



Epidemiology of COVID-19 in Ireland

Report prepared by HPSC on 22/05/2020 for NPHE

Note: Data are provisional

Summary

This report includes data as of 22nd May 2020 at 9:20 am for events created on CIDR up to midnight Wednesday 20th May 2020.

Characteristic	Number	%
Total number of confirmed cases	24,351	
Number of new cases since previous day	80	0.3
National incidence rate per 100,000 population	511.4	
Total number hospitalised	3,194	13.1
Total number admitted to ICU	393	1.6
Total number of deaths	1,330	5.5
National death rate per 100,000 population	27.9	
Total number of outbreaks/clusters	823	-
Total number cases associated with clusters	9,399	38.6
Total number of imported cases	359	1.5
Number of cases in Healthcare workers	7,791	32.0
Median age (years)	48	-
Age range (years)	0 - 106	-

Confirmed cases

In total 24,351 confirmed cases of COVID-19 were notified in Ireland **before midnight May 20^h 2020**, with the first cases reported in Week 10 2020, week ending 07/03/2020 (Figure 1).

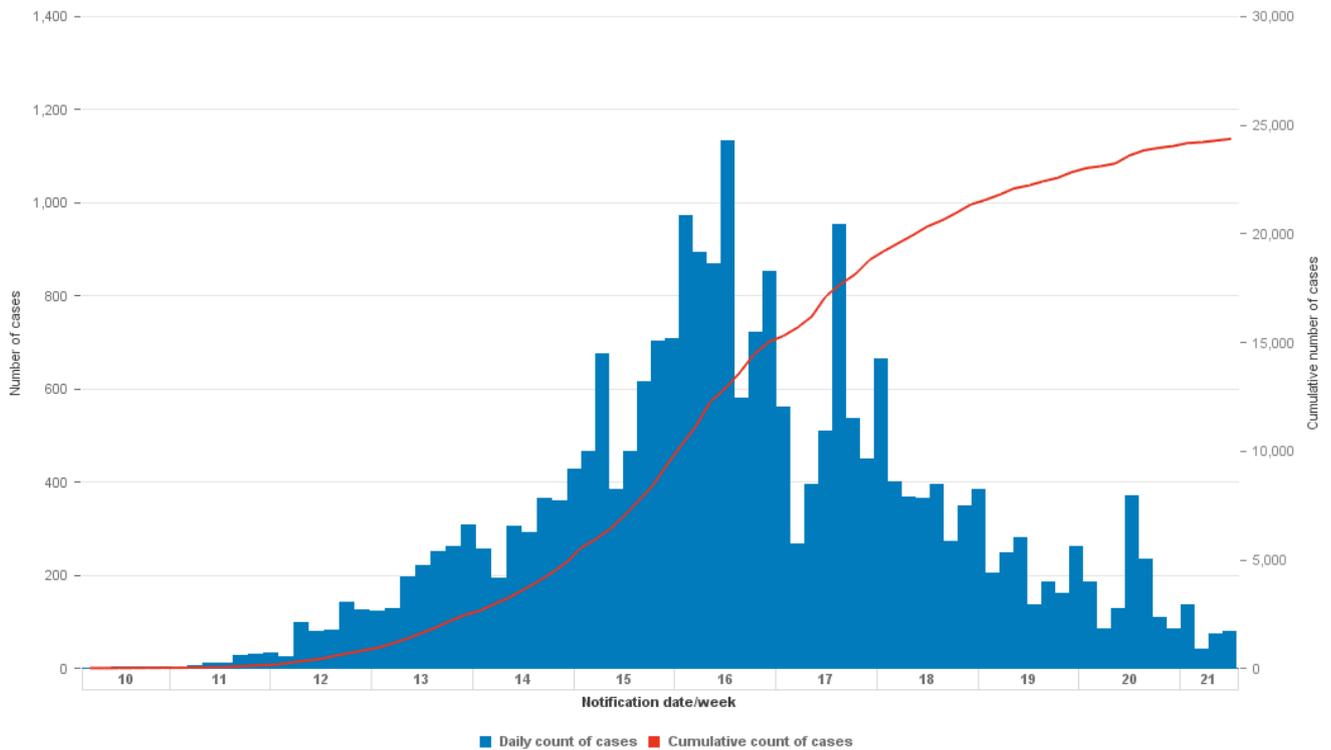


Figure 1: Number and cumulative number of confirmed COVID-19 cases notified in Ireland to midnight May 20th 2020.

Data source: CIDR as of 22/05/2020 9:20

Outbreaks/Clusters

There were 823 outbreaks/clusters of COVID-19 notified on CIDR **before midnight May 20th 2020**.

Table 1: Characteristics of confirmed COVID-19 cases notified as of midnight May 20th 2020, Ireland

Characteristic	Number of cases	%
Total	24,351	100
Sex		
Female	13936	57.2
Male	10375	42.6
Unknown	40	0.2
Age group (years)		
<1	44	0.2
1-4	93	0.4
5-14	281	1.2
15-24	1763	7.2
25-34	4093	16.8
35-44	4288	17.6
45-54	4380	18.0
55-64	3139	12.9
65-74	1743	7.2
75-84	2215	9.1
85+	2288	9.4
Unknown	24	0.1
HSE area		
HSE East	13834	56.8
HSE Midlands	1670	6.9
HSE Mid-West	1347	5.5
HSE North-East	2834	11.6
HSE North-West	689	2.8
HSE South-East	948	3.9
HSE South	1706	7.0
HSE West	1323	5.4

Data source: CIDR as of 22/05/2020 9:20

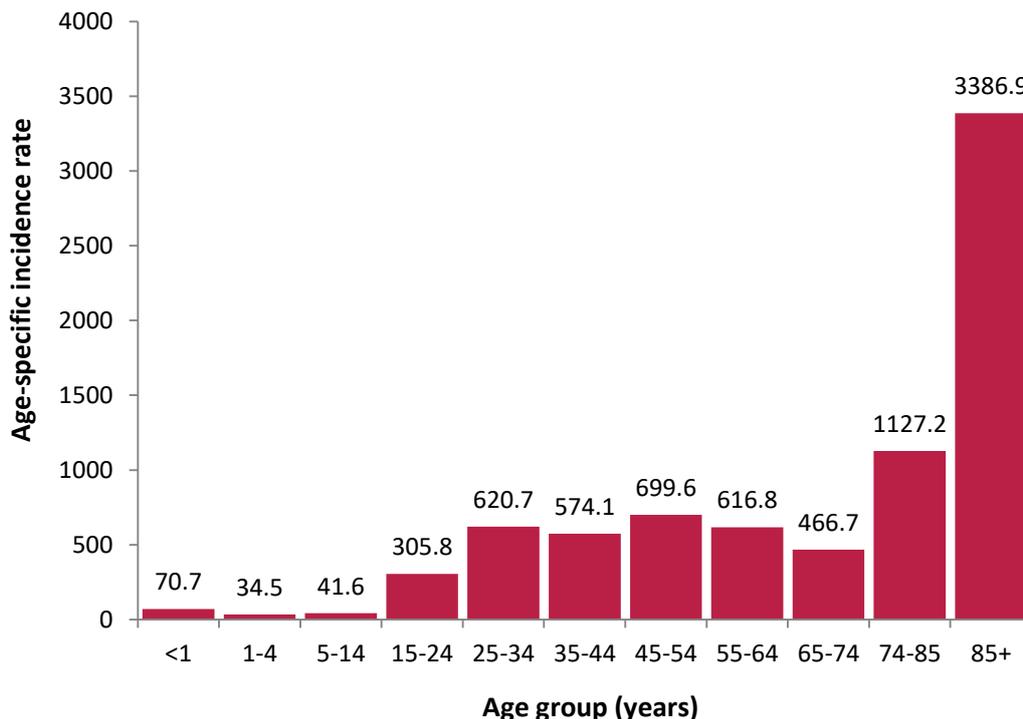
Table 2: Country of Infection of confirmed COVID-19 cases notified as of midnight May 20th 2020, Ireland

Country of infection	Number of cases	% of cases
Ireland	19,751	81.1
Other than Ireland	359	1.5
Unknown	4241	17.4
Total	24,351	100

Data source: CIDR as of 22/05/2020 9:20

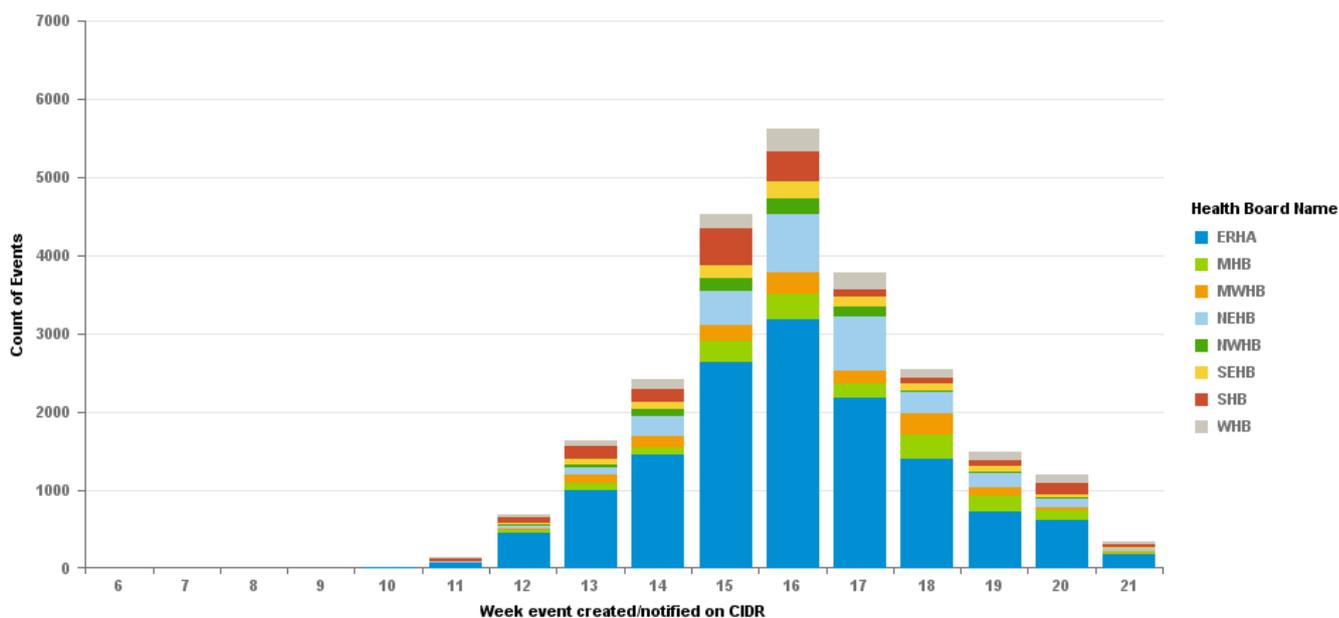
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Figure 2: Age-specific incidence rates of confirmed cases of COVID-19 notified to midnight May 20th 2020, Ireland



Data source: CIDR as of 22/05/2020 9:20, rates are calculated using the 2016 census (www.cso.ie)

Figure 3: Confirmed cases of COVID-19 notified to midnight May 20th 2020, by HSE Area and week of notification



Data source: CIDR as of 22/05/2020 9:20

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Table 3: Number of confirmed cases of COVID-19 notified to midnight May 20th 2020 by county

County Name	Number of cases	%
Carlow	151	0.6
Cavan	804	3.3
Clare	319	1.3
Cork	1398	5.7
Donegal	478	2.0
Dublin	11794	48.4
Galway	451	1.9
Kerry	308	1.3
Kildare	1383	5.7
Kilkenny	316	1.3
Laois	256	1.1
Leitrim	82	0.3
Limerick	615	2.5
Longford	280	1.1
Louth	751	3.1
Mayo	560	2.3
Meath	790	3.2
Monaghan	489	2.0
Offaly	473	1.9
Roscommon	312	1.3
Sligo	129	0.5
Tipperary	529	2.2
Waterford	148	0.6
Westmeath	661	2.7
Wexford	217	0.9
Wicklow	657	2.7
Total	24351	100

Data source: CIDR as of 22/05/2020 9:20

Table 4: Number of confirmed COVID-19 cases notified to midnight May 20th 2020 by transmission classification, Ireland

Transmission classification*	Number of cases	%
Community transmission	2,561	10.5
Possible community transmission	9,436	38.7
Local transmission	6,770	27.8
Possible local transmission	800	3.3
Travel abroad	357	1.5
Possible travel abroad	214	0.9
Unknown	4,213	17.3
Total	24,351	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 22/05/2020 9:20

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Table 5: Number of confirmed cases of COVID-19 notified to midnight May 20th 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	137	19	0.6	0	0.0	0	0.0
5 - 14	281	17	0.5	2	0.5	0	0.0
15-24	1763	70	2.2	5	1.3	2	0.2
25-34	4093	190	5.9	14	3.6	5	0.4
35-44	4288	247	7.7	32	8.1	10	0.8
45-54	4380	429	13.4	81	20.6	23	1.7
55-64	3139	474	14.8	114	29.0	58	4.4
65-74	1743	560	17.5	100	25.4	191	14.4
75-84	2215	719	22.5	39	9.9	458	34.4
85+	2288	466	14.6	6	1.5	583	43.8
Unknown	24	3	0.1	0	0.0	0	0.0
Total	24351	3194	100	393	100	1330	100

Data source: CIDR as of 22/05/2020 9:20

Of the 24,351 laboratory confirmed COVID-19 cases, 1,330 have died, giving a case fatality rate of 5.5%. Of the patients who were hospitalised, 12% were admitted to ICU.

Table 6: Number of confirmed cases of COVID-19 notified to midnight May 20th 2020 in healthcare workers by HSE-area and travel status

HSE area	Foreign travel	No foreign travel	Not specified	Total
HSE East	95	4226	292	4613
HSE Midlands	12	299	114	425
HSE Mid-West	16	126	217	359
HSE North-East	11	995	97	1103
HSE North-West	8	119	129	256
HSE South-East	5	16	291	312
HSE South	22	125	241	388
HSE West	7	86	242	335
Total	176	5992	1623	7791

Data source: CIDR as of 22/05/2020 9:20

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Table 7: Number of clusters/outbreaks of COVID-19 notified to midnight May 20th 2020 by location and HSE-area

Outbreak Location	E	M	MW	NE	NW	SE	S	W	Total	%
Nursing home	120	16	13	38	6	15	12	36	256	31.1
Residential institution	103	12	6	15	4	10	20	4	174	21.1
Private house	5	6	10	16	5	24	64	21	151	18.3
Hospital	54	2	2	14	2	3	12	6	95	11.5
Workplace	7	5	5	9	1	4	8	2	41	5.1
Comm. Hosp/Long-stay unit	4	4			4	5	8	4	29	3.5
Travel related		3	5	4	2	1	5	2	22	2.7
Extended family	2	1	5		2	3	3	3	19	2.3
Community outbreak	5	1	2	2			1	4	15	1.8
Other	6		3			1	4		14	1.7
Public house		2	1				1		4	0.5
Hotel	1						2		3	0.4
Total	307	52	52	98	26	66	140	82	823	100.0

Data source: CIDR as of 22/05/2020 9:20

Acknowledgements

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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.