Epidemiology of COVID-19 in Ireland

Report prepared by HPSC on 02/04/2020 for NPHET

Note: Data are provisional

Summary

This report includes data as of 2nd April 2020 11:10 for events created on CIDR up to midnight Tuesday 31st March 2020

Characteristic	Number	%
Total number of confirmed cases	3282	
Number of new cases 31th March	292	8.9
Total number hospitalised	932	28.4
Total number admitted to ICU	134	4.1
Total number of deaths	91	2.8
Total number of outbreaks/clusters	160	-
Total number cases associated with clusters	659	20.1
Total number of imported cases	307	9.5
Number of cases in Healthcare workers	841	25.6
Median age (years)	48	-
Age range (years)	0 - 99	-

Confirmed cases

In total, 3,282 confirmed cases of COVID-19 were notified in Ireland **before midnight March 31st 2020**, with the first cases reported in Week 10 2020, week ending 07/03/2020 (Figure 1).

Outbreaks/Clusters

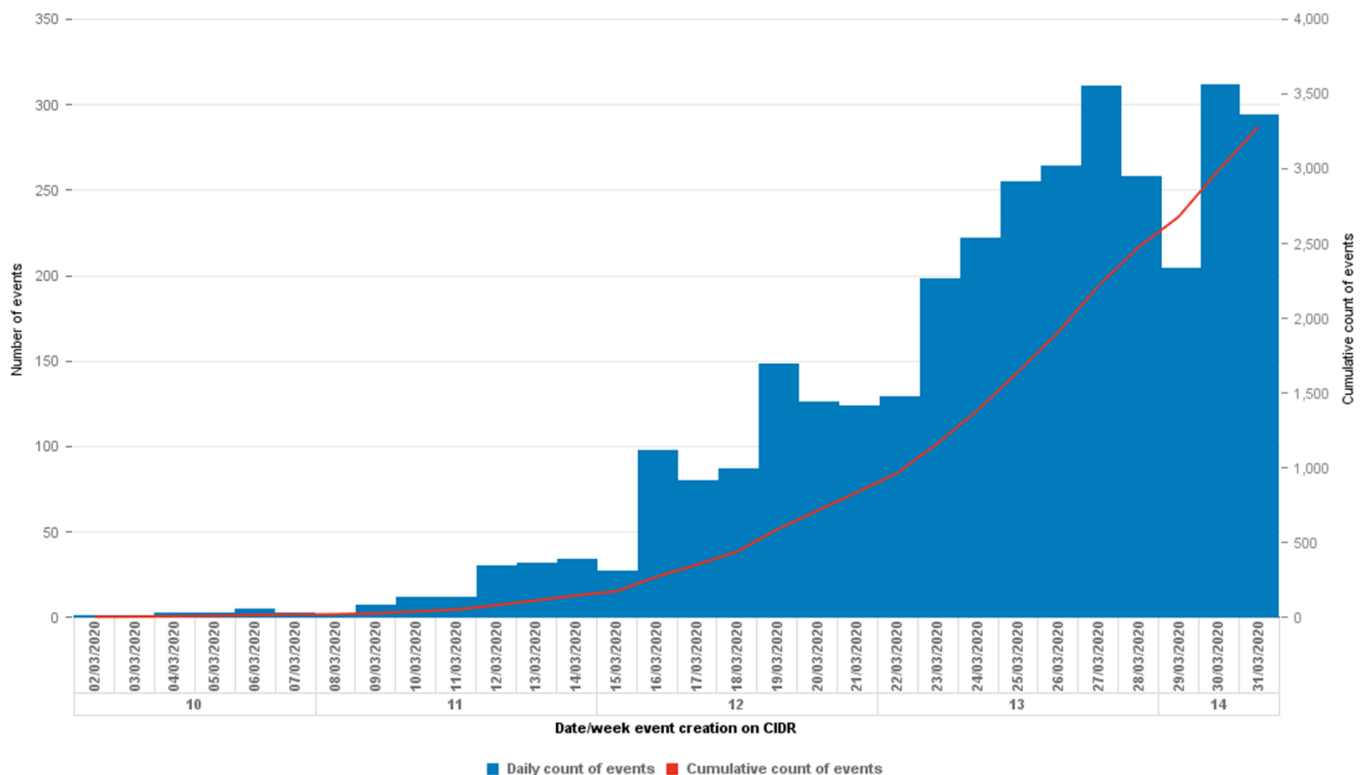One hundred and sixty outbreaks/clusters of COVID-19 were notified on CIDR **before midnight March 31th 2020.**

Figure 1: **Number and cumulative number of confirmed COVID-19 cases notified in Ireland to midnight March 31st 2020**

Data source: CIDR as of 02/04/2020 11:10

Table 1: Characteristics of confirmed COVID-19 cases notified as of midnight March 31st 2020, Ireland

Characteristic	Number of cases	%
Total	3282	100
Sex		
Female	1661	50.6
Male	1572	47.9
Unknown	49	1.5
Age group (years		
<1	8	0.2
1-4	11	0.3
5-14	30	0.9
15-24	216	6.6
25-34	564	17.2
35-44	617	18.8
45-54	608	18.5
55-64	480	14.6
65+	739	22.5
Unknown	9	0.3
HSE area		
HSE East	2012	60.3
HSE Midlands	157	4.9
HSE Mid-West	211	6.5
HSE North-East	182	5.6
HSE North-West	105	3.2
HSE South-East	118	3.9
HSE South	344	10.8
HSE West	153	4.9

Data source: CIDR as of 02/04/2020 11:10

Table 2: Country of Infection of confirmed COVID-19 cases notified as of midnight March 31st 2020, Ireland

Country of infection	Number of cases	%
Algeria	1	0
Andorra	4	0.1
Argentina	1	0
Austria	52	1.6
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	1843	56.1
Italy	60	1.9
Netherlands	5	0.2
Philippines	3	0.1
Poland	1	0
Portugal	2	0.1
Singapore	2	0.1
Spain	33	1
Sri Lanka	1	0
Sweden	1	0
Switzerland	7	0.2
Thailand	1	0
United kingdom	85	2.7
United states	14	0.4
Unknown	1131	34.4
Total	**3282**	**100**

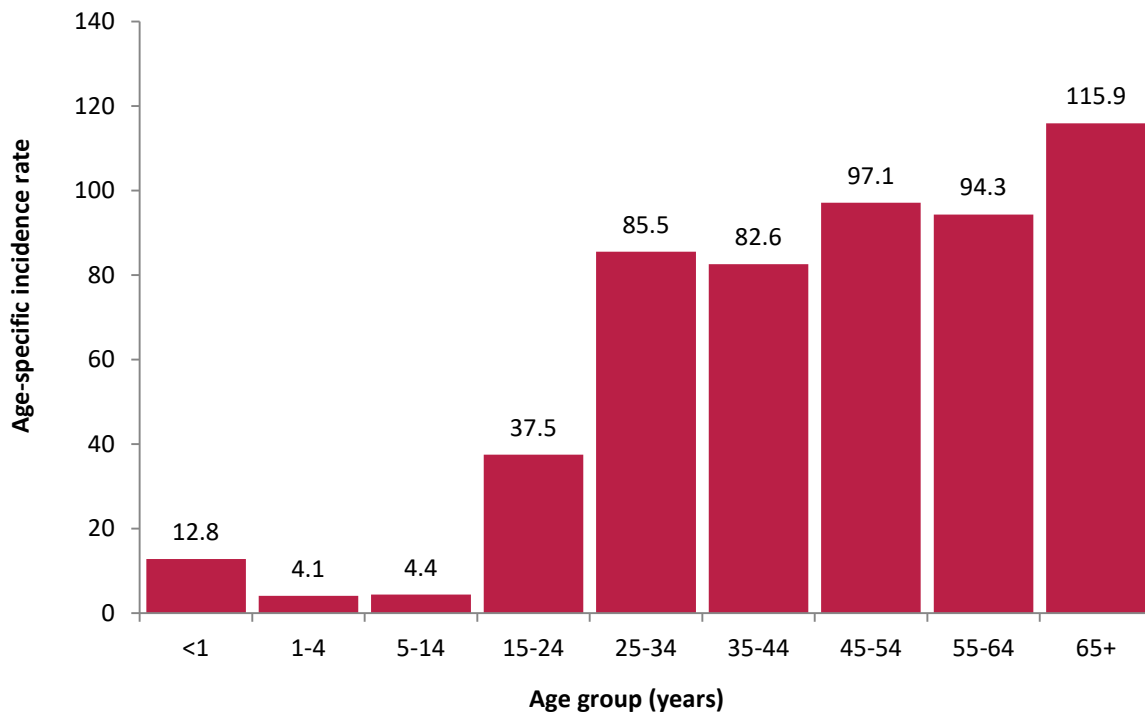Data source: CIDR as of 02/04/2020 11:10

Figure 2: Age-specific incidence rates of confirmed cases of COVID-19 notified to midnight March 31st 2020, Ireland

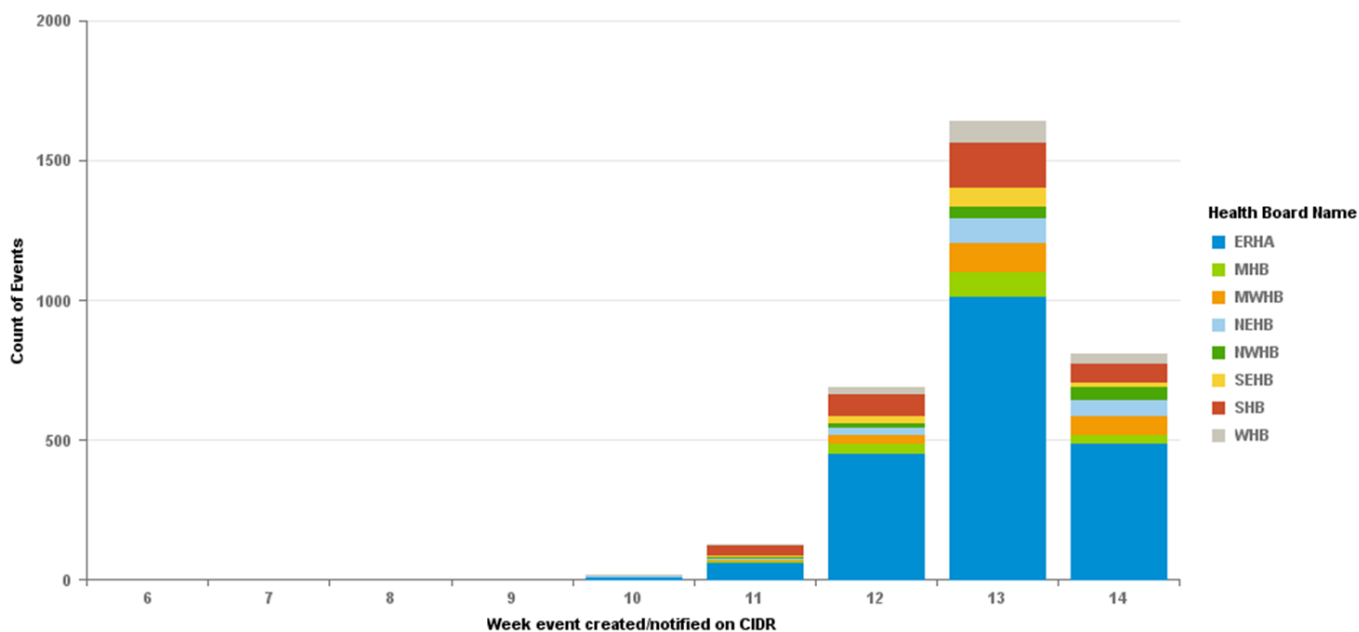Data source: CIDR as of 02/04/2020 11:10, rates are calculated using the 2016 census (www.cso.ie)

Figure 3: Confirmed cases of COVID-19 notified to midnight March 31st 2020, by HSE Area and week of notification

Data source: CIDR as of 02/04/2020 11:10
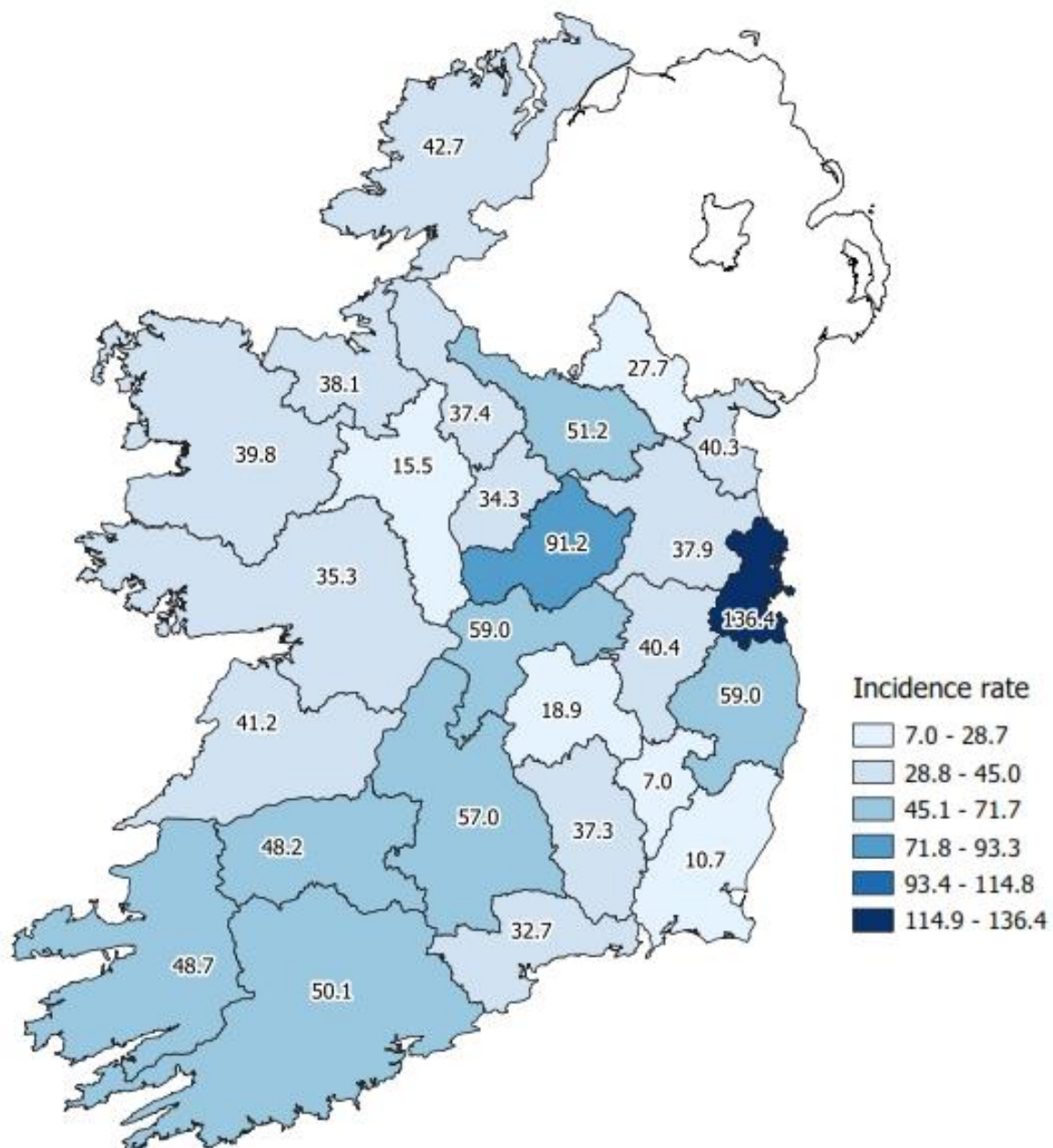
Note: Data are provisional

Figure 4: Cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 notified to midnight March 31st 2020 by county, Ireland

Data source: CIDR as of 02/04/2020 11:10, rates are calculated using the 2016 census (www.cso.ie)

Table 3: Number of confirmed cases of COVID-19 notified to midnight March 31st 2020 by County

County Name	Number of cases	%
Carlow	4	0.1
Cavan	39	1.2
Clare	49	1.5
Cork	272	8.3
Donegal	68	2.1
Dublin	1838	56.0
Galway	91	2.8
Kerry	72	2.2
Kildare	90	2.7
Kilkenny	37	1.1
Laois	16	0.5
Leitrim	12	0.4
Limerick	94	2.9
Longford	14	0.4
Louth	52	1.6
Mayo	52	1.6
Meath	74	2.3
Monaghan	17	0.5
Offaly	46	1.4
Roscommon	10	0.3
Sligo	25	0.8
Tipperary	91	2.8
Waterford	38	1.2
Westmeath	81	2.5
Wexford	16	0.5
Wicklow	84	2.6
Total	**3282**	**100**

Data source: CIDR as of 02/04/2020 11:10

Table 4: Number of confirmed COVID-19 cases notified to midnight March 31st 2020 by transmission classification, Ireland

Transmission classification*	Number of cases	%
Community transmission	791	24.1
Possible community transmission	516	15.7
Local transmission	497	15.1
Possible local transmission	17	0.5
Travel abroad	307	9.4
Possible travel abroad	77	2.3
Unknown	1077	32.8
Total	**3282**	**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 02/04/2020 11:10

Note: Data are provisional

Table 5: Number of confirmed cases of COVID-19 notified to midnight March 31st 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	19	6	0.6	0	0.0	0	0
5 - 14	30	4	0.4	1	0.7	0	0
15-24	216	29	3.1		0.0	0	0
25-34	564	77	8.3	7	5.2	2	2.2
35-44	617	85	9.1	9	6.7	1	1.1
45-54	608	152	16.3	34	25.4	1	1.1
55-64	480	145	15.6	34	25.4	6	6.6
65+	739	432	46.4	49	36.6	81	89.0
Unknown	9	2	0.2	0	0	0	0
Total	3282	932	100.0	134	100	91	100

Data source: CIDR as of 02/04/2020 11:10

Of the 3,282 laboratory confirmed cases of COVID-19, 91 had died, giving a case fatality rate of 2.77

Table 6: Number of confirmed cases of COVID-19 notified to midnight March 31st 2020 in healthcare workers by HSE-area and travel status

HSE area	Foreign travel	No foreign travel	Not specified	Total
HSE East	41	414	22	477
HSE Midlands	3	22	12	37
HSE Mid-West	10	39	10	59
HSE North-East	2	15	14	31
HSE North-West	6	12	1	19
HSE South-East	5	2	33	40
HSE South	18	70	29	117
HSE West	7	53	1	61
Total	92	627	122	841

Data source: CIDR as of 02/04/2020 11:10

Of the 841 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 31st 2020 by location and HSE-area

Outbreak Location	E	M	MW	NE	NW	SE	S	W	Total	%
Nursing home	29	1	3	3				2	38	23.8
Private house	2	1		3	3	7	3	12	31	19.4
Hospital	17	2		2	1		5	2	29	18.1
Travel related		3	4	4	2	1	5	2	21	13.1
Residential institution	6			1			1	3	11	6.9
Extended family	2		1		2	3	1		9	5.6
Comm. Hosp/Long-stay unit	3	1					1	1	6	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	1			1		5	3.1
Total	61	11	11	13	8	12	19	23	160	100

Data source: CIDR as of 02/04/2020 11:10

Acknowledgements

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.