Epidemiology of COVID-19 in Ireland

Report prepared by HPSC on 22/03/2020 for NPHET

Summary

This report includes data as of 22nd March 2020 13:05 for events created on CIDR up to midnight Friday, 20th March, 2020

Note: Data are provisional

Total number of confirmed cases	712	
Number of new cases 20th March	127	
Total number hospitalised	211	29.6%
Total number of deaths	4	
Case Fatality Ratio (CFR %)	0.6	
Total number of outbreaks/clusters	35	
Total number cases associated with clusters	190	26.7%
Total number of imported cases	167	23.5%
Number of cases in HCW	159	22.3%
Age range (years)	0-95	
Median age (years)	44	

Confirmed cases

In total, 712 confirmed cases of COVID-19 were notified in Ireland **before midnight March 20th 2020**, with the first cases reported in Week 10 2020, week ending 07/03/2020 (Figure 1).

Outbreaks/Clusters

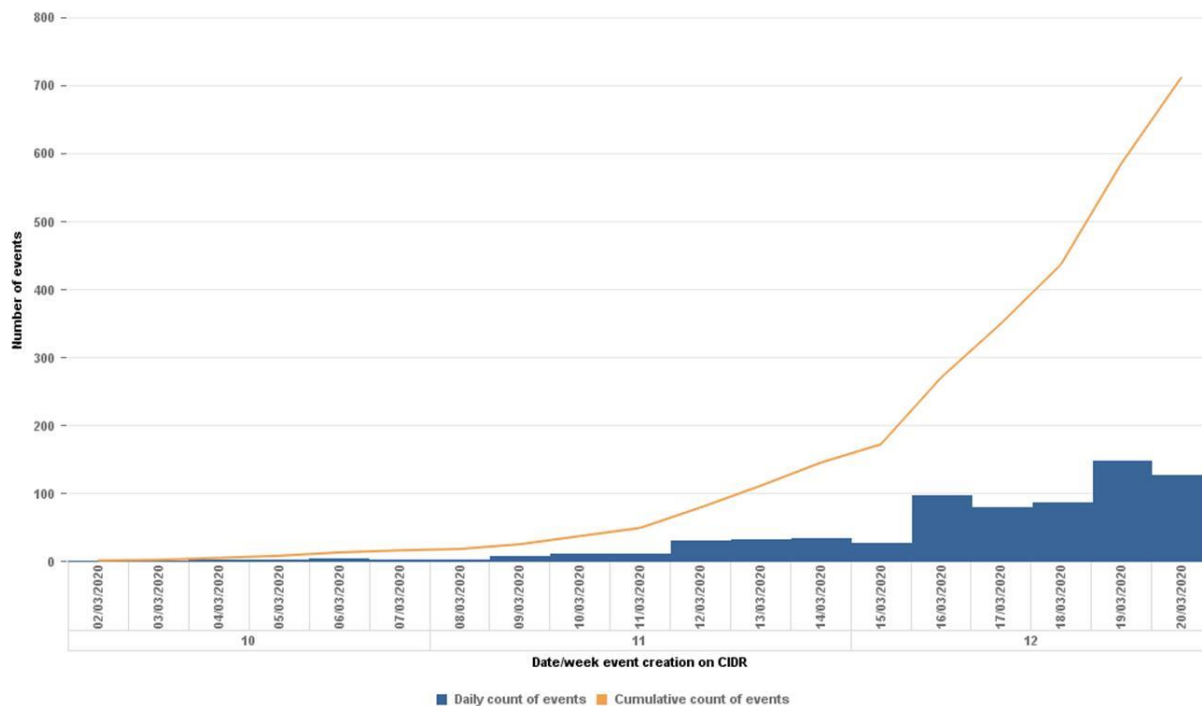Thirty five outbreaks/clusters of COVID-19 were notified on CIDR **before midnight March 20th 2020.**

Figure 1: **Number and cumulative number of confirmed COVID-19 cases notified in Ireland to midnight March 20th 2020**
Data source: CIDR as of 22/03/2020 13:05

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

	Number	Percent
Total	712	100
Sex		
Female	311	43.7
Male	393	55.2
Unknown	8	1.1
Age group (years		
<1	3	0.4
1-4	2	0.3
5-14	12	1.7
15-24	63	8.8
25-34	127	17.8
35-44	149	20.9
45-54	132	18.5
55-64	101	14.2
65+	122	17.1
Unknown	1	0.1
HSE area		
HSE E	446	62.6
HSE M	33	4.6
HSE MW	27	3.8
HSE NE	28	3.9
HSE NW	11	1.5
HSE SE	28	3.9
HSE S	110	15.5
HSE W	29	4.1
Country of Infection		
Andorra	2	0.3
Austria	31	4.4
Bulgaria	1	0.1
Czech Republic	1	0.1
France	10	1.4
Ireland	465	65.3
Italy	59	8.3
Netherlands	1	0.1
Philippines	1	0.1
Portugal	2	0.3
Singapore	2	0.3
Spain	14	2.0
Sri Lanka	1	0.1
Sweden	1	0.1
Switzerland	7	1.0
United kingdom	33	4.6
United States	1	0.1
Unknown	5	0.7
Not specified	75	10.5

Data source: CIDR as of 22/03/2020 13:05
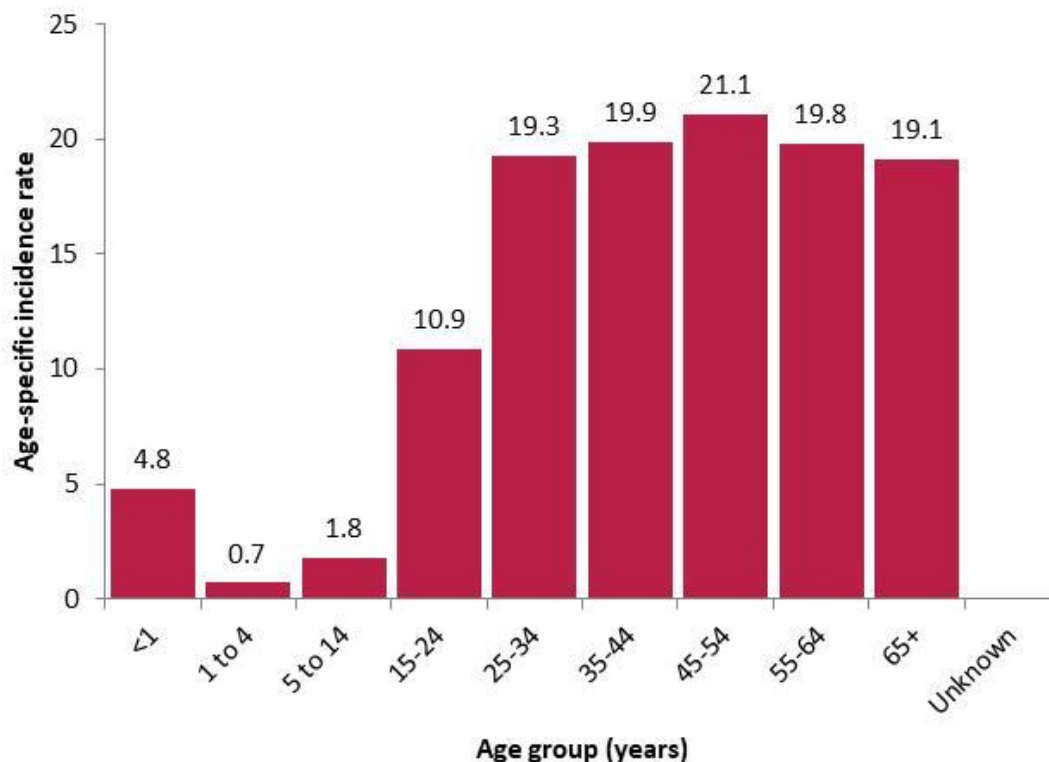
Note: Data are provisional

Figure 2: Age-specific incidence rates of confirmed cases of COVID-19 notified to midnight March 20th 2020, Ireland
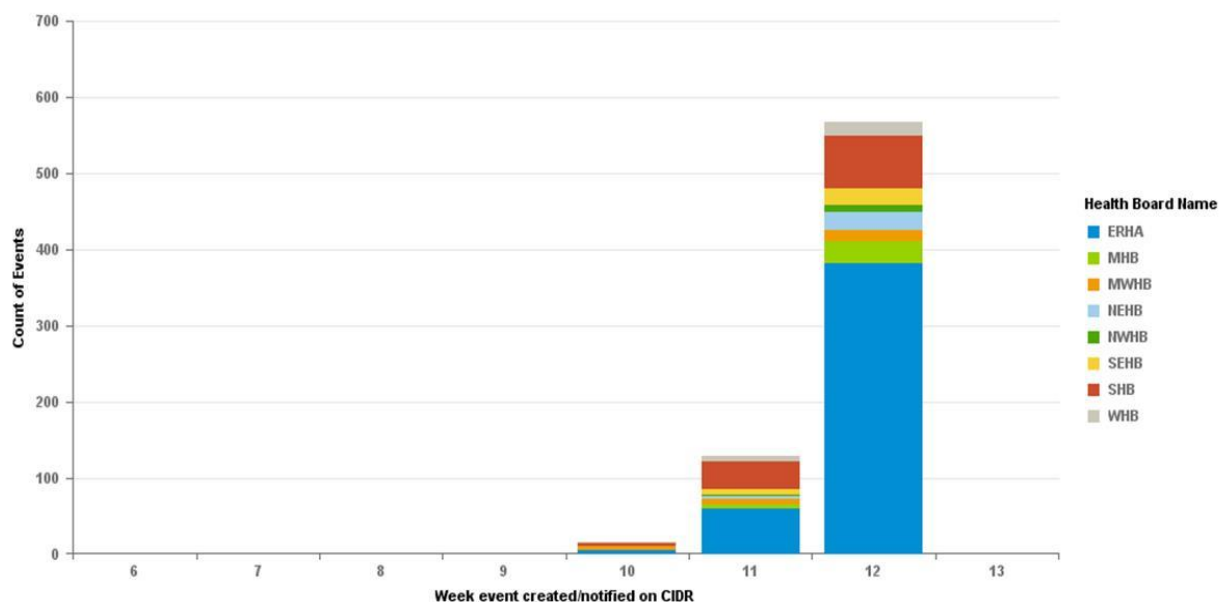
Data source: CIDR as of 22/03/2020 13:05

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

Data source: CIDR as of 22/03/2020 13:05

Note: Data are provisional

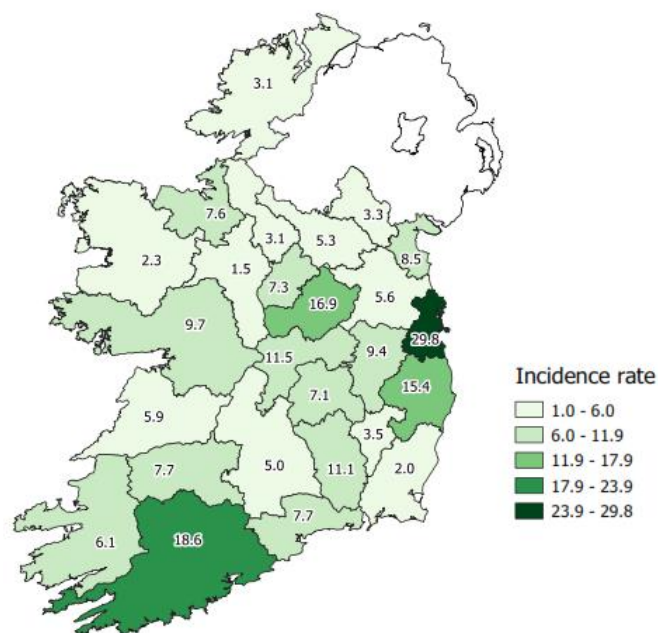Cumulative incidence rates of confirmed cases of COVID-19 by county, Ireland

Figure 4: **Cumulative incidence rates of confirmed cases of COVID-19 notified to midnight March 20th 2020 by county, Ireland**

Data source: CIDR as of 22/03/2020 13:05

Table 2: **Number of confirmed cases of COVID-19 notified to midnight March 20th 2020 by County**

County Name	Count of Events	%
Carlow	3	0.4
Cavan	4	0.6
Clare	7	1.0
Cork	101	14.2
Donegal	5	0.7
Dublin	402	56.5
Galway	25	3.5
Kerry	9	1.3
Kildare	20	2.8
Kilkenny	11	1.5
Laois	6	0.8
Leitrim	1	0.1
Limerick	15	2.1
Longford	3	0.4
Louth	11	1.5
Mayo	3	0.4
Meath	11	1.5
Monaghan	2	0.3
Offaly	9	1.3
Roscommon	1	0.1
Sligo	5	0.7
Tipperary	8	1.1
Waterford	9	1.3
Westmeath	16	2.2
Wexford	3	0.4
Wicklow	22	3.1

Data source: CIDR as of 22/03/2020 13:05

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Table 3: Number of confirmed COVID-19 cases notified to midnight March 20th 2020 by transmission classification, Ireland

Transmission classification*	Number of events
Community transmission	182
Possible community transmission	36
Local transmission	106
Possible local transmission	6
Travel abroad	166
Unknown	216

* 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 22/03/2020 13:05

Table 4: Number of confirmed cases of COVID-19 notified to midnight March 20th 2020 by age group and hospital, ICU and vital status, Ireland

Age group (years)	Number hospitalised	% hospitalised	Number in ICU	% of hospitalised in ICU	Number died	Case fatality ratio (%)
<5	2	40.0	0	0	.	.
5-14	2	16.7	1	50.0	.	.
15-24	13	20.6	0	0	.	.
25-34	27	21.3	0	0	.	.
35-44	22	14.8	2	9.1	.	.
45-54	40	30.3	4	10.0	.	.
55-64	34	33.7	3	8.8	.	.
65+	71	58.2	7	9.9	.	.
Total	211	29.6	17	8.1	4	0.6

Data source: CIDR as of 22/03/2020 13:05

Table 5: Number of confirmed cases of COVID-19 notified to midnight March 20th 2020 in healthcare workers by HSE-area and travel status

HSE-area	Foreign travel	No foreign travel	Not specified	Total
E	21	67	5	93
M	2	10	1	13
MW	1	2	0	3
NE	2	1	0	3
NW	1	0	1	2
SE	1	0	1	2
S	11	16	2	29
W	3	10	1	14
Total	42	106	11	159

Data source: CIDR as of 22/03/2020 13:05

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Table 6: Number of clusters/outbreaks COVID-19 notified to midnight March 20th 2020 by location and HSE-area

Location	E	M	MW	NE	SE	S	W	Total
Travel related			2	4	1	2	2	**11**
Hospital	2	1		1		1	1	**6**
Extended family	1				3	1		**5**
Private house	1	1		1		1	1	**5**
Nursing home	4							**4**
Workplace	1			1	1			**3**
Not Specified						1		**1**
Total	**9**	**2**	**2**	**7**	**5**	**6**	**4**	**35**

Data source: CIDR as of 22/03/2020 13:05

Acknowledgements

Sincere thanks is 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.