



Epidemiology of COVID-19 in Ireland

Report prepared by HPSC on 25/04/2020 for NPHE

Note: Data are provisional

Summary

This report includes data as of 25th April 2020 at 9:50am for events created on CIDR up to midnight Thursday 23rd April 2020.

Characteristic	Number	%
Total number of confirmed cases	17,975	
Number of new cases since previous day	555	3.1
Total number hospitalised	2,536	14.1
Total number admitted to ICU	344	1.9
Total number of deaths	859	4.8
Total number of outbreaks/clusters	567	-
Total number cases associated with clusters	4,979	27.7
Total number of imported cases	359	2.0
Number of cases in Healthcare workers	4,847	27.0
Median age (years)	49	-
Age range (years)	0-106	-

Confirmed cases

In total, 17,975 confirmed cases of COVID-19 were notified in Ireland **before midnight April 23rd 2020**, with the first cases reported in Week 10 2020, week ending 07/03/2020 (Figure 1).

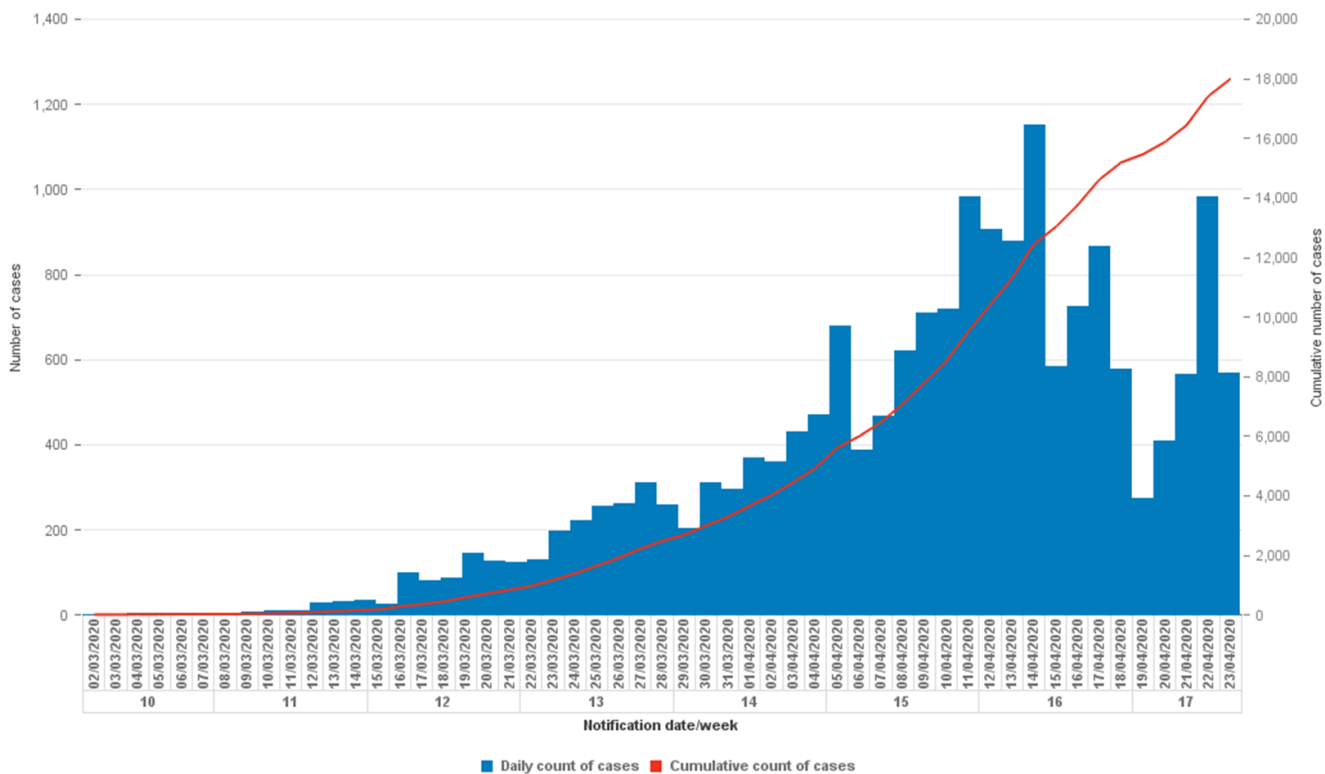


Figure 1: Number and cumulative number of confirmed COVID-19 cases notified in Ireland to midnight April 23rd 2020

Data source: CIDR as of 25/04/2020 9:50

Outbreaks/Clusters

There were 567 outbreaks/clusters of COVID-19 notified on CIDR **before midnight April 23rd 2020**.

Table 1: Characteristics of confirmed COVID-19 cases notified as of midnight April 23rd 2020, Ireland

Characteristic	Number of cases	%
Total	17,975	100
Sex		
Female	10261	57.1
Male	7656	42.6
Unknown	58	0.3
Age group (years)		
<1	30	0.2
1-4	63	0.4
5-14	181	1.0
15-24	1161	6.5
25-34	2904	16.2
35-44	3119	17.4
45-54	3346	18.6
55-64	2462	13.7
65+	4685	26.1
Unknown	24	0.1
HSE area		
HSE East	10571	58.8
HSE Midlands	960	5.3
HSE Mid-West	893	5.0
HSE North-East	2030	11.3
HSE North-West	604	3.4
HSE South-East	697	3.9
HSE South	1379	7.7
HSE West	841	4.7

Data source: CIDR as of 25/04/2020 9:50

Table 2: Country of Infection of confirmed COVID-19 cases notified as of midnight April 23rd 2020, Ireland

Country of infection	Number of cases	% of cases
Ireland	13,429	74.7
Other than Ireland	359	2
Unknown	4187	23.3
Total	17,975	100

Data source: CIDR as of 25/04/2020 9:50

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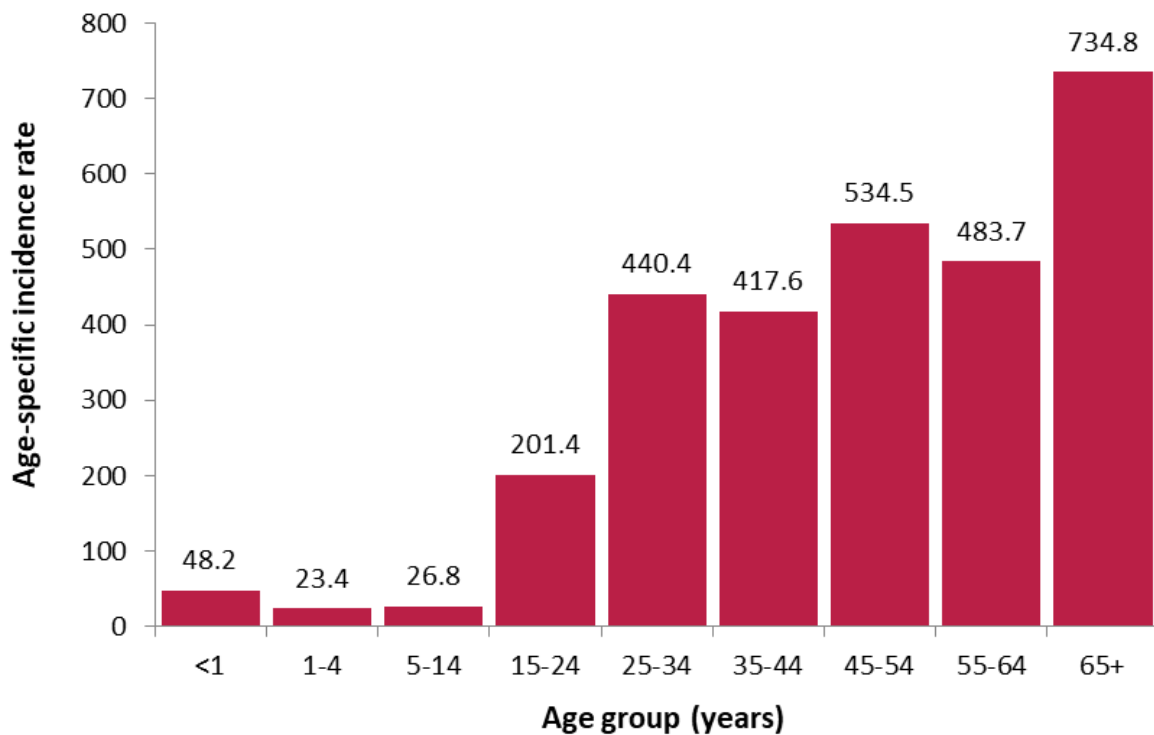


Figure 2: Age-specific incidence rates of confirmed cases of COVID-19 notified to midnight April 23rd 2020, Ireland

Data source: CIDR as of 25/04/2020 9:50, rates are calculated using the 2016 census (www.cso.ie)

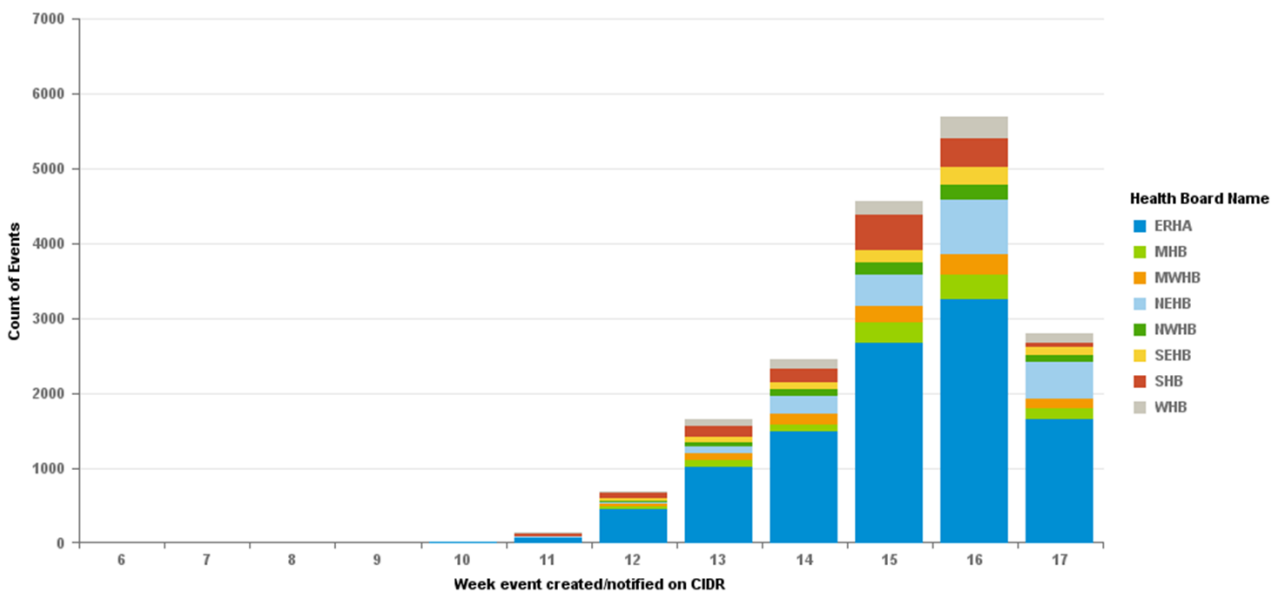


Figure 3: Confirmed cases of COVID-19 notified to midnight April 23rd 2020, by HSE Area and week of notification

Data source: CIDR as of 23/04/2020 9:50

Note: Data are provisional

Table 3: Number of confirmed cases of COVID-19 notified to midnight April 23rd 2020 by county

County Name	Number of cases	%
Carlow	88	0.5
Cavan	536	3.0
Clare	207	1.2
Cork	1103	6.1
Donegal	437	2.4
Dublin	9010	50.1
Galway	332	1.8
Kerry	276	1.5
Kildare	1003	5.6
Kilkenny	229	1.3
Laois	204	1.1
Leitrim	62	0.3
Limerick	441	2.5
Longford	113	0.6
Louth	590	3.3
Mayo	395	2.2
Meath	578	3.2
Monaghan	327	1.8
Offaly	222	1.2
Roscommon	114	0.6
Sligo	104	0.6
Tipperary	345	1.9
Waterford	129	0.7
Westmeath	421	2.3
Wexford	151	0.8
Wicklow	558	3.1
Total	17975	100

Data source: CIDR as of 25/04/2020 9:50

Table 4: Number of confirmed COVID-19 cases notified to midnight April 23rd 2020 by transmission classification, Ireland

Transmission classification*	Number of cases	%
Community transmission	2,450	13.6
Local transmission	4,180	23.3
Possible community transmission	6,295	35.0
Possible local transmission	354	2.0
Possible travel abroad	172	1.0
Travel abroad	345	1.9
Unknown	4,179	23.2
Total	17975	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 25/04/2020 9:50

Note: Data are provisional

Table 5: Number of confirmed cases of COVID-19 notified to midnight April 23rd 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	93	14	0.6	0	0.0	0	0.0
5 - 14	181	8	0.3	1	0.3	0	0.0
15-24	1161	53	2.1	6	1.7	2	0.2
25-34	2904	157	6.2	12	3.5	3	0.3
35-44	3119	216	8.5	30	8.7	9	1.0
45-54	3346	345	13.6	74	21.5	17	2.0
55-64	2462	385	15.2	96	27.9	38	4.4
65+	4685	1355	53.4	125	36.3	790	92.0
Unknown	24	3	0.1				
Total	17975	2536	100	344	100	859	100

Data source: CIDR as of 25/04/2020 9:50

Of the 17,975 laboratory confirmed cases of COVID-19, 859 have died, giving a case fatality rate of 4.9%. Of the patients who were hospitalised, 14% were admitted to ICU.

Table 6: Number of confirmed cases of COVID-19 notified to midnight April 23rd 2020 in healthcare workers by HSE-area and travel status

HSE area	Foreign travel	No foreign travel	Not specified	Total
HSE East	84	2603	140	2827
HSE Midlands	7	197	87	291
HSE Mid-West	15	86	145	246
HSE North-East	6	25	534	565
HSE North-West	8	100	94	202
HSE South-East	5	3	195	203
HSE South	20	107	179	306
HSE West	7	86	114	207
Total	152	3207	1488	4847

Data source: CIDR as of 24/04/2020 9:50

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Table 7: Number of clusters/outbreaks of COVID-19 notified to midnight April 23rd2020 by location and HSE-area

Outbreak Location	E	M	MW	NE	NW	SE	S	W	Total	%
Nursing home	95	14	9	31	5	5	8	30	197	34.7
Residential institution	59	12	2	10	5	3	14	5	110	19.4
Hospital	43	2	2	11	2	3	11	5	79	13.9
Private house	2	6	7	9	5	8	10	21	68	12
Comm. Hosp/Long-stay unit	5	4			7	2	8	1	27	4.8
Travel related		3	5	4	2	1	5	2	22	3.9
Workplace	4	5	2	1		4	6	1	23	4.1
Extended family	2		2		2	3	3	1	13	2.3
Community outbreak	4	1	1	1			1	1	9	1.6
Public house		2	1				1		4	0.7
Hotel							1		1	0.2
Other	3		2	2		1	4		12	2.1
Not Specified	2								2	0.4
Total	219	49	33	69	28	30	72	67	567	100

Data source: CIDR as of 25/04/2020 09:50

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.