



Epidemiology of COVID-19 in Ireland

Report prepared by HPSC on 21/04/2020 for NPHE

Note: Data are provisional

Summary

This report includes data as of 21st April 2020 at 9:15 am for events created on CIDR up to midnight Sunday 19th April 2020.

Characteristic	Number	%
Total number of confirmed cases	15,464	
Number of new cases since previous day	287	1.9
Total number hospitalised	2,323	15.0
Total number admitted to ICU	315	2.0
Total number of deaths	719	4.6
Total number of outbreaks/clusters	491	-
Total number cases associated with clusters	3,447	22.3
Total number of imported cases	355	2.3
Number of cases in Healthcare workers	4,180	27.0
Median age (years)	48	-
Age range (years)	0-106	-

Confirmed cases

In total, 15,464 confirmed cases of COVID-19 were notified in Ireland **before midnight April 19th 2020**, with the first cases reported in Week 10 2020, week ending 07/03/2020 (Figure 1).

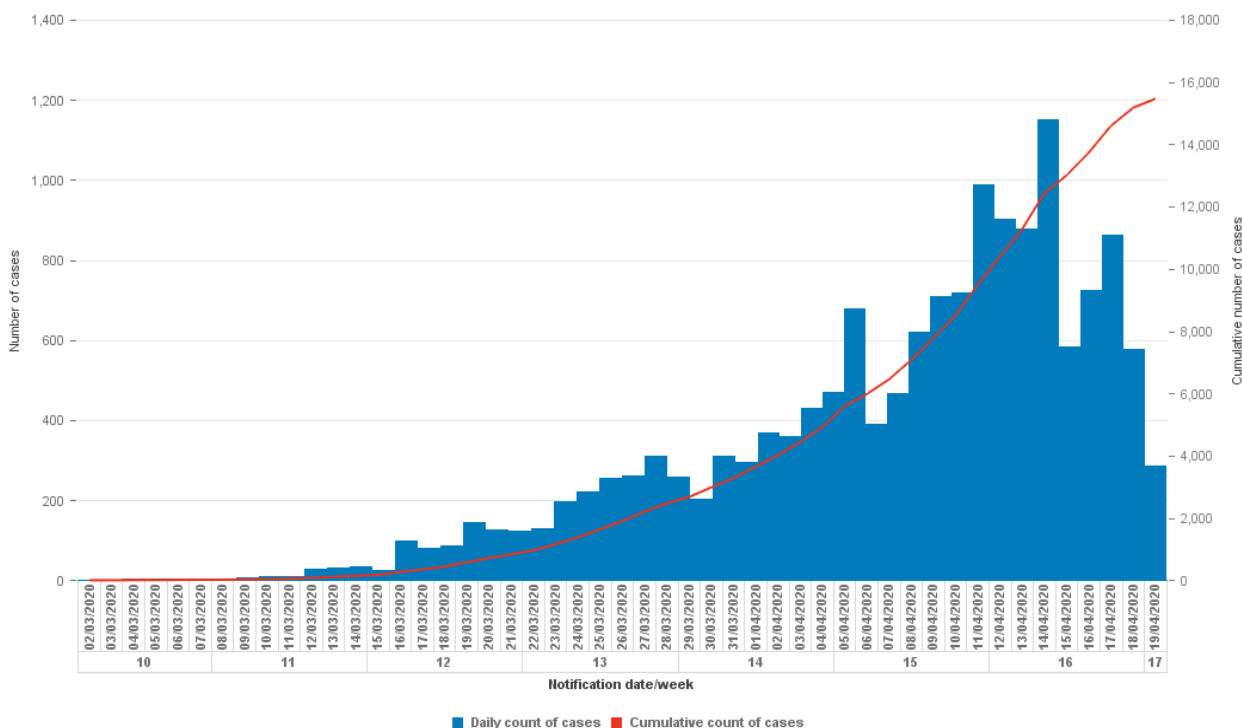


Figure 1: Number and cumulative number of confirmed COVID-19 cases notified in Ireland to midnight April 19th 2020

Data source: CIDR as of 21/04/2020 9:15

Outbreaks/Clusters

There were 491 outbreaks/clusters of COVID-19 notified on CIDR **before midnight April 19th 2020**.

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

Characteristic	Number of cases	%
Total	15,464	100
Sex		
Female	8595	55.6
Male	6708	43.4
Unknown	161	1.0
Age group (years)		
<1	29	0.2
1-4	54	0.3
5-14	162	1.0
15-24	1009	6.5
25-34	2580	16.7
35-44	2781	18.0
45-54	2972	19.2
55-64	2207	14.3
65+	3646	23.6
Unknown	24	0.2
HSE area		
HSE East	9049	58.5
HSE Midlands	843	5.5
HSE Mid-West	784	5.1
HSE North-East	1593	10.3
HSE North-West	539	3.5
HSE South-East	615	4.0
HSE South	1321	8.5
HSE West	720	4.7

Data source: CIDR as of 21/04/2020 9:15

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

Country of infection	Number of cases	% of cases
Ireland	10,874	70.3
Other than Ireland	355	2.3
Unknown	4235	27.4
Total	15,464	100

Data source: CIDR as of 21/04/2020 9:15

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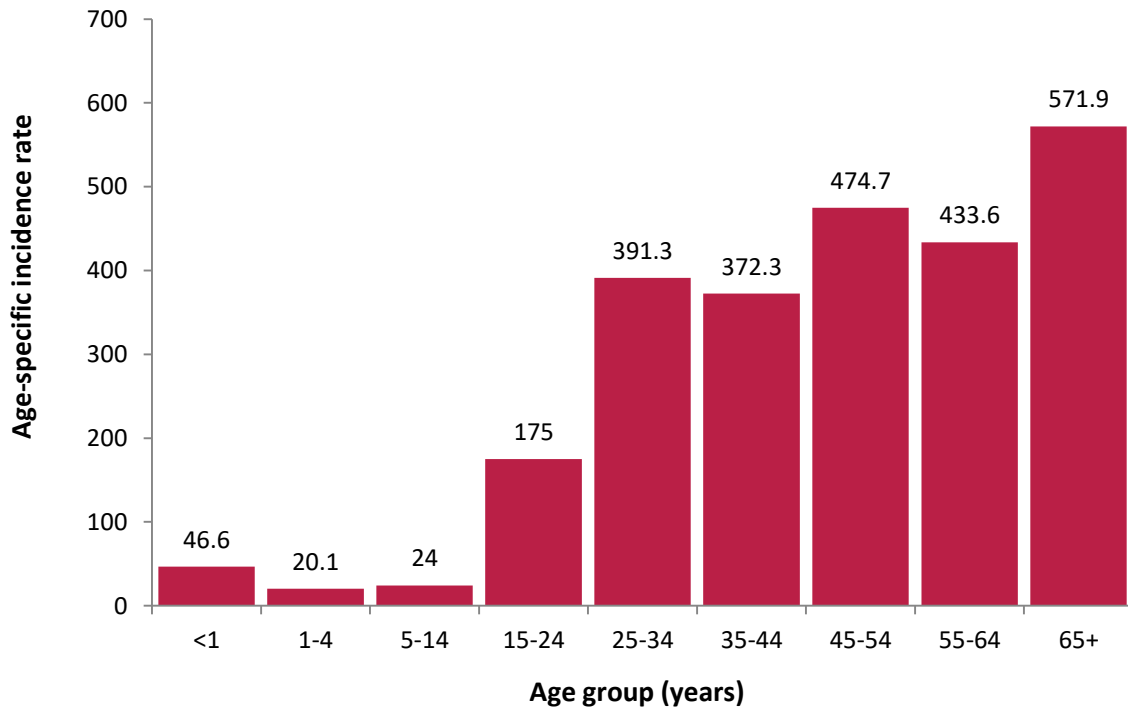


Figure 2: Age-specific incidence rates of confirmed cases of COVID-19 notified to midnight April 19th 2020, Ireland

Data source: CIDR as of 21/04/2020 9:15, rates are calculated using the 2016 census (www.cso.ie)

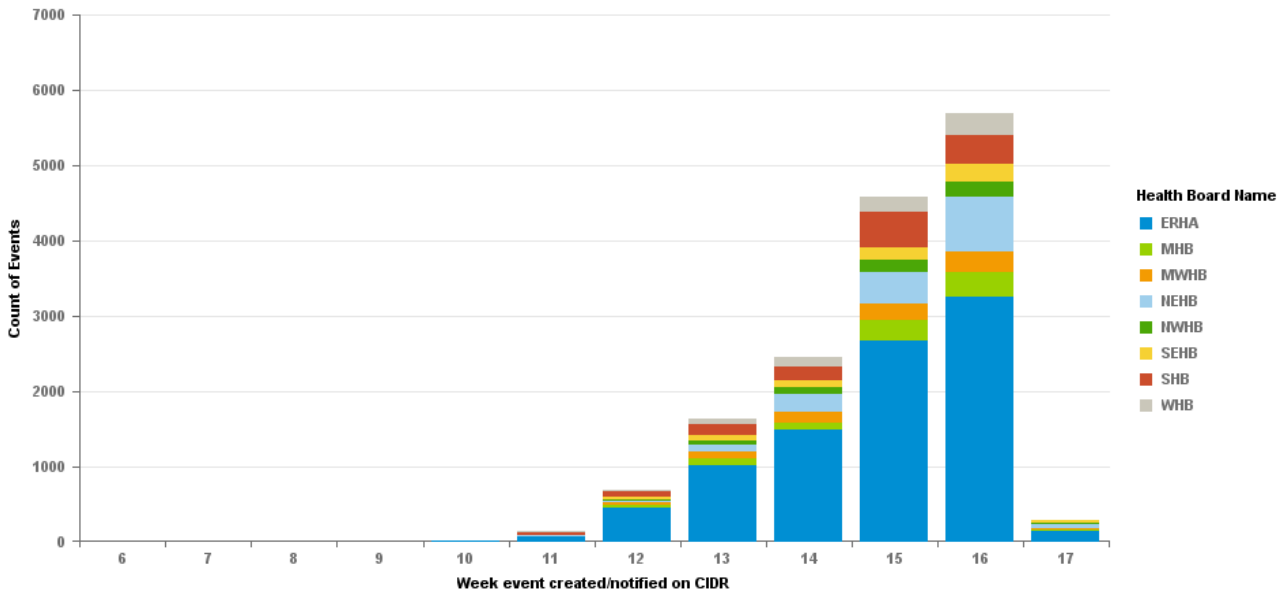


Figure 3: Confirmed cases of COVID-19 notified to midnight April 19th 2020, by HSE Area and week of notification

Data source: CIDR as of 21/04/2020 9:15

Note: Data are provisional

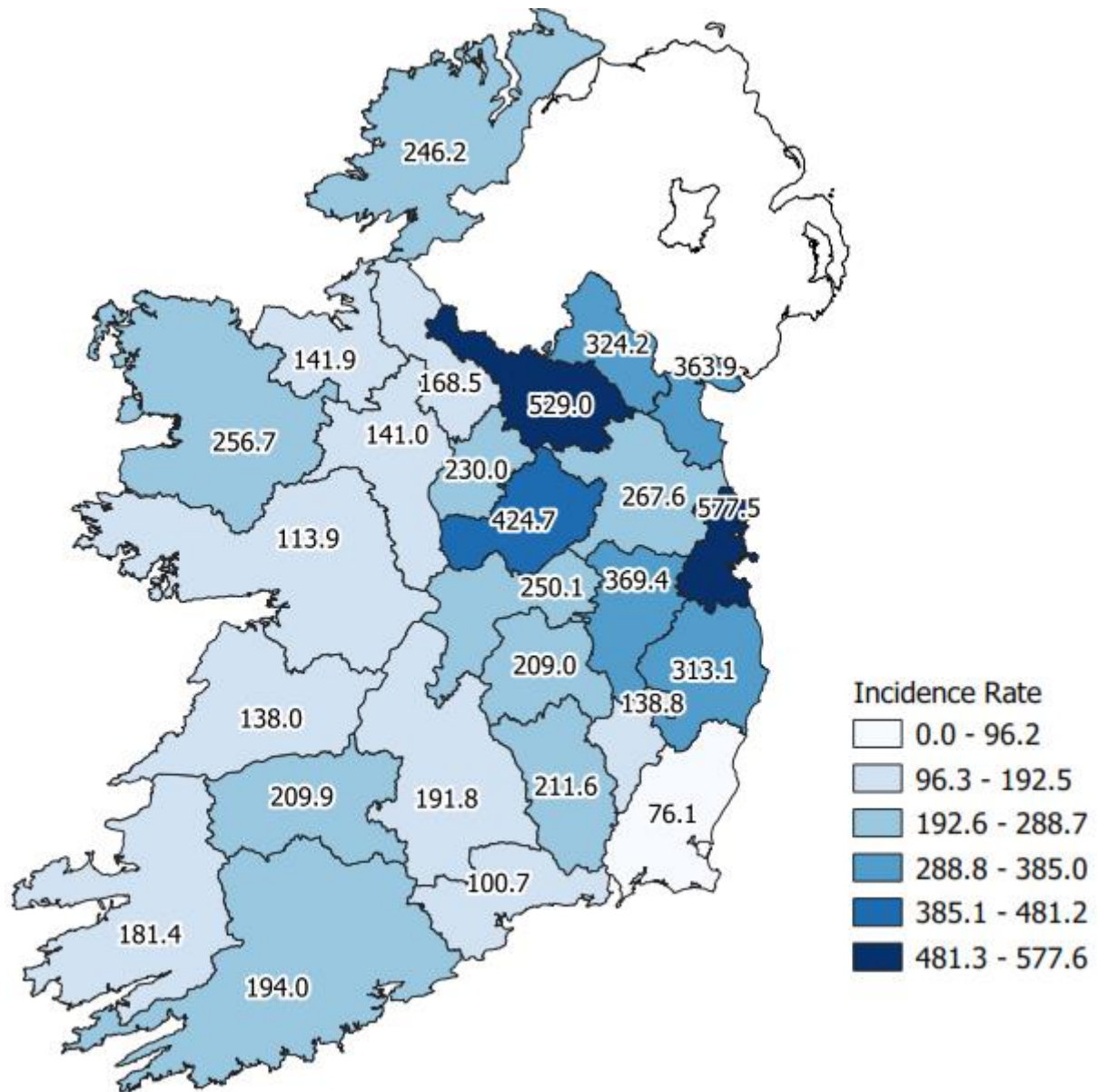


Figure 4: Cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 notified to midnight April 19th 2020 by county, Ireland

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 21/04/2020 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 19th 2020 by county

County Name	Number of cases	%
Carlow	79	0.5
Cavan	403	2.6
Clare	164	1.1
Cork	1053	6.8
Donegal	392	2.5
Dublin	7781	50.3
Galway	294	1.9
Kerry	268	1.7
Kildare	822	5.3
Kilkenny	210	1.4
Laois	177	1.1
Leitrim	54	0.3
Limerick	409	2.6
Longford	94	0.6
Louth	469	3.0
Mayo	335	2.2
Meath	522	3.4
Monaghan	199	1.3
Offaly	195	1.3
Roscommon	91	0.6
Sligo	93	0.6
Tipperary	306	2.0
Waterford	117	0.8
Westmeath	377	2.4
Wexford	114	0.7
Wicklow	446	2.9
Total	15,464	100

Data source: CIDR as of 21/04/2020 9:15

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

Transmission classification*	Number of cases	%
Community transmission	2,370	15.3
Possible community transmission	4,463	28.9
Local transmission	3,694	23.9
Possible local transmission	288	1.9
Travel abroad	341	2.2
Possible travel abroad	165	1.1
Unknown	4,143	26.8
Total	15,464	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 21/04/2020 9:15

Note: Data are provisional

Table 5: Number of confirmed cases of COVID-19 notified to midnight April 19th 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	83	13	0.6	0	0.0	0	0.0
5 - 14	162	8	0.3	1	0.3	0	0.0
15-24	1009	51	2.2	6	1.9	1	0.1
25-34	2580	147	6.3	13	4.1	3	0.4
35-44	2781	194	8.4	26	8.3	9	1.3
45-54	2972	326	14.0	70	22.2	17	2.4
55-64	2207	356	15.3	89	28.3	31	4.3
65+	3646	1226	52.8	110	34.9	658	91.5
Unknown	24	2	0.1	0	0.0	0	0.0
Total	15,464	2,323	100	315	100	719	100

Data source: CIDR as of 21/04/2020 9:15

Of the 15,464 laboratory confirmed cases of COVID-19, 719 had died, giving a case fatality rate of 4.6%. Of the patients who were hospitalised, 14% were admitted to ICU.

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

HSE area	Foreign travel	No foreign travel	Not specified	Total
HSE East	78	2345	112	2535
HSE Midlands	7	173	71	251
HSE Mid-West	15	81	97	193
HSE North-East	5	20	381	406
HSE North-West	8	82	79	169
HSE South-East	5	3	171	179
HSE South	19	106	137	262
HSE West	7	86	92	185
Total	144	2896	1140	4180

Data source: CIDR as of 21/04/2020 9:15

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

Outbreak Location	E	M	MW	NE	NW	SE	S	W	Total	%
Nursing home	88	8	7	28	5	2	3	30	171	34.8
Residential institution	48	9	2	4	5	2	7	3	80	16.3
Hospital	41	2	1	11	2	2	9	3	71	14.5
Private house	2	6	5	9	5	8	9	20	64	13
Comm. Hosp/Long-stay unit	4	8			7	1	5	1	26	5.3
Travel related		3	4	4	2	1	5	2	21	4.3
Workplace	3	2	1			4	5	1	16	3.3
Extended family	2		1		2	3	3	1	12	2.4
Community outbreak	4	1	1	1			1		8	1.6
Hotel	1						2		3	0.6
Public house		2					1		3	0.6
Other	2	1	2	1		1	5	2	14	2.9
Not Specified	2								2	0.4
Total	197	42	24	58	28	24	55	63	491	100

Data source: CIDR as of 21/04/2020 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.