



Epidemiology of COVID-19 in Ireland

Report prepared by HPSC on 16/05/2020 for NPHE

Note: Data are provisional

Summary

This report includes data as of 16th May 2020 at 9:20 am for events created on CIDR up to midnight Thursday 14th May 2020.

Characteristic	Number	%
Total number of confirmed cases	23,879	
Number of new cases since previous day	252	1.1
National incidence rate per 100,000 population	501.2	
Total number hospitalised	3,094	13.0
Total number admitted to ICU	389	1.6
Total number of deaths	1,277	5.3
National death rate per 100,000 population	26.8	
Total number of outbreaks/clusters	784	-
Total number cases associated with clusters	8,895	37.3
Total number of imported cases	361	1.5
Number of cases in Healthcare workers	7,530	31.5
Median age (years)	48	-
Age range (years)	0 - 106	-

Confirmed cases

In total 23,879 confirmed cases of COVID-19 were notified in Ireland **before midnight May 14th 2020**, with the first cases reported in Week 10 2020, week ending 07/03/2020 (Figure 1).

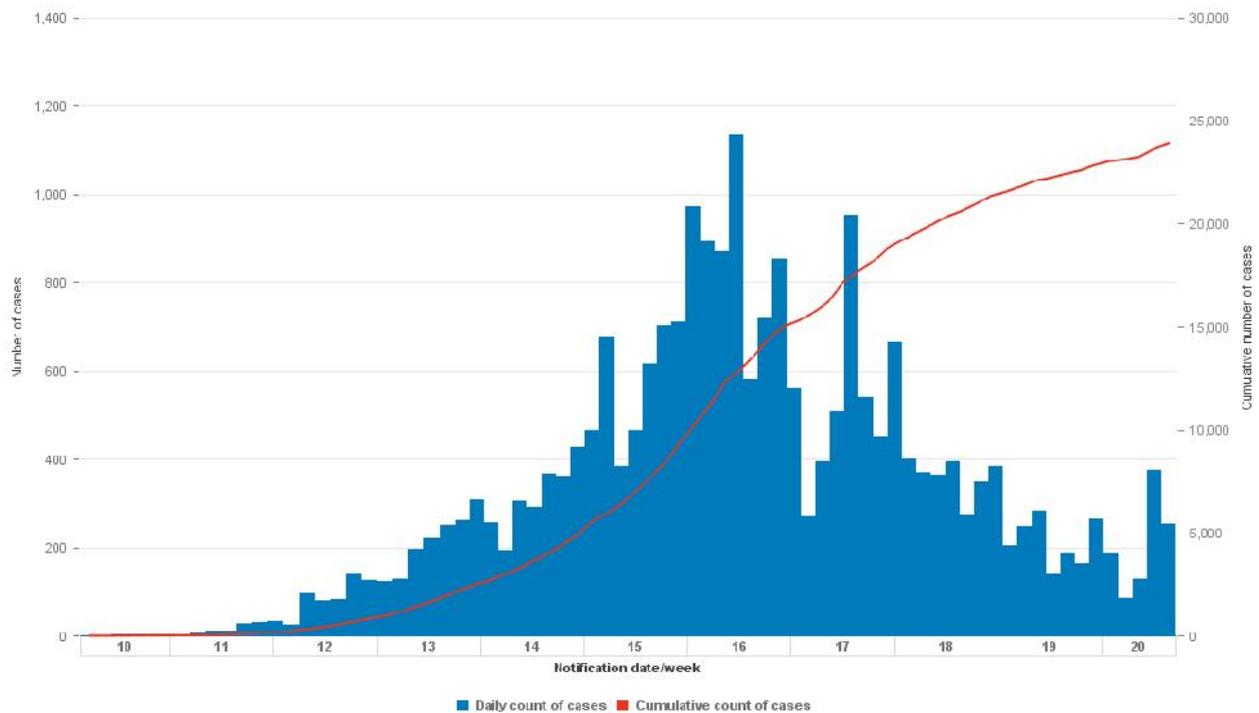


Figure 1: Number and cumulative number of confirmed COVID-19 cases notified in Ireland to midnight May 14th 2020.

Data source: CIDR as of 16/05/2020 9:20

Outbreaks/Clusters

There were 784 outbreaks/clusters of COVID-19 notified on CIDR **before midnight May 14th 2020**.

Table 1: Characteristics of confirmed COVID-19 cases notified as of midnight May 14th 2020, Ireland

Characteristic	Number of cases	%
Total	23,879	100
Sex		
Female	13681	57.3
Male	10149	42.5
Unknown	49	0.2
Age group (years)		
<1	43	0.2
1-4	85	0.4
5-14	267	1.1
15-24	1705	7.1
25-34	3995	16.7
35-44	4181	17.5
45-54	4316	18.1
55-64	3096	13.0
65-74	1714	7.2
75-84	2188	9.2
85+	2265	9.5
Unknown	24	0.1
HSE area		
HSE East	13671	57.3
HSE Midlands	1633	6.8
HSE Mid-West	1320	5.5
HSE North-East	2761	11.6
HSE North-West	682	2.9
HSE South-East	905	3.8
HSE South	1653	6.9
HSE West	1254	5.3

Data source: CIDR as of 16/05/2020 9:20

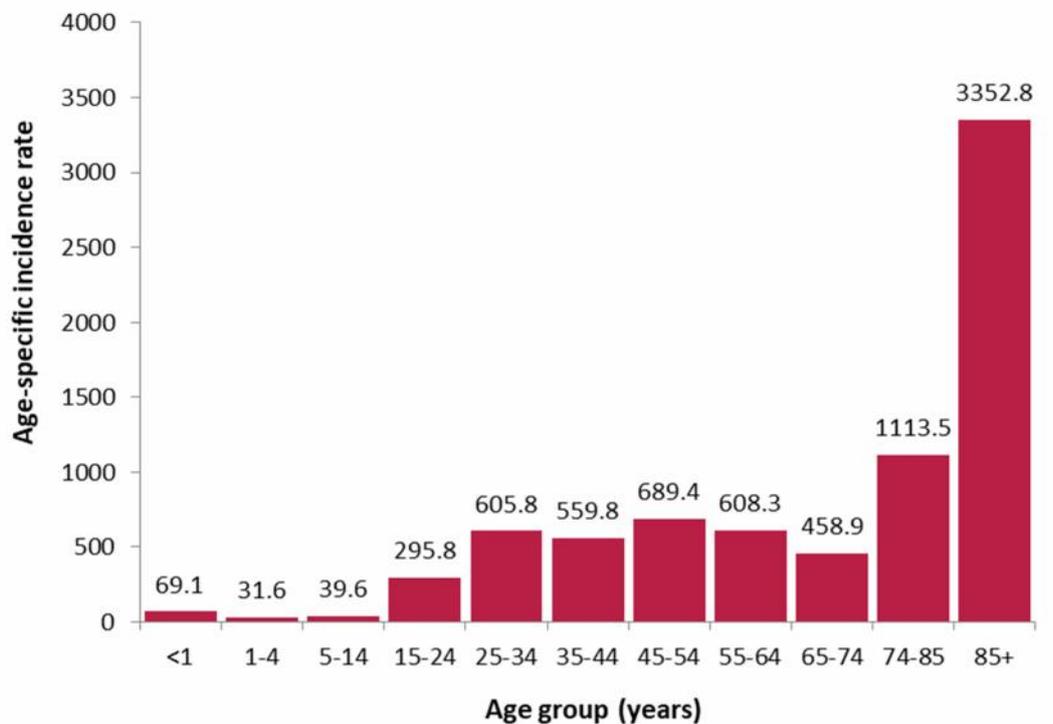
Table 2: Country of Infection of confirmed COVID-19 cases notified as of midnight May 14th 2020, Ireland

Country of infection	Number of cases	% of cases
Ireland	19,267	80.7
Other than Ireland	361	1.5
Unknown	4251	17.8
Total	23,879	100

Data source: CIDR as of 16/05/2020 9:20

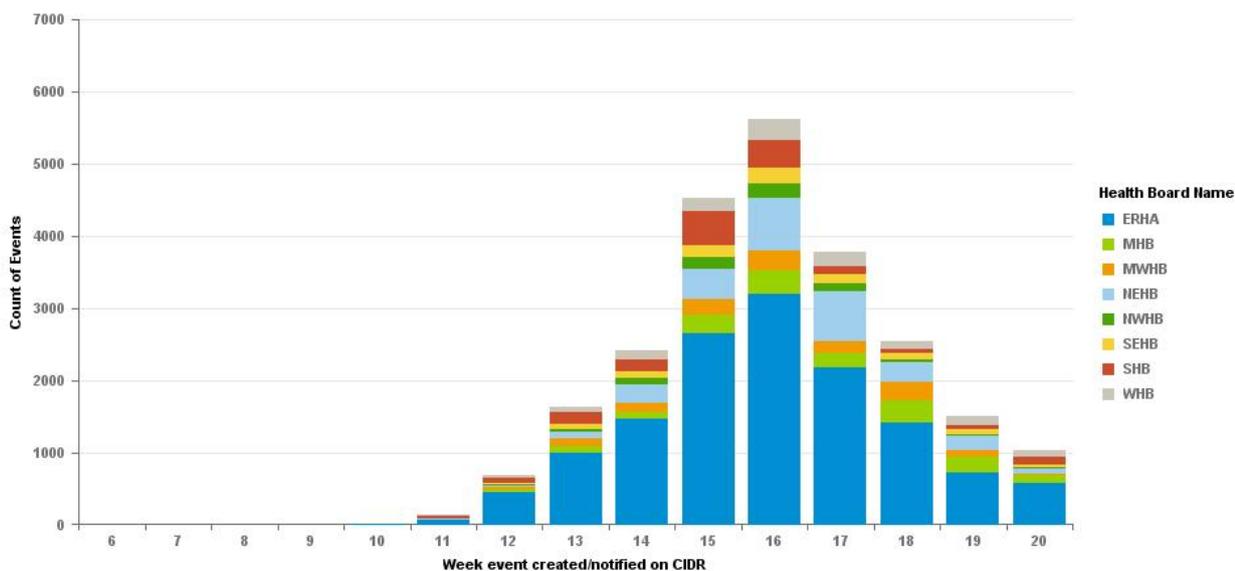
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Figure 2: Age-specific incidence rates of confirmed cases of COVID-19 notified to midnight May 14th 2020, Ireland



Data source: CIDR as of 16/05/2020 9:20, rates are calculated using the 2016 census (www.cso.ie)

Figure 3: Confirmed cases of COVID-19 notified to midnight May 14th 2020, by HSE Area and week of notification



Data source: CIDR as of 16/05/2020 9:20

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Table 3: Number of confirmed cases of COVID-19 notified to midnight May 14th 2020 by county

County Name	Number of cases	%
Carlow	144	0.6
Cavan	776	3.2
Clare	314	1.3
Cork	1346	5.6
Donegal	474	2.0
Dublin	11657	48.8
Galway	412	1.7
Kerry	307	1.3
Kildare	1357	5.7
Kilkenny	295	1.2
Laois	251	1.1
Leitrim	79	0.3
Limerick	596	2.5
Longford	273	1.1
Louth	741	3.1
Mayo	542	2.3
Meath	776	3.2
Monaghan	468	2.0
Offaly	455	1.9
Roscommon	300	1.3
Sligo	129	0.5
Tipperary	521	2.2
Waterford	144	0.6
Westmeath	654	2.7
Wexford	211	0.9
Wicklow	657	2.8
Total	23879	100

Data source: CIDR as of 16/05/2020 9:20

Table 4: Number of confirmed COVID-19 cases notified to midnight May 14th 2020 by transmission classification, Ireland

Transmission classification*	Number of cases	%
Community transmission	2,552	10.7
Possible community transmission	9,245	38.7
Local transmission	6,475	27.1
Possible local transmission	812	3.4
Travel abroad	214	0.9
Possible travel abroad	356	1.5
Unknown	4,225	17.7
Total	23,879	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 16/05/2020 9:20

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Table 5: Number of confirmed cases of COVID-19 notified to midnight May 14th 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	128	18	0.6	0	0.0	0	0.0
5 - 14	267	17	0.5	2	0.5	0	0.0
15-24	1705	68	2.2	5	1.3	2	0.2
25-34	3995	186	6.0	15	3.9	5	0.4
35-44	4181	247	8.0	32	8.2	10	0.8
45-54	4316	415	13.4	80	20.6	23	1.8
55-64	3096	449	14.5	111	28.5	54	4.2
65-74	1714	545	17.6	96	24.7	185	14.5
75-84	2188	700	22.6	41	10.5	439	34.4
85+	2265	447	14.4	7	1.8	559	43.8
Unknown	24	2	0.1	0	0.0	0	0.0
Total	23879	3094	100	389	100	1277	100

Data source: CIDR as of 16/05/2020 9:20

Of the 23,879 laboratory confirmed COVID-19 cases, 1,277 have died, giving a case fatality rate of 5.35%. Of the patients who were hospitalised, 13% were admitted to ICU.

Table 6: Number of confirmed cases of COVID-19 notified to midnight May 14th 2020 in healthcare workers by HSE-area and travel status

HSE area	Foreign travel	No foreign travel	Not specified	Total
HSE East	95	4130	300	4525
HSE Midlands	12	289	113	414
HSE Mid-West	16	127	209	352
HSE North-East	11	721	293	1025
HSE North-West	8	116	128	252
HSE South-East	5	15	265	285
HSE South	22	122	241	385
HSE West	7	83	202	292
Total	176	5603	1751	7530

Data source: CIDR as of 16/05/2020 9:20

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Table 7: Number of clusters/outbreaks of COVID-19 notified to midnight May 14th 2020 by location and HSE-area

Outbreak Location	E	M	MW	NE	NW	SE	S	W	Total	%
Nursing home	116	16	12	38	5	15	12	36	250	31.9
Residential institution	94	11	5	13	2	10	20	4	159	20.3
Private house	5	6	10	9	5	24	65	21	145	18.5
Hospital	53	2	2	12	2		12	6	89	11.4
Workplace	7	5	5	6	1	4	7	2	37	4.7
Comm. Hosp/Long-stay unit	6	4			4	5	8	4	31	4.0
Travel related		3	5	4	2	1	5	2	22	2.8
Extended family	2		5		2	3	3	2	17	2.2
Community outbreak	5	1	2	2			1	3	14	1.8
Other	3		3			4	4		14	1.8
Public house		2	1				1		4	0.5
Hotel							2		2	0.3
Total	291	50	50	84	23	66	140	80	784	100.2

Data source: CIDR as of 16/05/2020 9:20

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.