Epidemiology of COVID-19 in Ireland

Report prepared by HPSC on 09/04/2020 for NPHET

Note: Data are provisional

Summary

This report includes data as of 9th April 2020 11:25 for events created on CIDR up to midnight Tuesday 7th April 2020.

Characteristic	Number	%
Total number of confirmed cases	6,444	
Number of new cases April 7th	460	7.1
Total number hospitalised	1521	23.6
Total number admitted to ICU*	230	3.6
Total number of deaths	257	4.0
Total number of outbreaks/clusters	317	-
Total number cases associated with clusters	1391	21.6
Total number of imported cases	334	5.2
Number of cases in Healthcare workers	1765	27.4
Median age (years)	48	-
Age range (years)	0 - 99	-

*Total COVID-19 admissions to ICU **before midnight April 7th 2020**

Confirmed cases

In total, 6,444 confirmed cases of COVID-19 were notified in Ireland **before midnight April 7th 2020**, with the first cases reported in Week 10 2020, week ending 07/03/2020 (Figure 1).

Outbreaks/Clusters

There were 317 outbreaks/clusters of COVID-19 notified on CIDR **before midnight April 7th 2020.**
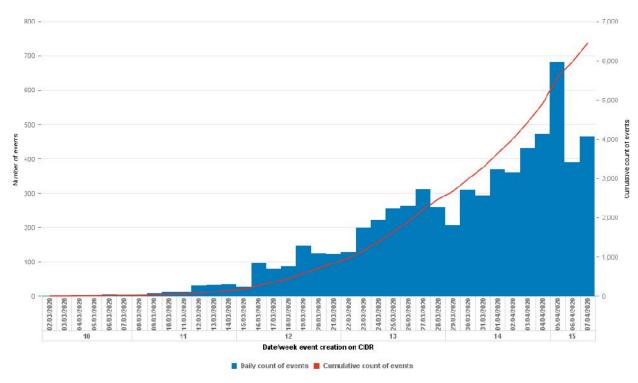

Figure 1: Number and cumulative number of confirmed COVID-19 cases notified in Ireland to midnight April 7th 2020

Data source: CIDR as of 09/04/2020 11:25

Table 1: Characteristics of confirmed COVID-19 cases notified as of midnight April 7th 2020, Ireland

Characteristic	Number of cases	%
Total	6,444	100
Sex		
Female	3425	53.2
Male	2923	45.4
Unknown	96	1.5
Age group (years		
<1	14	0.2
1-4	19	0.3
5-14	43	0.7
15-24	384	6.0
25-34	1103	17.1
35-44	1176	18.2
45-54	1219	18.9
55-64	922	14.3
65+	1544	24.0
Unknown	20	0.3
HSE area		
HSE East	4017	62.3
HSE Midlands	296	4.6
HSE Mid-West	342	5.3
HSE North-East	499	7.7
HSE North-West	176	2.7
HSE South-East	227	3.5
HSE South	597	9.3
HSE West	290	4.5

Data source: CIDR as of 09/04/2020 11:25

Table 2: Country of Infection of confirmed COVID-19 cases notified as of midnight April 7th 2020, Ireland

Country of infection	Number of cases	% of cases
Ireland	4333	67.2
Other than Ireland	334	5.2
Unknown	1777	27.6
Total	**6444**	**100**

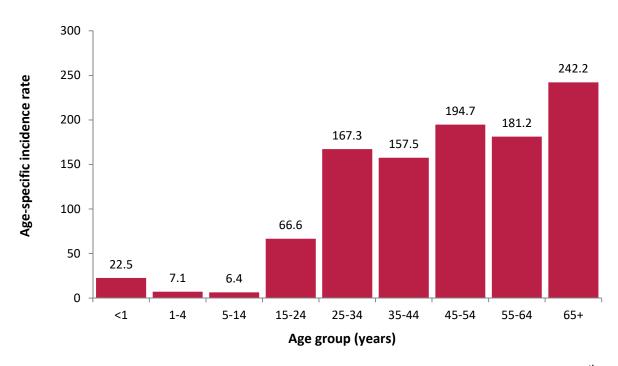Data source: CIDR as of 09/04/2020 11:25

Figure 2: Age-specific incidence rates of confirmed cases of COVID-19 notified to midnight April 7th 2020, Ireland

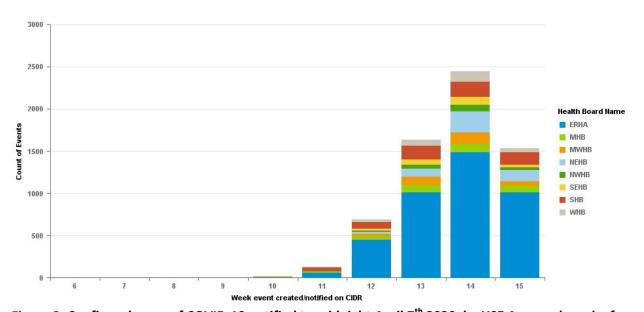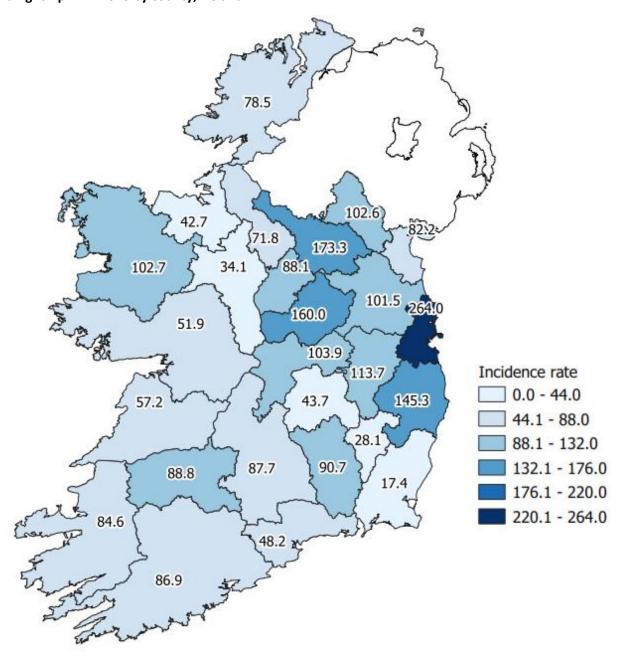Data source: CIDR as of 09/04/2020 11:25, rates are calculated using the 2016 census (www.cso.ie)

Figure 3: Confirmed cases of COVID-19 notified to midnight April 7th 2020, by HSE Area and week of notification

Data source: CIDR as of 09/04/2020 11:25

Note: Data are provisional

Figure 4: Cumulative incidence rates per 100,000 population of confirmed cases of COVID-19 notified to midnight April 7th 2020 by county, Ireland

Data source: CIDR as of 09/04/2020 11:25, rates are calculated using the 2016 census (www.cso.ie)

Table 3: Number of confirmed cases of COVID-19 notified to midnight April 7th 2020 by county

County Name	Number of cases	%
Carlow	16	0.2
Cavan	132	2.0
Clare	68	1.1
Cork	472	7.3
Donegal	125	1.9
Dublin	3557	55.2
Galway	134	2.1
Kerry	125	1.9
Kildare	253	3.9
Kilkenny	90	1.4
Laois	37	0.6
Leitrim	23	0.4
Limerick	173	2.7
Longford	36	0.6
Louth	106	1.6
Mayo	134	2.1
Meath	198	3.1
Monaghan	63	1.0
Offaly	81	1.3
Roscommon	22	0.3
Sligo	28	0.4
Tipperary	140	2.2
Waterford	56	0.9
Westmeath	142	2.2
Wexford	26	0.4
Wicklow	207	3.2
Total	**6444**	**100**

Data source: CIDR as of 09/04/2020 11:25

Table 4: Number of confirmed COVID-19 cases notified to midnight April 7th 2020 by transmission classification, Ireland

Transmission classification*	Number of cases	%
Community transmission	1381	21.4
Possible community transmission	1759	27.3
Local transmission	1113	17.3
Possible local transmission	37	0.6
Travel abroad	324	5.0
Possible travel abroad	110	1.7
Unknown	1720	26.7
Total	**6444**	**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 09/04/2020 11:25

Table 5: Number of confirmed cases of COVID-19 notified to midnight April 7th 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	33	9	0.6	0	0.0	0	0
5 - 14	43	4	0.3	1	0.4	0	0
15-24	384	37	2.4	2	0.9	0	0
25-34	1103	103	6.8	9	3.9	2	0.8
35-44	1176	130	8.5	12	5.2	4	1.6
45-54	1219	231	15.2	56	24.3	8	3.1
55-64	922	237	15.6	65	28.3	12	4.7
65+	1544	768	50.5	85	37.0	231	89.9
Unknown	20	2	0.1	0	0	0	0
Total	**6444**	**1521**	**100**	**230**	**100**	**257**	**100**

Data source: CIDR as of 09/04/2020 11:25

Of the 6,444 laboratory confirmed cases of COVID-19, 257 had died, giving a case fatality rate of 4.0. Of the patients who were hospitalised 15% were admitted to ICU.

Table 6: Number of confirmed cases of COVID-19 notified to midnight April 7th 2020 in healthcare workers by HSE-area and travel status

HSE area	Foreign travel	No foreign travel	Not specified	Total
HSE East	59	932	60	1051
HSE Midlands	4	49	40	93
HSE Mid-West	11	49	27	87
HSE North-East	2	15	103	120
HSE North-West	7	23	16	46
HSE South-East	5	3	69	77
HSE South	21	95	60	176
HSE West	7	71	37	115
Total	**116**	**1237**	**412**	**1765**

Data source: CIDR as of 09/04/2020 11:25

Of the 1,765 cases who were healthcare workers, 70% 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 7th 2020 by location and HSE-area

Outbreak Location	E	M	MW	NE	NW	SE	S	W	Total	%
Nursing home	54	5	4	22	3	1	3	17	109	34.4
Hospital	30	2		7	1	2	6	3	51	16.1
Private house	2	3		4	5	7	7	16	44	13.9
Residential institution	22	4	1	2	1		5	3	38	12.0
Comm. Hosp/Long-stay unit	4	7			2	1	5	3	22	6.9
Travel related		3	4	4	2	1	5	2	21	6.6
Extended family	2		1		2	3	2		10	3.2
Workplace	1					2	5	1	9	2.8
Community outbreak		1	1	1					3	0.9
Public house		2					1		3	0.9
Hotel							1		1	0.3
Other			2	1			1	1	5	1.6
Not Specified	1								1	0.3
Total	**116**	**27**	**13**	**41**	**16**	**17**	**41**	**46**	**317**	**100**

Data source: CIDR as of 09/04/2020 11:25

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.