



Epidemiology of COVID-19 in Ireland

Report prepared by HPSC on 23/05/2020 for NPHE

Note: Data are provisional

Summary

This report includes data as of 23rd May 2020 at 9:15 am for events created on CIDR up to midnight Thursday 21st May 2020.

Characteristic	Number	%
Total number of confirmed cases	24,451	
Number of new cases since previous day	99	0.4
National incidence rate per 100,000 population	513.5	
Total number hospitalised	3,211	13.1
Total number admitted to ICU	393	1.6
Total number of deaths	1,341	5.5
National death rate per 100,000 population	28.2	
Total number of outbreaks/clusters	829	-
Total number cases associated with clusters	9,450	38.6
Total number of imported cases	359	1.5
Number of cases in Healthcare workers	7,813	32.0
Median age (years)	48	-
Age range (years)	0 - 106	-

Confirmed cases

In total 24,451 confirmed cases of COVID-19 were notified in Ireland **before midnight May 21st 2020**, with the first cases reported in Week 10 2020, week ending 07/03/2020 (Figure 1).

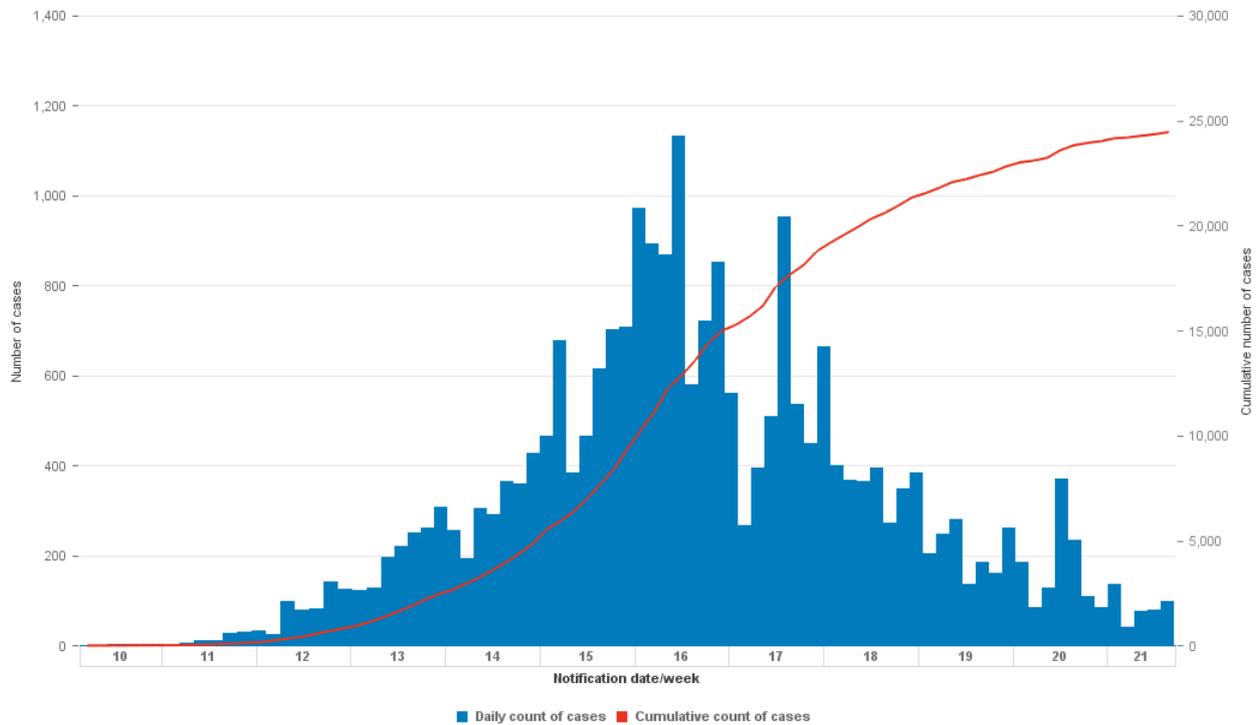


Figure 1: Number and cumulative number of confirmed COVID-19 cases notified in Ireland to midnight May 21st 2020.

Data source: CIDR as of 23/05/2020 9:15

Outbreaks/Clusters

There were 829 outbreaks/clusters of COVID-19 notified on CIDR **before midnight May 21st 2020**.

Table 1: Characteristics of confirmed COVID-19 cases notified as of midnight May 21st 2020, Ireland

Characteristic	Number of cases	%
Total	24,451	100
Sex		
Female	13996	57.2
Male	10418	42.6
Unknown	37	0.2
Age group (years)		
<1	44	0.2
1-4	97	0.4
5-14	288	1.2
15-24	1769	7.2
25-34	4112	16.8
35-44	4306	17.6
45-54	4401	18.0
55-64	3145	12.9
65-74	1749	7.2
75-84	2219	9.1
85+	2297	9.4
Unknown	24	0.1
HSE area		
HSE East	13876	56.8
HSE Midlands	1672	6.8
HSE Mid-West	1346	5.5
HSE North-East	2855	11.7
HSE North-West	689	2.8
HSE South-East	952	3.9
HSE South	1728	7.1
HSE West	1333	5.5

Data source: CIDR as of 23/05/2020 9:15

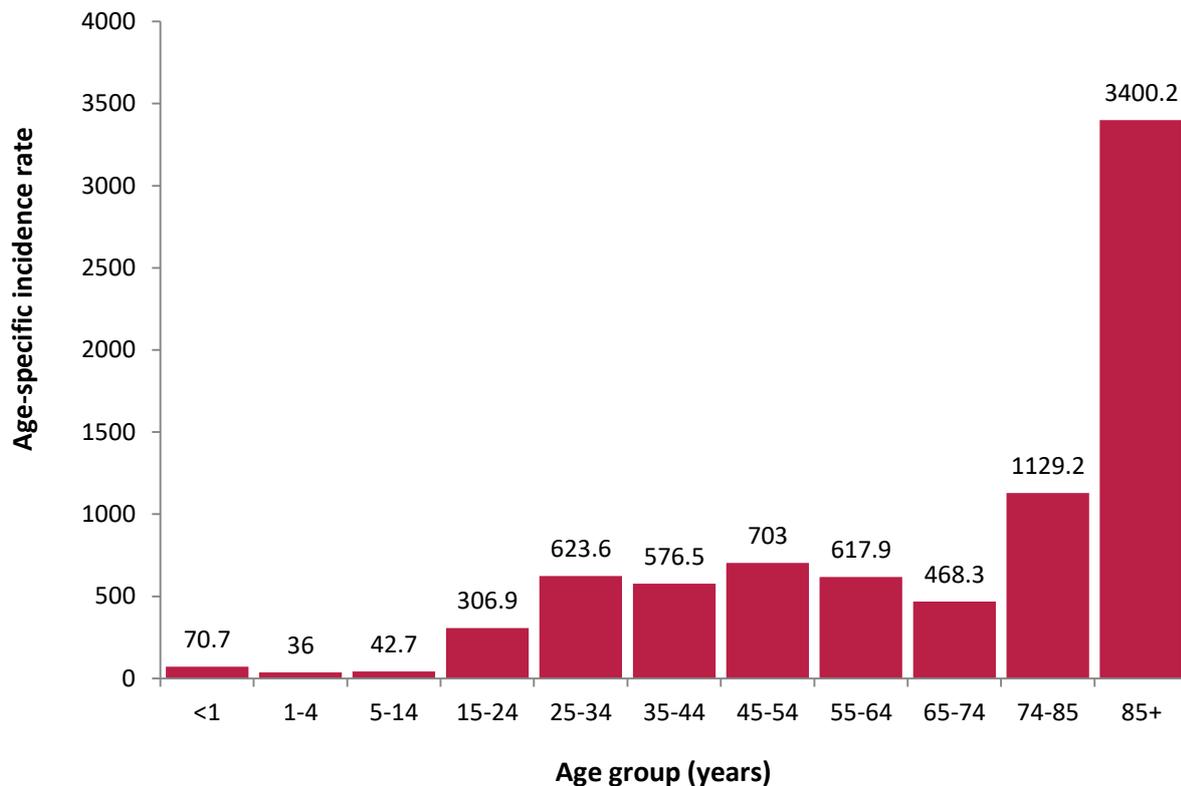
Table 2: Country of Infection of confirmed COVID-19 cases notified as of midnight May 21st 2020, Ireland

Country of infection	Number of cases	% of cases
Ireland	19,851	81.2
Other than Ireland	359	1.5
Unknown	4241	17.3
Total	24,451	100

Data source: CIDR as of 23/05/2020 9:15

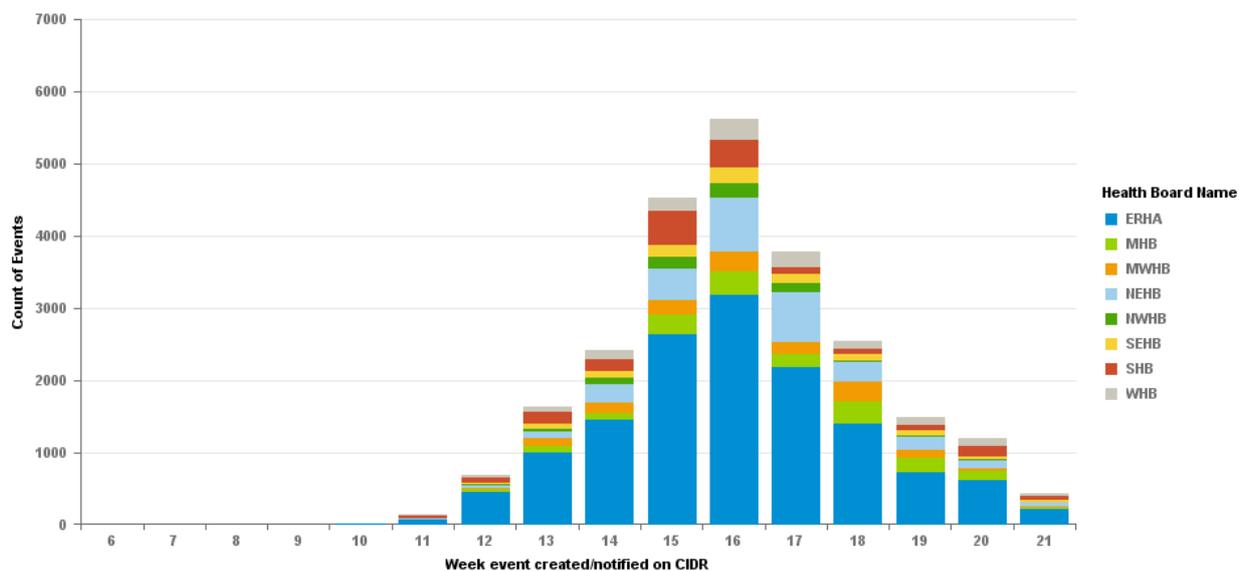
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Figure 2: Age-specific incidence rates of confirmed cases of COVID-19 notified to midnight May 21st 2020, Ireland



Data source: CIDR as of 23/05/2020 9:15, rates are calculated using the 2016 census (www.cso.ie)

Figure 3: Confirmed cases of COVID-19 notified to midnight May 21st 2020, by HSE Area and week of notification



Data source: CIDR as of 23/05/2020 9:15

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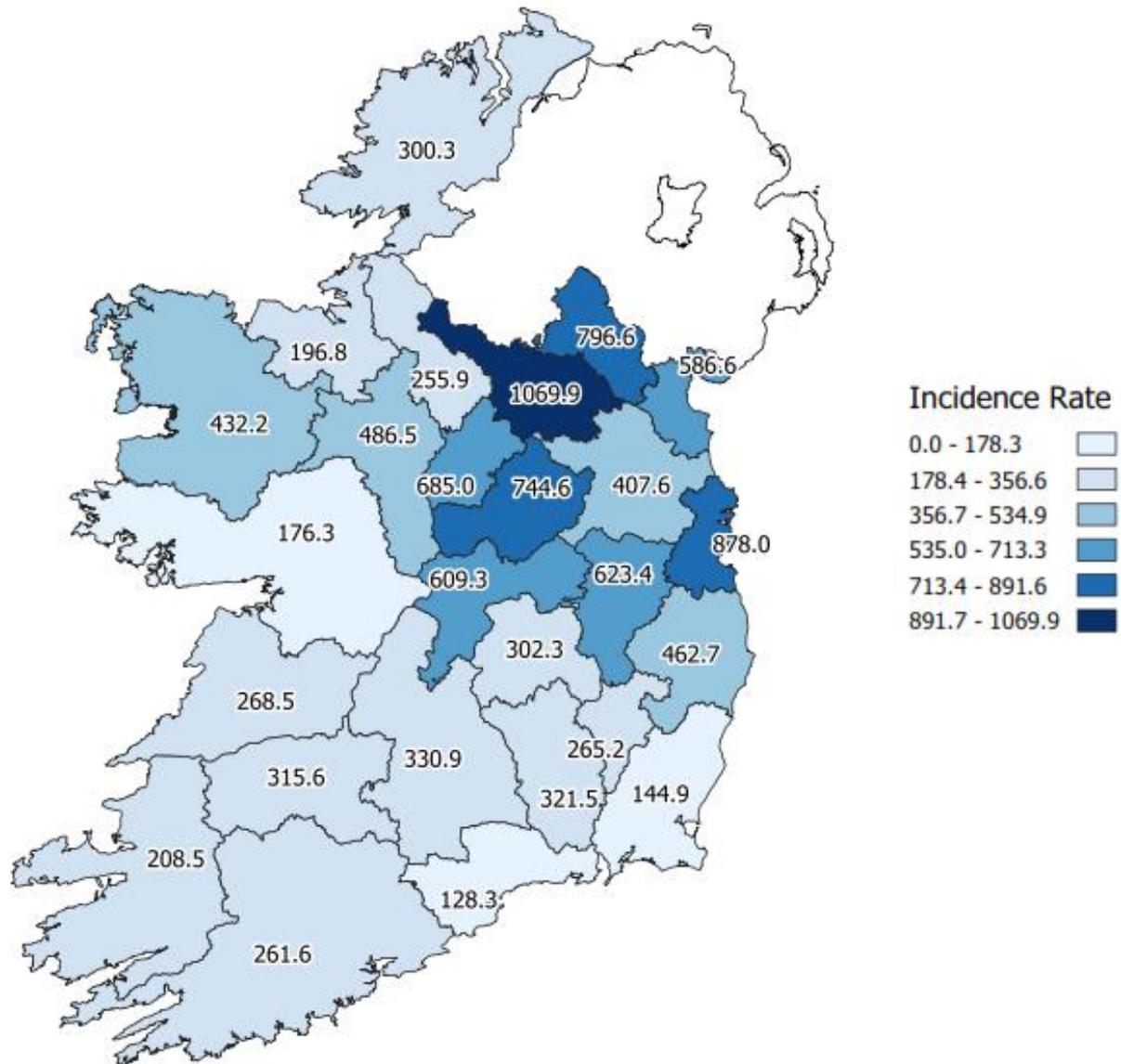


Figure 4: Cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 notified to midnight May 21st 2020 by county, Ireland

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.

Data source: CIDR as of 23/05/2020 9:15, rates are calculated using the 2016 census (www.cso.ie)

Table 3: Number of confirmed cases of COVID-19 notified to midnight May 21st 2020 by county

County Name	Number of cases	%
Carlow	151	0.6
Cavan	815	3.3
Clare	319	1.3
Cork	1420	5.8
Donegal	478	2.0
Dublin	11830	48.4
Galway	455	1.9
Kerry	308	1.3
Kildare	1387	5.7
Kilkenny	319	1.3
Laois	256	1.0
Leitrim	82	0.3
Limerick	615	2.5
Longford	280	1.1
Louth	756	3.1
Mayo	564	2.3
Meath	795	3.3
Monaghan	489	2.0
Offaly	475	1.9
Roscommon	314	1.3
Sligo	129	0.5
Tipperary	528	2.2
Waterford	149	0.6
Westmeath	661	2.7
Wexford	217	0.9
Wicklow	659	2.7
Total	24451	100

Data source: CIDR as of 23/05/2020 9:15

Table 4: Number of confirmed COVID-19 cases notified to midnight May 21st 2020 by transmission classification, Ireland

Transmission classification*	Number of cases	%
Community transmission	2,571	10.5
Possible community transmission	9,482	38.8
Local transmission	6,814	27.9
Possible local transmission	798	3.3
Travel abroad	357	1.5
Possible travel abroad	214	0.9
Unknown	4,215	17.2
Total	24,451	100

*Transmission classification is based on country of infection and enhanced exposure data (international travel; close contact of a case) recorded in CIDR. The World Health Organization's (WHO) Definition of transmission classification is outlined in Appendix 1.

Data source: CIDR as of 23/05/2020 9:15

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Table 5: Number of confirmed cases of COVID-19 notified to midnight May 21st 2020 by age group and hospital, ICU and vital status, Ireland

Age group (years)	Number of cases (n)	Cases hospitalised (n)	Cases hospitalised (%)	Cases admitted to ICU (n)	Cases admitted to ICU (%)	Number of cases that died (n)	Cases that died (%)
<5	141	19	0.6	0	0.0	0	0.0
5 - 14	288	17	0.5	2	0.5	0	0.0
15-24	1769	70	2.2	5	1.3	2	0.1
25-34	4112	191	5.9	14	3.6	5	0.4
35-44	4306	247	7.7	33	8.4	10	0.7
45-54	4401	429	13.4	81	20.6	23	1.7
55-64	3145	476	14.8	113	28.8	58	4.3
65-74	1749	561	17.5	100	25.4	192	14.3
75-84	2219	723	22.5	39	9.9	462	34.5
85+	2297	475	14.8	6	1.5	589	43.9
Unknown	24	3	0.1	0	0.0	0	0.0
Total	24,451	3,211	100	393	100	1,341	100

Data source: CIDR as of 23/05/2020 9:15

Of the 24,451 laboratory confirmed COVID-19 cases, 1,341 have died, giving a case fatality rate of 5.5%. Of the patients who were hospitalised, 12% were admitted to ICU.

Table 6: Number of confirmed cases of COVID-19 notified to midnight May 21st 2020 in healthcare workers by HSE-area and travel status

HSE area	Foreign travel	No foreign travel	Not specified	Total
HSE East	95	4234	291	4620
HSE Midlands	12	300	114	426
HSE Mid-West	16	126	218	360
HSE North-East	11	1078	18	1107
HSE North-West	8	119	129	256
HSE South-East	5	16	296	317
HSE South	22	126	242	390
HSE West	7	86	244	337
Total	176	6085	1552	7813

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Table 7: Number of clusters/outbreaks of COVID-19 notified to midnight May 21st 2020 by location and HSE-area

Outbreak Location	E	M	MW	NE	NW	SE	S	W	Total	%
Nursing home	120	16	13	38	6	15	10	36	254	30.6
Residential institution	105	12	6	15	4	10	20	4	176	21.2
Private house	5	6	13	16	5	23	64	21	153	18.5
Hospital	58	2	2	14	2	3	12	6	99	11.9
Workplace	8	5	5	9	1	4	8	2	42	5.1
Comm. Hosp/Long-stay unit	4	4	1		4	5	6	4	28	3.4
Travel related		3	5	4	2	1	5	2	22	2.7
Extended family	2	1	5		2	3	3	3	19	2.3
Community outbreak	5	1	2	2			1	4	15	1.8
Public house		2	1				1		4	0.5
Hotel	1						2		3	0.4
Other	6		3			1	4		14	1.7
Total	314	52	56	98	26	65	136	82	829	100.1

Data source: CIDR as of 23/05/2020 9:15

Acknowledgements

Sincere thanks are extended to all those who participated in the collection and reporting of data used in this report. This includes the notifying clinicians and staff in laboratories and Departments of Public Health.

Report prepared by Epi Team, HPSC

Appendix 1: World Health Organization's (WHO) Definition of transmission classification

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 indicate locations where all cases have been acquired outside the location of reporting.

Unknown: Transmission is classified as 'unknown' due to incomplete data on CIDR.