



Epidemiology of COVID-19 in Ireland

Report prepared by HPSC on 01/05/2020 for NPHE

Note: Data are provisional

Summary

This report includes data as of 01st May 2020 at 9:30 am for events created on CIDR up to midnight Wednesday 29th April 2020.

Characteristic	Number	%
Total number of confirmed cases	20,510	
Number of new cases since previous day	399	1.9
Total number hospitalised	2,768	13.5
Total number admitted to ICU	367	1.8
Total number of deaths	1,033	5.0
Total number of outbreaks/clusters	646	-
Total number cases associated with clusters	6,619	32.3
Total number of imported cases	360	1.8
Number of cases in Healthcare workers	5,840	28.5
Median age (years)	49	-
Age range (years)	0-106	-

Confirmed cases

In total, 20,510 confirmed cases of COVID-19 were notified in Ireland **before midnight April 29th 2020**, with the first cases reported in Week 10 2020, week ending 07/03/2020 (Figure 1).

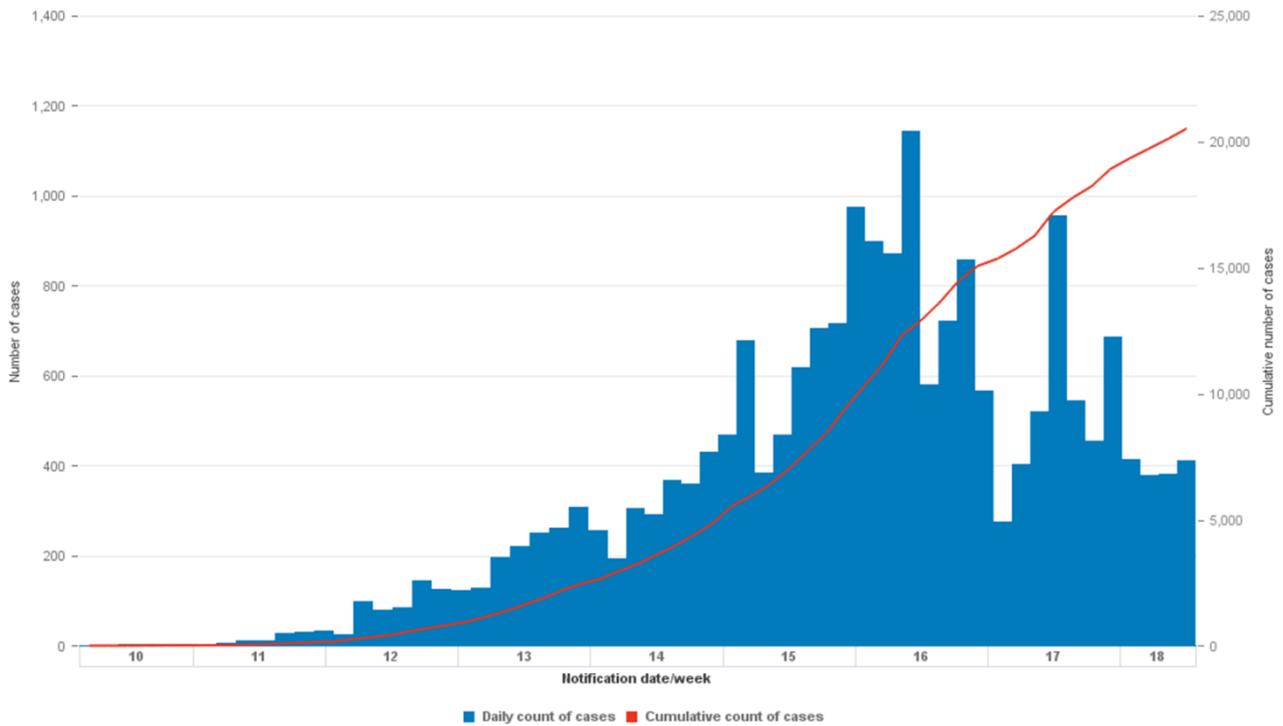


Figure 1: Number and cumulative number of confirmed COVID-19 cases notified in Ireland to midnight April 29th 2020

Data source: CIDR as of 01/05/2020 9:30

Outbreaks/Clusters

There were 646 outbreaks/clusters of COVID-19 notified on CIDR **before midnight April 29th 2020**.

Table 1: Characteristics of confirmed COVID-19 cases notified as of midnight April 29th 2020, Ireland

Characteristic	Number of cases	%
Total	20,510	100
Sex		
Female	11841	57.7
Male	8605	42.0
Unknown	64	0.3
Age group (years)		
<1	35	0.2
1-4	66	0.3
5-14	205	1.0
15-24	1363	6.6
25-34	3271	15.9
35-44	3491	17.0
45-54	3752	18.3
55-64	2706	13.2
65+	5596	27.3
Unknown	25	0.1
HSE area		
HSE East	11984	58.4
HSE Midlands	1144	5.6
HSE Mid-West	1149	5.6
HSE North-East	2382	11.6
HSE North-West	643	3.1
HSE South-East	770	3.8
HSE South	1447	7.1
HSE West	991	4.8

Data source: CIDR as of 01/05/2020 9:30

Table 2: Country of Infection of confirmed COVID-19 cases notified as of midnight April 29th 2020, Ireland

Country of infection	Number of cases	% of cases
Ireland	15,703	76.6
Other than Ireland	360	1.8
Unknown	447	21.7
Total	20,510	100

Data source: CIDR as of 01/05/2020 9:30

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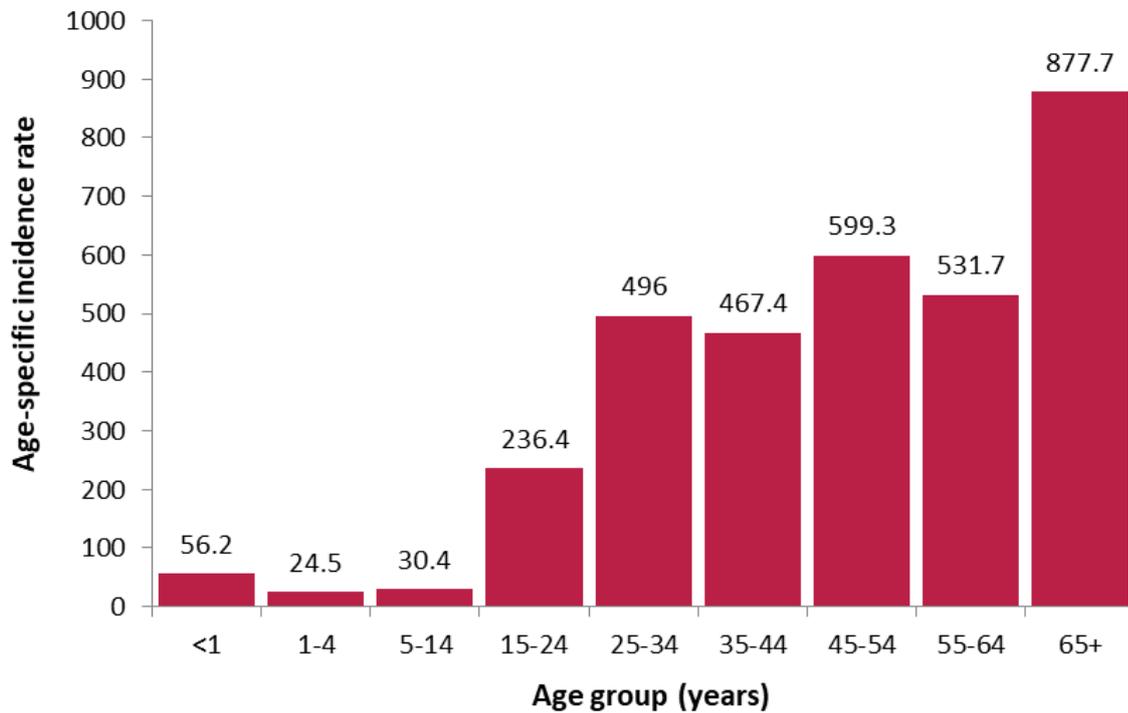


Figure 2: Age-specific incidence rates of confirmed cases of COVID-19 notified to midnight April 29th 2020, Ireland

Data source: CIDR as of 01/05/2020 9:30, rates are calculated using the 2016 census (www.cso.ie)

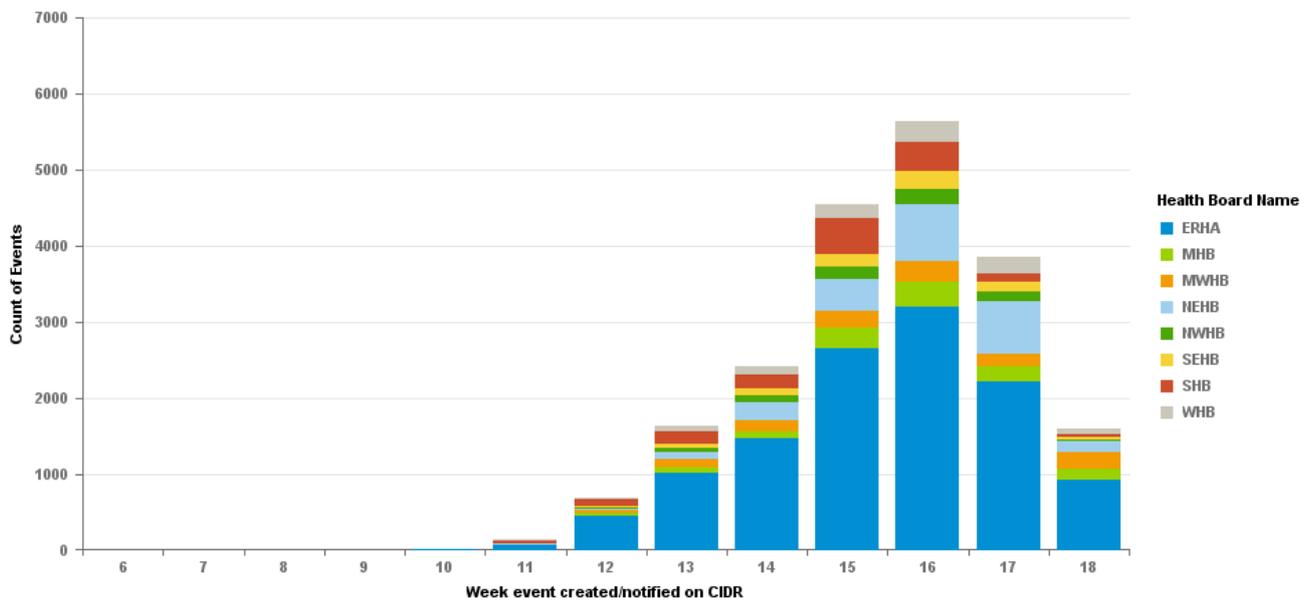


Figure 3: Confirmed cases of COVID-19 notified to midnight April 29th 2020, by HSE Area and week of notification

Data source: CIDR as of 01/05/2020 9:30

Note: Data are provisional

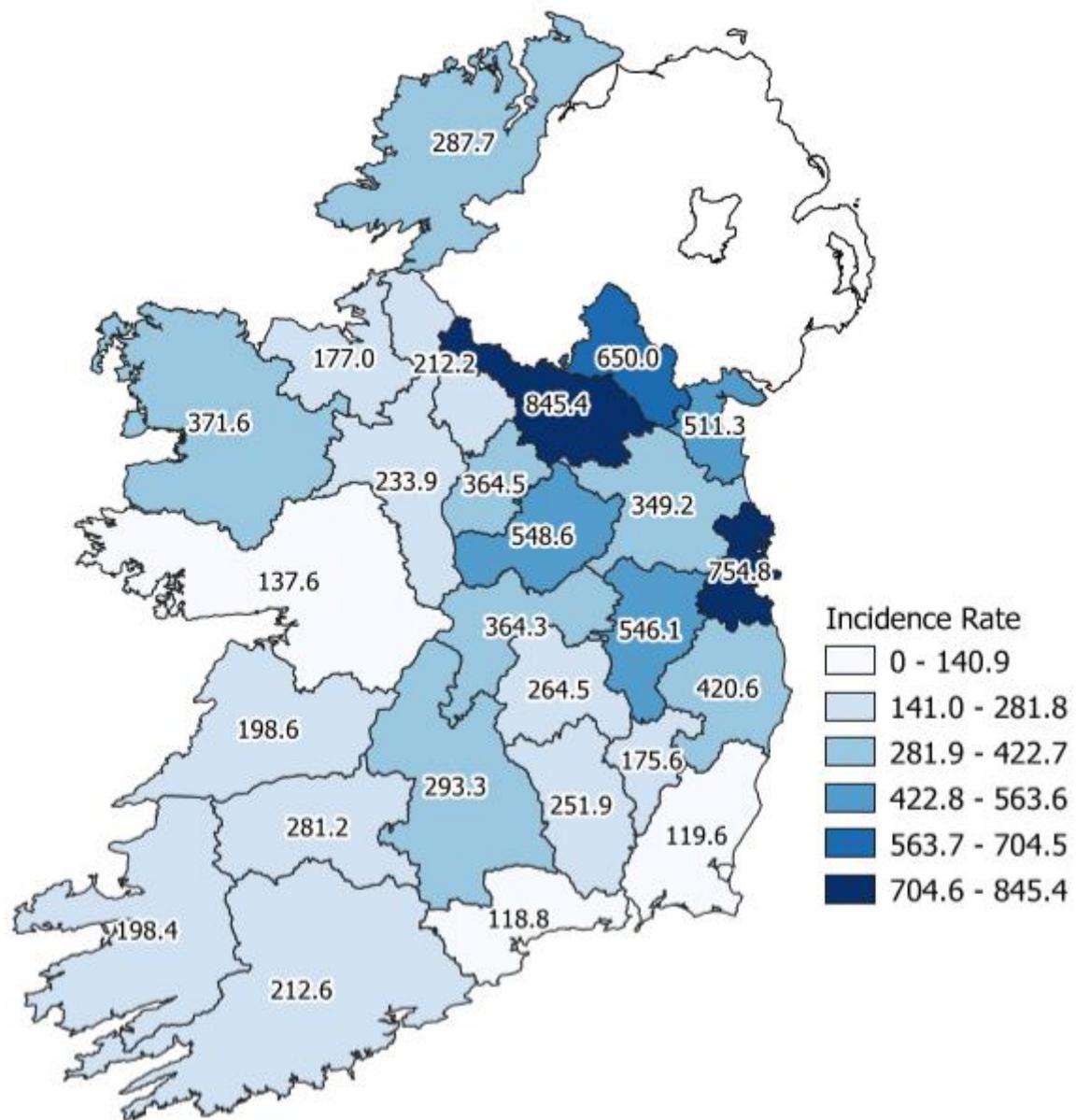


Figure 4: Cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 notified to midnight April 29th 2020 by county, Ireland

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 01/05/2020 9:30, rates are calculated using the 2016 census (www.cso.ie)

Table 3: Number of confirmed cases of COVID-19 notified to midnight April 29th 2020 by county

County Name	Number of cases	%
Carlow	100	0.5
Cavan	644	3.1
Clare	236	1.2
Cork	1154	5.6
Donegal	458	2.2
Dublin	10170	49.6
Galway	355	1.7
Kerry	293	1.4
Kildare	1215	5.9
Kilkenny	250	1.2
Laois	224	1.1
Leitrim	68	0.3
Limerick	548	2.7
Longford	149	0.7
Louth	659	3.2
Mayo	485	2.4
Meath	681	3.3
Monaghan	399	1.9
Offaly	284	1.4
Roscommon	151	0.7
Sligo	116	0.6
Tipperary	468	2.3
Waterford	138	0.7
Westmeath	487	2.4
Wexford	179	0.9
Wicklow	599	2.9
Total	20,510	100

Data source: CIDR as of 01/05/2020 9:30

Table 4: Number of confirmed COVID-19 cases notified to midnight April 29th 2020 by transmission classification, Ireland

Transmission classification*	Number of cases	%
Community transmission	2,509	12.2
Possible community transmission	7,689	23.8
Local transmission	4,888	37.5
Possible local transmission	477	2.3
Travel abroad	347	1.7
Possible travel abroad	180	0.9
Unknown	4,420	21.6
Total	20,510	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 01/05/2020 9:30

Note: Data are provisional

Table 5: Number of confirmed cases of COVID-19 notified to midnight April 29th 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	101	16	0.6	0	0.0	0	0.0
5 - 14	205	8	0.3	1	0.3	0	0.0
15-24	1363	56	2.0	6	1.6	2	0.2
25-34	3271	173	6.3	13	3.5	4	0.4
35-44	3491	232	8.4	32	8.7	9	0.9
45-54	3752	368	13.3	79	21.5	20	1.9
55-64	2706	416	15.0	103	28.1	46	4.5
65+	5596	1496	54.0	133	36.2	952	92.2
Unknown	25	3	0.1	0	0.0	0	0.0
Total	20510	2768	100	367	100	1033	100

Data source: CIDR as of 01/05/2020 9:30

Of the 20,510 laboratory confirmed COVID-19 cases, 1033 have died, giving a case fatality rate of 5.0%. Of the patients who were hospitalised, 13% were admitted to ICU.

Table 6: Number of confirmed cases of COVID-19 notified to midnight April 29th 2020 in healthcare workers by HSE-area and travel status

HSE area	Foreign travel	No foreign travel	Not specified	Total
HSE East	86	3109	195	3390
HSE Midlands	11	236	109	356
HSE Mid-West	15	89	176	280
HSE North-East	6	40	746	792
HSE North-West	8	114	107	229
HSE South-East	5	3	216	224
HSE South	20	108	209	337
HSE West	7	82	143	232
Total	158	3781	1901	5840

Data source: CIDR as of 01/05/2020 9:30

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Table 7: Number of clusters/outbreaks of COVID-19 notified to midnight April 29th 2020 by location and HSE-area

Outbreak Location	E	M	MW	NE	NW	SE	S	W	Total	%
Nursing home	100	14	11	37	5	11	8	32	218	33.7
Residential institution	69	12	2	10	5	7	14	5	124	19.2
Private house	2	6	7	9	5	8	39	21	97	15
Hospital	45	2	2	12	2	3	11	6	83	12.8
Comm. Hosp/Long-stay unit	5	4			4	4	8	2	27	4.2
Workplace	6	6	3	3	1	4	6	2	31	4.8
Travel related		3	5	4	2	1	5	2	22	3.4
Extended family	2		4		2	3	3	1	15	2.3
Other	3		2	2		1	4		12	1.9
Community outbreak	4	1	1	1			1	2	10	1.5
Public house		2	1				1		4	0.6
Hotel							1		1	0.2
Not Specified	1						1		2	0.3
Total	237	50	38	78	26	42	102	73	646	100

Data source: CIDR as of 01/05/2020 09:30

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.