



Epidemiology of COVID-19 in Ireland

Report prepared by HPSC on 17/04/2020 for NPHE

Note: Data are provisional

Summary

This report includes data as of 17th April 2020 at 9:30 am for events created on CIDR up to midnight Wednesday 15th April 2020.

Characteristic	Number	%
Total number of confirmed cases	13,012	
Number of new cases since previous day	587	4.5
Total number hospitalised	2,082	16.0
Total number admitted to ICU	294	2.3
Total number of deaths	521	4.0
Total number of outbreaks/clusters	436	-
Total number cases associated with clusters	2,723	20.9
Total number of imported cases	349	2.7
Number of cases in Healthcare workers	3,347	25.7
Median age (years)	48	-
Age range (years)	0-106	-

Confirmed cases

In total, 13,012 confirmed cases of COVID-19 were notified in Ireland **before midnight April 15th 2020**, with the first cases reported in Week 10 2020, week ending 07/03/2020 (Figure 1).

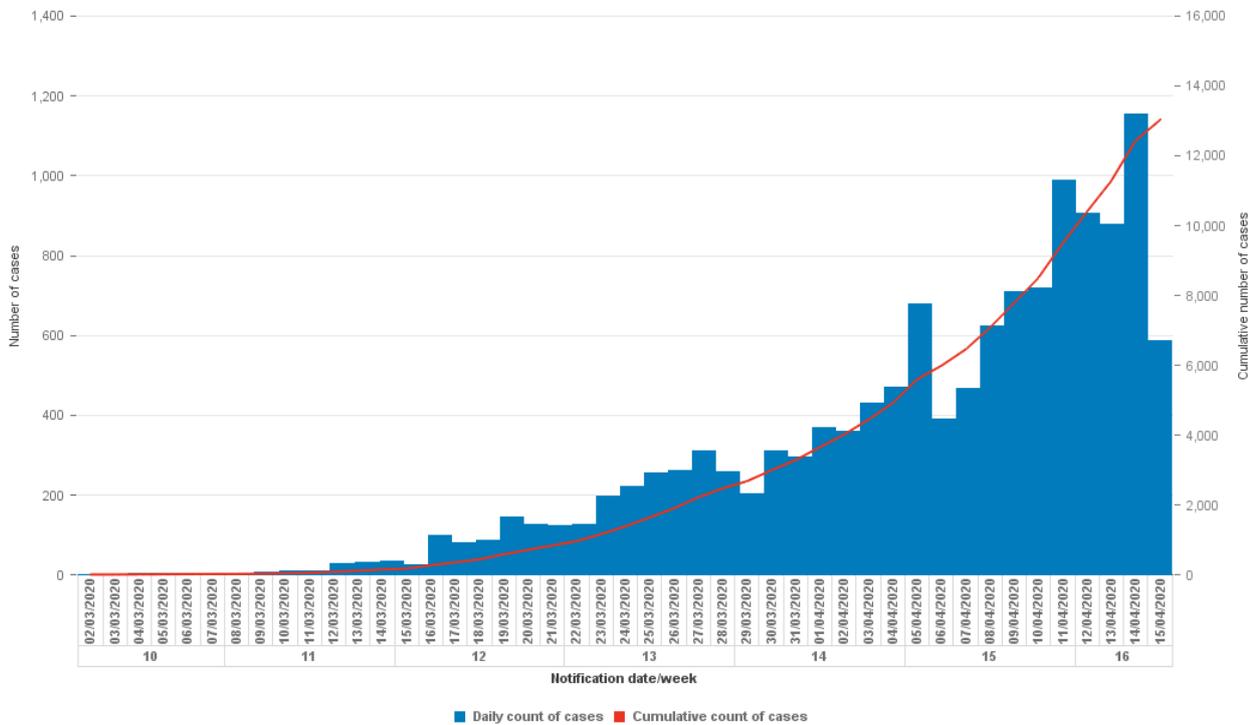


Figure 1: Number and cumulative number of confirmed COVID-19 cases notified in Ireland to midnight April 15th 2020

Data source: CIDR as of 17/04/2020 9:30

Outbreaks/Clusters

There were 436 outbreaks/clusters of COVID-19 notified on CIDR **before midnight April 15th 2020**.

Table 1: Characteristics of confirmed COVID-19 cases notified as of midnight April 15th 2020, Ireland

Characteristic	Number of cases	%
Total	13,012	100
Sex		
Female	7117	54.7
Male	5773	44.4
Unknown	122	0.9
Age group (years)		
<1	27	0.2
1-4	44	0.3
5-14	136	1.0
15-24	846	6.5
25-34	2231	17.1
35-44	2415	18.6
45-54	2502	19.2
55-64	1902	14.6
65+	2889	22.2
Unknown	20	0.2
HSE area		
HSE East	7572	58.2
HSE Midlands	707	5.4
HSE Mid-West	660	5.1
HSE North-East	1316	10.1
HSE North-West	467	3.6
HSE South-East	505	3.9
HSE South	1199	9.2
HSE West	586	4.5

Data source: CIDR as of 17/04/2020 9:30

Table 2: Country of Infection of confirmed COVID-19 cases notified as of midnight April 15th 2020, Ireland

Country of infection	Number of cases	% of cases
Ireland	8878	68.2
Other than Ireland	349	2.7
Unknown	3785	29.1
Total	13012	100

Data source: CIDR as of 17/04/2020 9:30

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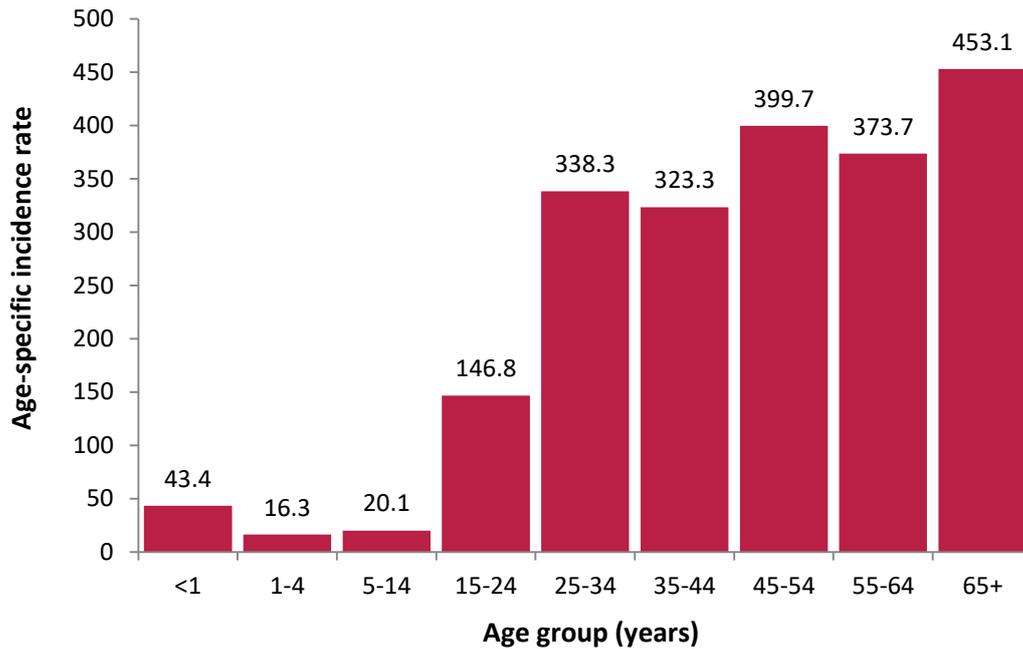


Figure 2: Age-specific incidence rates of confirmed cases of COVID-19 notified to midnight April 15th 2020, Ireland

Data source: CIDR as of 17/04/2020 9:30, rates are calculated using the 2016 census (www.cso.ie)

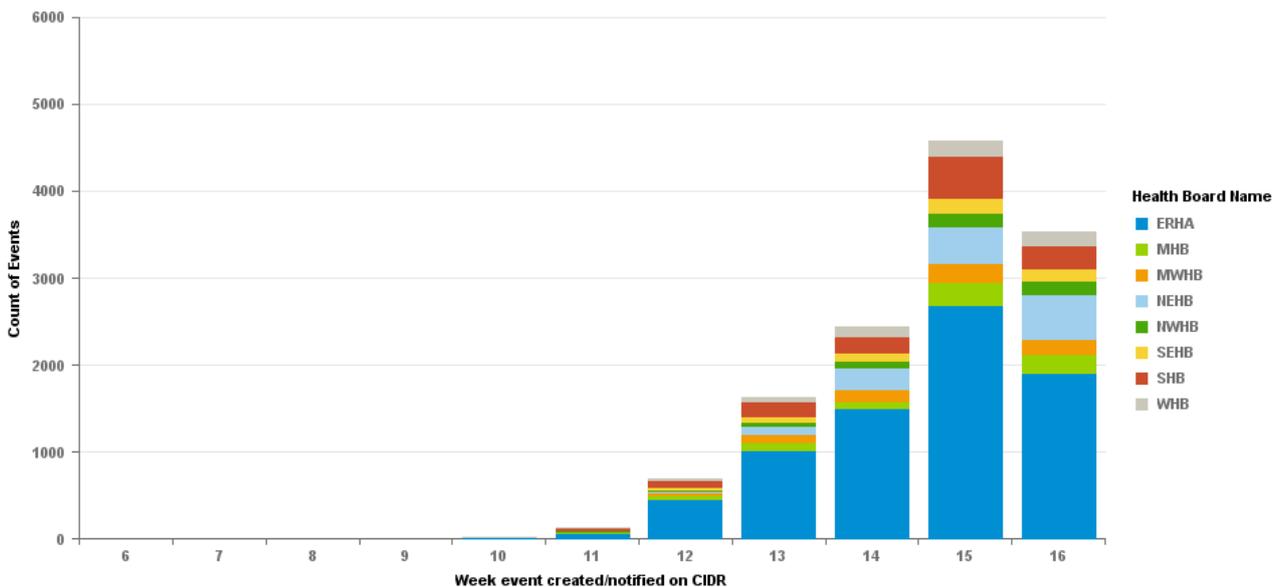


Figure 3: Confirmed cases of COVID-19 notified to midnight April 15th 2020, by HSE Area and week of notification

Data source: CIDR as of 17/04/2020 9:30

Note: Data are provisional

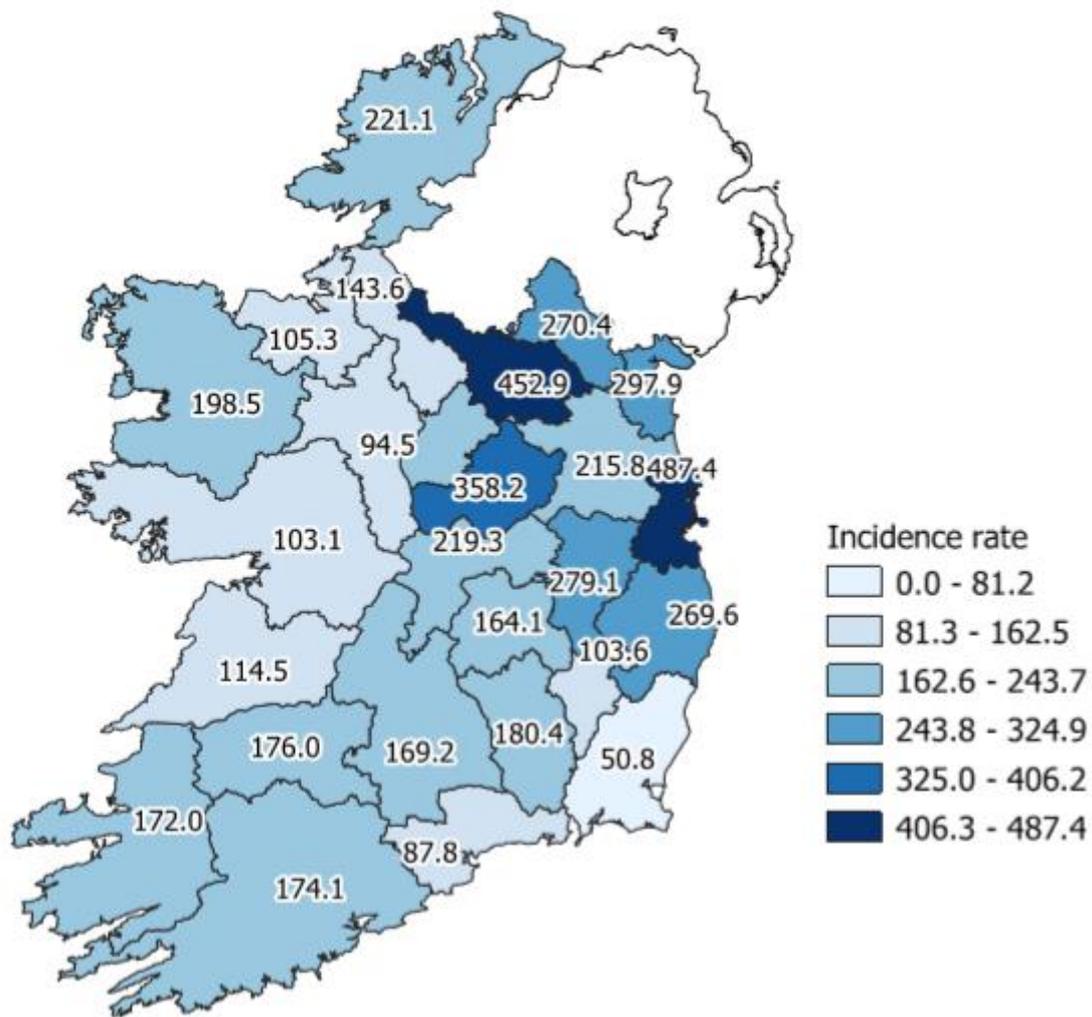


Figure 4: Cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 notified to midnight April 15th 2020 by county, Ireland

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 17/04/2020 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 15th 2020 by county

County Name	Number of cases	%
Carlow	59	0.5
Cavan	345	2.7
Clare	136	1.0
Cork	945	7.3
Donegal	352	2.7
Dublin	6567	50.5
Galway	266	2.0
Kerry	254	2.0
Kildare	621	4.8
Kilkenny	179	1.4
Laois	139	1.1
Leitrim	46	0.4
Limerick	343	2.6
Longford	79	0.6
Louth	384	3.0
Mayo	259	2.0
Meath	421	3.2
Monaghan	166	1.3
Offaly	171	1.3
Roscommon	61	0.5
Sligo	69	0.5
Tipperary	270	2.1
Waterford	102	0.8
Westmeath	318	2.4
Wexford	76	0.6
Wicklow	384	3.0
Total	13012	100

Data source: CIDR as of 17/04/2020 9:30

Table 4: Number of confirmed COVID-19 cases notified to midnight April 15th 2020 by transmission classification, Ireland

Transmission classification*	Number of cases	%
Community transmission	2184	16.8
Possible community transmission	2681	20.6
Local transmission	3768	29.0
Possible local transmission	143	1.1
Travel abroad	151	1.2
Possible travel abroad	338	2.6
Unknown	3747	28.8
Total	13012	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 17/04/2020 9:30

Note: Data are provisional

Table 5: Number of confirmed cases of COVID-19 notified to midnight April 15th 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	71	13	0.6	0	0.0	0	0.0
5 - 14	136	5	0.2	1	0.3	0	0.0
15-24	846	44	2.1	5	1.7	1	0.2
25-34	2231	134	6.4	10	3.4	3	0.6
35-44	2415	168	8.1	20	6.8	9	1.7
45-54	2502	304	14.6	66	22.4	12	2.3
55-64	1902	318	15.3	82	27.9	25	4.8
65+	2889	1094	52.5	110	37.4	471	90.4
Unknown	20	2	0.1	0	0.0	0	0.0
Total	13012	2082	100	294	100	521	100

Data source: CIDR as of 17/04/2020 9:30

Of the 13012 laboratory confirmed cases of COVID-19, 521 had died, giving a case fatality rate of 4.0%. Of the patients who were hospitalised, 14% 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	76	1862	105	2043
HSE Midlands	7	133	56	196
HSE Mid-West	14	71	93	178
HSE North-East	4	17	260	281
HSE North-West	8	56	58	122
HSE South-East	5	3	136	144
HSE South	21	104	81	206
HSE West	7	85	85	177
Total	142	2331	874	3347

Data source: CIDR as of 17/04/2020 9:30

Of the 3,347 cases who were healthcare workers, 70% had no history of foreign travel in the 14 days prior to onset of symptoms.

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Table 7: Number of clusters/outbreaks of COVID-19 notified to midnight April 15th 2020 by location and HSE-area

Outbreak Location	E	M	MW	NE	NW	SE	S	W	Total	%
Nursing home	81	8	5	27	3	3	3	29	159	36.5
Residential institution	41	9	2	4	1	1	7	3	68	15.6
Hospital	36	2	1	11	1	2	7	3	63	14.4
Private house	2	3		8	5	8	8	19	53	12.2
Comm. Hosp/Long-stay unit	4	8			2	1	5	3	23	5.3
Travel related		3	4	4	2	1	5	2	21	4.8
Workplace	2	2	1			3	5	1	14	3.2
Extended family	2		1		2	3	2	1	11	2.5
Community outbreak	3	1	1	1					6	1.4
Public house		2					1		3	0.7
Hotel	1						1		2	0.5
Other	2	1	2	1		1	2	2	11	2.5
Not Specified	2								2	0.5
Total	176	39	17	56	16	23	46	63	436	100

Data source: CIDR as of 17/04/2020 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.