Epidemiology of COVID-19 in Ireland

Report prepared by HPSC on 31/03/2020 for NPHET

Note: Data are provisional

Summary

This report includes data as of 31st March 2020 12:00 for events created on CIDR up to midnight Sunday 29th March 2020

Characteristic	Number	%
Total number of confirmed cases	2677	
Number of new cases 29th March	205	7.7
Total number hospitalised	703	26.3
Total number admitted to ICU	113	4.2
Total number of deaths	64	2.4
Total number of outbreaks/clusters	118	-
Total number cases associated with clusters	494	18.5
Total number of imported cases	294	11.0
Number of cases in Healthcare workers	647	24.2
Median age (years)	47	-
Age range (years)	0 - 96	-

Confirmed cases

In total, 2,677 confirmed cases of COVID-19 were notified in Ireland **before midnight March 29th 2020**, with the first cases reported in Week 10 2020, week ending 07/03/2020 (Figure 1).

Outbreaks/Clusters

One hundred and eighteen outbreaks/clusters of COVID-19 were notified on CIDR **before midnight March 29th 2020.**
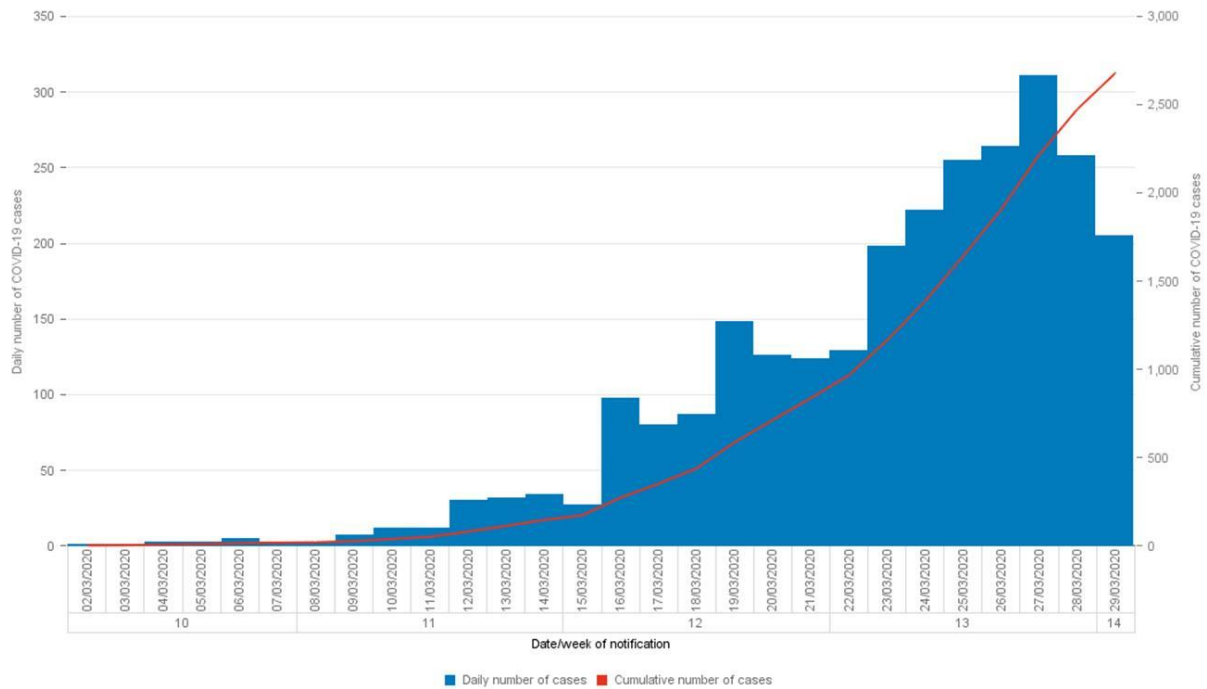

Figure 1: **Number and cumulative number of confirmed COVID-19 cases notified in Ireland to midnight March 29th 2020**

Data source: CIDR as of 31/03/2020 12:00

Table 1: Characteristics of confirmed COVID-19 cases notified as of midnight March 29th 2020, Ireland

Characteristic	Number of cases	%
Total	2677	100
Sex		
Female	1320	49.3
Male	1321	49.3
Unknown	36	1.3
Age group (years		
<1	6	0.2
1-4	11	0.4
5-14	30	1.1
15-24	178	6.6
25-34	477	17.8
35-44	503	18.8
45-54	504	18.8
55-64	398	14.9
65+	563	21
Unknown	7	0.3
HSE area		
HSE East	1626	60.7
HSE Midlands	136	5.1
HSE Mid-West	156	5.8
HSE North-East	142	5.3
HSE North-West	71	2.7
HSE South-East	110	4.1
HSE South	304	11.4
HSE West	132	4.9

Data source: CIDR as of 31/03/2020 12:00

Table 2: Country of Infection of confirmed COVID-19 cases notified as of midnight March 29th 2020, Ireland

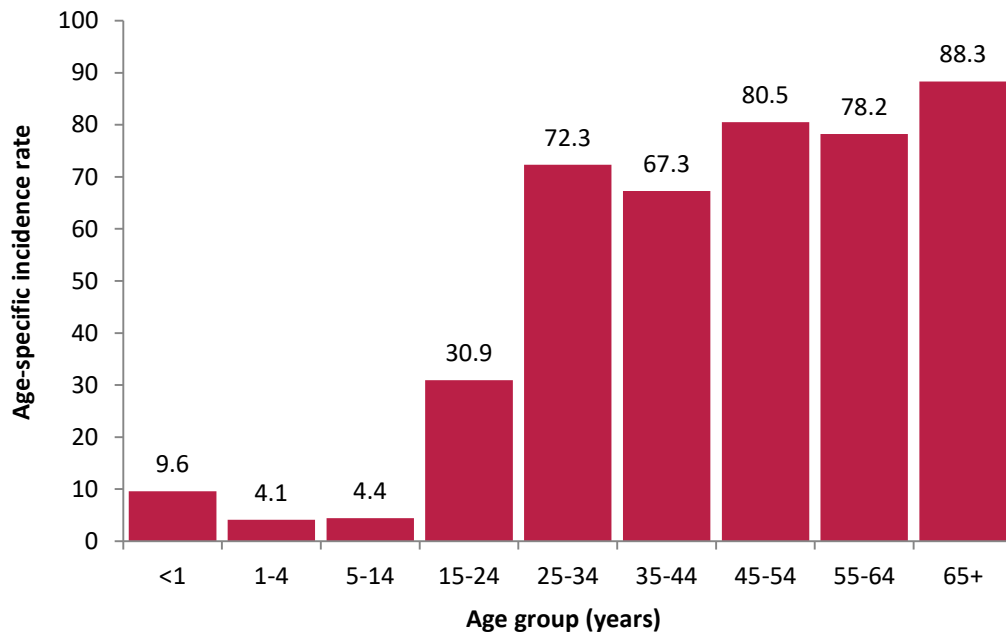| Country Name	Number of cases	%
Algeria	1	0.0
Andorra	4	0.1
Argentina	1	0.0
Austria	51	1.9
Brazil	1	0.0
Bulgaria	3	0.1
Czech Republic	1	0.0
Ecuador	1	0.0
Finland	1	0.0
France	23	0.9
Germany	2	0.1
Hungary	1	0.0
Indonesia	1	0.0
Ireland	1462	54.6
Italy	61	2.3
Netherlands	5	0.2
Philippines	2	0.1
Poland	1	0.0
Portugal	2	0.1
Singapore	2	0.1
Spain	30	1.1
Sri Lanka	1	0.0
Sweden	1	0.0
Switzerland	7	0.3
Thailand	1	0.0
United kingdom	78	2.9
United states	12	0.4
Unknown	921	34.4
Total	**2677**	**100.0**

Data source: CIDR as of 31/03/2020 12:00

Figure 2: Age-specific incidence rates of confirmed cases of COVID-19 notified to midnight March 29th 2020, Ireland

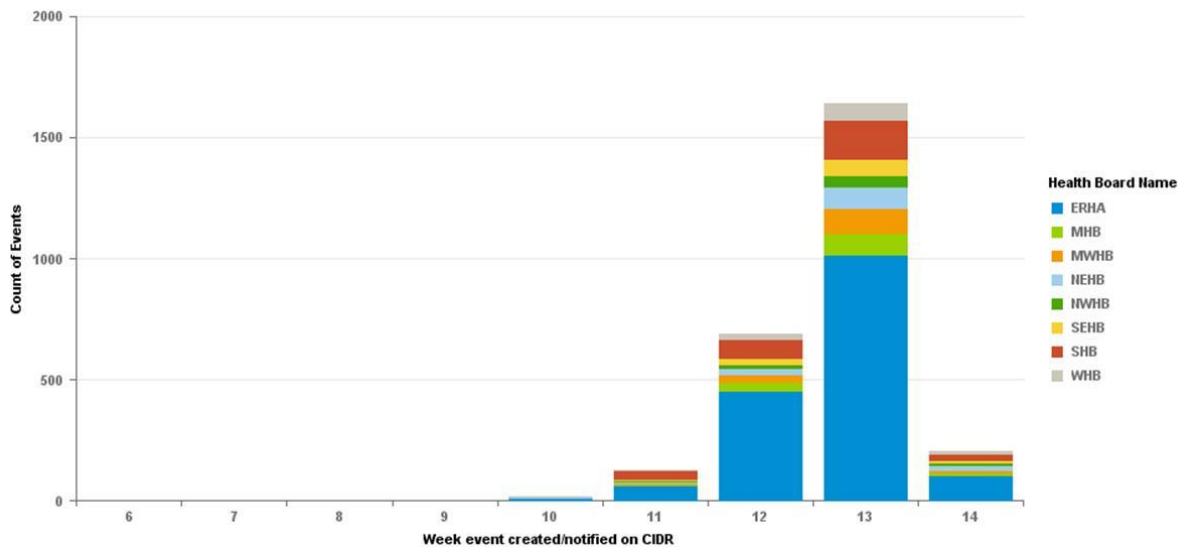Data source: CIDR as of 31/03/2020 12:00, rates are calculated using the 2016 census (www.cso.ie)

Figure 3: Confirmed cases of COVID-19 notified to midnight March 29th 2020, by HSE Area and week of notification

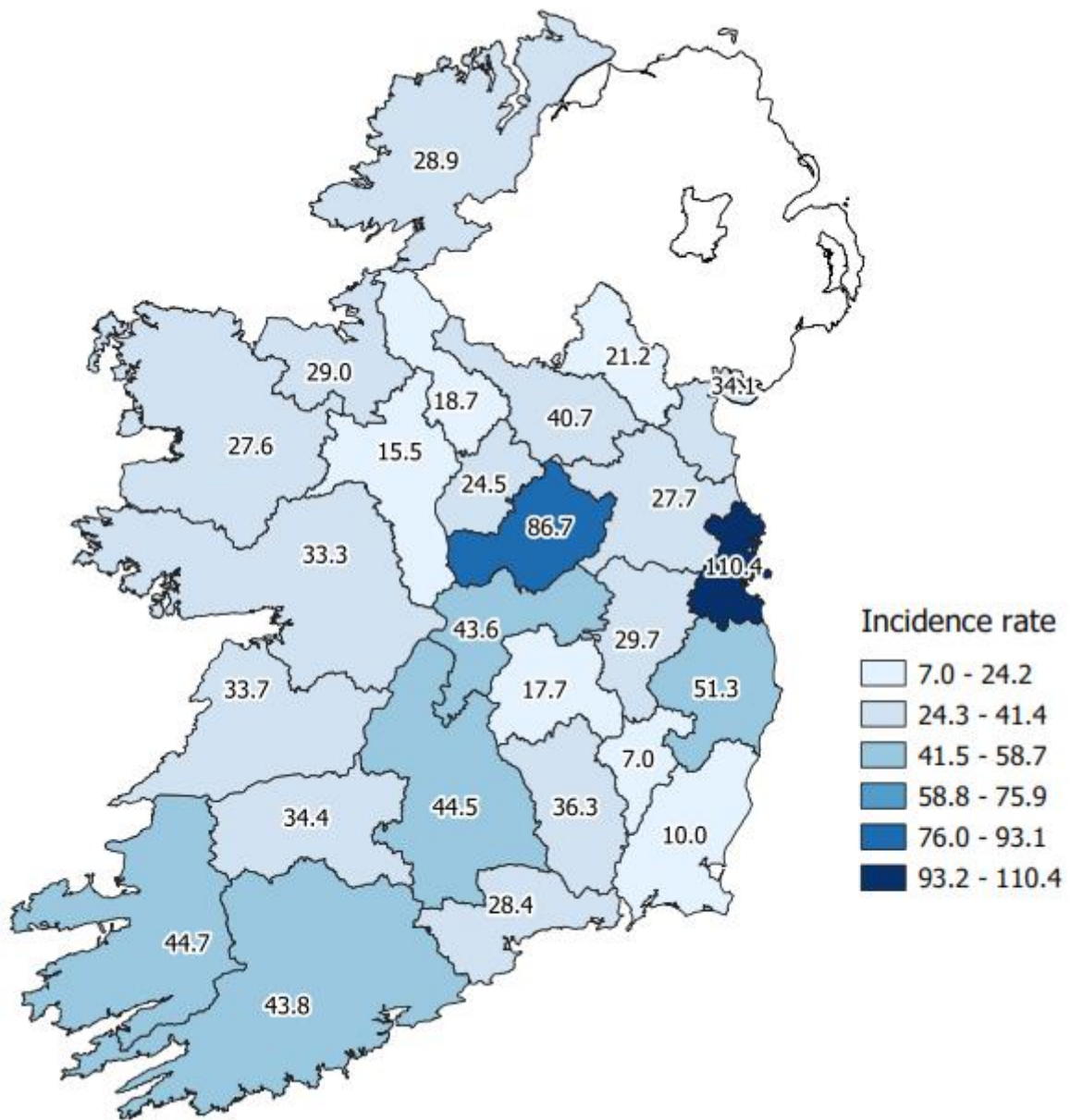Data source: CIDR as of 31/03/2020 12:00

Figure 4: Cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 notified to midnight March 29th 2020 by county, Ireland

Data source: CIDR as of 31/03/2020 12:00, rates are calculated using the 2016 census (www.cso.ie)

Table 3: Number of confirmed cases of COVID-19 notified to midnight March 29th 2020 by County

County Name	Number of cases	%
Carlow	4	0.1
Cavan	31	1.2
Clare	40	1.5
Cork	238	8.9
Donegal	46	1.7
Dublin	1487	55.5
Galway	86	3.2
Kerry	66	2.5
Kildare	66	2.5
Kilkenny	36	1.3
Laois	15	0.6
Leitrim	6	0.2
Limerick	67	2.5
Longford	10	0.4
Louth	44	1.6
Mayo	36	1.3
Meath	54	2.0
Monaghan	13	0.5
Offaly	34	1.3
Roscommon	10	0.4
Sligo	19	0.7
Tipperary	71	2.7
Waterford	33	1.2
Westmeath	77	2.9
Wexford	15	0.6
Wicklow	73	2.7
Total	**2677**	**100**

Data source: CIDR as of 31/03/2020 12:00

Table 4: Number of confirmed COVID-19 cases notified to midnight March 29th 2020 by transmission classification, Ireland

Transmission classification*	Number of cases	%
Community transmission	598	22.3
Possible community transmission	55	2.1
Local transmission	331	12.4
Possible local transmission	3	0.1
Travel abroad	294	11.0
Unknown	1396	52.1
Total	**2677**	**100**

* Transmission classification is based on country of infection as well as 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 31/03/2020 12:00

Note: Data are provisional

Table 5: Number of confirmed cases of COVID-19 notified to midnight March 29th 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	17	4	0.6	0	0.0	0	0
5 - 14	30	3	0.4	1	0.9	0	0
15-24	178	22	3.1	0	0.0	0	0
25-34	477	61	8.7	6	5.3	1	1.6
35-44	503	66	9.4	8	7.1	1	1.6
45-54	504	116	16.5	25	22.1	1	1.6
55-64	398	108	15.4	30	26.5	4	6.3
65+	563	321	45.7	43	38.1	57	89.1
Unknown	7	2	0.3	0	0	0	0
Total	**2677**	**703**	**100.0**	**113**	**100**	**64**	**100**

Data source: CIDR as of 31/03/2020 12:00

Of the 2,677 laboratory confirmed cases of COVID-19, 64 had died, giving a case fatality rate of 2.4%.

Table 6: Number of confirmed cases of COVID-19 notified to midnight March 29th 2020 in healthcare workers by HSE-area and travel status

HSE area	Foreign travel	No foreign travel	Not specified	Total
HSE East	45	308	9	362
HSE Midlands	3	19	6	28
HSE Mid-West	6	31	1	38
HSE North-East	2	13	4	19
HSE North-West	6	10	0	16
HSE South-East	5	1	31	37
HSE South	17	58	19	94
HSE West	7	45	1	53
Total	**91**	**485**	**71**	**647**

Data source: CIDR as of 31/03/2020 12:00

Of the 647 cases who were healthcare workers, 75% 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 March 29th 2020 by location and HSE-area

Outbreak Location	E	M	MW	NE	NW	SE	S	W	Total	%
Private house	2	1		3	1	6	2	11	26	22.0
Nursing home	21		1	1				1	24	20.3
Hospital	12	2		2			3	2	21	17.8
Travel related		1	4	4	2	1	5	2	19	16.1
Extended family	2		1		2	3	1		9	7.6
Residential institution	4							1	5	4.2
Workplace	1					1	2	1	5	4.2
Community outbreak		2							2	1.7
Public house		1					1		2	1.7
Comm. Hosp/Long-stay unit	1								1	0.8
Hotel							1		1	0.8
Other	1		1	1					3	2.5
Total	**44**	**7**	**7**	**11**	**5**	**11**	**15**	**18**	**118**	**100**

Data source: CIDR as of 31/03/2020 12:00

Acknowledgements

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.