



Epidemiology of COVID-19 in Ireland

Report prepared by HPSC on 31/07/2020 for National Public Health Emergency Team

Summary characteristics of confirmed COVID-19 cases notified in Ireland up to midnight 29/07/2020

	Number	Percent
Total number of confirmed cases	26,027	
National cumulative incidence of confirmed cases per 100,000 population	546.57	
Total number of cases hospitalised	3,352	12.88
Total number of cases admitted to ICU	437	1.68
Total number of deaths among confirmed cases	1,506	5.79
Case fatality ratio (CFR, %)	5.79	
National cumulative incidence of confirmed deaths per 100,000 population	31.63	
Total number of outbreaks/clusters	2,307	
Total number of cases associated with clusters	13,979	53.71
Total number of imported cases	446	1.71
Number of cases in healthcare workers	8,420	32.35
Males	11,168	42.91
Females	14,831	56.98
M:F ratio	0.75	
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 09:14 on 31/07/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.

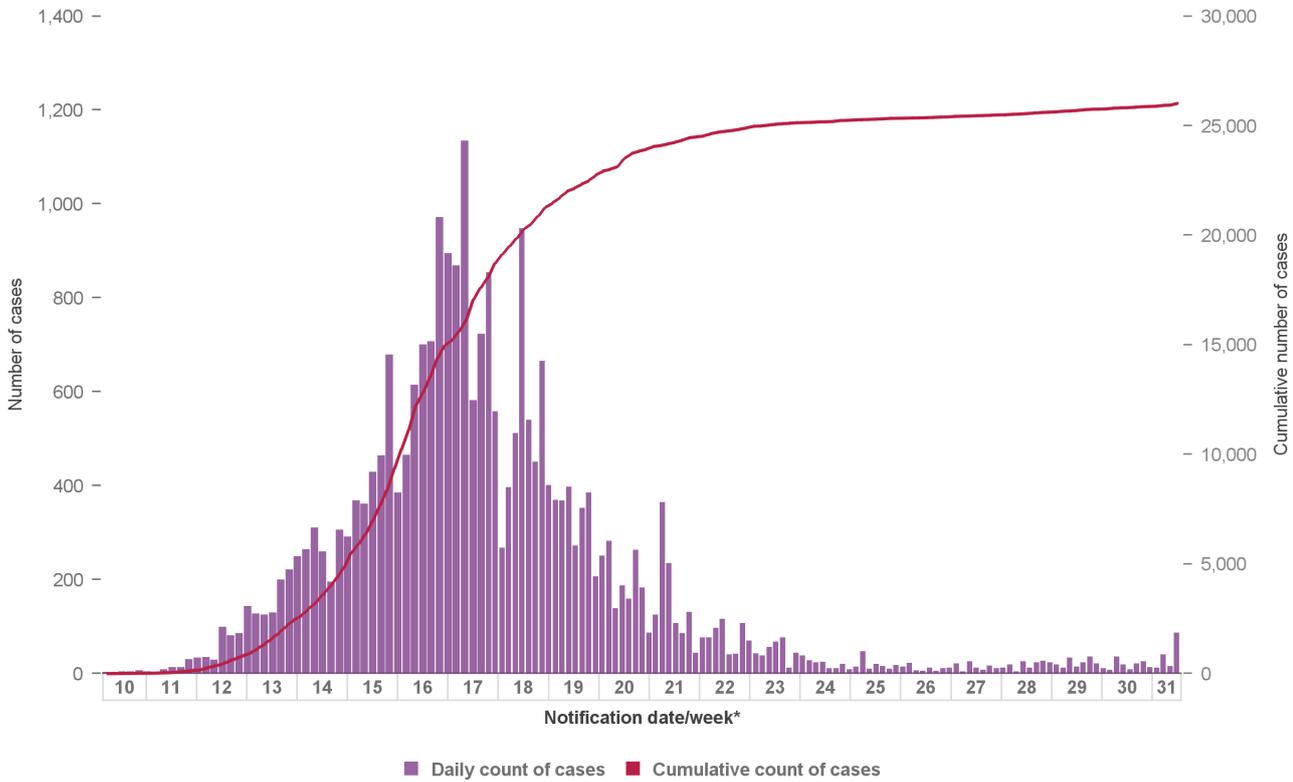


Figure 1a: Number* and cumulative number of confirmed COVID-19 cases notified in Ireland by notification date* to midnight 29/07/2020

*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

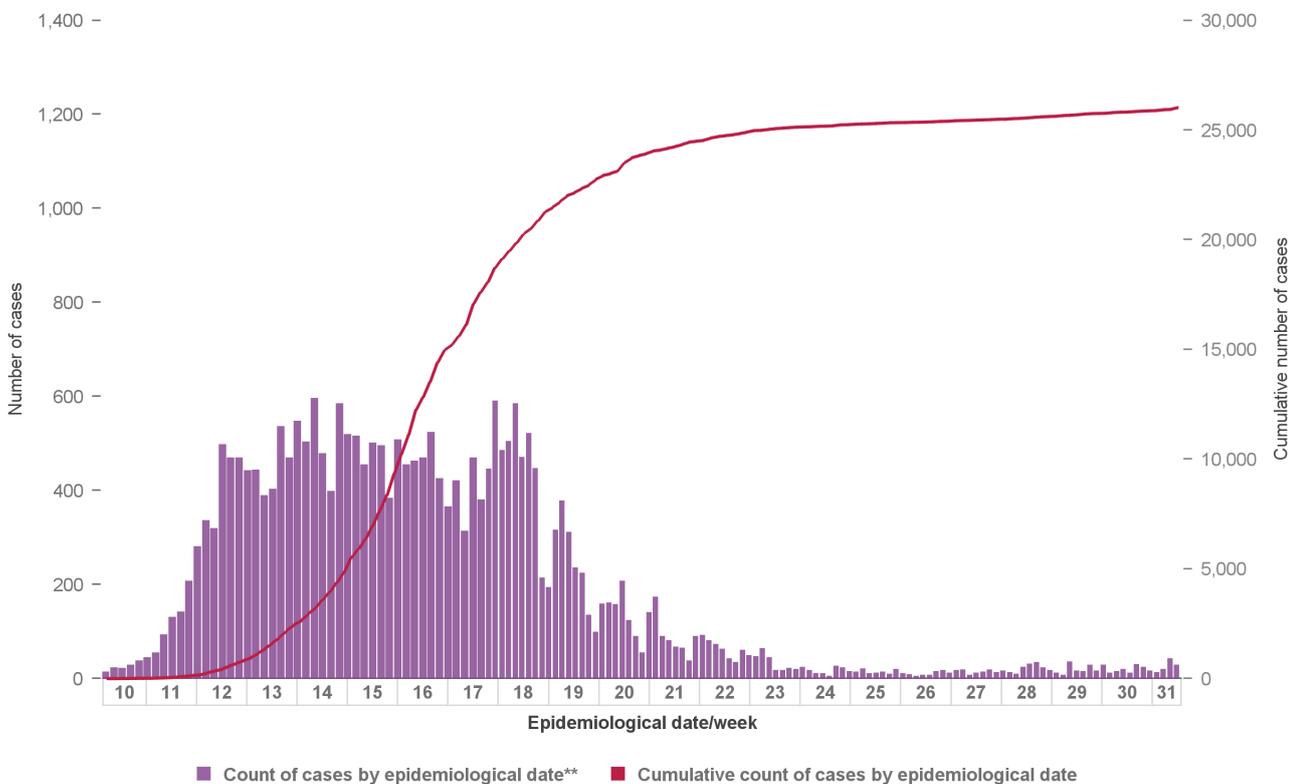


Figure 1b: Number and cumulative number of confirmed COVID-19 cases notified in Ireland by epidemiological date to midnight 29/07/2020**

**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.

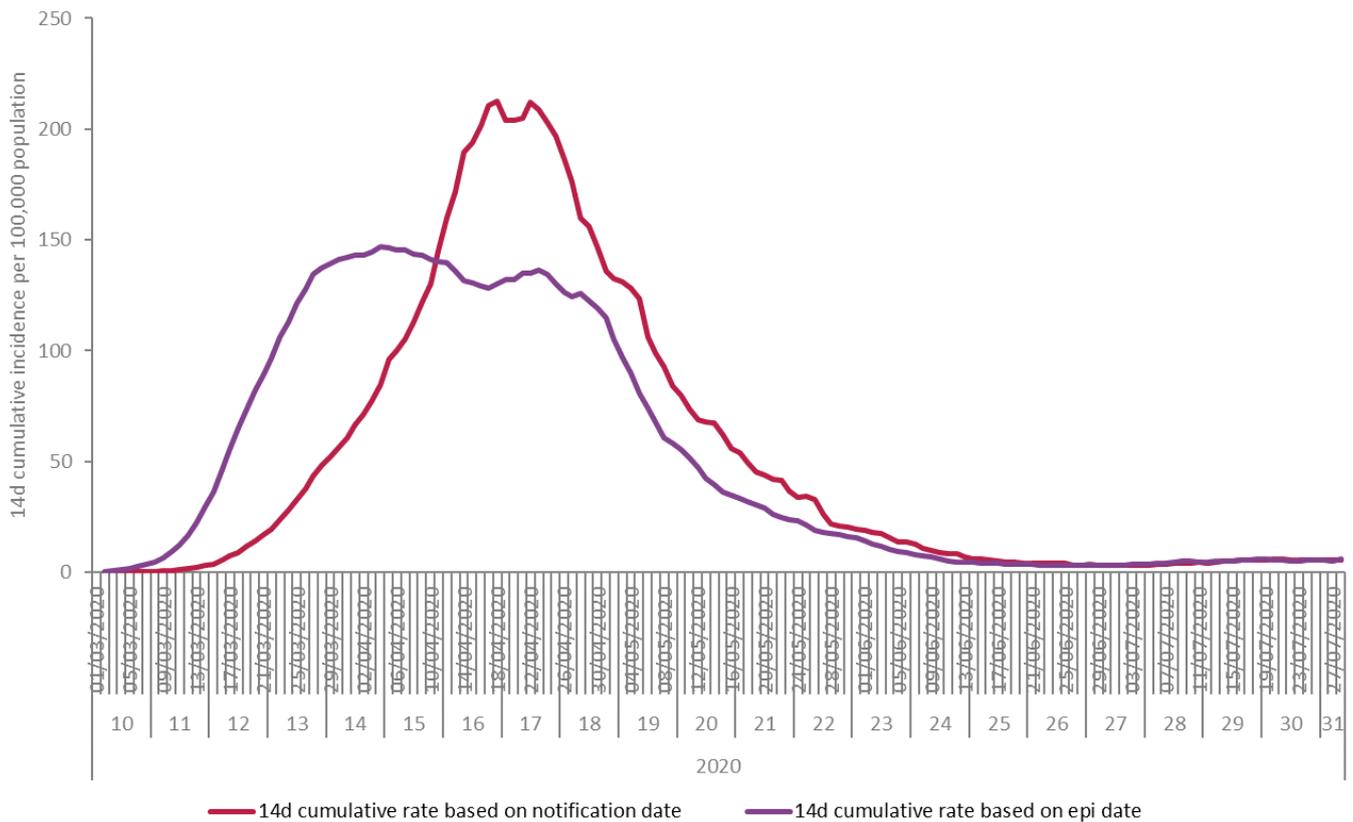


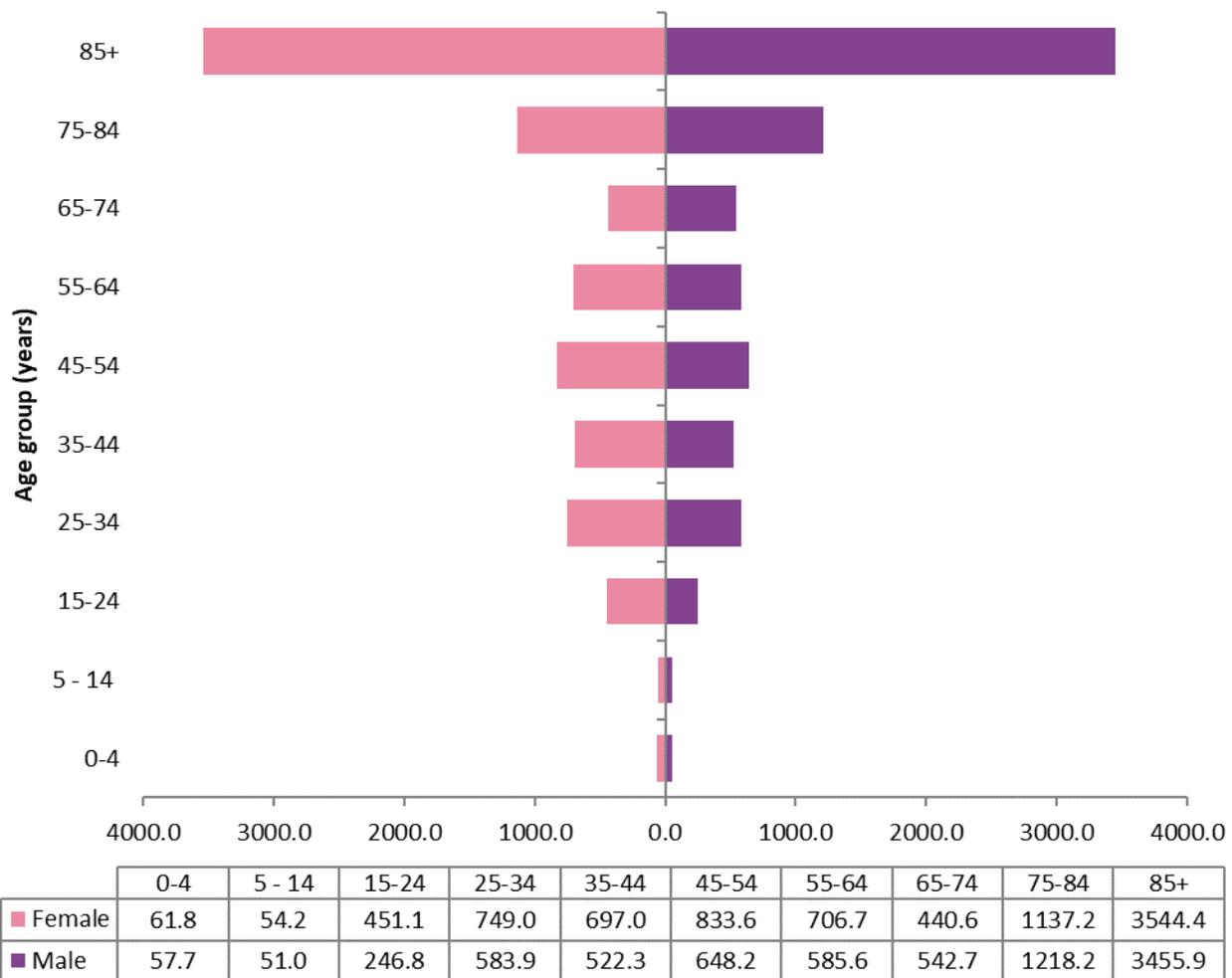
Figure 2: Cumulative 14 day incidence rate of confirmed COVID-19 cases per 100,000 population notified in Ireland by notification* and epidemiological date to midnight 29/07/2020**

* 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 29/07/2020

Characteristic		Number of cases	Percent
Total number of confirmed cases		26,027	100
Sex	Male:Female ratio	0.75	
	Male	11,168	42.91
	Female	14,831	56.98
	Unknown	28	0.11
Age	Median age (years)	47	
	Mean age (years)	50	
	Age range (years)	0 - 106	
	0-4 yrs	198	0.76
	5-14 yrs	355	1.36
	15-24 yrs	2,004	7.7
	25-34 yrs	4,420	16.98
	35-44 yrs	4,572	17.57
	45-54 yrs	4,650	17.87
	55-64 yrs	3,291	12.64
	65-74 yrs	1,834	7.05
	75-84 yrs	2,307	8.86
	85+ yrs	2,375	9.13
	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 29/07/2020 (excluding 20 cases for whom age is unknown and 27 cases for whom sex is unknown and 1 case for whom both are unknown)

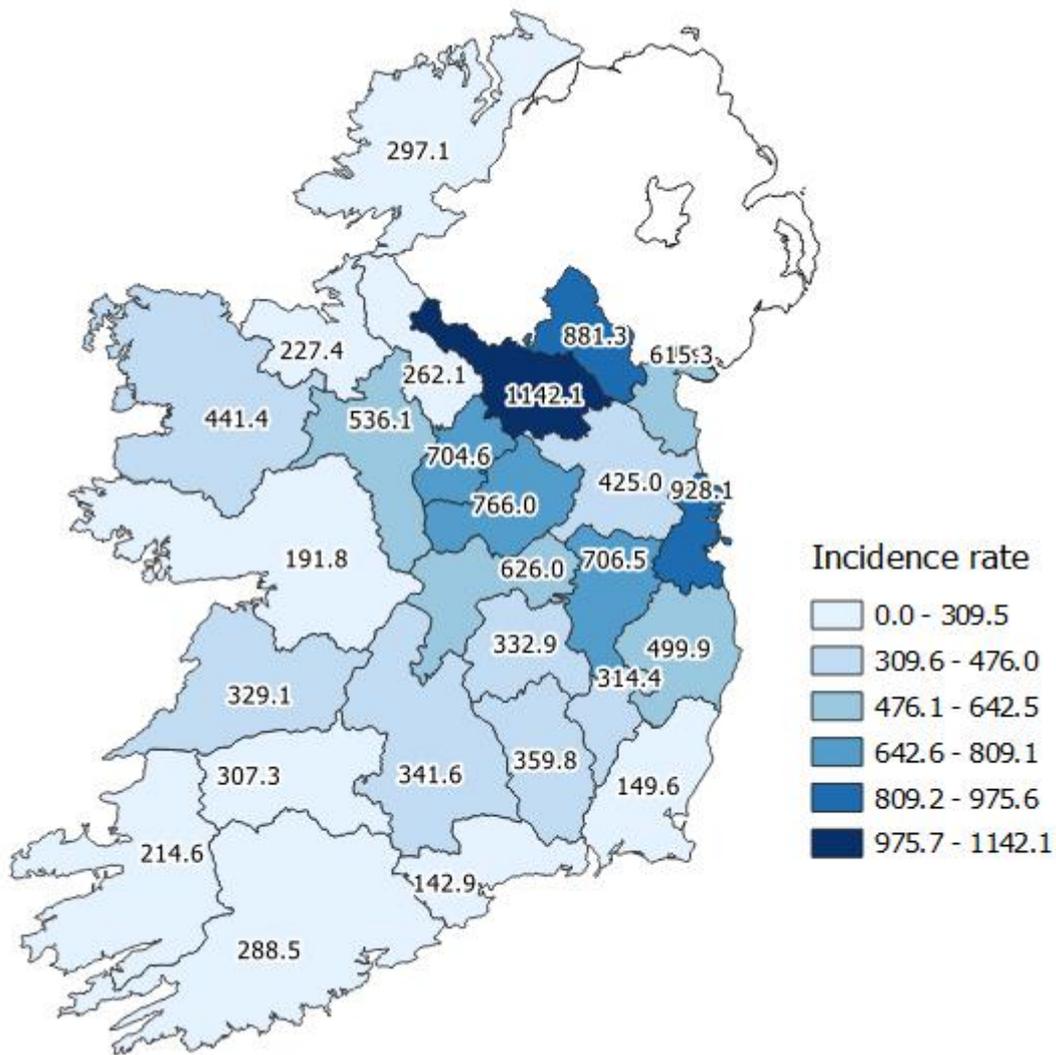


Figure 4: Cumulative incidence rates of confirmed cases of COVID-19 per 100,000 population notified in Ireland to midnight 29/07/2020

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 29/07/2020

County Name	Number of cases	Percent
Carlow	179	0.69
Cavan	870	3.34
Clare	391	1.5
Cork	1,566	6.02
Donegal	473	1.82
Dublin	12,505	48.05
Galway	495	1.9
Kerry	317	1.22
Kildare	1,572	6.04
Kilkenny	357	1.37
Laois	282	1.08
Leitrim	84	0.32
Limerick	599	2.3
Longford	288	1.11
Louth	793	3.05
Mayo	576	2.21
Meath	829	3.19
Monaghan	541	2.08
Offaly	488	1.87
Roscommon	346	1.33
Sligo	149	0.57
Tipperary	545	2.09
Waterford	166	0.64
Westmeath	680	2.61
Wexford	224	0.86
Wicklow	712	2.74
Total	26,027	100

Table 3: Number of confirmed COVID-19 cases by WHO transmission classification notified to midnight 29/07/2020

Transmission classification*	Count of Events	%
Community transmission, incl. possible community transmission	8,197	31.49%
Local transmission, incl. possible local transmission	17,170	65.97%
Travel abroad, incl. possible travel abroad	641	2.46%
Unknown	19	0.07%
Total	26,027	100.00%

*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 29/07/2020

Age Group (years)	Number of cases (n)	Cases hospitalised (n)	Cases hospitalised (%)	Cases admitted to ICU (n)	Cases admitted to ICU (%)
0-4 yrs	198	24	0.72	0	0
5-14 yrs	355	18	0.54	2	0.46
15-24 yrs	2004	77	2.3	5	1.14
25-34 yrs	4420	198	5.91	15	3.43
35-44 yrs	4572	274	8.17	36	8.24
45-54 yrs	4650	451	13.45	91	20.82
55-64 yrs	3291	499	14.89	127	29.06
65-74 yrs	1834	587	17.51	109	24.94
75-84 yrs	2307	746	22.26	46	10.53
85+ yrs	2375	477	14.23	6	1.37
Unknown	21	1	0.03	0	0
Total	26,027	3,352	100	437	100

Table 5: Number and proportion of confirmed cases of COVID-19 notified in Ireland by age-group, hospitalisation and ICU admission 29/07/2020

	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)	198	355	2,004	4,420	4,572	4,650	3,291	1,834	2,307	2,375	21
Cases hospitalised (n)	24	18	77	198	274	451	499	587	746	477	1
Cases hospitalised (%)	12.12	5.07	3.84	4.48	5.99	9.7	15.16	32.01	32.34	20.08	4.76
Cases admitted to ICU (n)	0	2	5	15	36	91	127	109	46	6	0
Cases admitted to ICU (%)	0	0.56	0.25	0.34	0.79	1.96	3.86	5.94	1.99	0.25	0
Deaths (n)	0	0	1	5	12	24	67	225	514	658	0
Case fatality ratio (%)	0	0	0.05	0.11	0.26	0.52	2.04	12.27	22.28	27.71	0

Outbreaks of COVID-19

Table 6: Number of clusters/outbreaks COVID-19 by location and HSE area notified to midnight 29/07/2020

Outbreak Location	E	HPSC	M	MW	NE	NW	S	SE	W	Total
Private house	1,084		6	86	118	52	113	77	27	1,563
Nursing home	131		10	17	41	5	13	17	36	270
Residential institution	104		9	7	17	4	21	10	4	176
Other*	14	2	8	30	6	7	27	9	9	112
Hospital	61		3	3	14	2	10	4	6	103
Workplace	10		5	5	14	1	8	2	4	49
Comm. Hosp/Long-stay unit	4		4	2		4	6	5	5	30
Unknown	2					1	1			4
Total	1,410	2	45	150	210	76	199	124	91	2,307

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

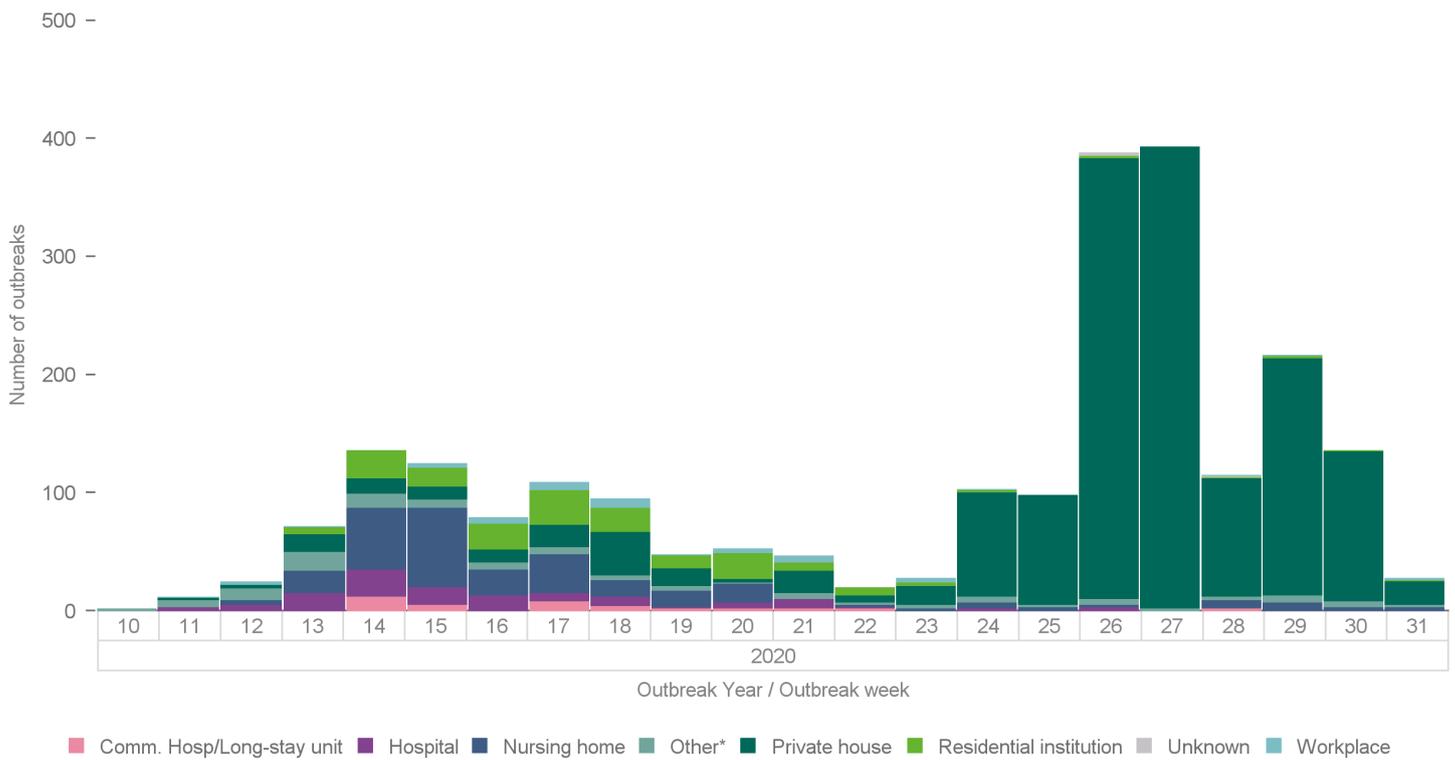


Figure 5: Trend in number of COVID-19 clusters by location and week notified to midnight 29/07/2020

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

Note: 1473 COVID-19 outbreaks were reported on CIDR between week 24 and week 31 2020 (June 7th to July 31st). Of these, 1,413 were family outbreaks. Most of these family outbreaks occurred earlier and were reported between weeks 24 and 31 as a result of data validation: 1 occurred in February, 612 in March, 452 in April, 96 in May, 13 in June and 13 in July.

Deaths among COVID-19 cases

Table 7: Summary of deaths in all COVID-19 cases notified in Ireland up to midnight 29/07/2020

	Number	Percent
Total number of deaths	1,763	
Confirmed	1,506	85.42
Probable	100	5.67
Possible	157	8.91
Total number of cases hospitalised	749	42.48
Cases admitted to ICU	93	5.28
Cases not admitted to ICU	656	37.21
Total number of imported cases	6	0.34
Number of cases in healthcare workers	8	0.45
Number with underlying clinical conditions	1,662	94.27
Total number of male cases	868	49.23
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 29/07/2020

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	0.74
45-54 yrs	10	16	26	1.47
55-64 yrs	25	47	72	4.08
65-74 yrs	92	157	249	14.12
75-84 yrs	275	324	599	33.98
85+ yrs	482	314	796	45.15
Unknown	<5	<5	2	0.11
Total	895	868	1,763	100
Percent	50.77	49.23		

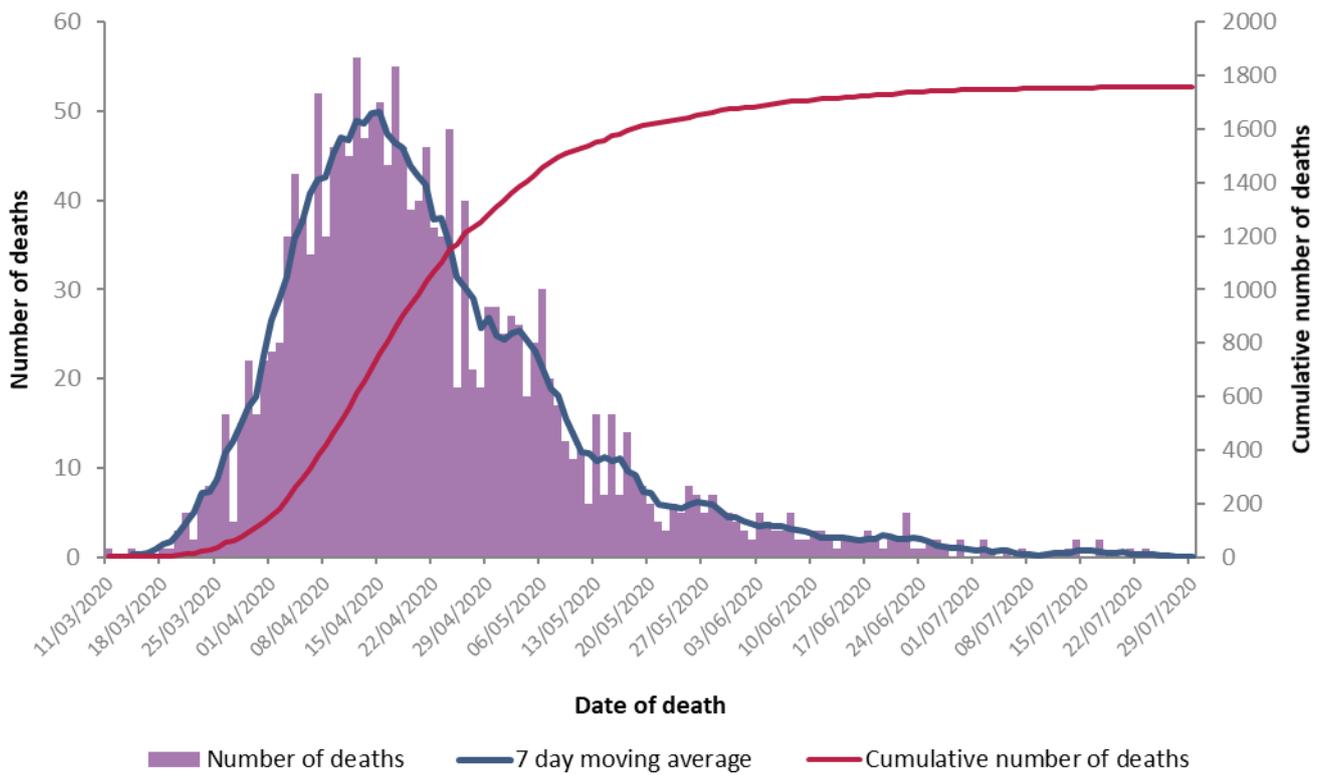


Figure 6: Daily and 7 day moving average number of deaths among COVID-19 cases notified in Ireland by date of death and cumulative total to midnight 29/07/2020

* 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 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.

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