



Epidemiology of COVID-19 in Ireland

Report prepared by HPSC on 22/04/2020 for NPHE

Note: Data are provisional

Summary

This report includes data as of 22nd April 2020 at 10am for events created on CIDR up to midnight Monday 20th April 2020.

Characteristic	Number	%
Total number of confirmed cases	15,871	
Number of new cases since previous day	464	2.9
Total number hospitalised	2,387	15.0
Total number admitted to ICU	322	2.0
Total number of deaths	757	4.8
Total number of outbreaks/clusters	507	-
Total number cases associated with clusters	3,792	23.9
Total number of imported cases	353	2.2
Number of cases in Healthcare workers	4,393	27.7
Median age (years)	48	-
Age range (years)	0-106	-

Confirmed cases

In total, 15,871 confirmed cases of COVID-19 were notified in Ireland **before midnight April 20th 2020**, with the first cases reported in Week 10 2020, week ending 07/03/2020 (Figure 1).

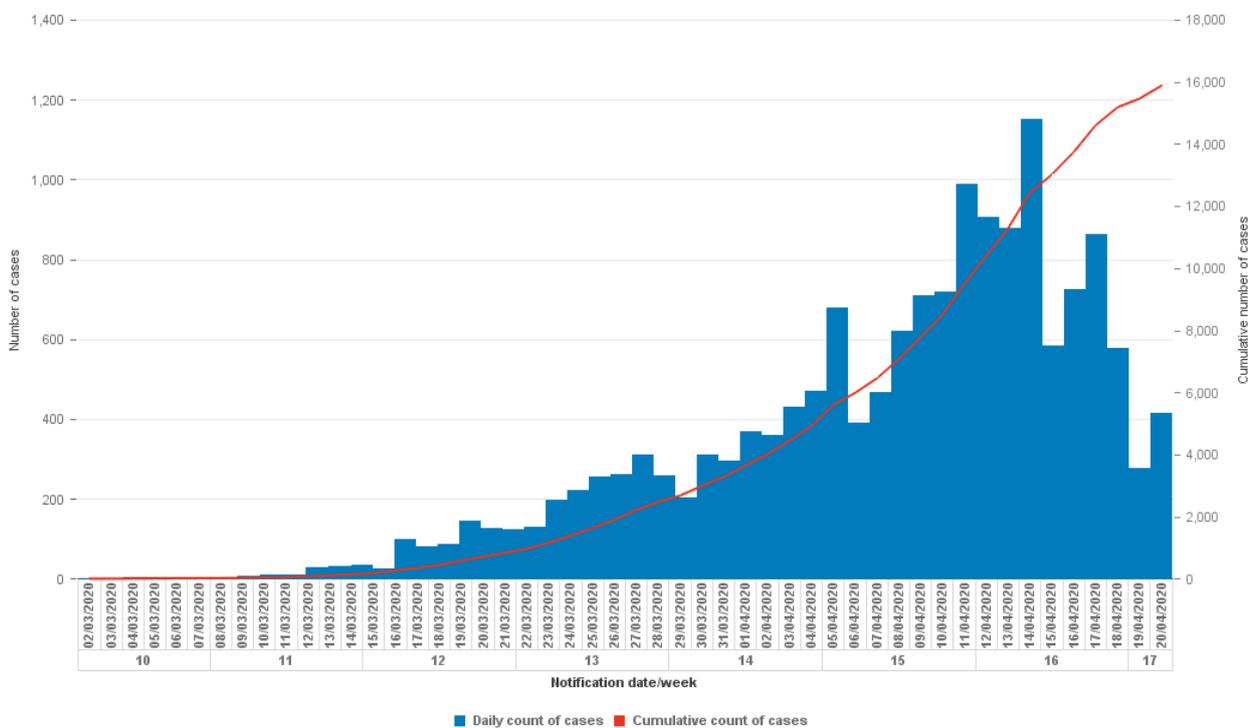


Figure 1: Number and cumulative number of confirmed COVID-19 cases notified in Ireland to midnight April 20th 2020

Data source: CIDR as of 22/04/2020 9:15am

Outbreaks/Clusters

There were 507 outbreaks/clusters of COVID-19 notified on CIDR **before midnight April 20th 2020**.

Table 1: Characteristics of confirmed COVID-19 cases notified as of midnight April 20th 2020, Ireland

Characteristic	Number of cases	%
Total	15,871	100
Sex		
Female	8906	56.1
Male	6909	43.5
Unknown	56	0.4
Age group (years)		
<1	28	0.2
1-4	58	0.4
5-14	169	1.1
15-24	1039	6.5
25-34	2635	16.6
35-44	2843	17.9
45-54	3039	19.1
55-64	2254	14.2
65+	3782	23.8
Unknown	24	0.2
HSE area		
HSE East	9219	58.1
HSE Midlands	870	5.5
HSE Mid-West	803	5.1
HSE North-East	1678	10.6
HSE North-West	568	3.6
HSE South-East	649	4.1
HSE South	1345	8.5
HSE West	739	4.7

Data source: CIDR as of 22/04/2020 9:15am

Table 2: Country of Infection of confirmed COVID-19 cases notified as of midnight April 20th 2020, Ireland

Country of infection	Number of cases	% of cases
Ireland	11,337	71.4
Other than Ireland	353	2.2
Unknown	4181	26.3
Total	15,871	100.0

Data source: CIDR as of 22/04/2020 9:15am

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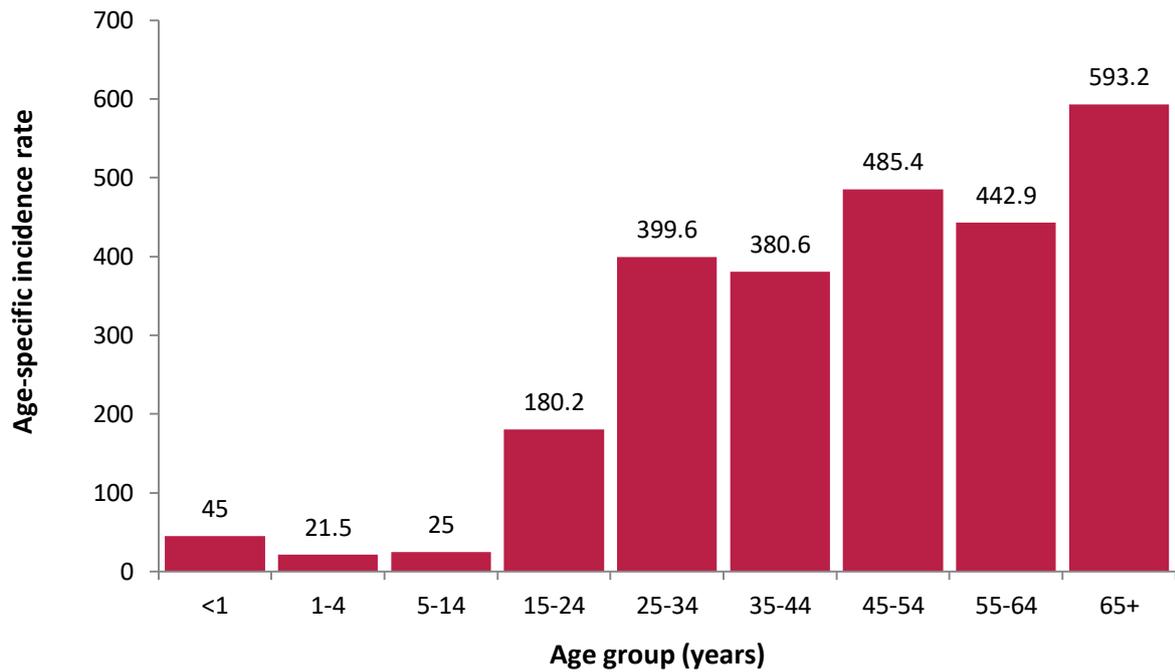


Figure 2: Age-specific incidence rates of confirmed cases of COVID-19 notified to midnight April 20th 2020, Ireland

Data source: CIDR as of 22/04/2020 9:15, rates are calculated using the 2016 census (www.cso.ie)

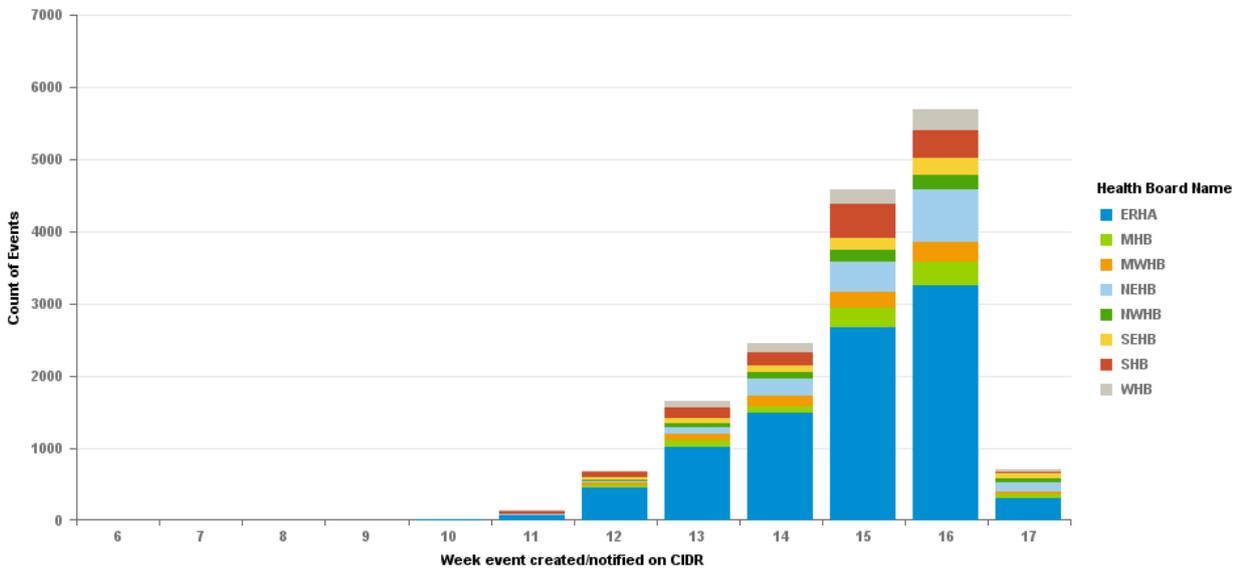


Figure 3: Confirmed cases of COVID-19 notified to midnight April 20th 2020, by HSE Area and week of notification

Data source: CIDR as of 22/04/2020 9:15

Note: Data are provisional

Table 3: Number of confirmed cases of COVID-19 notified to midnight April 20th 2020 by county

County Name	Number of cases	%
Carlow	80	0.5
Cavan	430	2.7
Clare	165	1.0
Cork	1077	6.8
Donegal	416	2.6
Dublin	7,905	49.8
Galway	309	1.9
Kerry	268	1.7
Kildare	851	5.4
Kilkenny	216	1.4
Laois	185	1.2
Leitrim	55	0.3
Limerick	415	2.6
Longford	101	0.6
Louth	489	3.1
Mayo	339	2.1
Meath	539	3.4
Monaghan	220	1.4
Offaly	198	1.2
Roscommon	91	0.6
Sligo	97	0.6
Tipperary	320	2.0
Waterford	119	0.7
Westmeath	386	2.4
Wexford	137	0.9
Wicklow	463	2.9
Total	15,871	100.0

Data source: CIDR as of 22/04/2020 9:15

Table 4: Number of confirmed COVID-19 cases notified to midnight April 20th 2020 by transmission classification, Ireland

Transmission classification*	Number of cases	%
Community transmission	2,402	15.1
Possible community transmission	4,702	29.6
Local transmission	3,838	24.2
Possible local transmission	275	1.7
Travel abroad	342	2.2
Possible travel abroad	170	1.1
Unknown	4,142	26.1
Total	15871	100.0

*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 22/04/2020 9:15

Note: Data are provisional

Table 5: Number of confirmed cases of COVID-19 notified to midnight April 20th 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	86	13	0.5	0	0.0	0	0.0
5 - 14	169	8	0.3	1	0.3	0	0.0
15-24	1,039	52	2.2	5	1.6	1	0.1
25-34	2,635	150	6.3	14	4.3	3	0.4
35-44	2,843	198	8.3	26	8.1	9	1.2
45-54	3,039	330	13.8	72	22.4	17	2.2
55-64	2,254	366	15.3	89	27.6	33	4.4
65+	3,782	1,267	53.1	115	35.7	694	91.7
Unknown	24	3	0.1	0	0.0	0	0.0
Total	15,871	2,387	100.0	322	100.0	757	100.0

Data source: CIDR as of 22/04/2020 9:15

Of the 15,871 laboratory confirmed cases of COVID-19, 757 have died, giving a case fatality rate of 4.8%. Of the patients who were hospitalised, 14% were admitted to ICU.

Table 6: Number of confirmed cases of COVID-19 notified to midnight April 20^h 2020 in healthcare workers by HSE-area and travel status

HSE area	Foreign travel	No foreign travel	Not specified	Total
HSE East	80	2407	131	2,618
HSE Midlands	7	176	73	256
HSE Mid-West	15	85	118	218
HSE North-East	6	20	439	465
HSE North-West	8	91	85	184
HSE South-East	5	3	175	183
HSE South	20	107	154	281
HSE West	7	86	95	188
Total	148	2975	1270	4,393

Data source: CIDR as of 22/04/2020 9:15

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Table 7: Number of clusters/outbreaks of COVID-19 notified to midnight April 20th 2020 by location and HSE-area

Outbreak Location	E	M	MW	NE	NW	SE	S	W	Total	%
Nursing home	91	10	7	28	5	2	3	29	175	34.5
Residential institution	51	11	2	5	5	2	10	4	90	17.8
Hospital	42	2	1	11	2	2	9	4	73	14.4
Private house	2	6	5	9	5	8	10	20	65	12.8
Comm. Hosp/Long-stay unit	4	8	0	0	7	1	5	0	25	4.9
Travel related	0	3	4	4	2	1	5	2	21	4.1
Workplace	3	4	2	1	0	4	5	1	20	3.9
Extended family	2	0	1	0	2	3	3	1	12	2.4
Community outbreak	4	1	1	1	0	0	1	1	9	1.8
Hotel	0	0	0	0	0	0	1	0	1	0.2
Public house	0	2	0	0	0	0	1	0	3	0.6
Other	3	0	2	1	0	1	4	0	11	2.2
Not Specified	2	0	0	0	0	0	0	0	2	0.4
Total	204	47	25	60	28	24	57	62	507	100.0

Data source: CIDR as of 22/04/2020 9:15

Acknowledgements

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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.