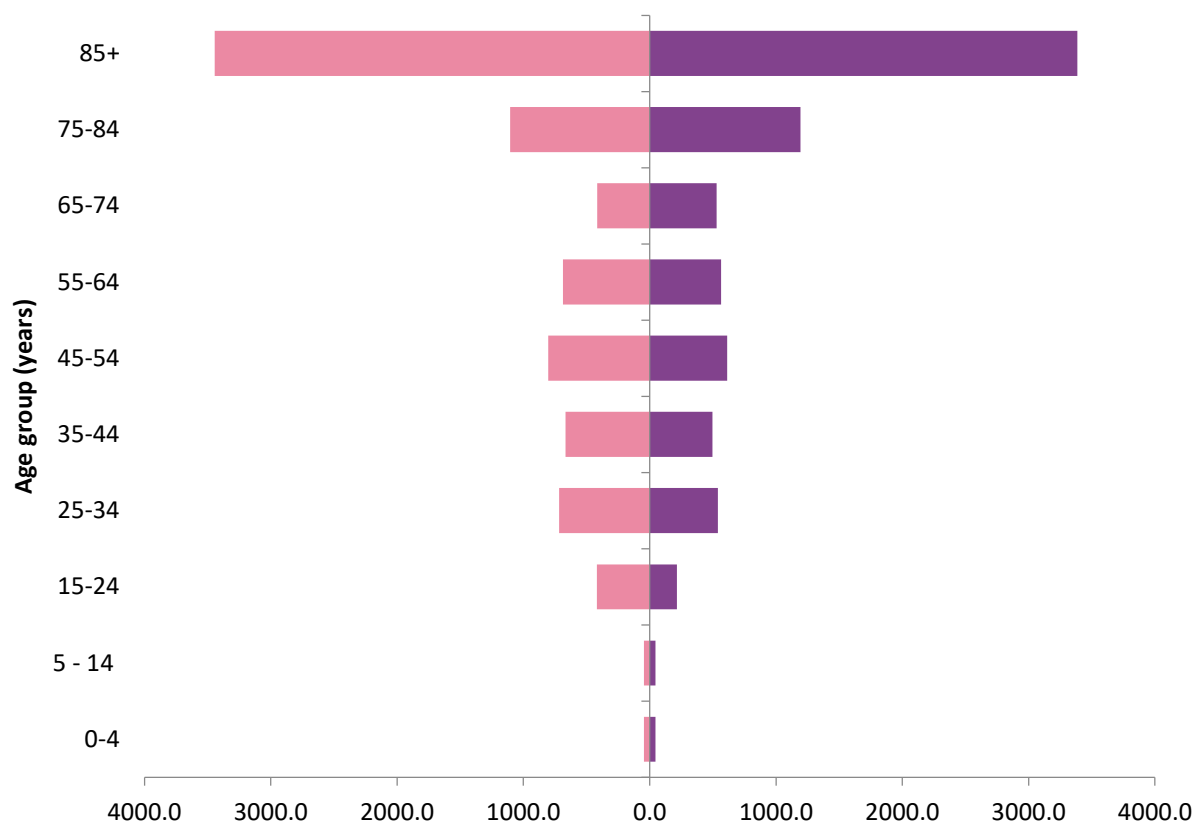
**Figure 2: Cumulative 14 day incidence rate of confirmed COVID-19 cases per 100,000 population notified in Ireland by notification\* and epidemiological date\*\* to midnight 26/05/2020**

\* 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 26/05/2020**

Characteristic		Number of cases	Percent
<b>Total number of confirmed cases</b>		<b>24,795</b>	<b>100</b>
<b>Sex</b>	Male:Female ratio	0.75	
	Male	10,575	42.65
	Female	14,186	57.21
	Unknown	34	0.14
<b>Age</b>	Median age (years)	48	
	Mean age (years)	51	
	Age range (years)	0 - 106	
	0-4 yrs	150	0.6
	5-14 yrs	304	1.23
	15-24 yrs	1,818	7.33
	25-34 yrs	4,168	16.81
	35-44 yrs	4,362	17.59
	45-54 yrs	4,454	17.96
	55-64 yrs	3,186	12.85
	65-74 yrs	1,763	7.11
	75-84 yrs	2,251	9.08
	85+ yrs	2,315	9.34
	Unknown	24	0.1



**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 26/05/2020 (excluding 24 cases for whom age is unknown and 34 cases for whom sex is unknown)**

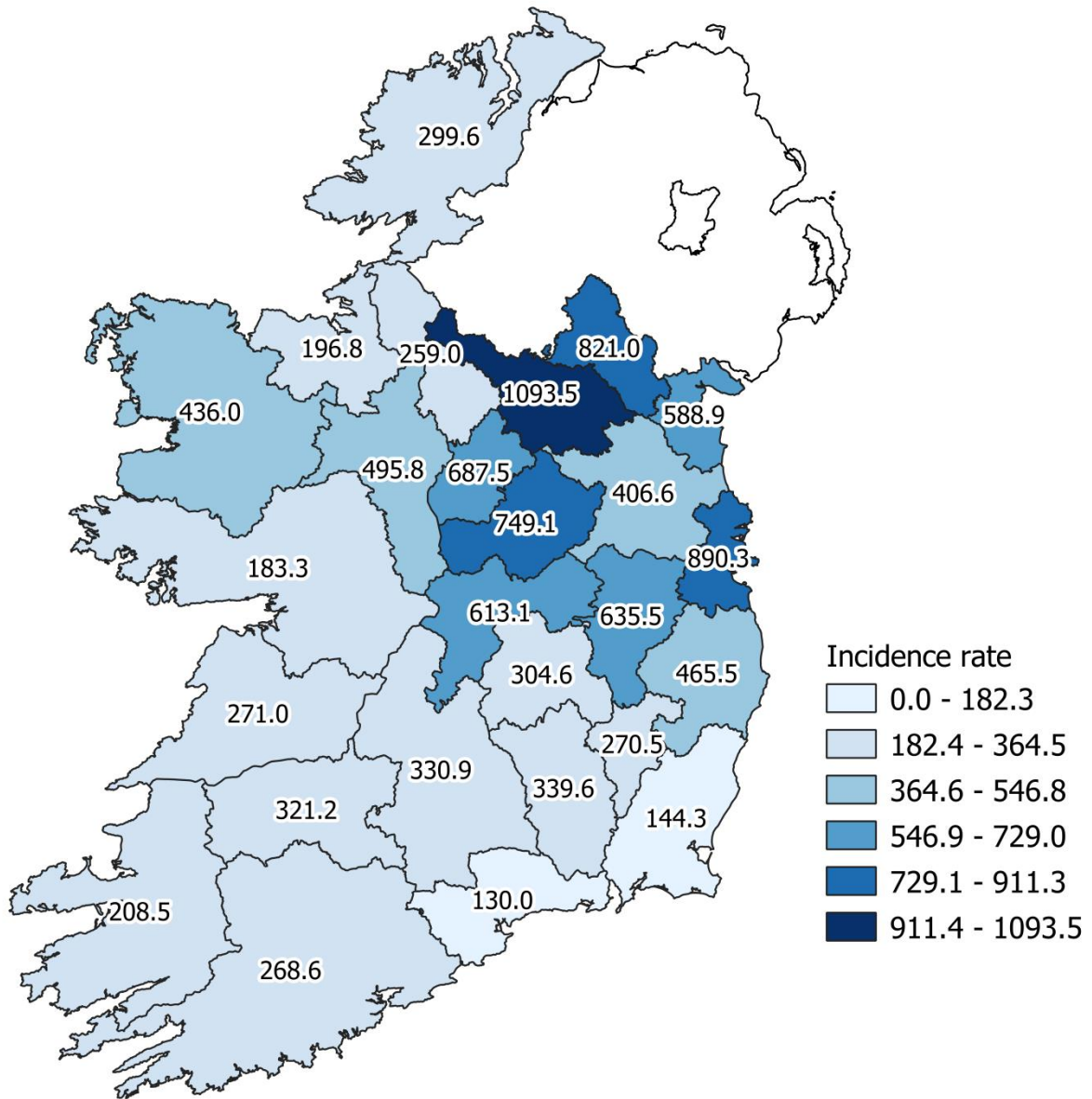


Figure 4: Cumulative incidence rates of confirmed cases of COVID-19 per 100,000 population notified in Ireland to midnight 26/05/2020

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 26/05/2020**

County Name	Number of cases	Percent
Carlow	154	0.62
Cavan	833	3.36
Clare	322	1.3
Cork	1,458	5.88
Donegal	477	1.92
Dublin	11,996	48.38
Galway	473	1.91
Kerry	308	1.24
Kildare	1,414	5.7
Kilkenny	337	1.36
Laois	258	1.04
Leitrim	83	0.33
Limerick	626	2.52
Longford	281	1.13
Louth	759	3.06
Mayo	569	2.29
Meath	793	3.2
Monaghan	504	2.03
Offaly	478	1.93
Roscommon	320	1.29
Sligo	129	0.52
Tipperary	528	2.13
Waterford	151	0.61
Westmeath	665	2.68
Wexford	216	0.87
Wicklow	663	2.67
<b>Total</b>	<b>24,795</b>	<b>100</b>

**Table 3: Number of confirmed COVID-19 cases by WHO transmission classification notified to midnight 26/05/2020**

Transmission classification*	Count of Events	%
Community transmission, incl. possible community transmission	9,804	39.54%
Local transmission, incl. possible local transmission	14,317	57.74%
Travel abroad, incl. possible travel abroad	575	2.32%
Unknown	99	0.40%
<b>Total</b>	<b>24,795</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 26/05/2020**

Age Group (years)	Number of cases (n)	Cases hospitalised (n)	Cases hospitalised (%)	Cases admitted to ICU (n)	Cases admitted to ICU (%)
0-4 yrs	150	19	0.58	0	0
5-14 yrs	304	17	0.52	2	0.5
15-24 yrs	1818	71	2.17	5	1.24
25-34 yrs	4168	196	6	15	3.71
35-44 yrs	4362	251	7.68	34	8.42
45-54 yrs	4454	437	13.38	82	20.3
55-64 yrs	3186	481	14.72	116	28.71
65-74 yrs	1763	572	17.51	104	25.74
75-84 yrs	2251	744	22.77	40	9.9
85+ yrs	2315	476	14.57	6	1.49
Unknown	24	3	0.09	0	0
<b>Total</b>	<b>24,795</b>	<b>3,267</b>	<b>100</b>	<b>404</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 26/05/2020**

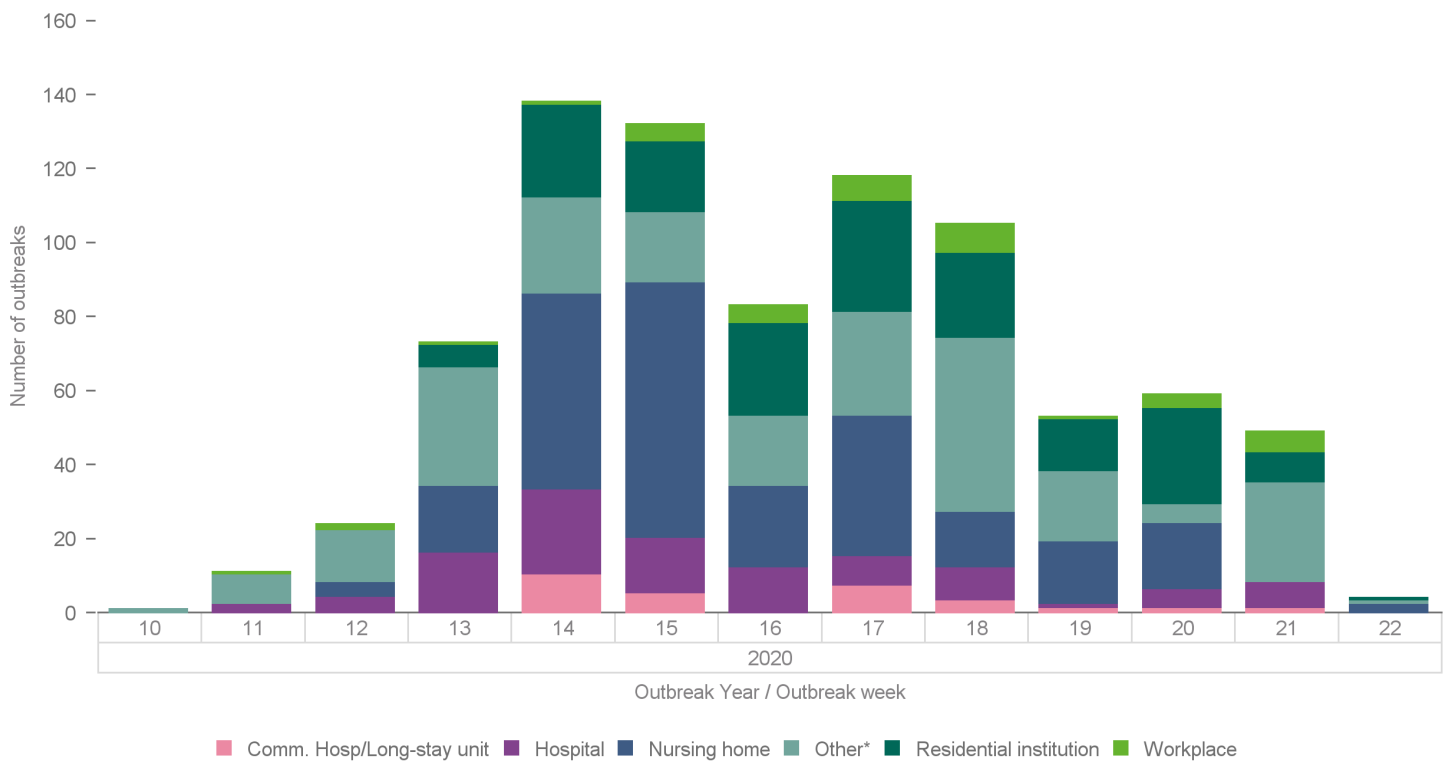
	0-4 yrs	5-14 yrs	15-24 yrs	25-34 yrs	35-44 yrs	45-54 yrs	55-64 yrs	65-74 yrs	75-84 yrs	85+ yrs	Unknown
Number of cases (n)	150	304	1,818	4,168	4,362	4,454	3,186	1,763	2,251	2,315	24
Cases hospitalised (n)	19	17	71	196	251	437	481	572	744	476	3
Cases hospitalised (%)	12.67	5.59	3.91	4.7	5.75	9.81	15.1	32.44	33.05	20.56	12.5
Cases admitted to ICU (n)	0	2	5	15	34	82	116	104	40	6	0
Cases admitted to ICU (%)	0	0.66	0.28	0.36	0.78	1.84	3.64	5.9	1.78	0.26	0
Deaths (n)	0	0	2	5	10	23	59	198	473	608	0
Case fatality ratio (%)	0	0	0.11	0.12	0.23	0.52	1.85	11.23	21.01	26.26	0

## Outbreaks of COVID-19

**Table 6: Number of clusters/outbreaks COVID-19 by location and HSE area notified to midnight 26/05/2020**

Outbreak Location	E	M	MW	NE	NW	S	SE	W	Total
Nursing home	121	16	13	38	6	10	16	36	<b>256</b>
Other*	20	13	41	22	9	80	31	30	<b>246</b>
Residential institution	106	12	6	15	4	20	10	4	<b>177</b>
Hospital	61	2	2	14	2	12	3	6	<b>102</b>
Workplace	7	5	4	11	1	8	3	2	<b>41</b>
Comm. Hosp/Long-stay unit	4	4	1		4	6	5	4	<b>28</b>
<b>Total</b>	<b>319</b>	<b>52</b>	<b>67</b>	<b>100</b>	<b>26</b>	<b>136</b>	<b>68</b>	<b>82</b>	<b>850</b>

\*Other outbreak location includes all outbreaks locations other than residential facilities, acute hospitals and workplaces. This includes community, extended family, hotel, private house, 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 26/05/2020**

\*Other outbreak location includes all outbreaks locations other than residential facilities, acute hospitals and workplaces. This includes community, extended family, hotel, private house, public house, retail outlet, travel related and all other locations.

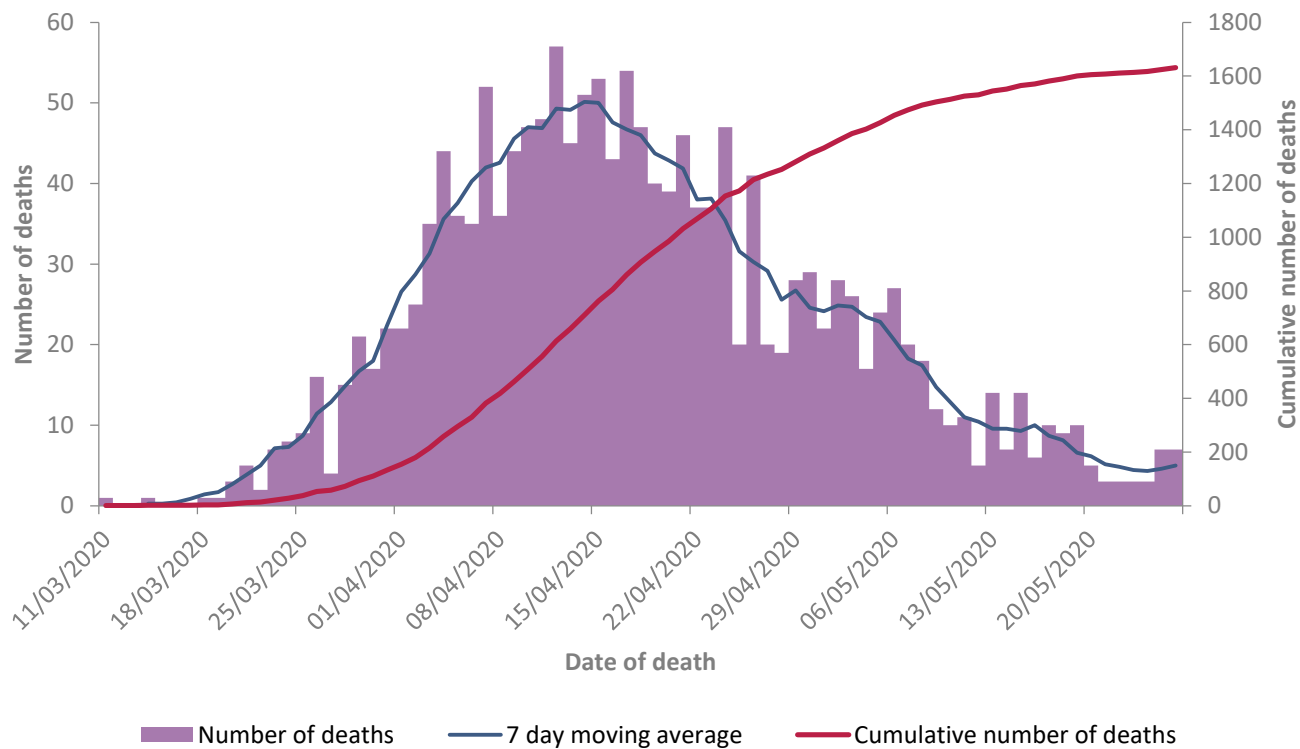
## Deaths among COVID-19 cases

Table 7: Summary of deaths in all COVID-19 cases notified in Ireland up to midnight 26/05/2020

	Number	Percent
Total number of deaths	1,639	
Confirmed	1,378	84.08
Probable	94	5.74
Possible	167	10.19
Total number of cases hospitalised	680	41.49
Cases admitted to ICU	78	4.76
Cases not admitted to ICU	602	36.73
Total number of imported cases	6	0.37
Number of cases in healthcare workers	7	0.43
Number with underlying clinical conditions	1,470	89.69
Total number of male cases	811	49.48
M:F ratio	1.0	
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 26/05/2020

Age group (years)	Female	Male	Total	Percent
15-24 yrs	<5	<5	2	0.12
25-34 yrs	<5	<5	5	0.31
35-44 yrs	5	6	11	0.67
45-54 yrs	10	15	25	1.53
55-64 yrs	21	43	64	3.90
65-74 yrs	79	144	223	13.61
75-84 yrs	252	305	557	33.98
85+ yrs	455	295	750	45.76
Unknown	<5	<5	2	0.12
<b>Total</b>	<b>828</b>	<b>811</b>	<b>1,639</b>	<b>100</b>
<b>Percent</b>	<b>50.52</b>	<b>49.48</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 26/05/2020**

\* 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 09:20 on 28/05/2020. 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 all outbreaks locations other than residential facilities and acute hospitals. This includes community, extended family, hotel, private house, public house, retail outlet, travel related and all other locations.