Epidemiology of COVID-19 in Ireland

Report prepared by HPSC on 07/05/2020 for NPHET

Note: Data are provisional

Summary

This report includes data as of 7th May 2020 at 9:20 am for events created on CIDR up to midnight Tuesday 5th May 2020.

Characteristic	Number	%
Total number of confirmed cases	22,186	
Number of new cases since previous day	278	1.3
Total number hospitalised	2,891	13.0
Total number admitted to ICU	376	1.7
Total number of deaths	1,152	5.2
Total number of outbreaks/clusters	733	-
Total number cases associated with clusters	7,768	35.0
Total number of imported cases	361	1.6
Number of cases in Healthcare workers	6,498	29.3
Median age (years)	49	-
Age range (years)	0-106	-

Confirmed cases

In total 22,186 confirmed cases of COVID-19 were notified in Ireland **before midnight May 5th 2020**, with the first cases reported in Week 10 2020, week ending 07/03/2020 (Figure 1).
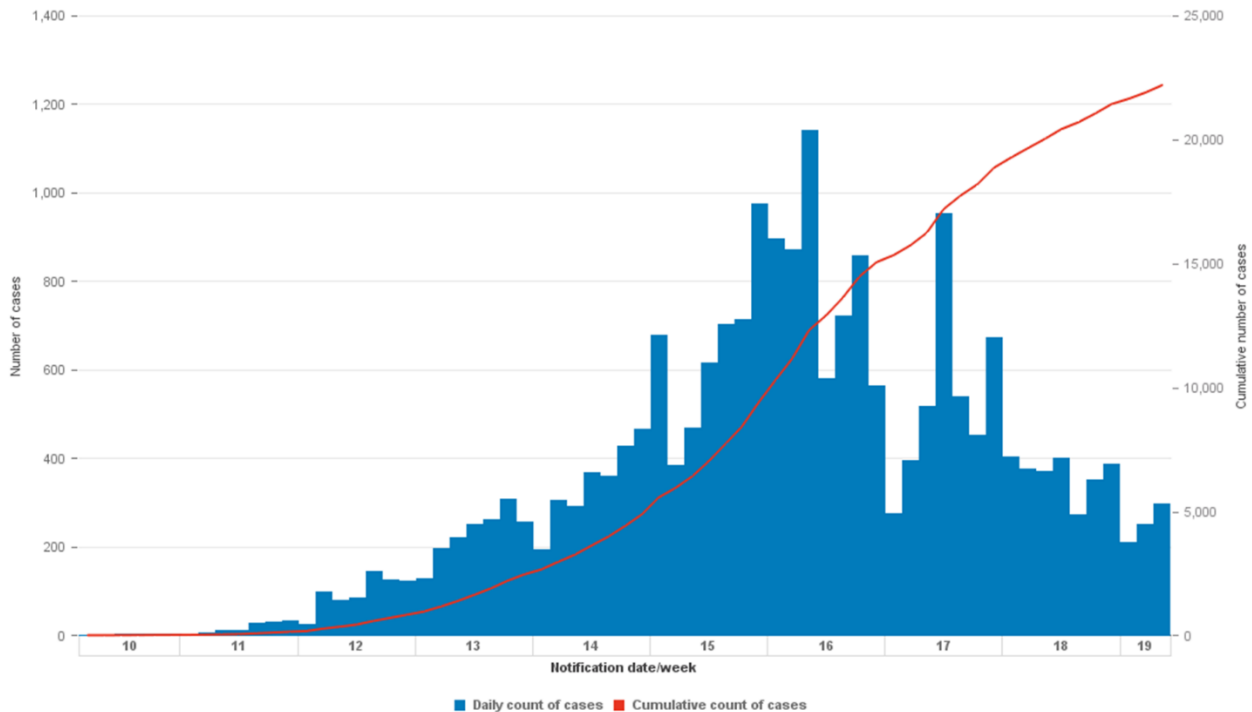

Figure 1: **Number and cumulative number of confirmed COVID-19 cases notified in Ireland to midnight May 5th 2020.**
Data source: CIDR as of 07/05/2020 9:20

Outbreaks/Clusters

There were 733 outbreaks/clusters of COVID-19 notified on CIDR **before midnight May 5th 2020.**

Table 1: Characteristics of confirmed COVID-19 cases notified as of midnight May 5th 2020, Ireland

Data source: CIDR as of 07/05/2020 9:20

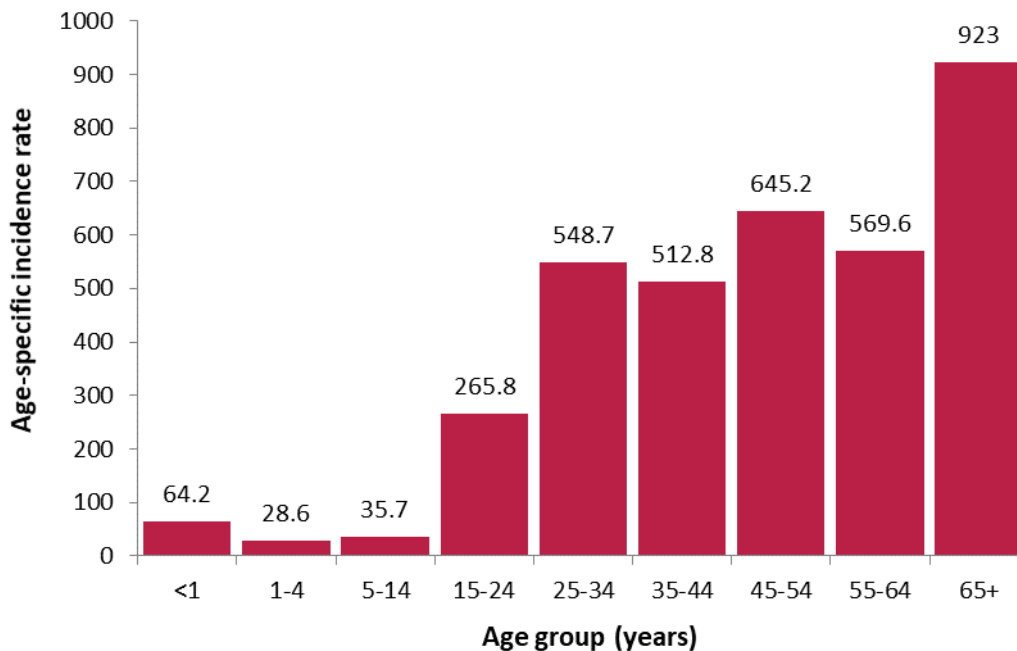| Characteristic	Number of cases	%
Total	22,186	100
Sex		
Female	12696	57.2
Male	9428	42.5
Unknown	62	0.3
Age group (years)		
<1	40	0.2
1-4	77	0.3
5-14	241	1.1
15-24	1532	6.9
25-34	3618	16.3
35-44	3830	17.3
45-54	4039	18.2
55-64	2899	13.1
65+	5885	26.5
Unknown	25	0.1
HSE area		
HSE East	12775	57.6
HSE Midlands	1475	6.6
HSE Mid-West	1256	5.7
HSE North-East	2573	11.6
HSE North-West	661	3.0
HSE South-East	832	3.8
HSE South	1499	6.8
HSE West	1115	5.0

Table 2: Country of Infection of confirmed COVID-19 cases notified as of midnight May 5th 2020, Ireland

Country of infection	Number of cases	% of cases
Ireland	17,352	78.2
Other than Ireland	361	1.6
Unknown	4473	20.2
Total	**22,186**	**100**

Data source: CIDR as of 07/05/2020 9:20

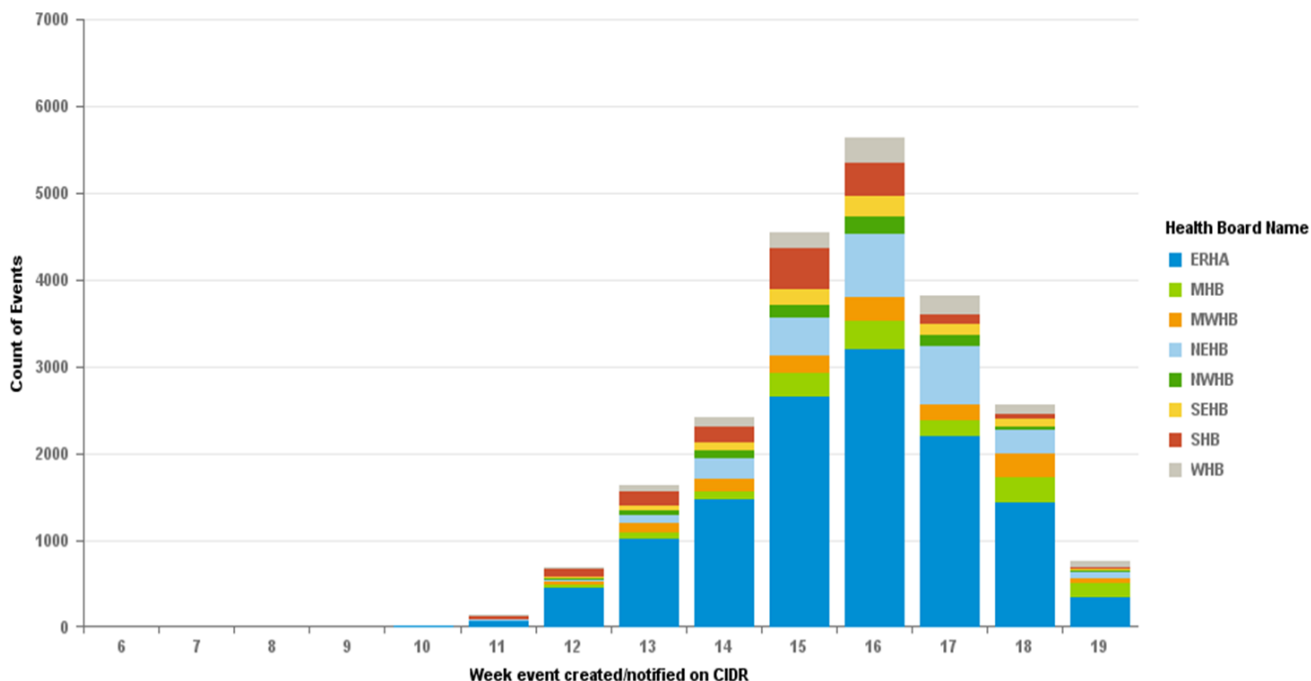**Figure 2:** Age-specific incidence rates of confirmed cases of COVID-19 notified to midnight May 5th 2020, Ireland

Data source: CIDR as of 07/05/2020 9:20, rates are calculated using the 2016 census (www.cso.ie)

Figure 3: Confirmed cases of COVID-19 notified to midnight May 5th 2020, by HSE Area and week of notification

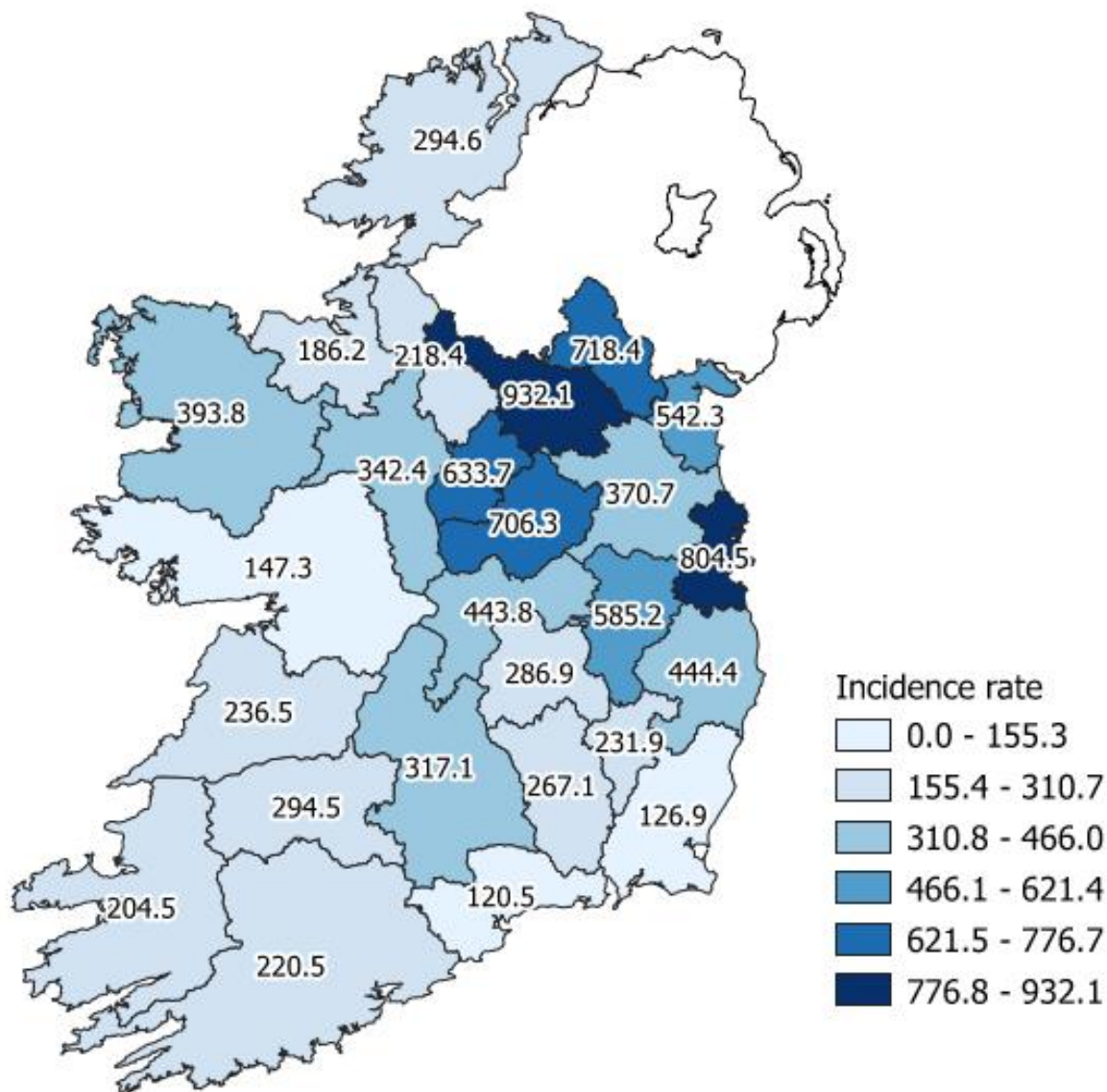Data source: CIDR as of 07/05/2020 9:20

Figure 4: Cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 notified to midnight May 5th 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 07/05/2020 9:20, rates are calculated using the 2016 census (www.cso.ie)

Table 3: Number of confirmed cases of COVID-19 notified to midnight May 5th 2020 by county

County Name	Number of cases	%
Carlow	132	0.6
Cavan	710	3.2
Clare	281	1.3
Cork	1197	5.4
Donegal	469	2.1
Dublin	10840	48.9
Galway	380	1.7
Kerry	302	1.4
Kildare	1302	5.9
Kilkenny	265	1.2
Laois	243	1.1
Leitrim	70	0.3
Limerick	574	2.6
Longford	259	1.2
Louth	699	3.2
Mayo	514	2.3
Meath	723	3.3
Monaghan	441	2.0
Offaly	346	1.6
Roscommon	221	1.0
Sligo	122	0.5
Tipperary	506	2.3
Waterford	140	0.6
Westmeath	627	2.8
Wexford	190	0.9
Wicklow	633	2.9
Total	**22186**	**100**

Data source: CIDR as of 07/05/2020 9:20

Table 4: Number of confirmed COVID-19 cases notified to midnight May 5th 2020 by transmission classification, Ireland

Transmission classification*	Number of cases	%
Community transmission	2,535	11.4
Possible community transmission	8,407	37.9
Local transmission	5,613	25.3
Possible local transmission	619	2.8
Travel abroad	350	1.6
Possible travel abroad	213	1.0
Unknown	4,449	20.1
Total	**22,186**	**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 07/05/2020 9:20

Note: Data are provisional

Table 5: Number of confirmed cases of COVID-19 notified to midnight May 5th 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	117	18	0.6	0	0.0	0	0.0
5 - 14	241	15	0.5	2	0.5	0	0.0
15-24	1532	63	2.2	5	1.3	2	0.2
25-34	3618	175	6.1	14	3.7	5	0.4
35-44	3830	238	8.2	32	8.5	9	0.8
45-54	4039	392	13.6	78	20.7	20	1.7
55-64	2899	425	14.7	108	28.7	49	4.3
65+	5885	1563	54.1	137	36.4	1067	92.6
Unknown	25	2	0.1	0	0.0	0	0.0
Total	**22186**	**2891**	**100**	**376**	**100**	**1152**	**100**

Data source: CIDR as of 07/05/2020 9:20

Of the 22,186 laboratory confirmed COVID-19 cases, 1,152 have died, giving a case fatality rate of 5.2%. Of the patients who were hospitalised, 13% were admitted to ICU.

Table 6: Number of confirmed cases of COVID-19 notified to midnight May 5th 2020 in healthcare workers by HSE-area and travel status

HSE area	Foreign travel	No foreign travel	Not specified	Total
HSE East	89	3563	219	3871
HSE Midlands	11	260	114	385
HSE Mid-West	16	112	167	295
HSE North-East	10	327	514	851
HSE North-West	8	118	116	242
HSE South-East	5	15	235	255
HSE South	22	118	208	348
HSE West	7	82	162	251
Total	**168**	**4595**	**1735**	**6498**

Data source: CIDR as of 07/05/2020 9:20

Table 7: Number of clusters/outbreaks of COVID-19 notified to midnight May 5th 2020 by location and HSE-area

Outbreak Location	E	M	MW	NE	NW	SE	S	W	Total	%
Nursing home	106	15	11	38	6	14	9	33	232	31.7
Private house	4	6	9	9	5	22	64	21	140	19.1
Residential institution	75	13	3	11	3	9	19	4	137	18.7
Hospital	50	2	2	12	2	3	12	5	88	12
Workplace	7	6	5	3	1	4	7	2	35	4.8
Comm. Hosp/Long-stay unit	6	4			5	4	8	4	31	4.2
Travel related		3	5	4	2	1	5	2	22	3
Extended family	2		5		2	3	3	1	16	2.2
Community outbreak	5	1	1	2			1	3	13	1.8
Other	4		2	1		1	4		12	1.6
Public house		2	1				1		4	0.5
Not Specified	1						1		2	0.3
Hotel							1		1	0.1
Total	**260**	**52**	**44**	**80**	**26**	**61**	**135**	**75**	**733**	**100**

Data source: CIDR as of 07/05/2020 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.