



Epidemiology of COVID-19 in Ireland

Report prepared by HPSC on 17/05/2020 for NPHE

Note: Data are provisional

Summary

This report includes data as of 17th May 2020 at 9:20 am for events created on CIDR up to midnight Friday 15th May 2020.

Characteristic	Number	%
Total number of confirmed cases	23,953	
Number of new cases since previous day	112	0.5
National incidence rate per 100,000 population	503.0	
Total number hospitalised	3,117	13.0
Total number admitted to ICU	389	1.6
Total number of deaths	1,288	5.4
National death rate per 100,000 population	27.0	
Total number of outbreaks/clusters	800	-
Total number cases associated with clusters	8,956	37.4
Total number of imported cases	358	1.5
Number of cases in Healthcare workers	7,566	31.6
Median age (years)	48	-
Age range (years)	0 - 106	-

Confirmed cases

In total 23,953 confirmed cases of COVID-19 were notified in Ireland **before midnight May 15th 2020**, with the first cases reported in Week 10 2020, week ending 07/03/2020 (Figure 1).

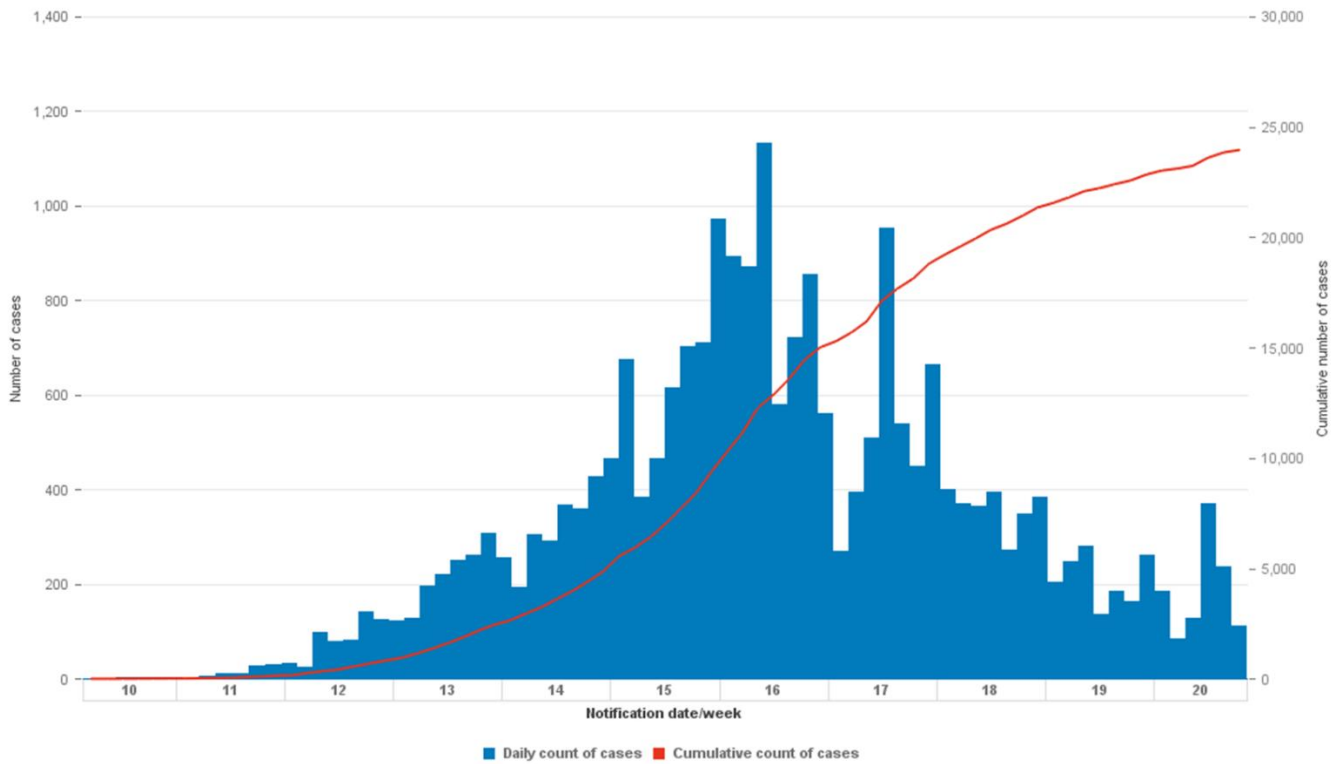


Figure 1: Number and cumulative number of confirmed COVID-19 cases notified in Ireland to midnight May 15th 2020.

Data source: CIDR as of 17/05/2020 9:20

Outbreaks/Clusters

There were 800 outbreaks/clusters of COVID-19 notified on CIDR **before midnight May 15th 2020**.

Table 1: Characteristics of confirmed COVID-19 cases notified as of midnight May 15th 2020, Ireland

Characteristic	Number of cases	%
Total	23,953	100
Sex		
Female	13709	57.2
Male	10195	42.6
Unknown	49	0.2
Age group (years)		
<1	43	0.2
1-4	87	0.4
5-14	270	1.1
15-24	1714	7.2
25-34	4015	16.8
35-44	4201	17.5
45-54	4329	18.1
55-64	3099	12.9
65-74	1716	7.2
75-84	2193	9.2
85+	2262	9.4
Unknown	24	0.1
HSE area		
HSE East	13683	57.1
HSE Midlands	1644	6.9
HSE Mid-West	1326	5.5
HSE North-East	2778	11.6
HSE North-West	683	2.9
HSE South-East	914	3.8
HSE South	1659	6.9
HSE West	1266	5.3

Data source: CIDR as of 17/05/2020 9:20

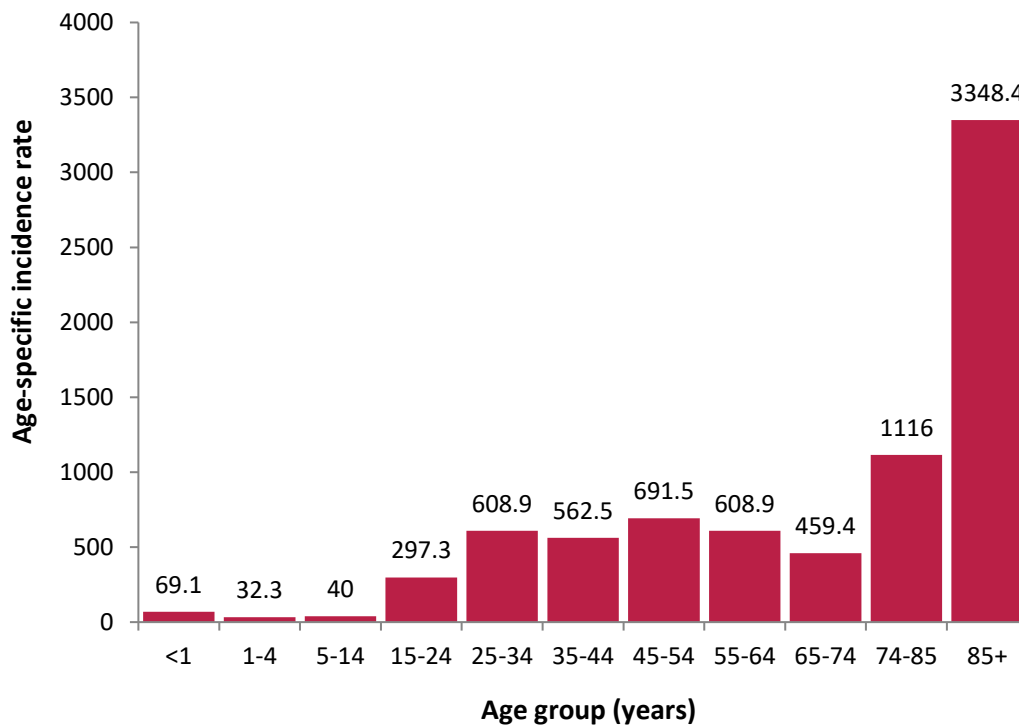
Table 2: Country of Infection of confirmed COVID-19 cases notified as of midnight May 15th 2020, Ireland

Country of infection	Number of cases	% of cases
Ireland	19,351	80.8
Other than Ireland	358	1.5
Unknown	4244	17.7
Total	23,953	100

Data source: CIDR as of 17/05/2020 9:20

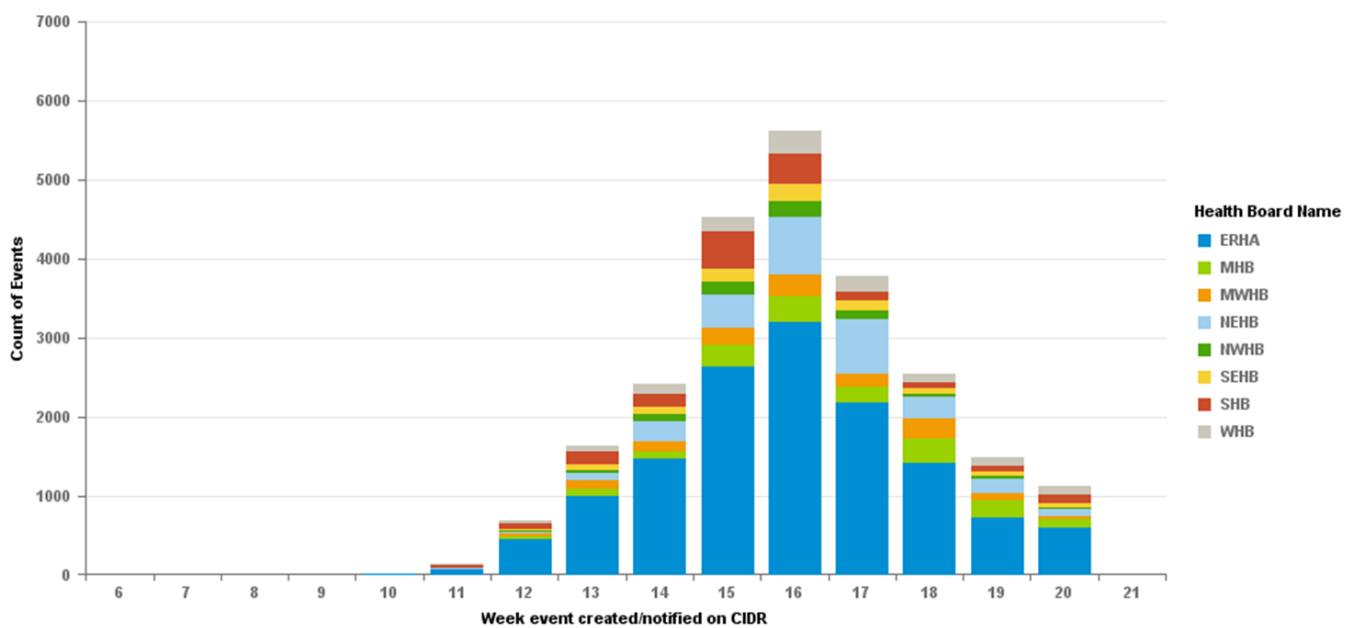
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Figure 2: Age-specific incidence rates of confirmed cases of COVID-19 notified to midnight May 15th 2020, Ireland



Data source: CIDR as of 17/05/2020 9:20, rates are calculated using the 2016 census (www.cso.ie)

Figure 3: Confirmed cases of COVID-19 notified to midnight May 15th 2020, by HSE Area and week of notification



Data source: CIDR as of 17/05/2020 9:20

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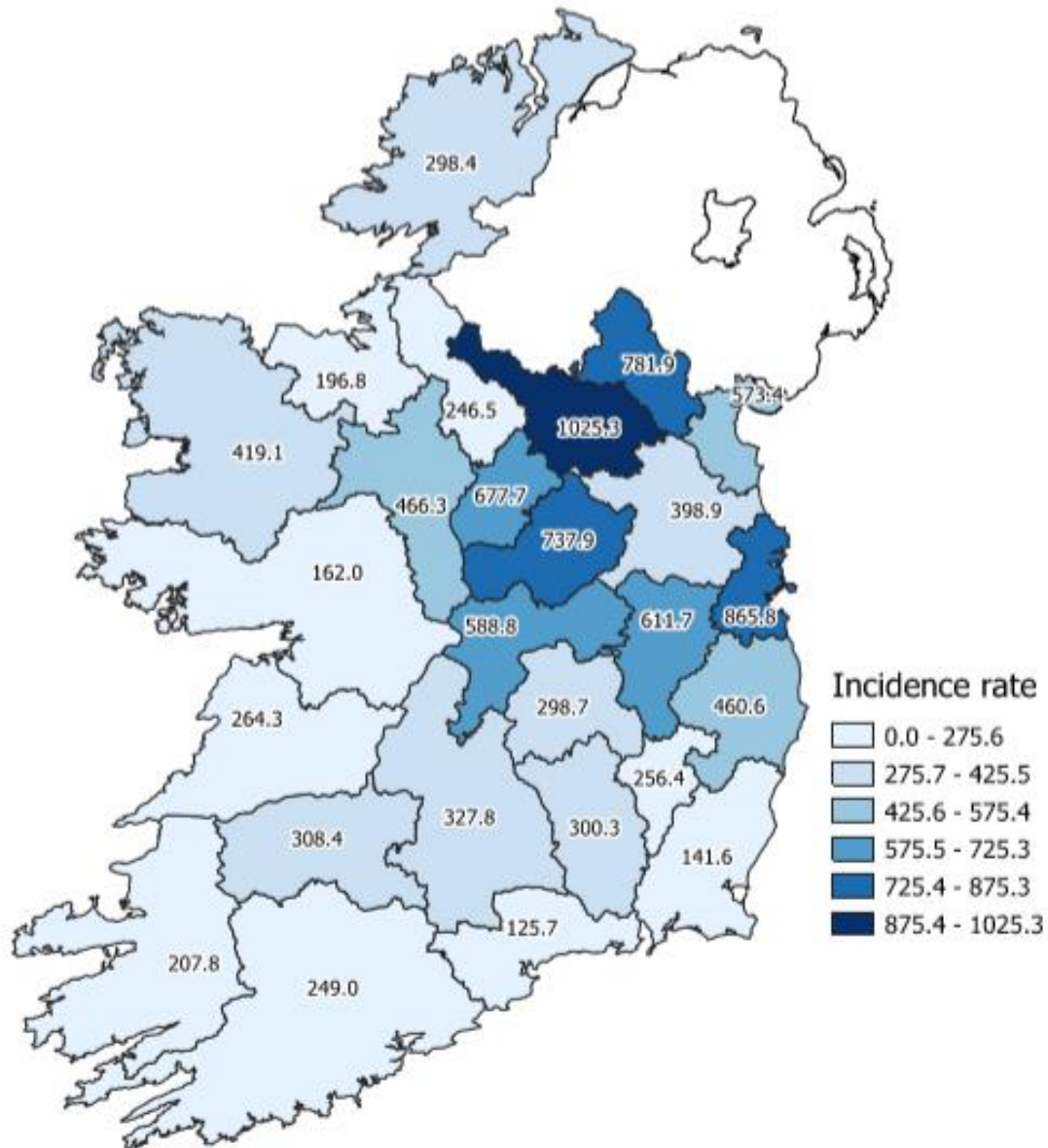


Figure 4: Cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 notified to midnight May 15th 2020 by county, Ireland

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 17/05/2020 9:20, rates are calculated using the 2016 census (www.cso.ie)

Note: Data are provisional

Table 3: Number of confirmed cases of COVID-19 notified to midnight May 15th 2020 by county

County Name	Number of cases	%
Carlow	146	0.6
Cavan	781	3.3
Clare	314	1.3
Cork	1352	5.6
Donegal	475	2.0
Dublin	11666	48.7
Galway	418	1.7
Kerry	307	1.3
Kildare	1361	5.7
Kilkenny	298	1.2
Laois	253	1.1
Leitrim	79	0.3
Limerick	601	2.5
Longford	277	1.2
Louth	739	3.1
Mayo	547	2.3
Meath	778	3.2
Monaghan	480	2.0
Offaly	459	1.9
Roscommon	301	1.3
Sligo	129	0.5
Tipperary	523	2.2
Waterford	146	0.6
Westmeath	655	2.7
Wexford	212	0.9
Wicklow	656	2.7
Total	23953	100

Data source: CIDR as of 17/05/2020 9:20

Table 4: Number of confirmed COVID-19 cases notified to midnight May 15th 2020 by transmission classification, Ireland

Transmission classification*	Number of cases	%
Community transmission	2,554	10.7
Possible community transmission	9,263	38.7
Local transmission	6,545	27.3
Possible local transmission	807	3.4
Travel abroad	356	1.5
Possible travel abroad	214	0.9
Unknown	4,214	17.6
Total	23,953	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 17/05/2020 9:20

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Table 5: Number of confirmed cases of COVID-19 notified to midnight May 15th 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	130	19	0.6	0	0.0	0	0.0
5 - 14	270	17	0.5	2	0.5	0	0.0
15-24	1714	70	2.2	5	1.3	2	0.2
25-34	4015	187	6.0	15	3.9	5	0.4
35-44	4201	247	7.9	32	8.2	10	0.8
45-54	4329	420	13.5	80	20.6	23	1.8
55-64	3099	453	14.5	111	28.5	55	4.3
65-74	1716	546	17.5	97	24.9	186	14.4
75-84	2193	705	22.6	40	10.3	444	34.5
85+	2262	451	14.5	7	1.8	563	43.7
Unknown	24	2	0.1	0	0.0	0	0.0
Total	23953	3117	100	389	100	1288	100

Data source: CIDR as of 17/05/2020 9:20

Of the 23,953 laboratory confirmed COVID-19 cases, 1,288 have died, giving a case fatality rate of 5.4%. Of the patients who were hospitalised, 12% were admitted to ICU.

Table 6: Number of confirmed cases of COVID-19 notified to midnight May 15th 2020 in healthcare workers by HSE-area and travel status

HSE area	Foreign travel	No foreign travel	Not specified	Total
HSE East	95	4155	298	4548
HSE Midlands	12	291	113	416
HSE Mid-West	16	127	209	352
HSE North-East	11	730	291	1032
HSE North-West	8	116	128	252
HSE South-East	5	15	267	287
HSE South	22	122	241	385
HSE West	7	84	203	294
Total	176	5640	1750	7566

Data source: CIDR as of 17/05/2020 9:20

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Table 7: Number of clusters/outbreaks of COVID-19 notified to midnight May 15th 2020 by location and HSE-area

Outbreak Location	E	M	MW	NE	NW	SE	S	W	Total	%
Nursing home	119	16	12	38	7	15	12	36	255	31.9
Residential institution	99	11	6	13	4	10	20	4	167	20.9
Private house	5	6	10	9	5	24	65	21	145	18.1
Hospital	53	2	2	14	2	2	12	6	93	11.6
Workplace	7	5	5	7	1	4	7	2	38	4.8
Comm. Hosp/Long-stay unit	6	4			4	5	8	4	31	3.9
Travel related		3	5	4	2	1	5	2	22	2.8
Extended family	2		5		2	3	3	2	17	2.1
Community outbreak	5	1	2	2			1	3	14	1.8
Other	3		3			2	4		12	1.5
Public house		2	1				1		4	0.5
Hotel							2		2	0.3
Total	299	50	51	87	27	66	140	80	800	100.2

Data source: CIDR as of 17/05/2020 9:20

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.