Epidemiology of COVID-19 in Ireland

Report prepared by HPSC on 03/04/2020 for NPHET

Note: Data are provisional

Summary

This report includes data as of 3rd April 2020 11:10 for events created on CIDR up to midnight Wednesday 1st April 2020

Characteristic	Number	%
Total number of confirmed cases	3655	
Number of new cases April 1st	373	8.0
Total number hospitalised	1039	28.4
Total number admitted to ICU	148	4.0
Total number of deaths	113	3.1
Total number of outbreaks/clusters	171	-
Total number cases associated with clusters	626	17.1
Total number of imported cases	311	8.5
Number of cases in Healthcare workers	948	25.9
Median age (years)	48	-
Age range (years)	0 - 99	-

Confirmed cases

In total, 3,655 confirmed cases of COVID-19 were notified in Ireland **before midnight April 1st 2020**, with the first cases reported in Week 10 2020, week ending 07/03/2020 (Figure 1).

Outbreaks/Clusters

One hundred and seventy one outbreaks/clusters of COVID-19 were notified on CIDR **before midnight April 1st 2020.**
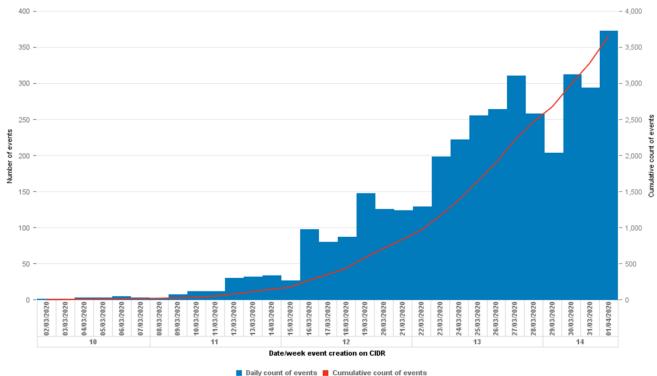

Figure 1: **Number and cumulative number of confirmed COVID-19 cases notified in Ireland to midnight April 1st 2020**
Data source: CIDR as of 03/04/2020 11:10

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

Characteristic	Number of cases	%
Total	3655	100
Sex		
Female	1860	50.9
Male	1752	47.9
Unknown	43	1.2
Age group (years		
<1	8	0.2
1-4	12	0.3
5-14	30	0.8
15-24	235	6.4
25-34	618	16.9
35-44	685	18.7
45-54	690	18.9
55-64	537	14.7
65+	831	22.7
Unknown	9	0.2
HSE area		
HSE East	2285	62.6
HSE Midlands	165	4.5
HSE Mid-West	215	5.9
HSE North-East	201	5.5
HSE North-West	115	3.1
HSE South-East	137	3.7
HSE South	371	10.1
HSE West	166	4.5

Data source: CIDR as of 03/04/2020 11:10

Table 2: Country of Infection of confirmed COVID-19 cases notified as of midnight April 1st 2020, Ireland

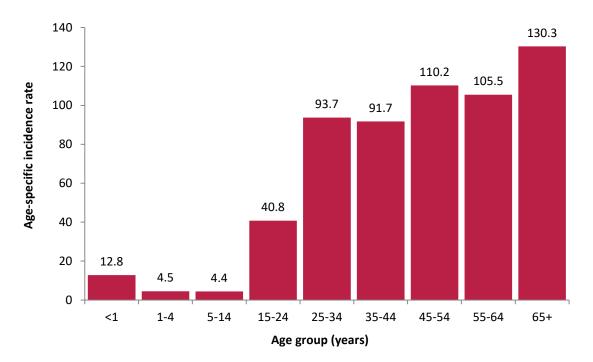| Country of infection	Number of cases	%
Algeria	1	0
Andorra	4	0.1
Argentina	1	0
Austria	52	1.4
Brazil	1	0
Bulgaria	3	0.1
Czech Republic	1	0
Ecuador	1	0
Finland	1	0
France	24	0.7
Germany	2	0.1
Hungary	1	0
Indonesia	1	0
Ireland	2135	58.4
Italy	60	1.6
Netherlands	5	0.1
Philippines	3	0.1
Poland	1	0
Portugal	2	0.1
Singapore	2	0.1
Spain	35	1
Sri Lanka		0
Sweden	1	0
Switzerland	7	0.2
Thailand	1	0
United kingdom	87	2.4
United states	14	0.4
Unknown	1209	33.1
Total	**3655**	**100**

Data source: CIDR as of 03/04/2020 11:10

Figure 2: Age-specific incidence rates of confirmed cases of COVID-19 notified to midnight April 1st 2020, Ireland

Data source: CIDR as of 03/04/2020 11:10, rates are calculated using the 2016 census (www.cso.ie)
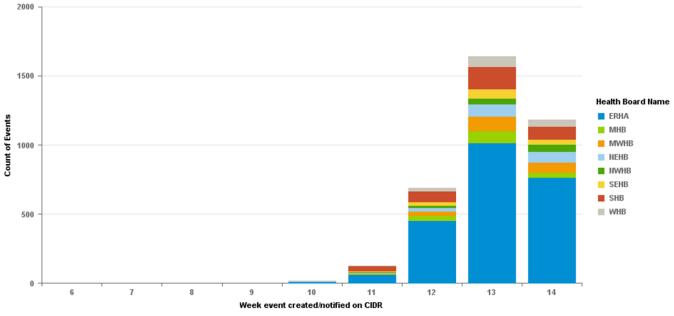

Figure 3: Confirmed cases of COVID-19 notified to midnight April 1st 2020, by HSE Area and week of notification
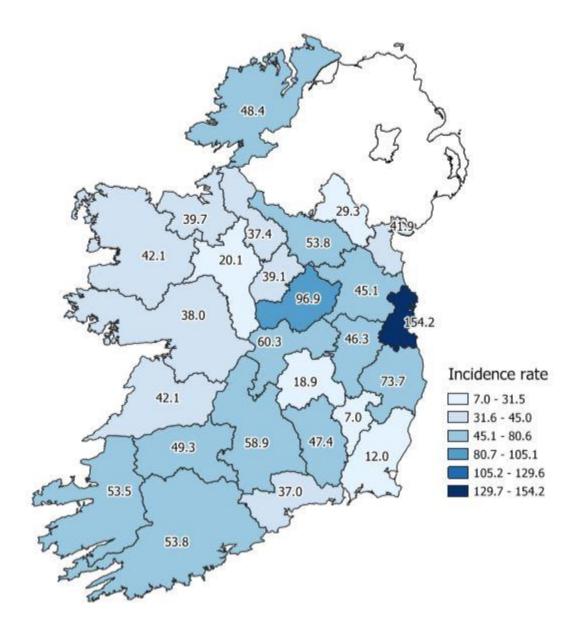
Data source: CIDR as of 03/04/2020 11:10

Figure 4: **Cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 notified to midnight April 1st 2020 by county, Ireland**

Data source: CIDR as of 03/04/2020 11:10, rates are calculated using the 2016 census (www.cso.ie)

Table 3: Number of confirmed cases of COVID-19 notified to midnight April 1st 2020 by County

County Name	Number of cases	%
Carlow	4	0.1
Cavan	41	1.1
Clare	50	1.4
Cork	292	8.0
Donegal	77	2.1
Dublin	2077	56.8
Galway	98	2.7
Kerry	79	2.2
Kildare	103	2.8
Kilkenny	47	1.3
Laois	16	0.4
Leitrim	12	0.3
Limerick	96	2.6
Longford	16	0.4
Louth	54	1.5
Mayo	55	1.5
Meath	88	2.4
Monaghan	18	0.5
Offaly	47	1.3
Roscommon	13	0.4
Sligo	26	0.7
Tipperary	94	2.6
Waterford	43	1.2
Westmeath	86	2.4
Wexford	18	0.5
Wicklow	105	2.9
Total	**3655**	**100**

Data source: CIDR as of 03/04/2020 11:10

Table 4: Number of confirmed COVID-19 cases notified to midnight April 1st 2020 by transmission classification, Ireland

Transmission classification*	Number of cases	%
Community transmission	865	23.7
Possible community transmission	668	18.3
Local transmission	561	15.3
Possible local transmission	20	0.5
Travel abroad	311	8.5
Possible travel abroad	79	2.2
Unknown	1151	31.5
Total	**3655**	**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 03/04/2020 11:10

Note: Data are provisional

Table 5: Number of confirmed cases of COVID-19 notified to midnight April 1st 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)	Case that died (%)
<5	20	6	0.6	0	0.0	0	0
5 - 14	30	4	0.4	1	0.7	0	0
15-24	235	32	3.1	1	0.7	0	0
25-34	618	81	7.8	7	4.7	2	1.8
35-44	685	94	9.0	9	6.1	1	0.9
45-54	690	163	15.7	35	23.6	1	0.9
55-64	537	160	15.4	36	24.3	6	5.3
65+	831	497	47.8	59	39.9	103	91.2
Unknown	9	2	0.2	0	0	0	0
Total	**3655**	**1039**	**100.0**	**148**	**100**	**113**	**100**

Data source: CIDR as of 03/04/2020 11:10

Of the 3,655 laboratory confirmed cases of COVID-19, 113 had died, giving a case fatality rate of 3.1

Table 6: Number of confirmed cases of COVID-19 notified to midnight April 1st 2020 in healthcare workers by HSE-area and travel status

HSE area	Foreign travel	No foreign travel	Not specified	Total
HSE East	42	477	22	541
HSE Midlands	3	24	12	39
HSE Mid-West	10	39	13	62
HSE North-East	2	15	17	34
HSE North-West	6	14	4	24
HSE South-East	5	3	44	52
HSE South	19	72	39	130
HSE West	7	57	2	66
Total	**94**	**701**	**153**	**948**

Data source: CIDR as of 03/04/2020 11:10

Of the 948 cases who were healthcare workers, 74% had no history of foreign travel in the 14 days prior to onset of symptoms.

Table 7: Number of clusters/outbreaks COVID-19 notified to midnight April 1st 2020 by location and HSE-area

Outbreak Location	E	M	MW	NE	NW	SE	S	W	Total	%
Nursing home	32	1	3		1			3	40	23.8
Private house	2	1		3	3	4	3	15	31	19.4
Hospital	17	2		2	1		5	3	30	18.1
Travel related		3	4	4	2	1	5	2	21	13.1
Residential institution	8			1			1	3	13	6.9
Extended family	2		1		2	3	1		9	5.6
Comm. Hosp/Long-stay unit	3	1					1	2	7	3.8
Workplace	1					1	1	1	4	2.5
Community outbreak		2	1						3	1.9
Public house		1					1		2	1.3
Hotel							1		1	0.6
Other	1		2	6			1		10	3.1
Total	66	11	11	16	9	9	20	29	171	100

Data source: CIDR as of 03/04/2020 11:10

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.