



Epidemiology of COVID-19 in Ireland

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

Note: Data are provisional

Summary

This report includes data as of 5th April 2020 11:25 for events created on CIDR up to midnight Friday 3rd April 2020.

Characteristic	Number	%
Total number of confirmed cases	4443	
Number of new cases April 3 rd	430	9.7
Total number hospitalised	1203	27.1
Total number admitted to ICU	165	3.7
Total number of deaths	151	3.4
Total number of outbreaks/clusters	236	-
Total number cases associated with clusters	903	20.3
Total number of imported cases	319	7.2
Number of cases in Healthcare workers	1163	26.2
Median age (years)	48	-
Age range (years)	0 - 99	-

Confirmed cases

In total, 4,443 confirmed cases of COVID-19 were notified in Ireland **before midnight April 3rd 2020**, with the first cases reported in Week 10 2020, week ending 07/03/2020 (Figure 1).

Outbreaks/Clusters

Two hundred and thirty six outbreaks/clusters of COVID-19 were notified on CIDR **before midnight April 3rd 2020**.

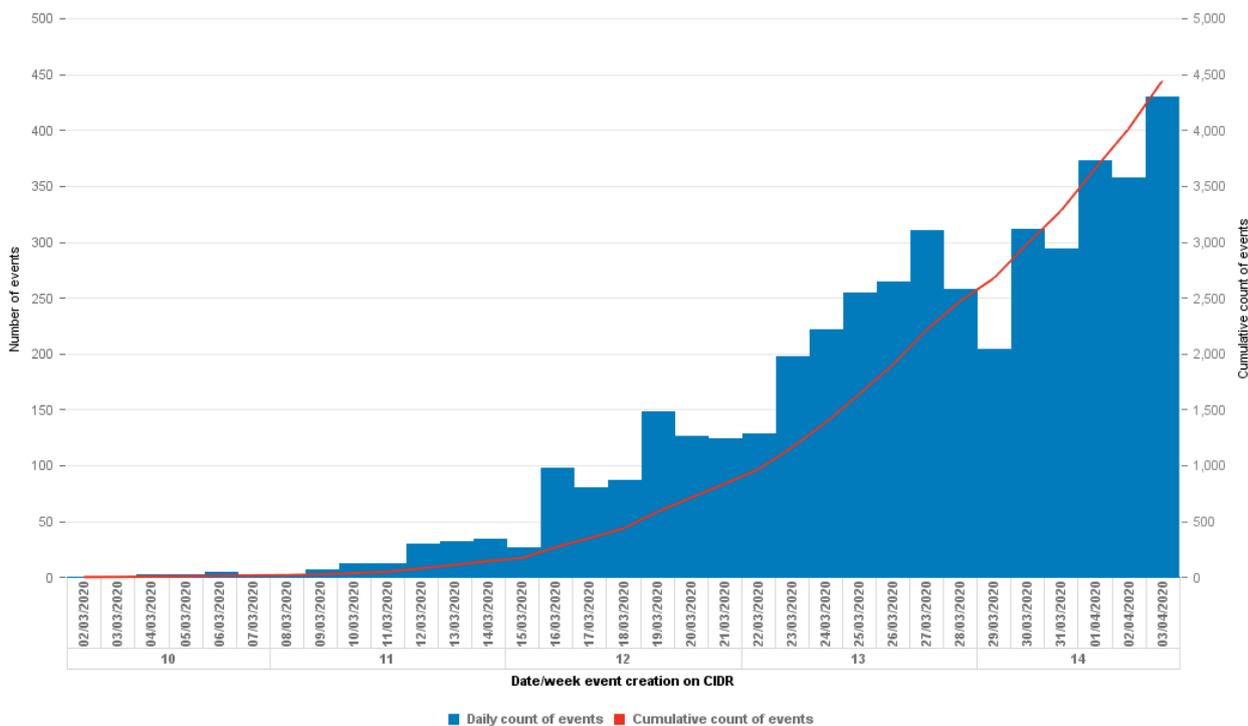


Figure 1: Number and cumulative number of confirmed COVID-19 cases notified in Ireland to midnight April 3rd 2020

Data source: CIDR as of 05/04/2020 11:25

Table 1: Characteristics of confirmed COVID-19 cases notified as of midnight April 3rd 2020, Ireland

Characteristic	Number of cases	%
Total	4443	100
Sex		
Female	2335	52.6
Male	2072	46.6
Unknown	36	0.8
Age group (years)		
<1	11	0.2
1-4	13	0.3
5-14	35	0.8
15-24	270	6.1
25-34	748	16.8
35-44	808	18.2
45-54	830	18.7
55-64	647	14.6
65+	1070	24.1
Unknown	11	0.2
HSE area		
HSE East	2774	62.4
HSE Midlands	197	4.4
HSE Mid-West	266	6.0
HSE North-East	269	6.1
HSE North-West	122	2.7
HSE South-East	186	4.2
HSE South	428	9.6
HSE West	201	4.5

Data source: CIDR as of 05/04/2020 11:25

Table 2: Country of Infection of confirmed COVID-19 cases notified as of midnight April 3rd 2020, Ireland

Country of infection	Number of cases	%
Algeria	1	0
Andorra	4	0.1
Argentina	1	0
Austria	52	1.2
Brazil	1	0
Bulgaria	3	0.1
Czech Republic	1	0
Denmark	1	0
Ecuador	1	0
Finland	1	0
France	24	0.5
Germany	2	0
Hungary	1	0
Indonesia	1	0
Ireland	2742	61.7
Isle of Man	1	0
Italy	61	1.4
Japan	1	0
Kazakhstan	1	0
Netherlands	5	0.1
Philippines	3	0.1
Poland	1	0
Portugal	2	0
Singapore	2	0
Spain	35	0.8
Sri Lanka	1	0
Sweden	1	0
Switzerland	7	0.2
Thailand	1	0
United kingdom	89	2
United states	14	0.3
Unknown	1382	31.1
Total	4443	100

Data source: CIDR as of 05/04/2020 11:25

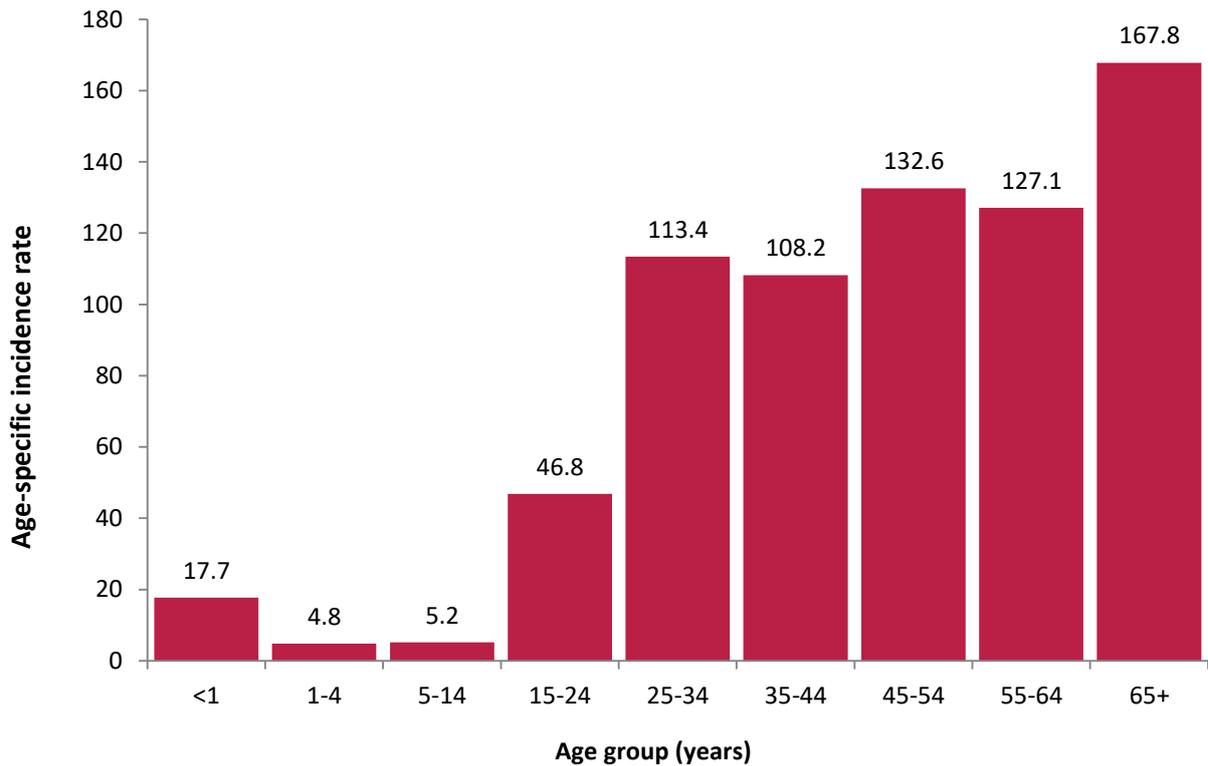


Figure 2: Age-specific incidence rates of confirmed cases of COVID-19 notified to midnight April 3rd 2020, Ireland

Data source: CIDR as of 05/04/2020 11:25, rates are calculated using the 2016 census (www.cso.ie)

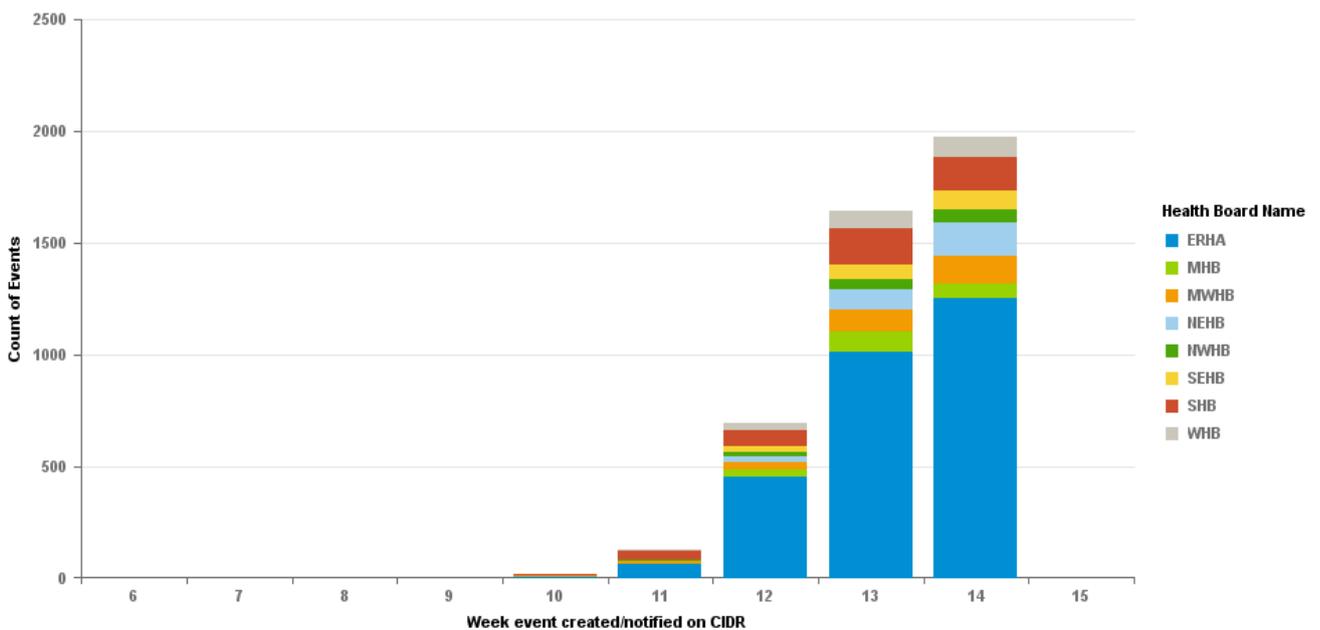


Figure 3: Confirmed cases of COVID-19 notified to midnight April 3rd 2020, by HSE Area and week of notification

Data source: CIDR as of 05/04/2020 11:25

Note: Data are provisional

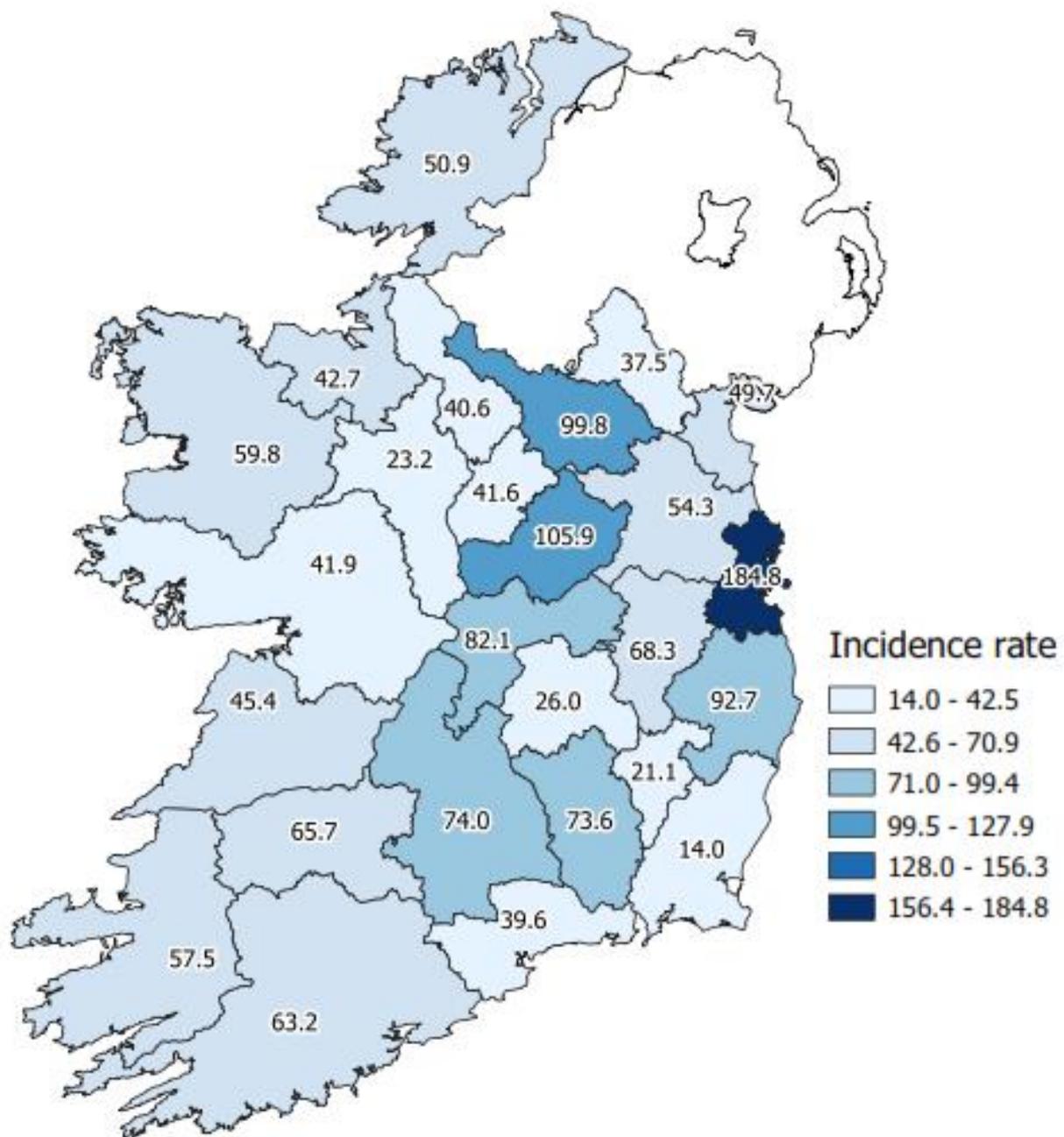


Figure 4: Cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 notified to midnight April 3rd 2020 by county, Ireland

Data source: CIDR as of 05/04/2020 11:25, rates are calculated using the 2016 census (www.cso.ie)

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

County Name	Number of cases	%
Carlow	12	0.3
Cavan	76	1.7
Clare	54	1.2
Cork	343	7.7
Donegal	81	1.8
Dublin	2490	56.0
Galway	108	2.4
Kerry	85	1.9
Kildare	152	3.4
Kilkenny	73	1.6
Laois	22	0.5
Leitrim	13	0.3
Limerick	128	2.9
Longford	17	0.4
Louth	64	1.4
Mayo	78	1.8
Meath	106	2.4
Monaghan	23	0.5
Offaly	64	1.4
Roscommon	15	0.3
Sligo	28	0.6
Tipperary	118	2.7
Waterford	46	1.0
Westmeath	94	2.1
Wexford	21	0.5
Wicklow	132	3.0
Total	4443	100

Data source: CIDR as of 05/04/2020 11:25

Table 4: Number of confirmed COVID-19 cases notified to midnight April 3rd 2020 by transmission classification, Ireland

Transmission classification*	Number of cases	%
Community transmission	981	22.1
Possible community transmission	996	22.4
Local transmission	720	16.2
Possible local transmission	30	0.7
Travel abroad	311	7.0
Possible travel abroad	88	2.0
Unknown	1317	29.6
Total	4443	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 05/04/2020 11:25

Note: Data are provisional

Table 5: Number of confirmed cases of COVID-19 notified to midnight April 3rd 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)	Case that died (%)
<5	24	7	0.6	0	0.0	0	0
5 - 14	35	4	0.3	1	0.6	0	0
15-24	270	35	2.9	1	0.6	0	0
25-34	748	88	7.3	7	4.2	2	1.3
35-44	808	106	8.8	9	5.5	1	0.7
45-54	830	183	15.2	38	23.0	4	2.6
55-64	647	185	15.4	41	24.8	7	4.6
65+	1070	593	49.3	68	41.2	137	90.7
Unknown	11	2	0.2	0	0	0	0
Total	4443	1203	100	165	100	151	100

Data source: CIDR as of 05/04/2020 11:25

Of the 4,443 laboratory confirmed cases of COVID-19, 151 had died, giving a case fatality rate of 3.4%. Fourteen percent of hospitalized cases were admitted to ICU.

Table 6: Number of confirmed cases of COVID-19 notified to midnight April 3rd 2020 in healthcare workers by HSE-area and travel status

HSE area	Foreign travel	No foreign travel	Not specified	Total
HSE East	49	609	26	684
HSE Midlands	4	35	13	52
HSE Mid-West	10	39	25	74
HSE North-East	2	15	18	35
HSE North-West	6	18	1	25
HSE South-East	5	3	60	68
HSE South	18	76	46	140
HSE West	7	64	14	85
Total	101	859	203	1163

Data source: CIDR as of 05/04/2020 11:25

Of the 1,163 cases who were healthcare workers, 74% had no history of foreign travel in the 14 days prior to onset of symptoms.

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Table 7: Number of clusters/outbreaks COVID-19 notified to midnight April 3rd 2020 by location and HSE-area

Outbreak Location	E	M	MW	NE	NW	SE	S	W	Total	%
Nursing home	41	2	3		2	1	1	7	57	24.2
Hospital	26	2		4	1	2	5	3	43	18.2
Private house	2	2		3	3	6	5	15	36	15.3
Residential institution	18	1		1	1		3	2	26	11.0
Travel related		3	4	4	2	1	5	2	21	8.9
Comm. Hosp/Long-stay unit	4	3			1	1	2	3	14	5.9
Extended family	2		1		2	3	2		10	4.2
Workplace	1					2	1	1	5	2.1
Community outbreak		2	1						3	1.3
Public house		1					1		2	0.8
Hotel							1		1	0.4
Other			2	13			1	1	17	7.2
Not Specified	1								1	0.4
Total	95	16	11	25	12	16	27	34	236	100

Data source: CIDR as of 05/04/2020 11:25

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.