



# Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 01/11/2020

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 18/10/2020 up to midnight 31/10/2020

	Number	Percent
Total number of confirmed cases	12,069	
National incidence of confirmed cases per 100,000 population	253.45	
Number of cases hospitalised*	366	3.03
Number of cases admitted to ICU*	22	0.18
Number of deaths among confirmed cases	17	0.14
Case fatality ratio (CFR, %)	0.14	
National incidence of confirmed deaths per 100,000 population	0.36	
Number of cases** associated with clusters	2,096	17.37
Number of imported cases	10	0.08
Number of cases in healthcare workers	431	3.57
Males	5,886	48.77
Females	6,173	51.15
M:F ratio	0.95	
Median age (years)	33	
Mean age (years)	36	
Age range (years)	0 - 103	

\* The number of cases hospitalised and admitted to ICU relate only to events notified in the last 14 days and do not include cases notified prior to this and admitted to hospital or ICU in the last 14 days

\*\*Cases may be associated with outbreaks notified outside the timeframe of this report  
18/10/2020 - 31/10/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 13:49 on 01/11/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.

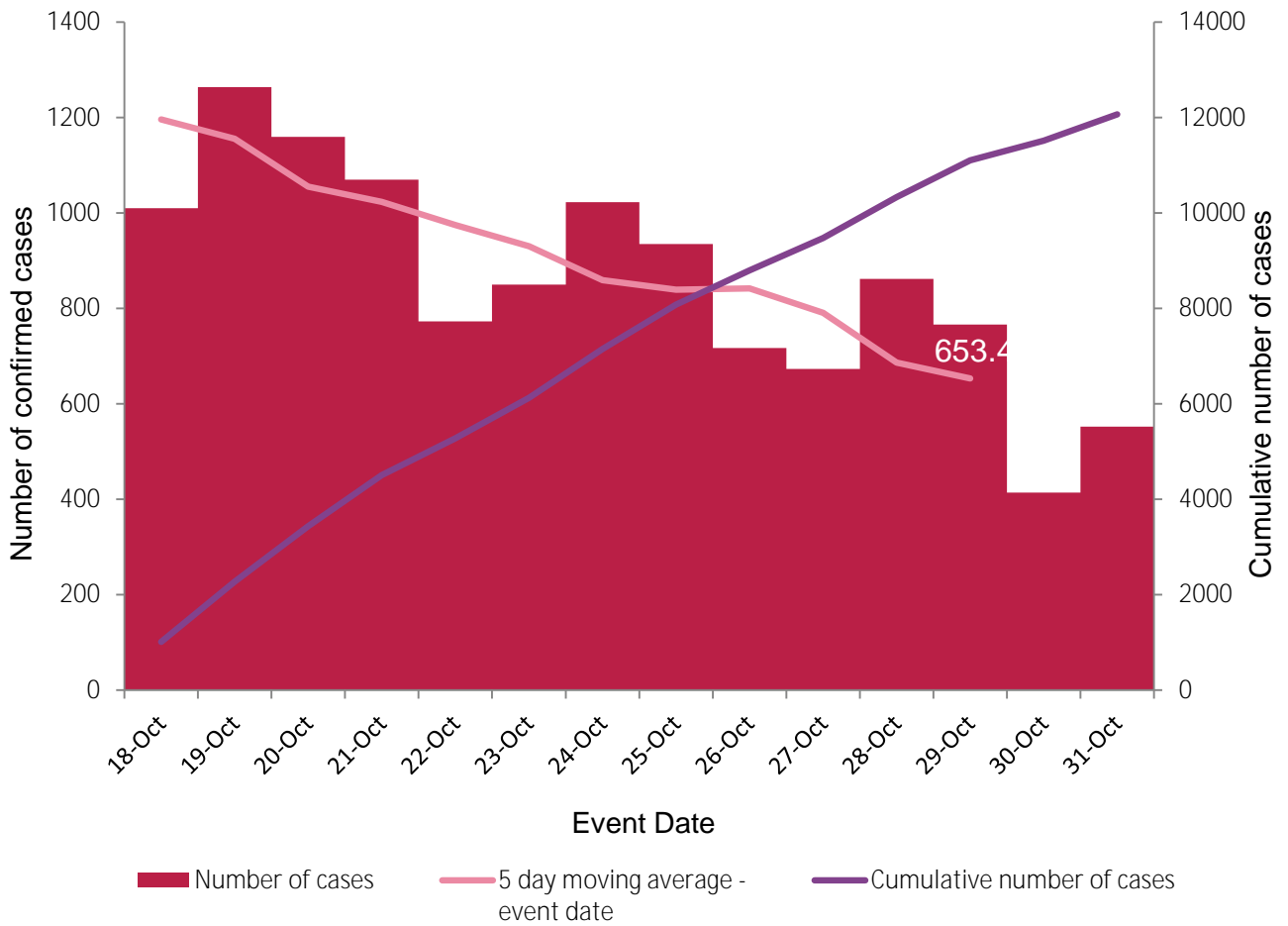


Figure 1 Daily number and cumulative number of confirmed cases of COVID-19, and 5day moving average, by notification date (n=12,069)

**Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 18/10/2020 up to midnight on 31/10/202**

Characteristic		Number of cases	Percent
<b>Total number of confirmed cases</b>		<b>12,069</b>	<b>100</b>
<b>Sex</b>	Male:Female ratio	0.95	
	Male	5,886	48.77
	Female	6,173	51.15
	Unknown	10	0.08
<b>Age</b>	Median age (years)	33	
	Mean age (years)	36	
	Age range (years)	0 - 103	
	0-4 yrs	503	4.17
	5-14 yrs	1,285	10.65
	15-24 yrs	2,707	22.43
	25-34 yrs	1,754	14.53
	35-44 yrs	1,659	13.75
	45-54 yrs	1,661	13.76
	55-64 yrs	1,282	10.62
	65-74 yrs	645	5.34
	75-84 yrs	351	2.91
	85+ yrs	219	1.81
	Unknown	3	0.02
<b>Underlying clinical conditions</b>	Yes	390	3.23
	No	8,032	66.55
	Unknown	3,647	30.22
<b>Symptom status at time of test*</b>	Yes	5,676	47.03
	No	2,519	20.87
	Unknown	3,874	32.1

\*Symptom status is recorded at the time of test and is not updated, therefore a proportion of the asymptomatic cases may subsequently develop symptoms however this will not be captured in the data.

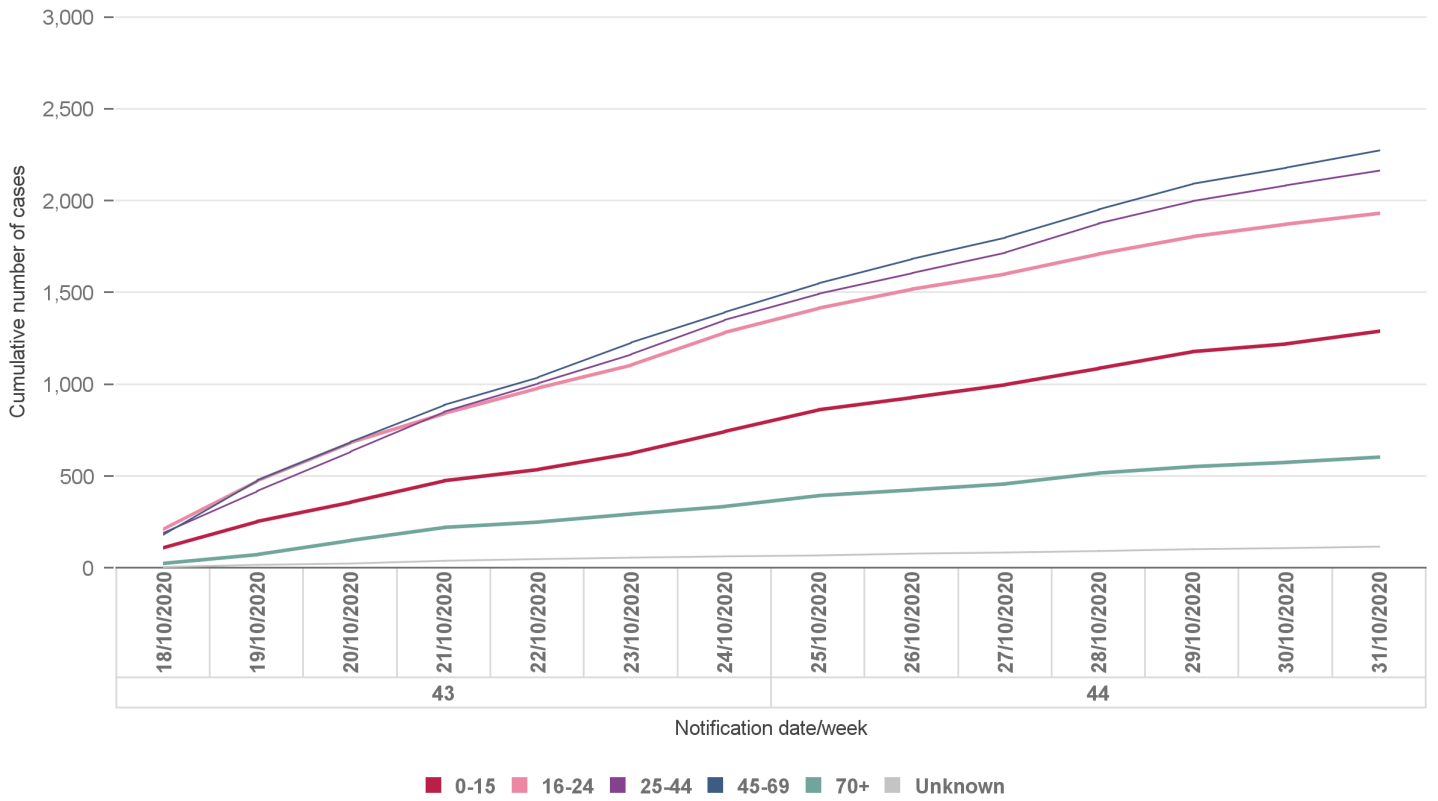


Figure 2: Cumulative number of confirmed COVID-19 cases notified in Ireland by date/week of notification and age group from 18/10/2020 to midnight 31/10/2020

**Table 2: Characteristics of confirmed COVID-19 cases by county notified from 18/10/2020 to midnight 31/10/2020**

County	Cases		M:F ratio	Median age (years)	Healthcare workers		Associated with clusters	
	N	%			N	%	N	%
Dublin	2,976	24.66	0.92	32	101	3.39	230	7.73
Cork	1,657	13.73	1.04	33	49	2.96	135	8.15
Meath	925	7.66	0.99	36	34	3.68	54	5.84
Galway	768	6.36	0.95	24	38	4.95	408	53.13
Kildare	536	4.44	0.89	35	17	3.17	84	15.67
Limerick	525	4.35	1.13	31	13	2.48	112	21.33
Donegal	511	4.23	1.08	33	15	2.94	213	41.68
Cavan	450	3.73	1.04	36	15	3.33	40	8.89
Louth	383	3.17	0.87	38	14	3.66	24	6.27
Kerry	327	2.71	0.87	32	11	3.36	27	8.26
Mayo	318	2.63	0.85	41	22	6.92	155	48.74
Westmeath	285	2.36	0.78	33	13	4.56	64	22.46
Clare	273	2.26	1.02	30	5	1.83	3	1.1
Wexford	260	2.15	0.91	33	4	1.54	84	32.31
Waterford	237	1.96	0.8	36	6	2.53	64	27
Sligo	236	1.96	1.02	25	3	1.27	106	44.92
Tipperary	208	1.72	0.76	38	11	5.29	37	17.79
Monaghan	177	1.47	1.21	35	6	3.39	8	4.52
Laois	174	1.44	0.9	37	18	10.34	25	14.37
Wicklow	165	1.37	0.94	39	7	4.24	16	9.7
Carlow	153	1.27	0.78	36	4	2.61	41	26.8
Roscommon	132	1.09	1.06	31.5	10	7.58	77	58.33
Kilkenny	131	1.09	0.93	29	1	0.76	46	35.11
Offaly	127	1.05	0.9	37	7	5.51	22	17.32
Longford	101	0.84	0.94	36	3	2.97	14	13.86
Leitrim	34	0.28	1.13	31	4	11.76	7	20.59
<b>National</b>	<b>12,069</b>	<b>100</b>	<b>0.95</b>	<b>33</b>	<b>431</b>	<b>3.57</b>	<b>2,096</b>	<b>17.37</b>

**Table 3: Characteristics of confirmed COVID-19 cases by CHO notified from 18/10/2020 to midnight 31/10/2020**

CHO Area	Cases		M:F ratio	Mean age (years)	Healthcare workers		Associated with clusters	
	N	%			N	%	N	%
CHO1	1,407	11.66	1.07	35	43	3.06	374	26.58
CHO2	1,218	10.09	0.93	36	70	5.75	640	52.55
CHO3	936	7.76	1.03	37	28	2.99	135	14.42
CHO4	1,969	16.31	1.01	36	60	3.05	162	8.23
CHO5	825	6.84	0.85	36	16	1.94	250	30.3
CHO6	585	4.85	0.98	36	18	3.08	60	10.26
CHO7	1,469	12.17	0.87	37	50	3.4	184	12.53
CHO8	2,022	16.75	0.92	37	89	4.4	205	10.14
CHO9	1,622	13.44	0.94	34	57	3.51	86	5.3
Unknown	16	0.13	1.29	22	0	0	0	0
<b>National</b>	<b>12,069</b>	<b>100</b>	<b>0.95</b>	<b>36</b>	<b>431</b>	<b>3.57</b>	<b>2,096</b>	<b>17.37</b>

**Table 4: Number of confirmed COVID-19 cases by most likely transmission source notified from 18/10/2020 to midnight 31/10/2020**

Most likely transmission source	Number of cases	Percent
Travel related *	42	0.35%
Close contact with a known confirmed case	4,302	35.65%
Healthcare setting acquired: patient	157	1.30%
Healthcare setting acquired: staff	122	1.01%
Community transmission	1,396	11.57%
Under investigation	6,050	50.13%
<b>Total</b>	<b>12,069</b>	<b>100.00%</b>

\*Travel related cases include cases who acquire COVID-19 infection outside of Ireland (imported cases) and cases who acquire COVID-19 infection directly from imported cases

**Table 5: Number of confirmed COVID-19 cases by community healthcare organisation (CHO) notified in Ireland from 18/10/2020 to midnight 31/10/2020**

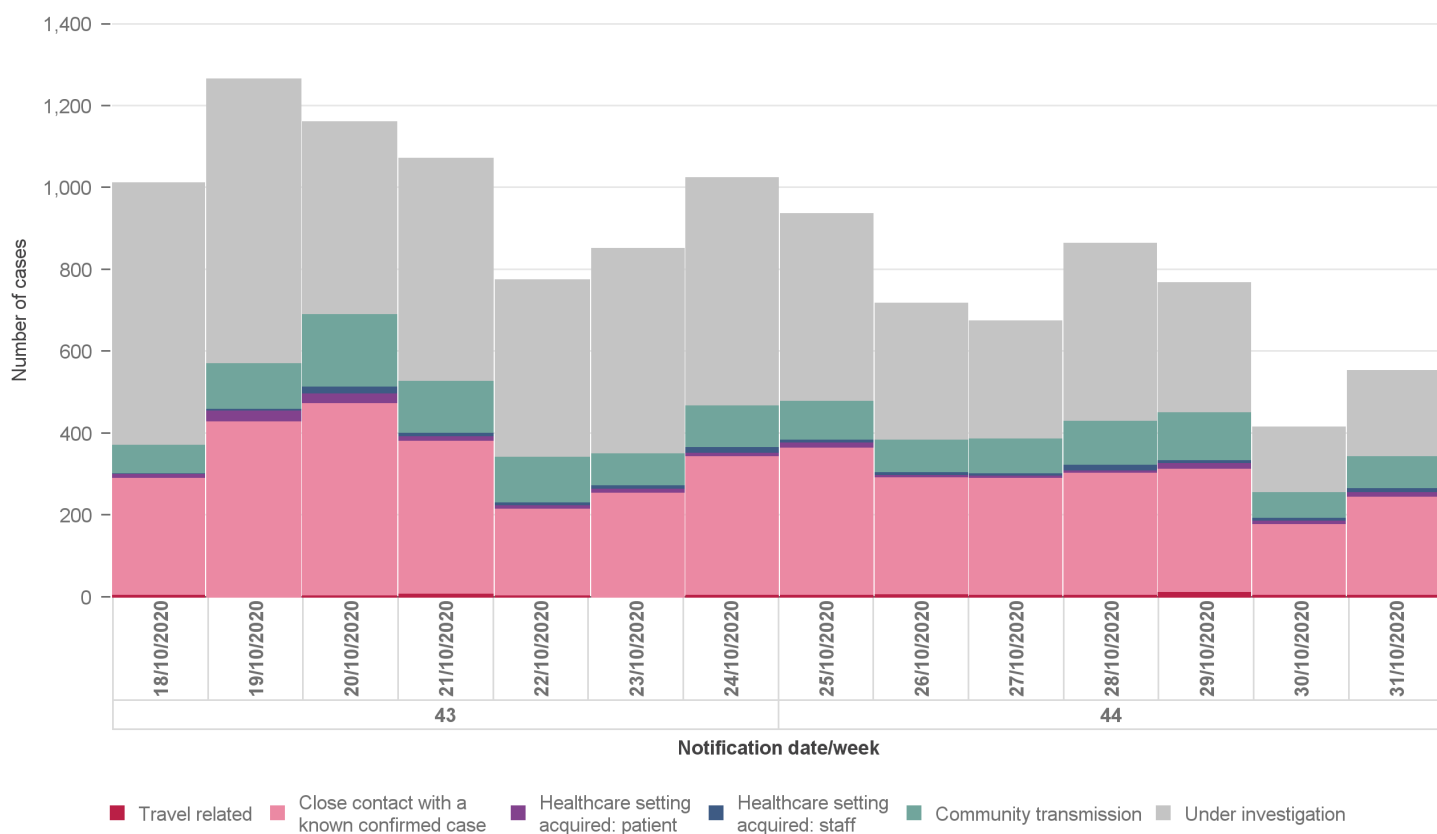
CHO Area	Total number of confirmed cases	Incidence per 100,000 population
CHO1	1,407	
CHO2	1,218	
CHO3	936	
CHO4	1,969	
CHO5	825	
CHO6	585	
CHO7	1,469	
CHO8	2,022	
CHO9	1,622	
Unknown	16	
<b>Total</b>	<b>12,069</b>	

**Table 6: Number of confirmed COVID-19 cases by county notified in Ireland from 18/10/2020 to midnight 31/10/2020**

County	Total number of confirmed cases	Incidence per 100,000 population
Carlow	153	
Cavan	450	
Clare	273	
Cork	1,657	
Donegal	511	
Dublin	2,976	
Galway	768	
Kerry	327	
Kildare	536	
Kilkenny	131	
Laois	174	
Leitrim	34	
Limerick	525	
Longford	101	
Louth	383	
Mayo	318	
Meath	925	
Monaghan	177	
Offaly	127	
Roscommon	132	
Sligo	236	
Tipperary	208	
Waterford	237	
Westmeath	285	
Wexford	260	
Wicklow	165	
<b>Total</b>	<b>12,069</b>	

**Table 7: Number of confirmed COVID-19 cases by country of infection notified from 18/10/2020 to midnight 31/10/2020**

Country of infection	Number of cases	Percent
Ecuador	1	0.01%
France	1	0.01%
Hungary	1	0.01%
India	1	0.01%
Iran, Islamic Republic of	1	0.01%
Ireland	5,909	48.96%
Isle of Man	1	0.01%
Not specified	6,062	50.23%
Pakistan	2	0.02%
Poland	1	0.01%
United kingdom	1	0.01%
Unknown	88	0.73%
<b>Total</b>	<b>12,069</b>	<b>100.00%</b>



**Figure 3: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and most likely transmission source from 18/10/2020 to midnight 31/10/2020**



**Table 8: Cumulative number of confirmed cases of COVID-19 notified in Ireland from 18/10/2020 to midnight 31/10/2020 by age group, hospitalisation and ICU admission\***

Age Group (years)	Number of cases (n)	Cases hospitalised (n)	Cases hospitalised (%)	Cases admitted to ICU (n)	Cases admitted to ICU (%)
0-4 yrs	503	4	1.09	0	0
5-14 yrs	1285	8	2.19	0	0
15-24 yrs	2707	14	3.83	0	0
25-34 yrs	1754	21	5.74	0	0
35-44 yrs	1659	28	7.65	1	4.55
45-54 yrs	1661	39	10.66	2	9.09
55-64 yrs	1282	51	13.93	2	9.09
65-74 yrs	645	73	19.95	12	54.55
75-84 yrs	351	82	22.4	5	22.73
85+ yrs	219	46	12.57	0	0
Unknown	3			0	0
<b>Total</b>	<b>12,069</b>	<b>366</b>	<b>100</b>	<b>22</b>	<b>100</b>

**Table 9: Number and proportion of confirmed cases of COVID-19 notified in Ireland from 18/10/2020 to midnight 31/10/2020 by age-group, hospitalisation, ICU admission\* and vital status**

	0-4 yrs	5-14 yrs	15-24 yrs	25-34 yrs	35-44 yrs	45-54 yrs	55-64 yrs	65-74 yrs	75-84 yrs	85+ yrs	Unknown
Number of cases (n)	503	1,285	2,707	1,754	1,659	1,661	1,282	645	351	219	3
Cases hospitalised (n)	4	8	14	21	28	39	51	73	82	46	
Cases hospitalised (%)	0.8	0.62	0.52	1.2	1.69	2.35	3.98	11.32	23.36	21	
Cases admitted to ICU (n)	0	0	0	0	1	2	2	12	5	0	0
Cases admitted to ICU (%)	0	0	0	0	0.06	0.12	0.16	1.86	1.42	0	0
Deaths (n)	0	0	0	0	0	0	1	4	4	8	0
Case fatality ratio (%)	0	0	0	0	0	0	0.08	0.62	1.14	3.65	0

\* The number of cases hospitalised and admitted to ICU relate only to events notified in the last 14 days and do not include cases notified prior to this and admitted to hospital or ICU in the last 14 days

**Table 10: Characteristics of sporadic\*\* confirmed COVID-19 cases notified in Ireland from 18/10/2020 up to midnight on 31/10/2020**

Characteristic		Number of cases	Percent
<b>Total number of sporadic confirmed cases</b>		<b>9,973</b>	<b>100</b>
<b>Sex</b>	Male:Female ratio	0.98	
	Male	4,941	49.54
	Female	5,023	50.37
	Unknown	9	0.09
<b>Age</b>	Median age (years)	34	
	Mean age (years)	36	
	Age range (years)	0 - 103	
	0-4 yrs	379	3.8
	5-14 yrs	986	9.89
	15-24 yrs	2,184	21.9
	25-34 yrs	1,532	15.36
	35-44 yrs	1,435	14.39
	45-54 yrs	1,409	14.13
	55-64 yrs	1,105	11.08
	65-74 yrs	553	5.54
	75-84 yrs	274	2.75
	85+ yrs	113	1.13
	Number of HCW	307	3.08
	Number hospitalised*	310	3.11
Number admitted to ICU*	16	0.16	
Number of deaths	9	0.09	
Number with underlying condition	315	3.16	
<b>Most likely transmission source</b>	Travel related	40	0.4
	Close contact with a known confirmed case	3,443	34.52
	Healthcare setting acquired: patient	56	0.56
	Healthcare setting acquired: staff	56	0.56
	Community transmission	1,263	12.66
	Under investigation	5,115	51.29

\* The number of cases hospitalised and admitted to ICU relate only to events notified in the last 14 days and do not include cases notified prior to this and admitted to hospital or ICU in the last 14 days

\*\* Sporadic cases are cases not currently linked to an outbreak in CIDR

## Deaths among COVID-19 cases

**Table 11: Summary of deaths in all COVID-19 cases notified in Ireland from 18/10/2020 up to midnight 31/10/2020**

	Number	Percent
Total number of deaths	20	
Confirmed	17	85
Possible	3	15
Total number of cases hospitalised	12	60
Cases admitted to ICU	1	5
Cases not admitted to ICU	11	55
Total number of imported cases	1	5
Number of cases in healthcare workers	0	
Number with underlying clinical conditions	9	45
Total number of male cases	12	60
M:F ratio	1.5	
Median age (years)	82.5	
Mean age (years)	81	
Age range (years)	63 - 96	

**Table 12: Number of deaths in all COVID-19 cases by sex and age group notified in Ireland from 18/10/2020 up to midnight 31/10/2020**

Age group (years)	Female	Male	Total	Percent
55-64 yrs		1	1	5
65-74 yrs	3	3	6	30
75-84 yrs		5	5	25
85+ yrs	5	3	8	40
<b>Total</b>	<b>8</b>	<b>12</b>	<b>20</b>	<b>100</b>
<b>Percent</b>	<b>40</b>	<b>60</b>		

## **Acknowledgements**

Sincere thanks are extended to all those who are participating in the collection of data and reporting of data used in these reports. This includes the HSE COVID-19 Contact Management Programme (CMP), staff in ICU units, notifying clinicians, laboratory staff, public health doctors, nurses, surveillance scientists, microbiologists and administrative staff.

**Report prepared by COVID-19 Epidemiology Team, HPSC**

## Technical Notes

### 1. Data Source

Data are based on statutory notifications and were extracted from Computerised Infectious Disease Reporting (CIDR) system at 13:49 on 01/11/2020. Data are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.

### 2. Epidemiological date

Epidemiological date is derived from the earliest of onset date, date of diagnosis, laboratory specimen collection date, laboratory received date, laboratory reported date and event creation/notification date.

### 3. Population data

Population data were taken from Census 2016. Data were aggregated into the following age groups for the analysis: 0-4 years, 5-14 years, 15-24 years, 25-34 years, 35-44 years, 45-54 years, 55-64 years, 65-74 years, 75-84 years and  $\geq 85$  years.

### 3. Transmission classification

Transmission classification is based on country of infection as well as enhanced exposure data (international travel; close contact of a case) recorded in CIDR. Transmission is classified as 'unknown' due to incomplete data on CIDR.

Travel related cases include cases who acquire COVID-19 infection outside of Ireland (imported cases) and cases who acquire COVID-19 infection directly from imported cases.

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 indicates locations where all cases have been acquired outside the location of reporting.

### 4. HSE areas

The counties covered by each HSE area are as follows:

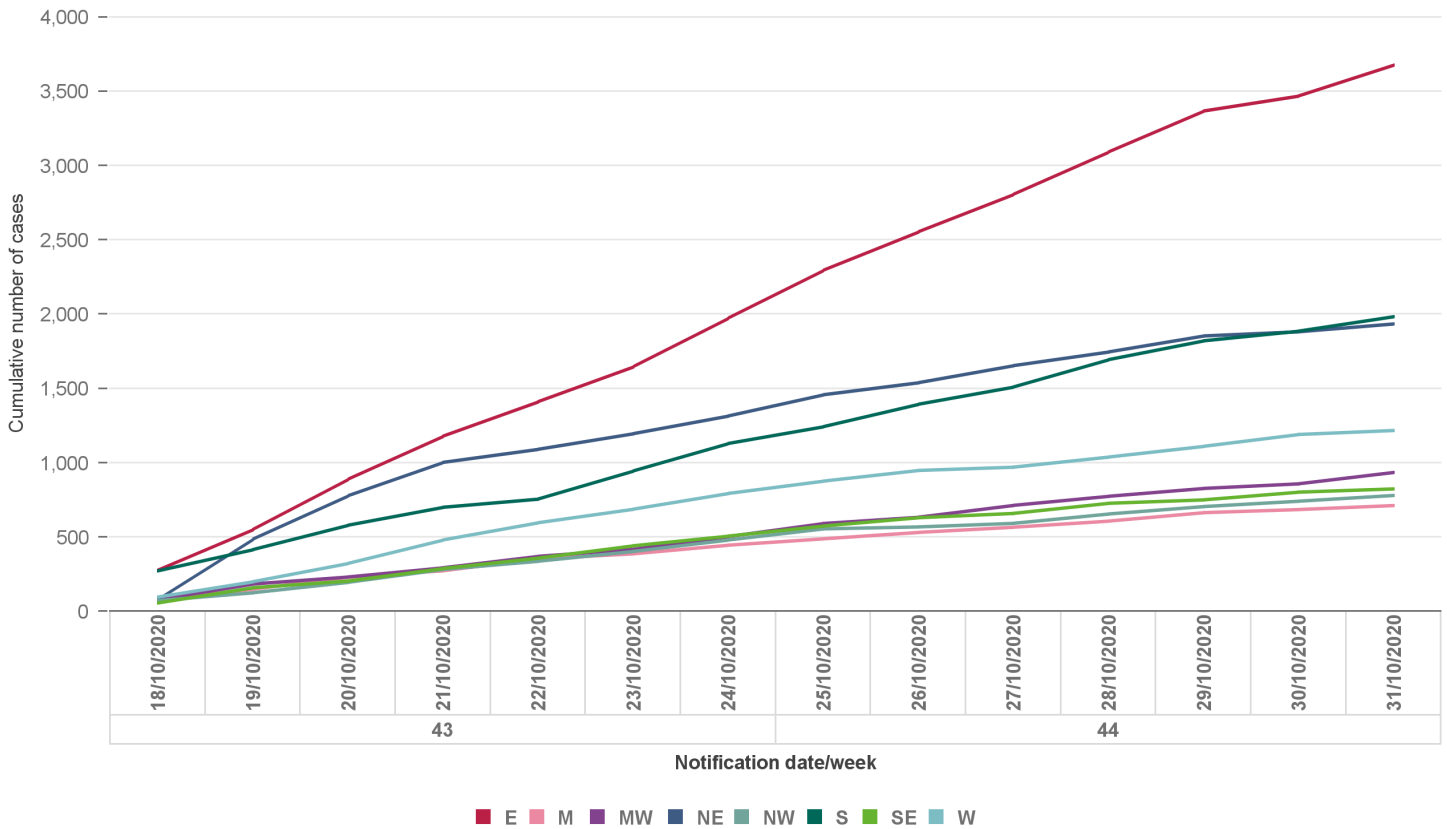
- HSE East (E): Dublin, Kildare & Wicklow;
- HSE Midlands (M): Laois, Longford, Offaly & Westmeath;
- HSE Midwest (MW): Clare, Limerick & N. Tipperary;
- HSE Northeast (NE): Cavan, Louth, Meath & Monaghan;
- HSE Northwest (NW): Donegal, Leitrim & Sligo;
- HSE South (S): Kerry & Cork;
- HSE Southeast (SE): Carlow, Kilkenny, S. Tipperary, Waterford & Wexford;
- HSE West (W): Galway, Mayo & Roscommon.

### 5. Outbreak location

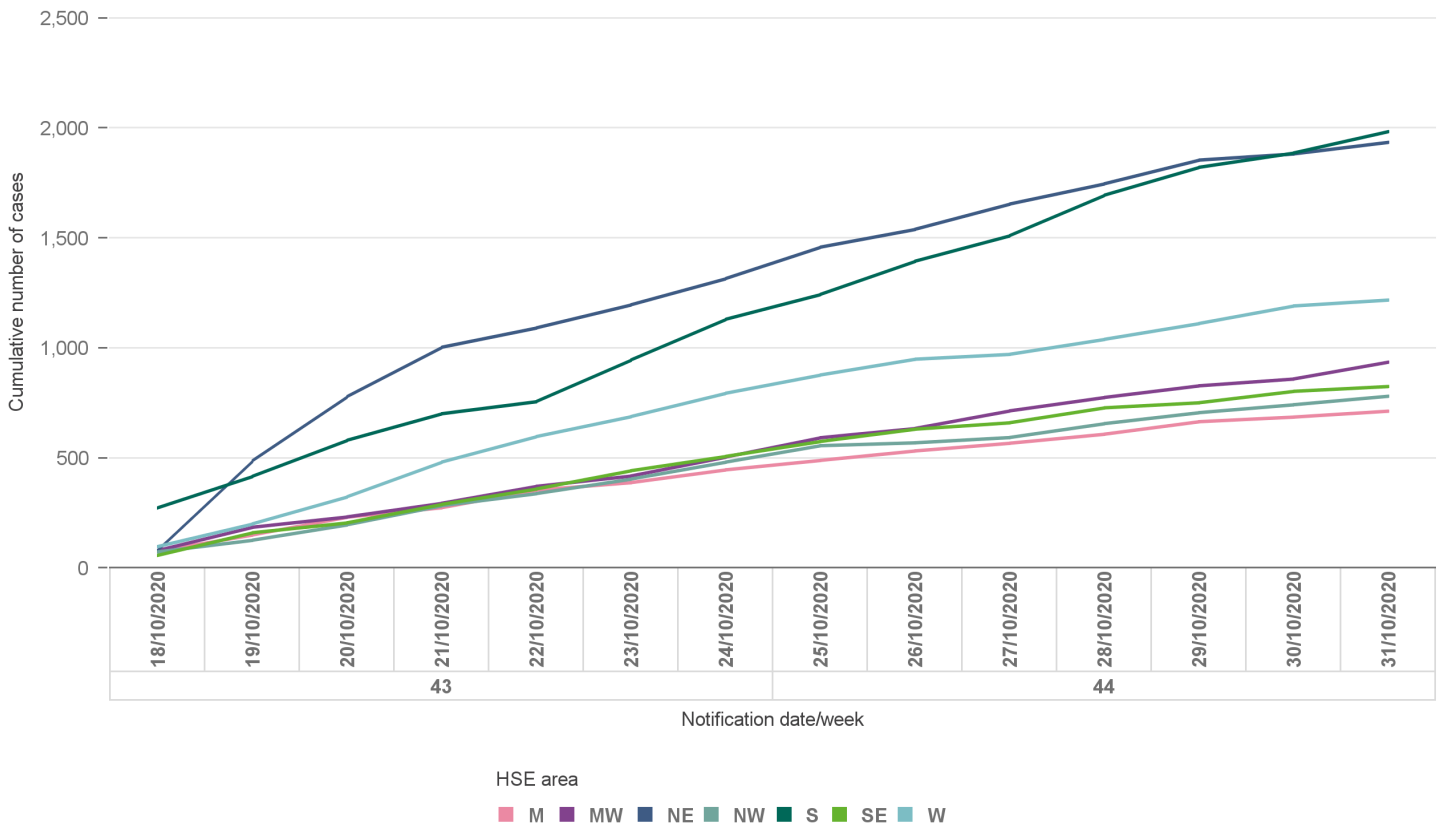
Where an outbreak location is reported as a residential facility (RF) this includes nursing homes, community hospitals, long-stay units and residential institutions including mental health facilities, prisons and direct provision centres.

Other outbreak location includes community, extended family, hotel, public house, retail outlet, travel related and all other locations.

**Appendix 1: Trends in confirmed COVID-19 cases notified in Ireland by HSE area**



**Figure A: Cumulative number of confirmed COVID-19 cases notified in Ireland by date/week of notification and HSE area from 18/10/2020 to midnight 31/10/2020**



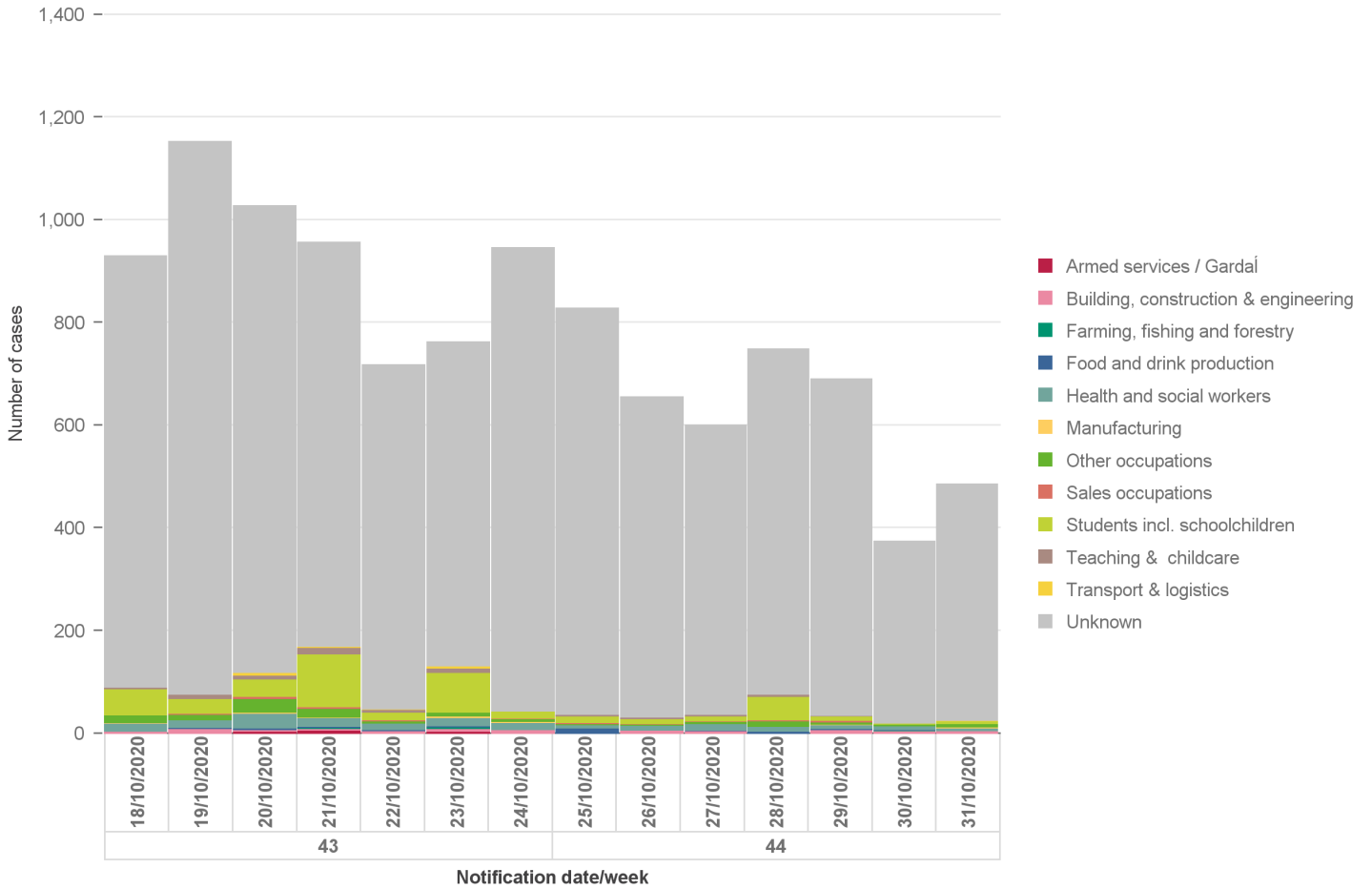
**Figure B: Cumulative number of confirmed COVID-19 cases notified in Ireland by date/week of notification and HSE area (excluding HSE East) from 18/10/2020 to midnight 31/10/2020**

## Appendix 1: Trends in confirmed COVID-19 cases notified in Ireland by HSE area

**Table A: Cumulative number of confirmed COVID-19 cases notified in Ireland by week of notification and HSE area from 18/10/2020 to midnight 31/10/2020**

Week	Date	E	M	MW	NE	NW	S	SE	W	Total
43	18/10/2020	277	76	79	78	73	273	57	97	<b>1010</b>
43	19/10/2020	274	74	106	408	53	143	103	103	<b>1264</b>
43	20/10/2020	338	81	47	292	70	164	45	123	<b>1160</b>
43	21/10/2020	290	43	62	225	87	121	84	158	<b>1070</b>
43	22/10/2020	232	80	77	88	55	55	70	116	<b>773</b>
43	23/10/2020	235	34	47	105	66	189	83	91	<b>850</b>
43	24/10/2020	327	58	86	119	77	185	65	106	<b>1023</b>
44	25/10/2020	322	43	88	143	75	113	68	83	<b>935</b>
44	26/10/2020	259	43	42	81	13	151	56	72	<b>717</b>
44	27/10/2020	252	35	80	115	24	116	29	22	<b>673</b>
44	28/10/2020	285	41	61	92	63	184	68	68	<b>862</b>
44	29/10/2020	276	57	53	108	50	127	23	72	<b>766</b>
44	30/10/2020	101	21	31	28	36	65	52	80	<b>414</b>
44	31/10/2020	209	27	77	53	39	98	22	27	<b>552</b>

**Appendix 2: Trends in confirmed COVID-19 cases notified in Ireland by occupation**



**Figure C: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and occupation\* from 18/10/2020 to midnight 31/10/2020**

\*Among cases aged less than 69 years



### Appendix 3: Epidemiological weeks, 2020-2021

Table B: List of epidemiological weeks, start and end dates, 2020

Year	Week	Start date	End date
2020	1	29/12/2019	04/01/2020
2020	2	05/01/2020	11/01/2020
2020	3	12/01/2020	18/01/2020
2020	4	19/01/2020	25/01/2020
2020	5	26/01/2020	01/02/2020
2020	6	02/02/2020	08/02/2020
2020	7	09/02/2020	15/02/2020
2020	8	16/02/2020	22/02/2020
2020	9	23/02/2020	29/02/2020
2020	10	01/03/2020	07/03/2020
2020	11	08/03/2020	14/03/2020
2020	12	15/03/2020	21/03/2020
2020	13	22/03/2020	28/03/2020
2020	14	29/03/2020	04/04/2020
2020	15	05/04/2020	11/04/2020
2020	16	12/04/2020	18/04/2020
2020	17	19/04/2020	25/04/2020
2020	18	26/04/2020	02/05/2020
2020	19	03/05/2020	09/05/2020
2020	20	10/05/2020	16/05/2020
2020	21	17/05/2020	23/05/2020
2020	22	24/05/2020	30/05/2020
2020	23	31/05/2020	06/06/2020
2020	24	07/06/2020	13/06/2020
2020	25	14/06/2020	20/06/2020
2020	26	21/06/2020	27/06/2020
2020	27	28/06/2020	04/07/2020
2020	28	05/07/2020	11/07/2020
2020	29	12/07/2020	18/07/2020
2020	30	19/07/2020	25/07/2020
2020	31	26/07/2020	01/08/2020
2020	32	02/08/2020	08/08/2020
2020	33	09/08/2020	15/08/2020
2020	34	16/08/2020	22/08/2020
2020	35	23/08/2020	29/08/2020
2020	36	30/08/2020	05/09/2020
2020	37	06/09/2020	12/09/2020
2020	38	13/09/2020	19/09/2020

2020	39	20/09/2020	26/09/2020
2020	40	27/09/2020	03/10/2020
2020	41	04/10/2020	10/10/2020
2020	42	11/10/2020	17/10/2020
2020	43	18/10/2020	24/10/2020
2020	44	25/10/2020	31/10/2020
2020	45	01/11/2020	07/11/2020
2020	46	08/11/2020	14/11/2020
2020	47	15/11/2020	21/11/2020
2020	48	22/11/2020	28/11/2020
2020	49	29/11/2020	05/12/2020
2020	50	06/12/2020	12/12/2020
2020	51	13/12/2020	19/12/2020
2020	52	20/12/2020	26/12/2020
2020	53	27/12/2020	02/01/2021

**Number and cumulative number of confirmed COVID-19 deaths notified to midnight**

<b>Date of Death</b>	<b>Count of deaths</b>	<b>Cumulative count deaths_All Deaths</b>
19/10/2020	1	1
21/10/2020	2	3
22/10/2020	3	6
23/10/2020	2	8
24/10/2020	1	9
25/10/2020	3	12
26/10/2020	2	14
27/10/2020	1	15
28/10/2020	2	17
29/10/2020	2	19
	1	20
<b>Total</b>	<b>20</b>	

Week	Date	Count of cas	Count of cas
43	18/10/2020	1,010	691
43	19/10/2020	1,264	906
43	20/10/2020	1,160	972
43	21/10/2020	1,070	900
43	22/10/2020	773	929
43	23/10/2020	850	821
43	24/10/2020	1,023	831
44	25/10/2020	935	443
44	26/10/2020	717	493
44	27/10/2020	673	557
44	28/10/2020	862	468
44	29/10/2020	766	378
44	30/10/2020	414	426
44	31/10/2020	552	107
	<b>Sum:</b>	<b>12,069</b>	<b>8,922</b>

Event Creatio	Total number
18/10/2020	1,010
19/10/2020	1,264
20/10/2020	1,160
21/10/2020	1,070
22/10/2020	773
23/10/2020	850
24/10/2020	1,023
25/10/2020	935
26/10/2020	717
27/10/2020	673
28/10/2020	862
29/10/2020	766
30/10/2020	414
31/10/2020	552

Tota

number

12,069

County Name	Total number	CCA Name
Dublin	147	CCA1
Dublin	280	CCA2
Dublin	204	CCA3
Dublin	317	CCA4
Dublin	405	CCA5
Dublin	656	CCA6
Dublin	405	CCA7
Dublin	561	CCA8
Dublin	1	
<b>Sum:</b>	<b>2,976</b>	

County	Cases	Associated with clusters	Cases excluding OBs
Carlow	153	41	112
Cavan	450	40	410
Clare	273	3	270
Cork	1,657	135	1,522
Donegal	511	213	298
Dublin	2,976	230	2,746
Galway	768	408	360
Kerry	327	27	300
Kildare	536	84	452
Kilkenny	131	46	85
Laois	174	25	149
Leitrim	34	7	27
Limerick	525	112	413
Longford	101	14	87
Louth	383	24	359
Mayo	318	155	163
Meath	925	54	871
Monaghan	177	8	169
Offaly	127	22	105
Roscommon	132	77	55
Sligo	236	106	130
Tipperary	208	37	171
Waterford	237	64	173
Westmeath	285	64	221
Wexford	260	84	176
Wicklow	165	16	149
<b>Sum:</b>	<b>12,069</b>	<b>2,096</b>	<b>9,973</b>