



Epidemiology of COVID-19 in Ireland

Report prepared by HPSC on 15/04/2020 for NPHE

Note: Data are provisional

Summary

This report includes data as of 15th April 2020 at 9:30 am for events created on CIDR up to midnight Monday 13th April 2020.

Characteristic	Number	%
Total number of confirmed cases	11,261	
Number of new cases April 10 th	876	7.8
Total number hospitalised	1,968	17.5
Total number admitted to ICU*	280	2.5
Total number of deaths	435	3.9
Total number of outbreaks/clusters	413	-
Total number cases associated with clusters	2,244	19.9
Total number of imported cases	346	3.1
Number of cases in Healthcare workers	2,872	25.5
Median age (years)	48	-
Age range (years)	0 -106	-

*Total COVID-19 admissions to ICU before midnight April 13th 2020

Confirmed cases

In total, 11,261 confirmed cases of COVID-19 were notified in Ireland **before midnight April 13th 2020**, with the first cases reported in Week 10 2020, week ending 07/03/2020 (Figure 1).

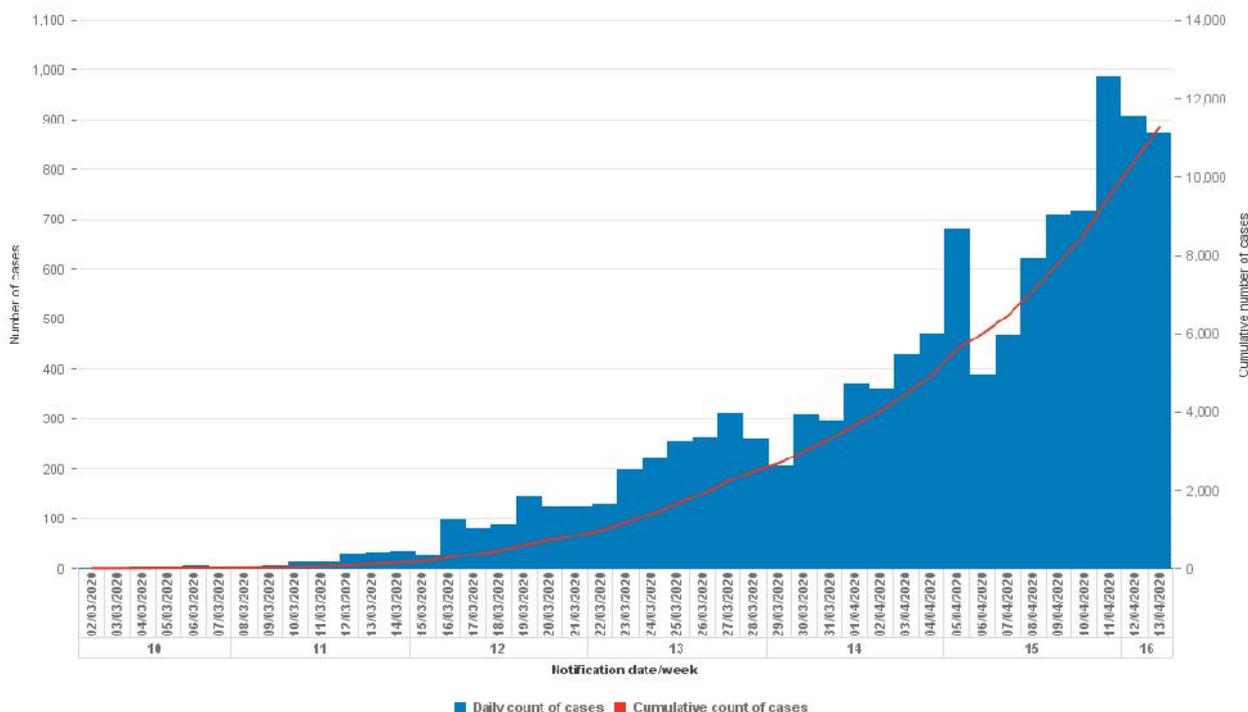


Figure 1: Number and cumulative number of confirmed COVID-19 cases notified in Ireland to midnight April 13th 2020

Data source: CIDR as of 15/04/2020 9:30

Outbreaks/Clusters

There were 413 outbreaks/clusters of COVID-19 notified on CIDR **before midnight April 13th 2020**.

Table 1: Characteristics of confirmed COVID-19 cases notified as of midnight April 13th 2020, Ireland

Characteristic	Number of cases	%
Total	11,261	100
Sex		
Female	6140	54.5
Male	5021	44.6
Unknown	100	0.9
Age group (years)		
<1	25	0.2
1-4	36	0.3
5-14	96	0.9
15-24	737	6.5
25-34	1950	17.3
35-44	2084	18.5
45-54	2157	19.2
55-64	1637	14.5
65+	2520	22.4
Unknown	19	0.2
HSE area		
HSE East	6701	59.5
HSE Midlands	595	5.3
HSE Mid-West	562	5.0
HSE North-East	1006	8.9
HSE North-West	398	3.5
HSE South-East	441	3.9
HSE South	1055	9.4
HSE West	503	4.5

Data source: CIDR as of 15/04/2020 9:30

Table 2: Country of Infection of confirmed COVID-19 cases notified as of midnight April 13th 2020, Ireland

Country of infection	Number of cases	% of cases
Ireland	7490	66.5
Other than Ireland	346	3.1
Unknown	3,425	30.4
Total	11261	100

Data source: CIDR as of 15/04/2020 9:30

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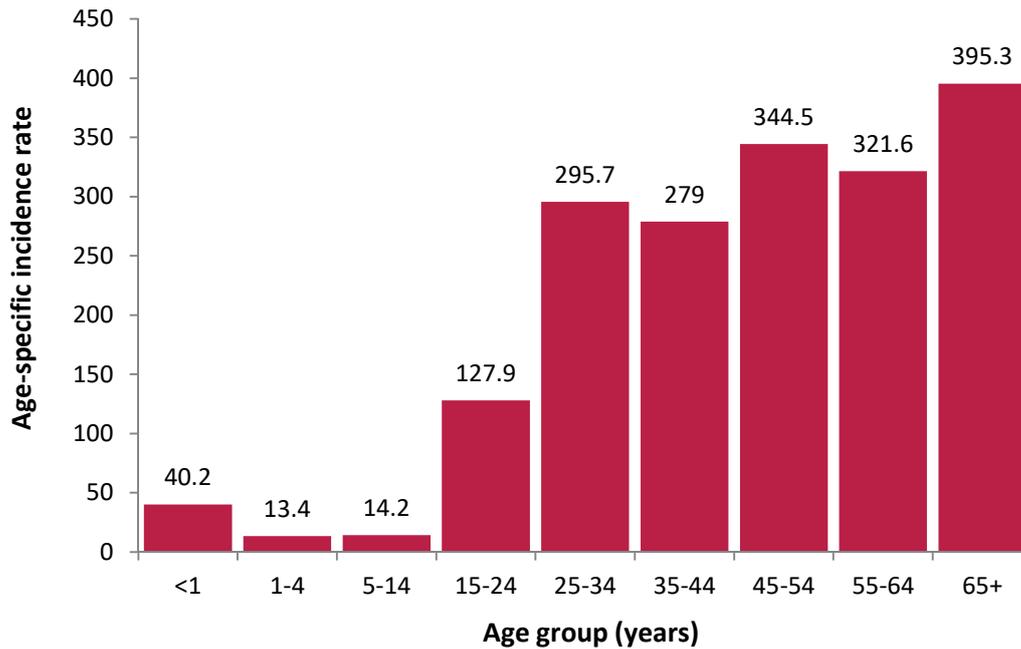


Figure 2: Age-specific incidence rates of confirmed cases of COVID-19 notified to midnight April 13th 2020, Ireland

Data source: CIDR as of 15/04/2020 9:30, rates are calculated using the 2016 census (www.cso.ie)

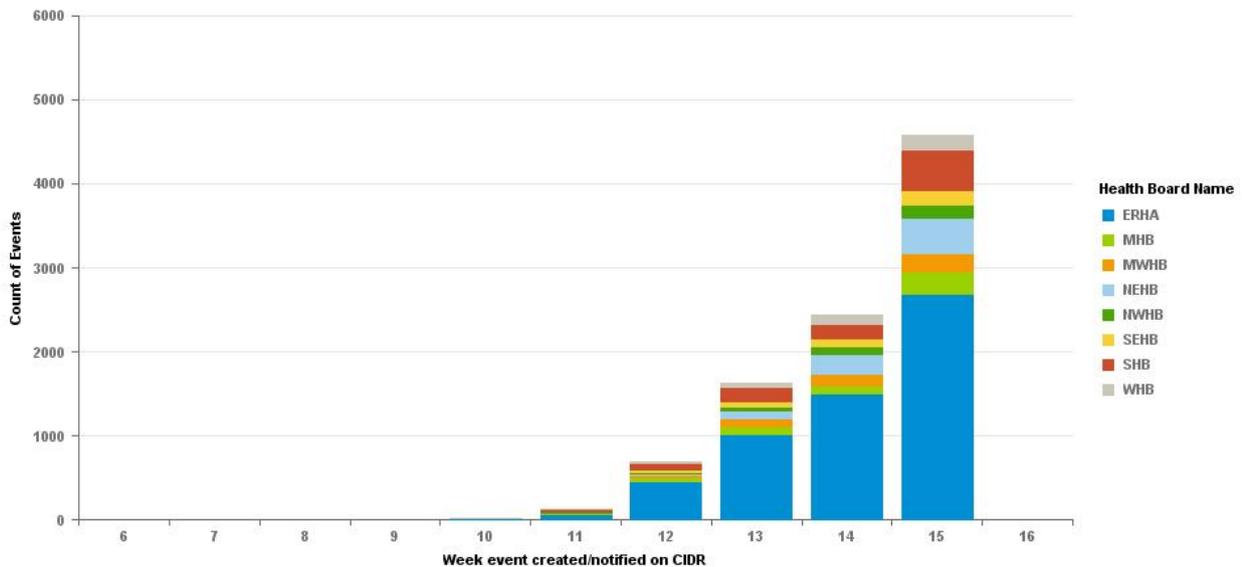


Figure 3: Confirmed cases of COVID-19 notified to midnight April 13th 2020, by HSE Area and week of notification

Data source: CIDR as of 15/04/2020 9:30

Note: Data are provisional

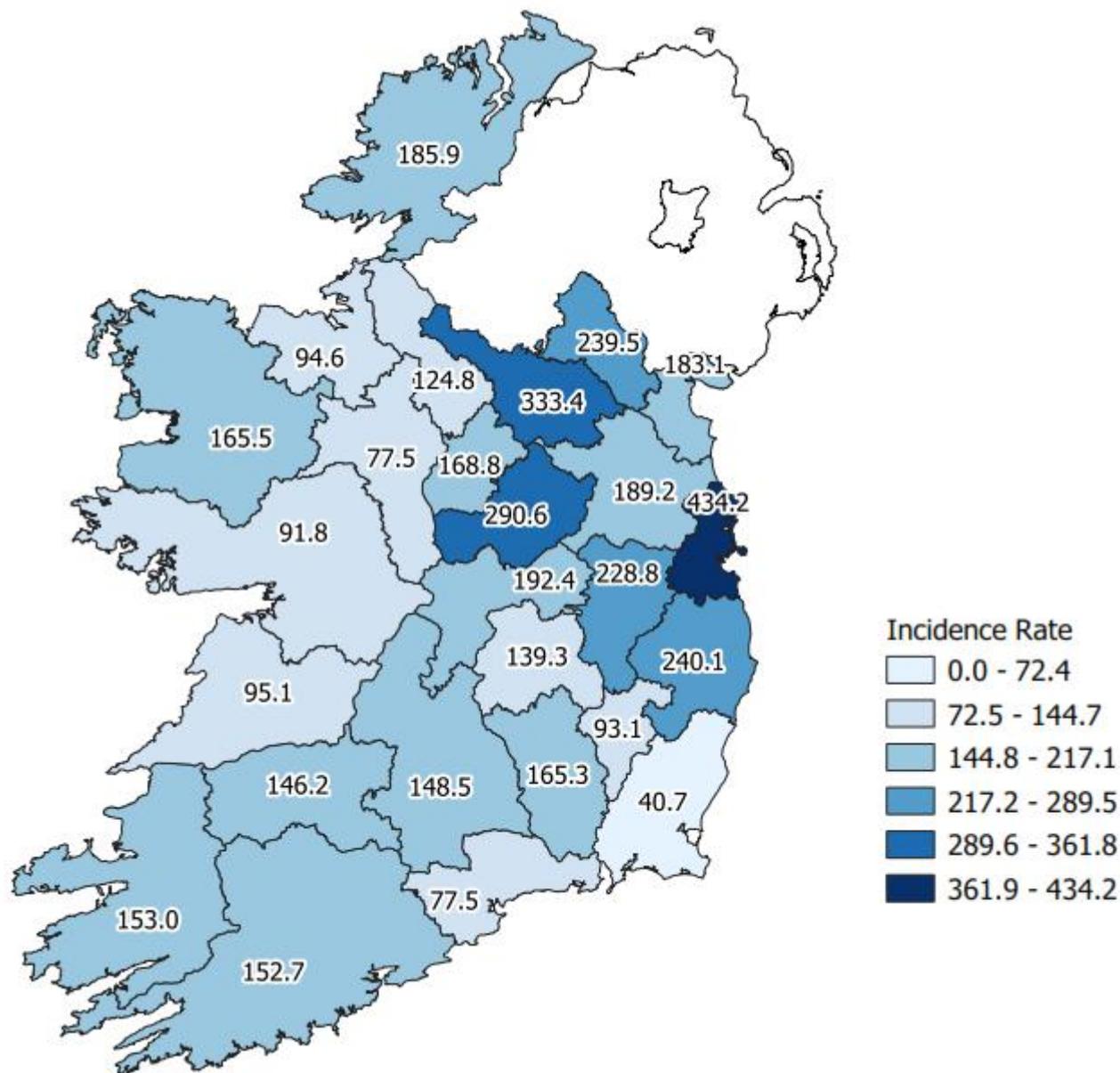


Figure 4: Cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 notified to midnight April 13th 2020 by county, Ireland

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 15/04/2020 9:30, rates are calculated using the 2016 census (www.cso.ie)

Table 3: Number of confirmed cases of COVID-19 notified to midnight April 13th 2020 by county

County Name	Number of cases	%
Carlow	53	0.5
Cavan	254	2.3
Clare	113	1.0
Cork	829	7.4
Donegal	296	2.6
Dublin	5850	51.9
Galway	237	2.1
Kerry	226	2.0
Kildare	509	4.5
Kilkenny	164	1.5
Laois	118	1.0
Leitrim	40	0.4
Limerick	285	2.5
Longford	69	0.6
Louth	236	2.1
Mayo	216	1.9
Meath	369	3.3
Monaghan	147	1.3
Offaly	150	1.3
Roscommon	50	0.4
Sligo	62	0.6
Tipperary	237	2.1
Waterford	90	0.8
Westmeath	258	2.3
Wexford	61	0.5
Wicklow	342	3.0
Total	11261	100

Data source: CIDR as of 15/04/2020 9:30

Table 4: Number of confirmed COVID-19 cases notified to midnight April 13th 2020 by transmission classification, Ireland

Transmission classification*	Number of cases	%
Community transmission	1961	17.4
Possible community transmission	2127	18.9
Local transmission	3222	28.6
Possible local transmission	96	0.9
Travel abroad	139	1.2
Possible travel abroad	335	3.0
Unknown	3381	30.0
Total	11261	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 15/04/2020 9:30

Note: Data are provisional

Table 5: Number of confirmed cases of COVID-19 notified to midnight April 13th 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	61	13	0.7	0	0.0	0	0.0
5 - 14	96	4	0.2	1	0.4	0	0.0
15-24	737	43	2.2	3	1.1	0	0.0
25-34	1950	130	6.6	10	3.6	3	0.7
35-44	2084	159	8.1	19	6.8	8	1.8
45-54	2157	288	14.6	64	22.9	8	1.8
55-64	1637	301	15.3	77	27.5	19	4.4
65+	2520	1028	52.2	106	37.9	397	91.3
Unknown	19	2	0.1	0	0.0	0	0.0
Total	11261	1968	100	280	100	435	100

Data source: CIDR as of 15/04/2020 9:30

Of the 11,261 laboratory confirmed cases of COVID-19, 435 had died, giving a case fatality rate of 3.9%. Of the patients who were hospitalised, 15% were admitted to ICU.

Table 6: Number of confirmed cases of COVID-19 notified to midnight April 13th 2020 in healthcare workers by HSE-area and travel status

HSE area	Foreign travel	No foreign travel	Not specified	Total
HSE East	72	1614	81	1767
HSE Midlands	6	120	51	177
HSE Mid-West	13	66	64	143
HSE North-East	3	17	154	174
HSE North-West	8	40	57	105
HSE South-East	5	3	129	137
HSE South	21	104	79	204
HSE West	7	80	78	165
Total	135	2044	693	2872

Data source: CIDR as of 14/04/2020 9:30

Of the 2,872 cases who were healthcare workers, 71% had no history of foreign travel in the 14 days prior to onset of symptoms.

Table 7: Number of clusters/outbreaks of COVID-19 notified to midnight April 13th 2020 by location and HSE-area

Outbreak Location	E	M	MW	NE	NW	SE	S	W	Total	%
Nursing home	80	8	4	27	3	2	3	28	155	37.5
Hospital	36	2	1	8	1	2	7	3	60	14.5
Residential institution	34	8	2	2	1	1	7	3	58	14
Private house	2	3		8	5	8	8	17	51	12.3
Comm. Hosp/Long-stay unit	4	8			2	1	5	3	23	5.6
Travel related		3	4	4	2	1	5	2	21	5.1
Extended family	2		1		2	3	2	1	11	2.7
Workplace	2	1				3	5	1	12	2.9
Community outbreak	3	1	1	1					6	1.5
Public house		2					1		3	0.7
Hotel	1						1		2	0.5
Other	2		2	1			2	2	9	2.2
Not Specified	2								2	0.5
Total	168	36	15	51	16	21	46	60	413	100

Data source: CIDR as of 15/04/2020 9:30

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.