



Epidemiology of COVID-19 in Ireland

Report prepared by HPSC on 04/05/2020 for NPHE

Note: Data are provisional

Summary

This report includes data as of 4th May 2020 at 11:15 am for events created on CIDR up to midnight Saturday 2nd May 2020.

Characteristic	Number	%
Total number of confirmed cases	21,437	
Number of new cases since previous day	373	1.7
Total number hospitalised	2,840	13.2
Total number admitted to ICU	364	1.7
Total number of deaths	1,088	5.1
Total number of outbreaks/clusters	703	-
Total number cases associated with clusters	7,093	33.1
Total number of imported cases	363	1.7
Number of cases in Healthcare workers	6,211	29.0
Median age (years)	49	-
Age range (years)	0-106	-

Confirmed cases

In total, 21,437 confirmed cases of COVID-19 were notified in Ireland **before midnight May 2nd 2020**, with the first cases reported in Week 10 2020, week ending 07/03/2020 (Figure 1).

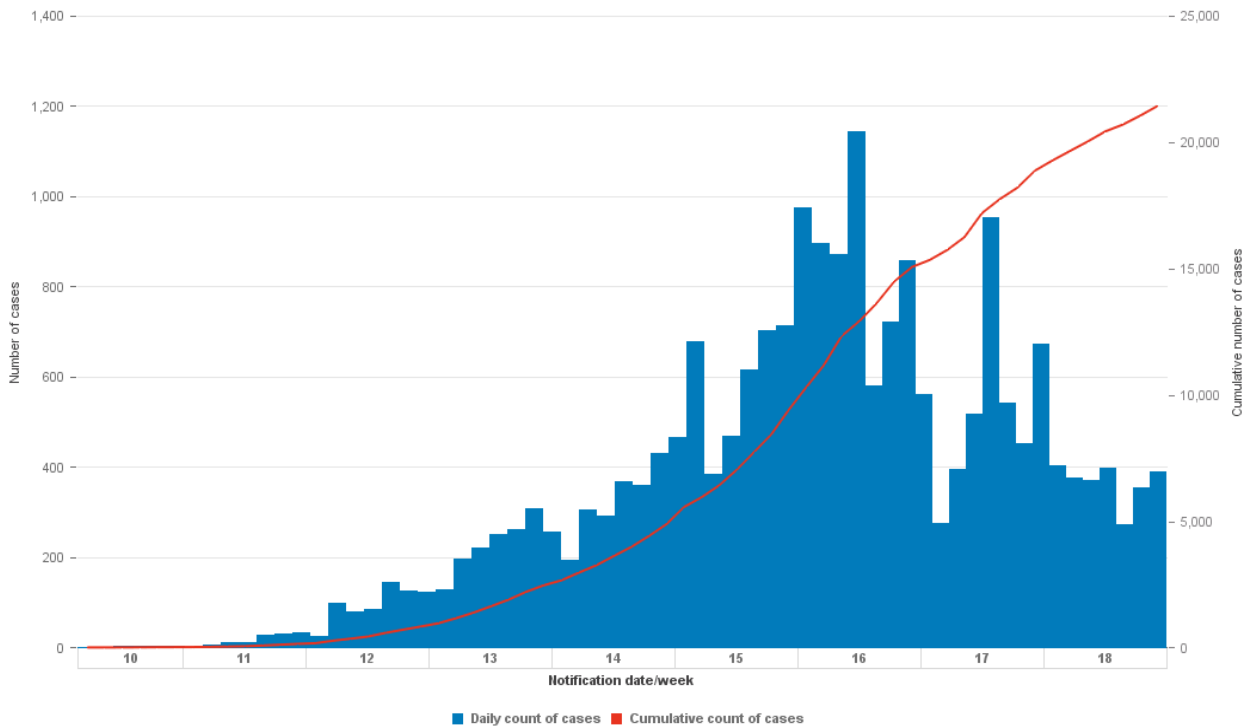


Figure 1: Number and cumulative number of confirmed COVID-19 cases notified in Ireland to midnight May 2nd 2020

Data source: CIDR as of 04/05/2020 11:30

Outbreaks/Clusters

There were 703 outbreaks/clusters of COVID-19 notified on CIDR **before midnight May 2nd 2020**.

Table 1: Characteristics of confirmed COVID-19 cases notified as of midnight May 2nd 2020, Ireland

Characteristic	Number of cases	%
Total	21,437	100
Sex		
Female	12334	57.5
Male	9045	42.2
Unknown	58	0.3
Age group (years)		
<1	39	0.2
1-4	70	0.3
5-14	223	1.0
15-24	1460	6.8
25-34	3463	16.2
35-44	3667	17.1
45-54	3918	18.3
55-64	2816	13.1
65+	5758	26.9
Unknown	23	0.1
HSE area		
HSE East	12451	58.1
HSE Midlands	1304	6.1
HSE Mid-West	1204	5.6
HSE North-East	2496	11.6
HSE North-West	655	3.1
HSE South-East	814	3.8
HSE South	1473	6.9
HSE West	1040	4.9

Data source: CIDR as of 04/05/2020 11:30

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

Country of infection	Number of cases	% of cases
Ireland	16,476	76.9
Other than Ireland	363	1.7
Unknown	4598	21.4
Total	21,437	100

Data source: CIDR as of 04/05/2020 11:30

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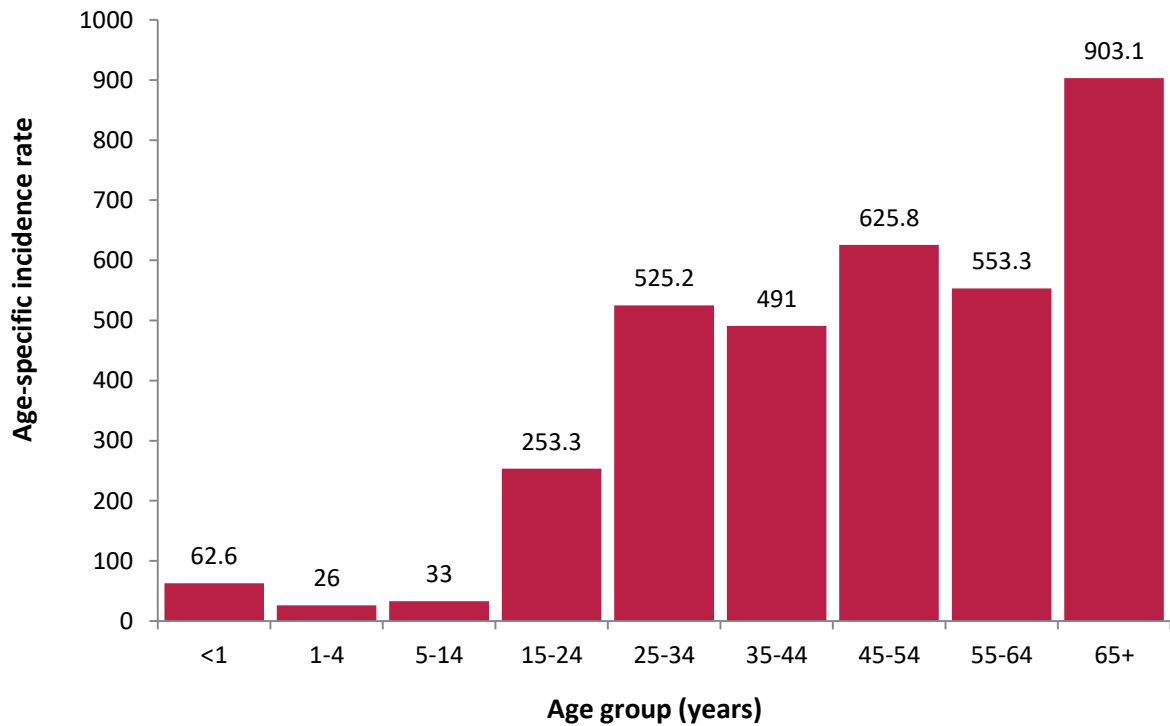


Figure 2: Age-specific incidence rates of confirmed cases of COVID-19 notified to midnight May 2nd 2020, Ireland

Data source: CIDR as of 04/05/2020 11:30, rates are calculated using the 2016 census (www.cso.ie)

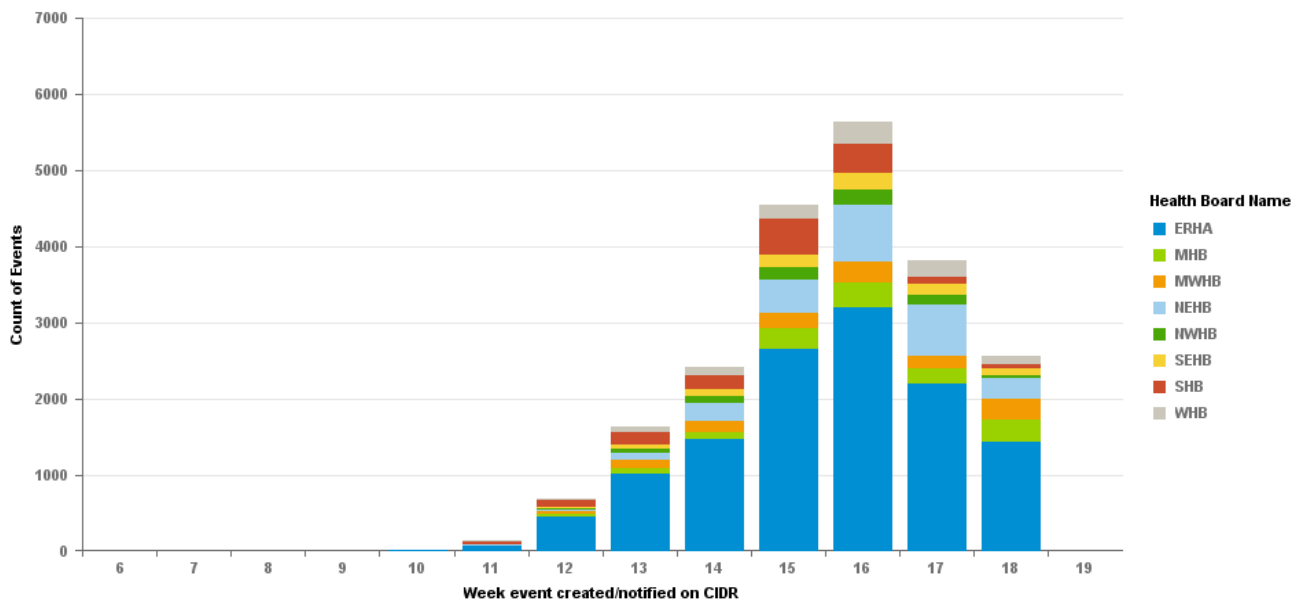


Figure 3: Confirmed cases of COVID-19 notified to midnight May 2nd 2020, by HSE Area and week of notification

Data source: CIDR as of 04/05/2020 11:30

Note: Data are provisional

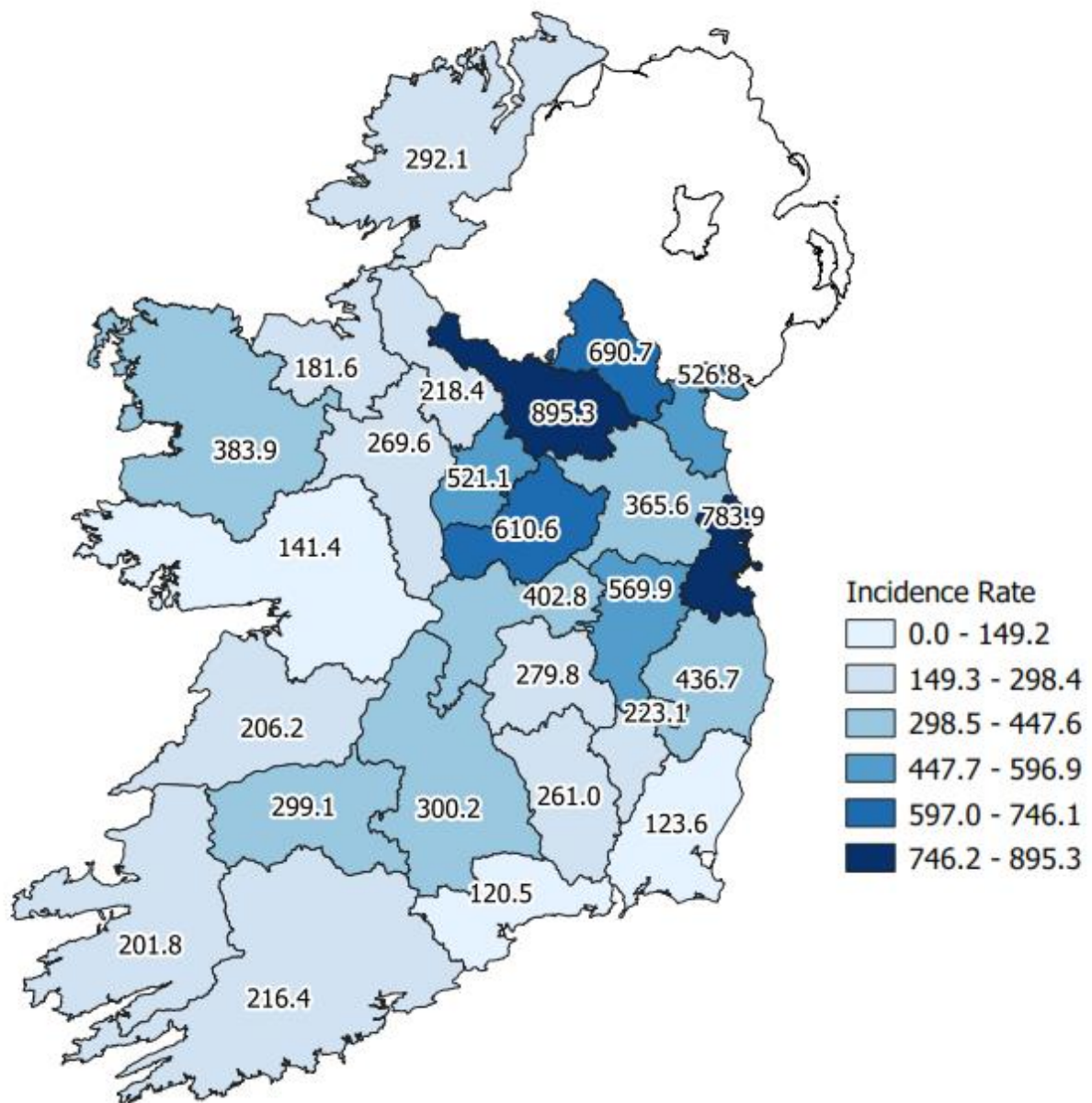


Figure 4: Cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 notified to midnight May 2nd 2020 by county, Ireland

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 04/05/2020 11:30, rates are calculated using the 2016 census (www.cso.ie)

Table 3: Number of confirmed cases of COVID-19 notified to midnight May 2nd 2020 by county

County Name	Number of cases	%
Carlow	127	0.6
Cavan	682	3.2
Clare	245	1.1
Cork	1175	5.5
Donegal	465	2.2
Dublin	10561	49.3
Galway	365	1.7
Kerry	298	1.4
Kildare	1268	5.9
Kilkenny	259	1.2
Laois	237	1.1
Leitrim	70	0.3
Limerick	583	2.7
Longford	213	1.0
Louth	679	3.2
Mayo	501	2.3
Meath	713	3.3
Monaghan	423	2.0
Offaly	314	1.5
Roscommon	174	0.8
Sligo	119	0.6
Tipperary	479	2.2
Waterford	140	0.7
Westmeath	540	2.5
Wexford	185	0.9
Wicklow	622	2.9
Total	21437	100

Data source: CIDR as of 04/05/2020 11:30

Table 4: Number of confirmed COVID-19 cases notified to midnight May 2nd 2020 by transmission classification, Ireland

Transmission classification*	Number of cases	%
Community transmission	2,524	11.8
Possible community transmission	8,048	37.5
Local transmission	5,248	24.5
Possible local transmission	504	2.4
Travel abroad	350	1.6
Possible travel abroad	179	0.8
Unknown	4,584	21.4
Total	21,437	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 04/05/2020 11:30

Note: Data are provisional

Table 5: Number of confirmed cases of COVID-19 notified to midnight May 2nd 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	109	18	0.6	0	0	0	0
5 - 14	223	12	0.4	1	0.3	0	0
15-24	1460	58	2.0	5	1.4	2	0.2
25-34	3463	176	6.2	14	3.8	4	0.4
35-44	3667	236	8.3	30	8.2	9	0.8
45-54	3918	383	13.5	78	21.4	20	1.8
55-64	2816	423	14.9	103	28.3	47	4.3
65+	5758	1532	53.9	133	36.5	1006	92.5
Unknown	23	2	0.1	0	0	0	0
Total	21,437	2,840	100	364	100	1,088	100

Data source: CIDR as of 04/05/2020 11:30

Of the 21,437 laboratory confirmed COVID-19 cases, 1,088 have died, giving a case fatality rate of 5.1%. Of the patients who were hospitalised, 13% were admitted to ICU.

Table 6: Number of confirmed cases of COVID-19 notified to midnight May 2nd 2020 in healthcare workers by HSE-area and travel status

HSE area	Foreign travel	No foreign travel	Not specified	Total
HSE East	89	3386	208	3683
HSE Midlands	11	247	108	366
HSE Mid-West	16	91	183	290
HSE North-East	8	119	697	824
HSE North-West	8	114	111	233
HSE South-East	5	3	228	236
HSE South	20	108	210	338
HSE West	7	82	152	241
Total	164	4150	1897	6211

Data source: CIDR as of 04/05/2020 11:30

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Table 7: Number of clusters/outbreaks of COVID-19 notified to midnight May 2nd 2020 by location and HSE-area

Outbreak Location	E	M	MW	NE	NW	SE	S	W	Total	%
Nursing home	103	15	11	38	5	13	8	32	225	32
Residential institution	74	13	2	11	5	9	16	4	134	19.1
Private house	4	6	9	9	5	8	64	21	126	17.9
Hospital	50	2	2	12	2	3	12	5	88	12.5
Workplace	7	6	5	3	1	4	6	2	34	4.8
Comm. Hosp/Long-stay unit	5	4			4	4	8	4	29	4.1
Travel related		3	5	4	2	1	5	2	22	3.1
Extended family	2		4		2	3	3	1	15	2.1
Community outbreak	4	1	1	2			1	3	12	1.7
Public house		2	1				1		4	0.6
Hotel							1		1	0.1
Other	3		2	1		1	4		11	1.6
Not Specified	1						1		2	0.3
Total	253	52	42	80	26	46	130	74	703	100

Data source: CIDR as of 04/05/2020 11:30

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.