



Epidemiology of COVID-19 in Ireland

Report prepared by HPSC on 23/04/2020 for NPHE

Note: Data are provisional

Summary

This report includes data as of 23rd April 2020 at 9:15am for events created on CIDR up to midnight Tuesday 21st April 2020.

Characteristic	Number	%
Total number of confirmed cases	16,439	
Number of new cases since previous day	570	3.5
Total number hospitalised	2,424	14.7
Total number admitted to ICU	331	2.0
Total number of deaths	789	4.8
Total number of outbreaks/clusters	522	-
Total number cases associated with clusters	4,096	24.9
Total number of imported cases	355	2.2
Number of cases in Healthcare workers	4,545	27.6
Median age (years)	48	-
Age range (years)	0-106	-

Confirmed cases

In total, 16,439 confirmed cases of COVID-19 were notified in Ireland **before midnight April 21st 2020**, with the first cases reported in Week 10 2020, week ending 07/03/2020 (Figure 1).

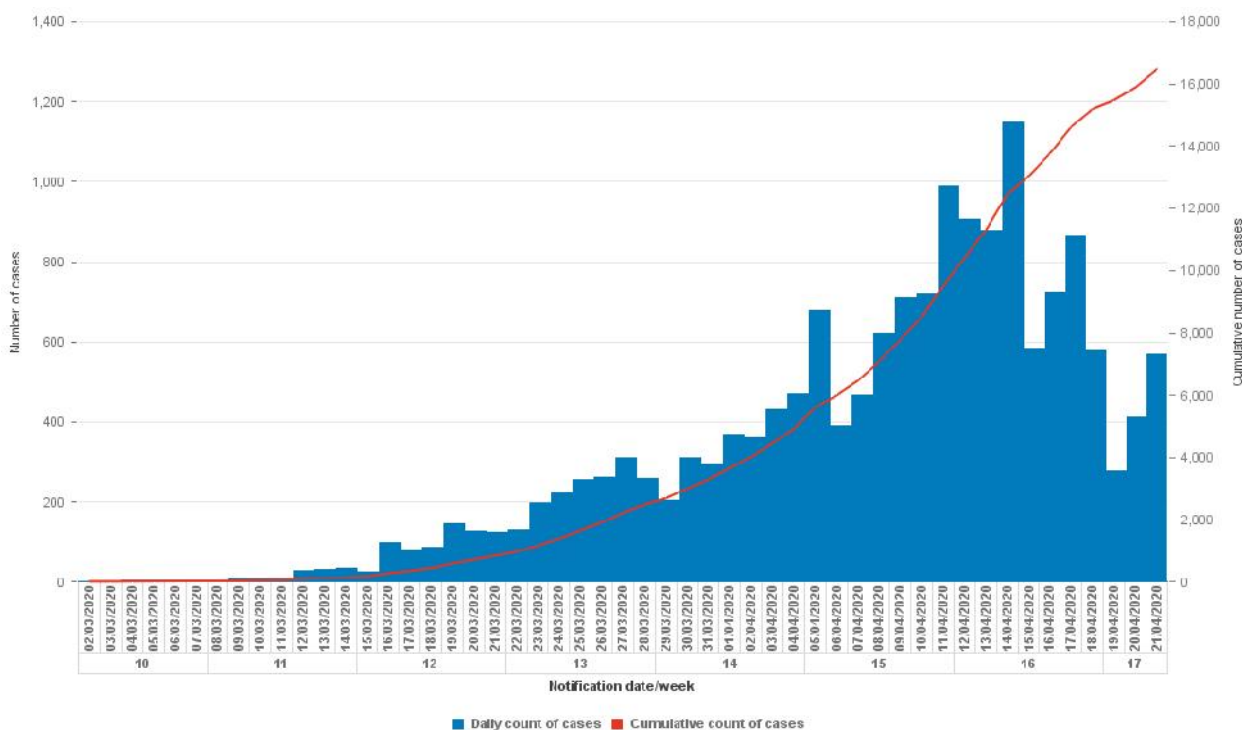


Figure 1: Number and cumulative number of confirmed COVID-19 cases notified in Ireland to midnight April 21st 2020

Data source: CIDR as of 23/04/2020 9:15

Outbreaks/Clusters

There were 522 outbreaks/clusters of COVID-19 notified on CIDR **before midnight April 21st 2020**.

Table 1: Characteristics of confirmed COVID-19 cases notified as of midnight April 21st 2020, Ireland

Characteristic	Number of cases	%
Total	16,439	100
Sex		
Female	9272	56.4
Male	7105	43.2
Unknown	62	0.4
Age group (years)		
<1	28	0.2
1-4	61	0.4
5-14	174	1.1
15-24	1071	6.5
25-34	2712	16.5
35-44	2929	17.8
45-54	3125	19.0
55-64	2311	14.1
65+	4004	24.4
Unknown	24	0.1
HSE area		
HSE East	9560	58.2
HSE Midlands	894	5.4
HSE Mid-West	835	5.1
HSE North-East	1770	10.8
HSE North-West	586	3.6
HSE South-East	664	4.0
HSE South	1358	8.3
HSE West	772	4.7

Data source: CIDR as of 23/04/2020 9:15

Table 2: Country of Infection of confirmed COVID-19 cases notified as of midnight April 21st 2020, Ireland

Country of infection	Number of cases	% of cases
Ireland	11,931	72.6
Other than Ireland	355	2.2
Unknown	4153	25.3
Total	16,439	100

Data source: CIDR as of 23/04/2020 9:15

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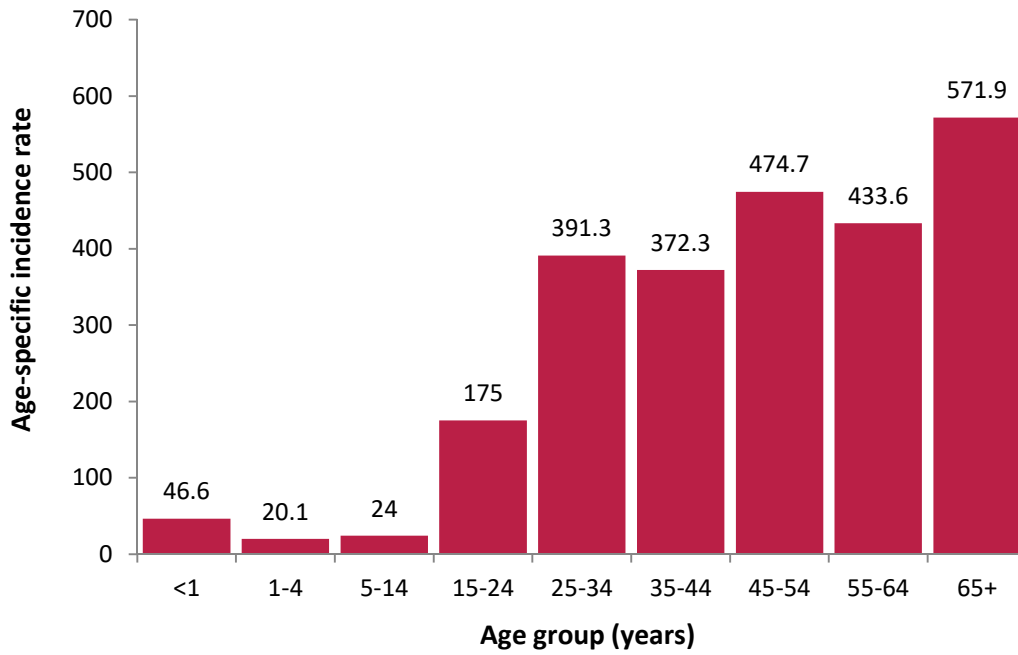


Figure 2: Age-specific incidence rates of confirmed cases of COVID-19 notified to midnight April 21st 2020, Ireland

Data source: CIDR as of 23/04/2020 9:15, rates are calculated using the 2016 census (www.cso.ie)

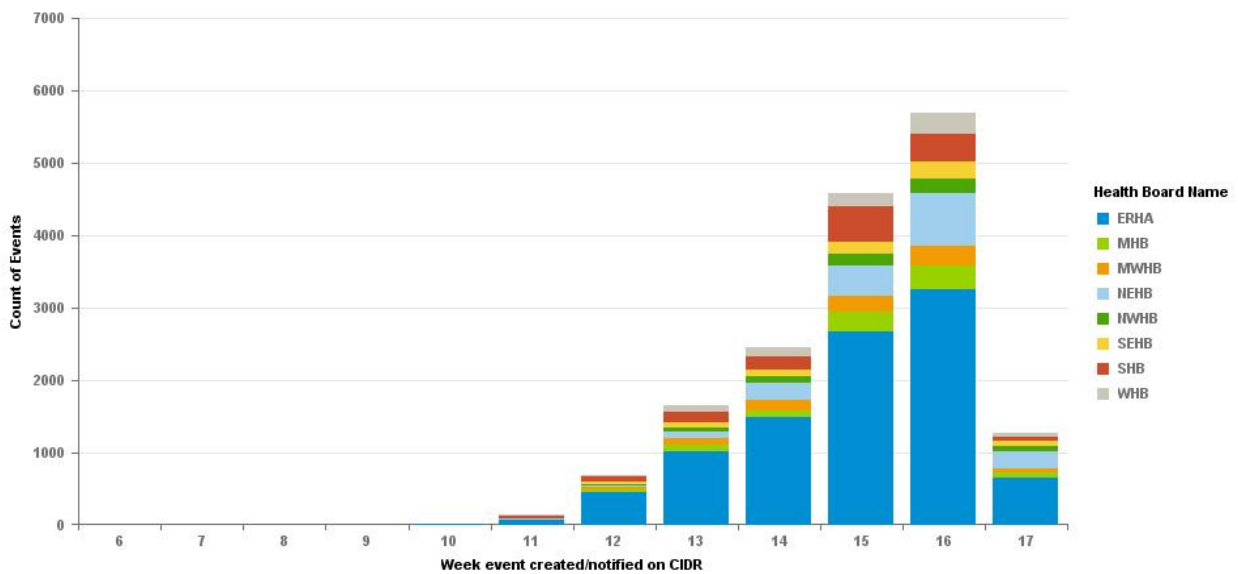


Figure 3: Confirmed cases of COVID-19 notified to midnight April 21st 2020, by HSE Area and week of notification

Data source: CIDR as of 23/04/2020 9:15

Note: Data are provisional

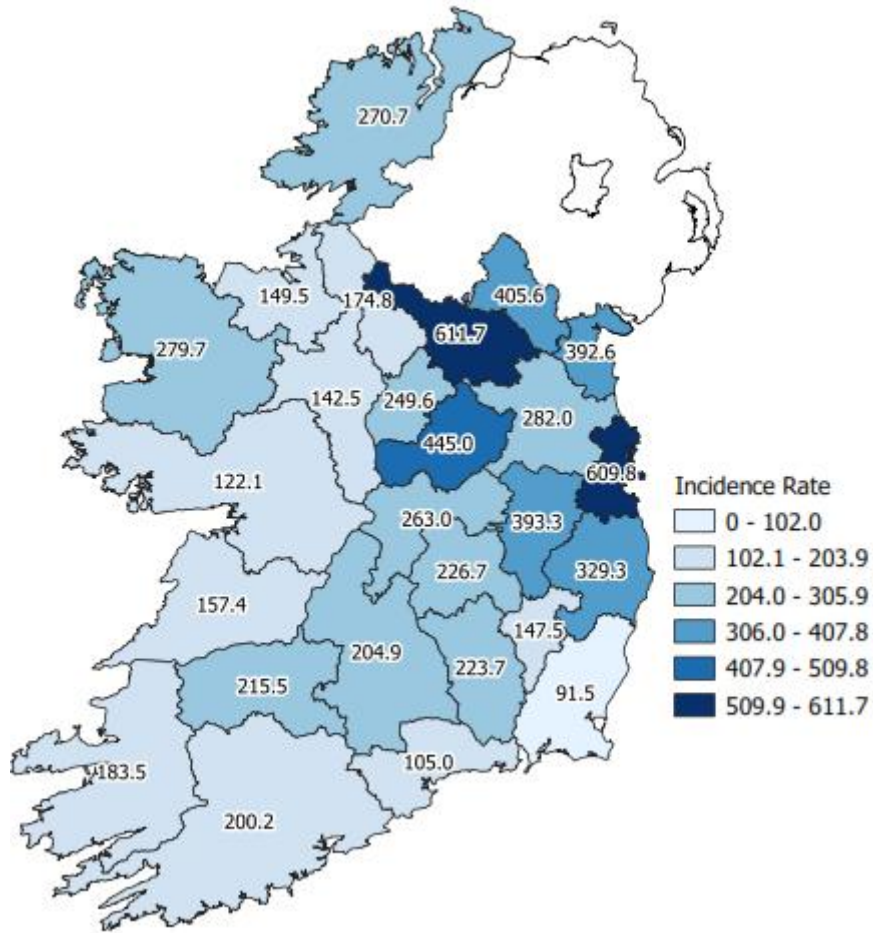


Figure 4: Cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 notified to midnight April 21st 2020 by county, Ireland

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 23/04/2020 9:15, rates are calculated using the 2016 census (www.cso.ie)

Table 3: Number of confirmed cases of COVID-19 notified to midnight April 21st 2020 by county

County Name	Number of cases	%
Carlow	84	0.5
Cavan	466	2.8
Clare	187	1.1
Cork	1087	6.6
Donegal	431	2.6
Dublin	8216	50.0
Galway	315	1.9
Kerry	271	1.6
Kildare	875	5.3
Kilkenny	222	1.4
Laois	192	1.2
Leitrim	56	0.3
Limerick	420	2.6
Longford	102	0.6
Louth	506	3.1
Mayo	365	2.2
Meath	550	3.3
Monaghan	249	1.5
Offaly	205	1.2
Roscommon	92	0.6
Sligo	98	0.6
Tipperary	327	2.0
Waterford	122	0.7
Westmeath	395	2.4
Wexford	137	0.8
Wicklow	469	2.9
Total	16439	100

Data source: CIDR as of 23/04/2020 9:15

Table 4: Number of confirmed COVID-19 cases notified to midnight April 21st 2020 by transmission classification, Ireland

Transmission classification*	Number of cases	%
Community transmission	2,426	14.8
Possible community transmission	3,950	24.0
Local transmission	5,111	31.1
Possible local transmission	299	1.8
Travel abroad	172	1.0
Possible travel abroad	343	2.1
Unknown	4,138	25.2
Total	16439	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 23/04/2020 9:15

Note: Data are provisional

Table 5: Number of confirmed cases of COVID-19 notified to midnight April 21st 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	89	13	0.5	0	0.0	0	0.0
5 - 14	174	8	0.3	1	0.3	0	0.0
15-24	1071	51	2.1	5	1.5	1	0.1
25-34	2712	151	6.2	14	4.2	3	0.4
35-44	2929	201	8.3	27	8.2	9	1.1
45-54	3125	334	13.8	72	21.8	17	2.2
55-64	2311	372	15.3	91	27.5	36	4.6
65+	4004	1291	53.3	121	36.6	723	91.6
Unknown	24	3	0.1	0	0.0	0	0.0
Total	16439	2424	100	331	100	789	100

Data source: CIDR as of 23/04/2020 9:15

Of the 16,439 laboratory confirmed cases of COVID-19, 789 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 21st 2020 in healthcare workers by HSE-area and travel status

HSE area	Foreign travel	No foreign travel	Not specified	Total
HSE East	84	2468	141	2693
HSE Midlands	7	182	77	266
HSE Mid-West	15	86	124	225
HSE North-East	6	24	462	492
HSE North-West	8	94	90	192
HSE South-East	5	3	182	190
HSE South	20	107	162	289
HSE West	7	86	105	198
Total	152	3050	1343	4545

Data source: CIDR as of 23/04/2020 9:15

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Table 7: Number of clusters/outbreaks of COVID-19 notified to midnight April 21st 2020 by location and HSE-area

Outbreak Location	E	M	MW	NE	NW	SE	S	W	Total	%
Nursing home	92	13	7	28	5	2	6	29	182	34.9
Residential institution	51	11	2	5	5	2	13	5	94	18.0
Hospital	42	2	1	11	2	2	10	4	74	14.2
Private house	2	6	5	9	5	8	10	20	65	12.5
Comm. Hosp/Long-stay unit	4	5			7	1	8	1	26	5.0
Travel related		3	4	4	2	1	5	2	21	4.0
Workplace	3	5	2	1		4	5	1	21	4.0
Extended family	2		2		2	3	3	1	13	2.5
Community outbreak	4	1	1	1			1	1	9	1.7
Hotel							1		1	0.2
Public house		2					1		3	0.6
Other	3		2	1		1	4		11	2.1
Not Specified	2								2	0.4
Total	205	48	26	60	28	24	67	64	522	100

Data source: CIDR as of 23/04/2020 9:15

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.