



Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 07/11/2020

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 24/10/2020 up to midnight 06/11/2020

	Number	Percent
Total number of confirmed cases	8,836	
National incidence of confirmed cases per 100,000 population	185.56	
Number of cases hospitalised*	352	3.98
Number of cases admitted to ICU*	24	0.27
Number of deaths among confirmed cases	12	0.14
Case fatality ratio (CFR, %)	0.14	
National incidence of confirmed deaths per 100,000 population	0.25	
Number of cases** associated with clusters	2,197	24.86
Number of imported cases	11	0.12
Number of cases in healthcare workers	519	5.87
Males	4,227	47.84
Females	4,598	52.04
M:F ratio	0.92	
Median age (years)	34	
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
24/10/2020 - 06/11/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 11:21 on 07/11/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.

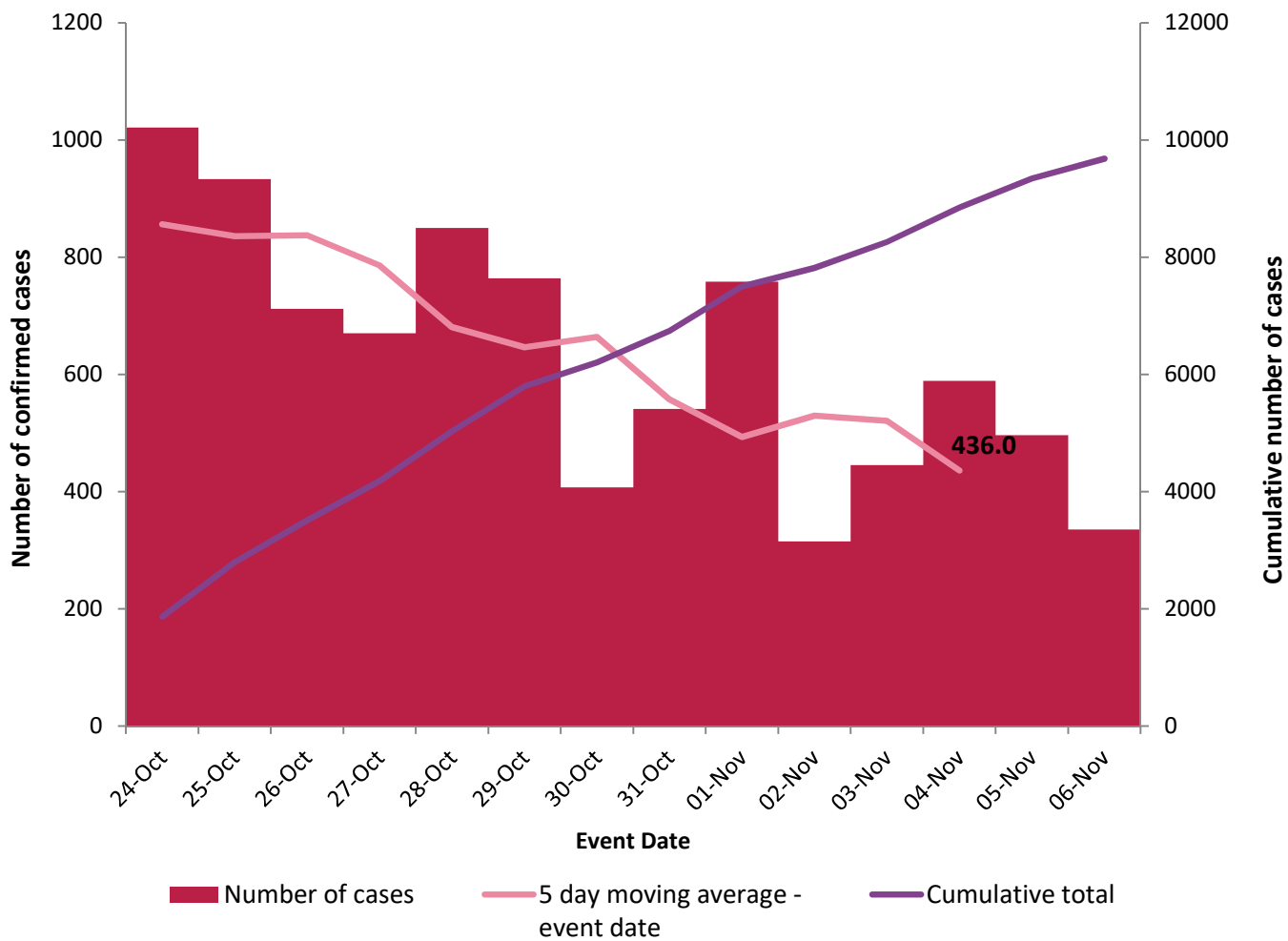


Figure 1. Daily number and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date from 24/10/2020 to midnight 06/11/2020 (n=8,836)

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 24/10/2020 up to midnight on 06/11/202

Characteristic		Number of cases	Percent
Total number of confirmed cases		8,836	100
Sex	Male:Female ratio	0.92	
	Male	4,227	47.84
	Female	4,598	52.04
	Unknown	11	0.12
Age	Median age (years)	34	
	Mean age (years)	36	
	Age range (years)	0 - 103	
	0-4 yrs	394	4.46
	5-12 yrs	749	8.48
	13-18 yrs	805	9.11
	19-24 yrs	1,147	12.98
	25-34 yrs	1,355	15.33
	35-44 yrs	1,309	14.81
	45-54 yrs	1,241	14.04
	55-64 yrs	877	9.93
	65-74 yrs	478	5.41
	75-84 yrs	299	3.38
	85+ yrs	180	2.04
	Unknown	2	0.02
Underlying clinical conditions	Yes	823	9.31
	No	6,490	73.45
	Unknown	1,523	17.24
Symptom status at time of test*	Yes	4,815	54.49
	No	2,299	26.02
	Unknown	1,722	19.49

*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.

Table 2: Number of confirmed COVID-19 cases by community healthcare organisation (CHO) notified in Ireland from 24/10/2020 to midnight 06/11/2020

CHO Area	Number of confirmed cases	Incidence per 100,000 population	95% CI	
CHO1	889	227.2	212.5	242.6
CHO2	796	175.7	163.7	188.3
CHO3	767	199.2	185.4	213.8
CHO4	1447	209.5	198.9	220.6
CHO5	627	122.9	113.4	132.9
CHO6	460	120.1	109.3	131.5
CHO7	1191	168.3	158.9	178.1
CHO8	1246	201.2	190.2	212.7
CHO9	1413	227.4	215.7	239.6
Unknown	0			
Total	8,836	185.6	181.7	189.4

Table 3: Number of confirmed COVID-19 cases by county notified in Ireland from 24/10/2020 to midnight 06/11/2020

County	Number of confirmed cases	Incidence per 100,000 population	95% CI	
Donegal	464	291.5	265.6	319.2
Meath	508	260.5	238.3	284.1
Cavan	176	231.0	198.2	267.8
Limerick	425	218.1	197.8	239.8
Cork	1183	217.9	205.7	230.7
Westmeath	185	208.4	179.5	240.7
Sligo	136	207.5	174.1	245.5
Dublin	2589	192.2	184.8	199.7
Louth	243	188.5	165.6	213.8
Carlow	107	187.9	154.0	227.1
Mayo	239	183.1	160.6	207.9
Kerry	264	178.7	157.8	201.6
Roscommon	114	176.6	145.7	212.2
Clare	205	172.5	149.7	197.8
Galway	443	171.7	156.1	188.4
Monaghan	104	169.4	138.4	205.3
Laois	143	168.8	142.3	198.9
Longford	69	168.8	131.3	213.6
Waterford	191	164.4	141.9	189.4
Kildare	348	156.4	140.4	173.7
Kilkenny	140	141.1	118.7	166.5
Tipperary	205	128.5	111.5	147.3
Offaly	85	109.0	87.1	134.8
Wexford	134	89.5	75.0	106.0
Wicklow	127	89.2	74.3	106.1
Leitrim	9	28.1	12.8	53.3
Total	8,836	185.6	181.7	189.4

Figure 2: Cumulative incidence rates of confirmed COVID-19 cases per 100,000 population by county notified in Ireland between 24/10/2020 and 06/11/2020

Please do not directly compare county shades to previous maps. The number of cases are increasing and as such the categories listed will broaden which may result in changes to the map shading.

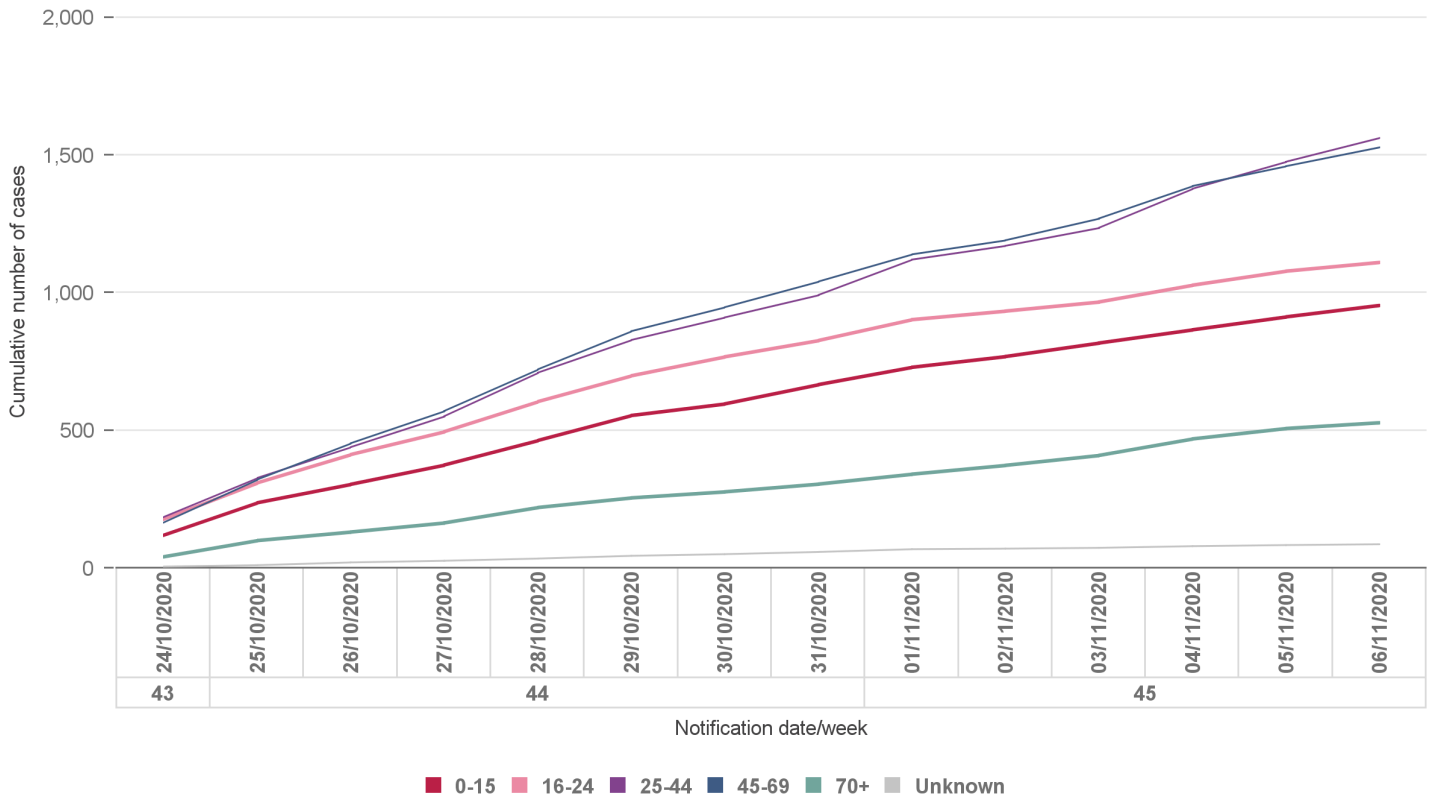


Figure 2: Cumulative number of confirmed COVID-19 cases notified in Ireland by date/week of notification and age group from 24/10/2020 to midnight 06/11/2020

Table 2: Characteristics of confirmed COVID-19 cases by county notified from 24/10/2020 to midnight 06/11/2020

County	Cases		M:F ratio	Median age (years)	Healthcare workers		Associated with clusters	
	N	%			N	%	N	%
Dublin	2,589	29.3	0.88	32	143	5.52	217	8.38
Cork	1,183	13.39	0.98	34	59	4.99	282	23.84
Meath	508	5.75	0.87	36	30	5.91	111	21.85
Donegal	464	5.25	1.07	38	39	8.41	203	43.75
Galway	443	5.01	0.91	27	32	7.22	315	71.11
Limerick	425	4.81	1.06	31	27	6.35	96	22.59
Kildare	348	3.94	0.86	37.5	17	4.89	45	12.93
Kerry	264	2.99	1.06	40	14	5.3	80	30.3
Louth	243	2.75	0.81	38	11	4.53	51	20.99
Mayo	239	2.7	0.9	38	24	10.04	157	65.69
Clare	205	2.32	1.05	31	8	3.9	26	12.68
Tipperary	205	2.32	0.77	40	13	6.34	58	28.29
Waterford	191	2.16	0.79	35	7	3.66	110	57.59
Westmeath	185	2.09	0.85	33	11	5.95	22	11.89
Cavan	176	1.99	0.8	32	9	5.11	25	14.2
Laois	143	1.62	1.13	39	15	10.49	29	20.28
Kilkenny	140	1.58	0.77	38	7	5	65	46.43
Sligo	136	1.54	1	28	8	5.88	54	39.71
Wexford	134	1.52	1.16	35	2	1.49	86	64.18
Wicklow	127	1.44	0.98	41	6	4.72	9	7.09
Roscommon	114	1.29	0.87	38.5	13	11.4	76	66.67
Carlow	107	1.21	0.78	36	5	4.67	53	49.53
Monaghan	104	1.18	0.93	37	2	1.92	9	8.65
Offaly	85	0.96	0.91	39	11	12.94	9	10.59
Longford	69	0.78	1.16	42	5	7.25	6	8.7
Leitrim	9	0.1	0.29	35	1	11.11	3	33.33
National	8,836	100	0.92	34	519	5.87	2,197	24.86

Table 3: Characteristics of confirmed COVID-19 cases by CHO notified from 24/10/2020 to midnight 06/11/2020

CHO Area	Cases		M:F ratio	Mean age (years)	Healthcare workers		Associated with clusters	
	N	%			N	%	N	%
CHO1	889	10.06	0.97	37	59	6.64	294	33.07
CHO2	796	9.01	0.9	37	69	8.67	548	68.84
CHO3	767	8.68	1.01	37	45	5.87	148	19.3
CHO4	1,447	16.38	1	37	73	5.04	362	25.02
CHO5	627	7.1	0.83	36	23	3.67	345	55.02
CHO6	460	5.21	0.95	37	27	5.87	30	6.52
CHO7	1,191	13.48	0.86	37	65	5.46	105	8.82
CHO8	1,246	14.1	0.9	38	84	6.74	229	18.38
CHO9	1,413	15.99	0.87	33	74	5.24	136	9.62
National	8,836	100	0.92	36	519	5.87	2,197	24.86

Table 4: Number of confirmed COVID-19 cases by most likely transmission source notified from 24/10/2020 to midnight 06/11/2020

Most likely transmission source	Number of cases	Percent
Travel related *	73	0.83%
Close contact with a known confirmed case	3,963	44.85%
Healthcare setting acquired: patient	232	2.63%
Healthcare setting acquired: staff	189	2.14%
Community transmission	1,374	15.55%
Under investigation	3,005	34.01%
Total	8,836	100.00%

*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 24/10/2020 to midnight 06/11/2020

CHO Area	Total number of confirmed cases	Incidence per 100,000 population
CHO1	889	
CHO2	796	
CHO3	767	
CHO4	1,447	
CHO5	627	
CHO6	460	
CHO7	1,191	
CHO8	1,246	
CHO9	1,413	
Unknown	0	
Total	8,836	

Table 6: Number of confirmed COVID-19 cases by county notified in Ireland from 24/10/2020 to midnight 06/11/2020

County	Total number of confirmed cases	Incidence per 100,000 population
Carlow	107	
Cavan	176	
Clare	205	
Cork	1,183	
Donegal	464	
Dublin	2,589	
Galway	443	
Kerry	264	
Kildare	348	
Kilkenny	140	
Laois	143	
Leitrim	9	
Limerick	425	
Longford	69	
Louth	243	
Mayo	239	
Meath	508	
Monaghan	104	
Offaly	85	
Roscommon	114	
Sligo	136	
Tipperary	205	
Waterford	191	
Westmeath	185	
Wexford	134	
Wicklow	127	
Total	8,836	

Table 7: Number of confirmed COVID-19 cases by country of infection notified from 24/10/2020 to midnight 06/11/2020

Country of infection	Number of cases	Percent
Hungary	1	0.01%
India	1	0.01%
Iran, Islamic Republic of	1	0.01%
Ireland	4,215	47.70%
Isle of Man	1	0.01%
Israel	1	0.01%
Not specified	4,503	50.96%
Pakistan	1	0.01%
Poland	2	0.02%
Sweden	1	0.01%
United kingdom	2	0.02%
Unknown	107	1.21%
Total	8,836	100.00%

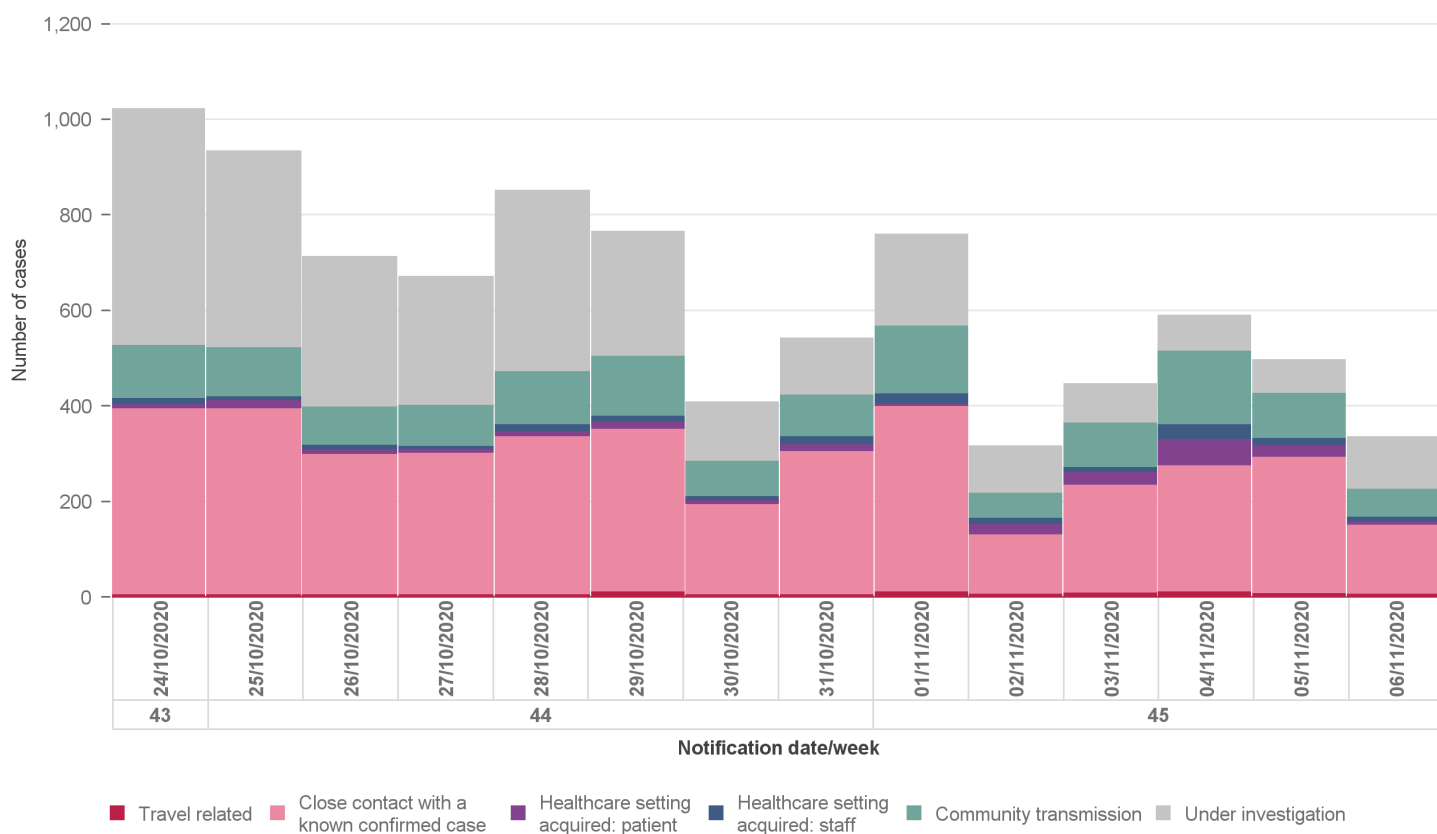


Figure 3: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and most likely transmission source from 24/10/2020 to midnight 06/11/2020

Table 8: Cumulative number of confirmed cases of COVID-19 notified in Ireland from 24/10/2020 to midnight 06/11/2020 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	394	5	1.42	0	0
5-12 yrs	749	8	2.27	0	0
13-18 yrs	805	7	1.99	0	0
19-24 yrs	1147	12	3.41	1	4.17
25-34 yrs	1355	20	5.68	0	0
35-44 yrs	1309	32	9.09	2	8.33
45-54 yrs	1241	41	11.65	4	16.67
55-64 yrs	877	37	10.51	3	12.5
65-74 yrs	478	70	19.89	10	41.67
75-84 yrs	299	80	22.73	3	12.5
85+ yrs	180	40	11.36	1	4.17
Unknown	2			0	0
Total	8,836	352	100	24	100

Table 9: Number and proportion of confirmed cases of COVID-19 notified in Ireland from 24/10/2020 to midnight 06/11/2020 by age-group, hospitalisation, ICU admission* and vital status

	0-4 yrs	5-12 yrs	13-18 yrs	19-24 yrs	25-34 yrs	35-44 yrs	45-54 yrs	55-64 yrs	65-74 yrs	75-84 yrs	85+ yrs	Unkwn
Number of cases (n)	394	749	805	1,147	1,355	1,309	1,241	877	478	299	180	2
Cases hospitalised (n)	5	8	7	12	20	32	41	37	70	80	40	
Cases hospitalised (%)	1.27	1.07	0.87	1.05	1.48	2.44	3.3	4.22	14.64	26.76	22.22	
Cases admitted to ICU (n)	0	0	0	1	0	2	4	3	10	3	1	0
Cases admitted to ICU (%)	0	0	0	0.09	0	0.15	0.32	0.34	2.09	1	0.56	0
Deaths (n)	0	0	0	0	0	0	0	0	5	4	3	0
Case fatality ratio (%)	0	0	0	0	0	0	0	0	1.05	1.34	1.67	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 24/10/2020 up to midnight on 06/11/2020**

Characteristic		Number of cases	Percent	
Total number of sporadic confirmed cases		6,639	100	
Sex	Male:Female ratio	0.96		
	Male	3,242	48.83	
	Female	3,387	51.02	
	Unknown	10	0.15	
Age	Median age (years)	35		
	Mean age (years)	36		
	Age range (years)	0 - 103		
	0-4 yrs	265	3.99	
	5-12 yrs	504	7.59	
	13-18 yrs	574	8.65	
	19-24 yrs	859	12.94	
	25-34 yrs	1,103	16.61	
	35-44 yrs	1,045	15.74	
	45-54 yrs	951	14.32	
	55-64 yrs	697	10.5	
	65-74 yrs	388	5.84	
	75-84 yrs	182	2.74	
	85+ yrs	69	1.04	
	Unknown	2	0.03	
		Number of HCW	331	4.99
		Number hospitalised*	239	3.6
	Number admitted to ICU*	19	0.29	
	Number of deaths	9	0.14	
	Number with underlying condition	586	8.83	
Most likely transmission source	Travel related	67	1.01	
	Close contact with a known confirmed case	2,907	43.79	
	Healthcare setting acquired: patient	73	1.1	
	Healthcare setting acquired: staff	76	1.14	
	Community transmission	1,163	17.52	
	Under investigation	2,353	35.44	

* 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 24/10/2020 up to midnight 06/11/2020

	Number	Percent
Total number of deaths	14	
Confirmed	12	85.71
Possible	2	14.29
Total number of cases hospitalised	9	64.29
Cases admitted to ICU	4	28.57
Cases not admitted to ICU	5	35.71
Total number of imported cases	1	7.14
Number of cases in healthcare workers	0	
Number with underlying clinical conditions	9	64.29
Total number of male cases	11	78.57
M:F ratio	3.67	
Median age (years)	75.5	
Mean age (years)	78	
Age range (years)	66 - 92	

Table 12: Number of deaths in all COVID-19 cases by sex and age group notified in Ireland from 24/10/2020 up to midnight 06/11/2020

Age group (years)	Female	Male	Total	Percent
65-74 yrs	2	5	7	50
75-84 yrs		4	4	28.57
85+ yrs	1	2	3	21.43
Total	3	11	14	100
Percent	21.43	78.57		

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 11:21 on 07/11/2020. 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 ≥ 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

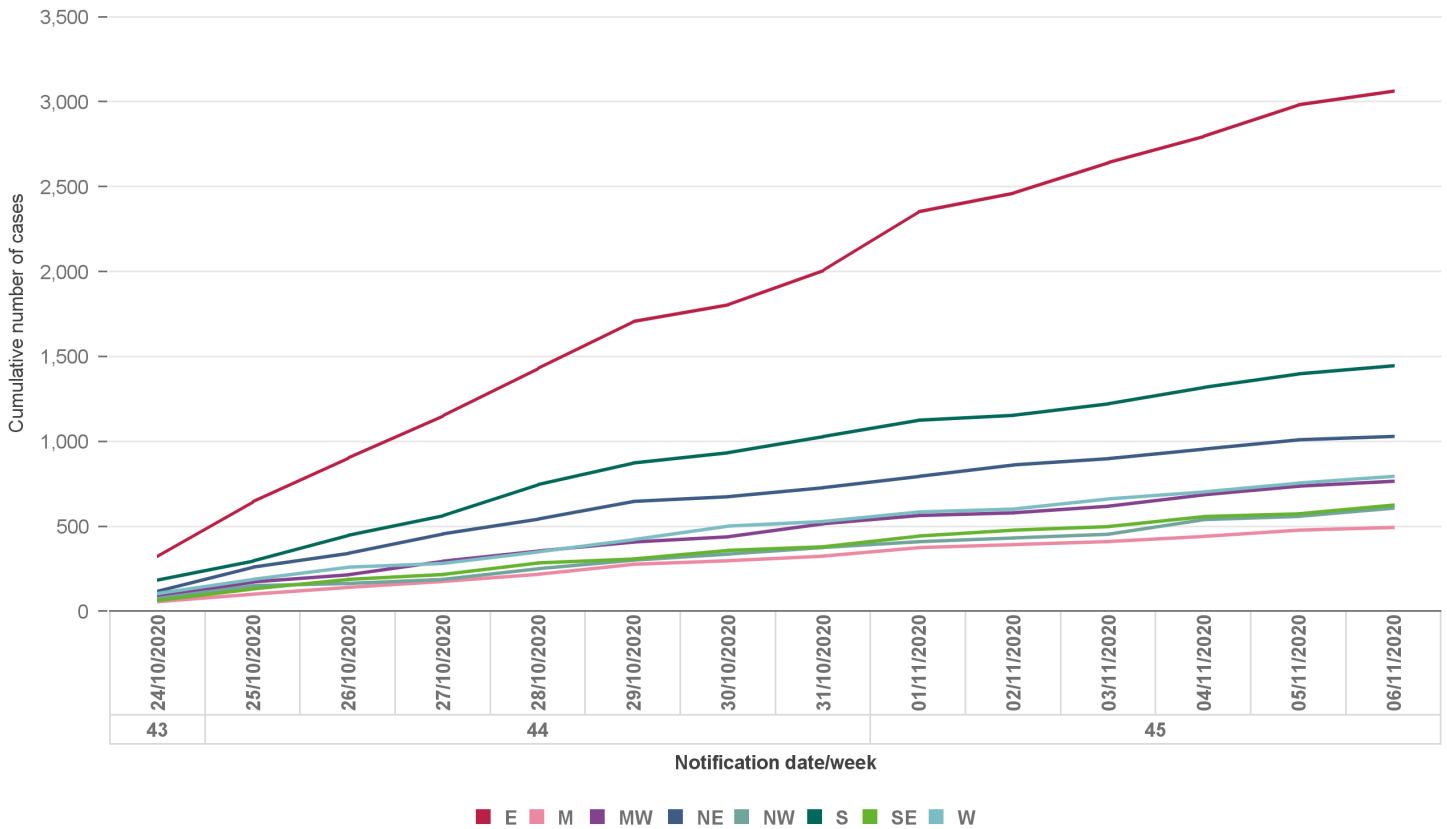


Figure A: Cumulative number of confirmed COVID-19 cases notified in Ireland by date/week of notification and HSE area from 24/10/2020 to midnight 06/11/2020

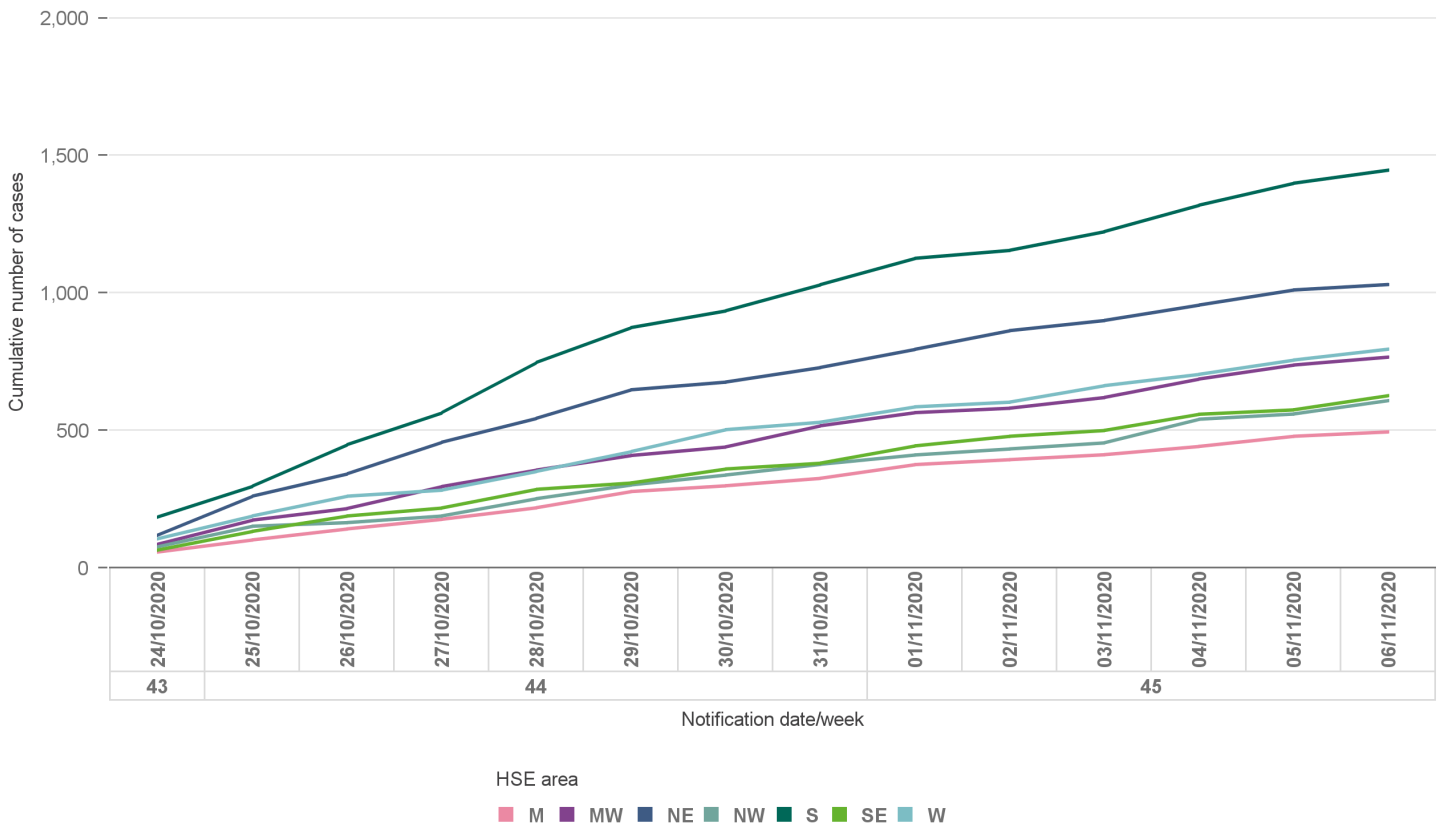


Figure B: Cumulative number of confirmed COVID-19 cases notified in Ireland by date/week of notification and HSE area (excluding HSE East) from 24/10/2020 to midnight 06/11/2020

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 24/10/2020 to midnight 06/11/2020

Week	Date	E	M	MW	NE	NW	S	SE	W	Total
43	24/10/2020	325	58	86	119	77	185	65	106	1021
44	25/10/2020	321	44	88	142	75	112	68	83	933
44	26/10/2020	257	40	42	81	13	151	56	72	712
44	27/10/2020	249	35	80	115	24	116	29	22	670
44	28/10/2020	279	42	60	87	63	183	68	68	850
44	29/10/2020	276	59	53	104	50	127	23	72	764
44	30/10/2020	99	21	31	28	36	61	51	80	407
44	31/10/2020	202	27	77	53	39	95	21	27	541
45	01/11/2020	345	50	48	66	34	96	63	56	758
45	02/11/2020	110	18	16	68	22	29	35	17	315
45	03/11/2020	180	18	39	37	22	68	21	60	445
45	04/11/2020	154	30	67	56	86	96	59	41	589
45	05/11/2020	186	37	51	55	19	80	16	52	496
45	06/11/2020	81	16	29	20	49	48	52	40	335

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

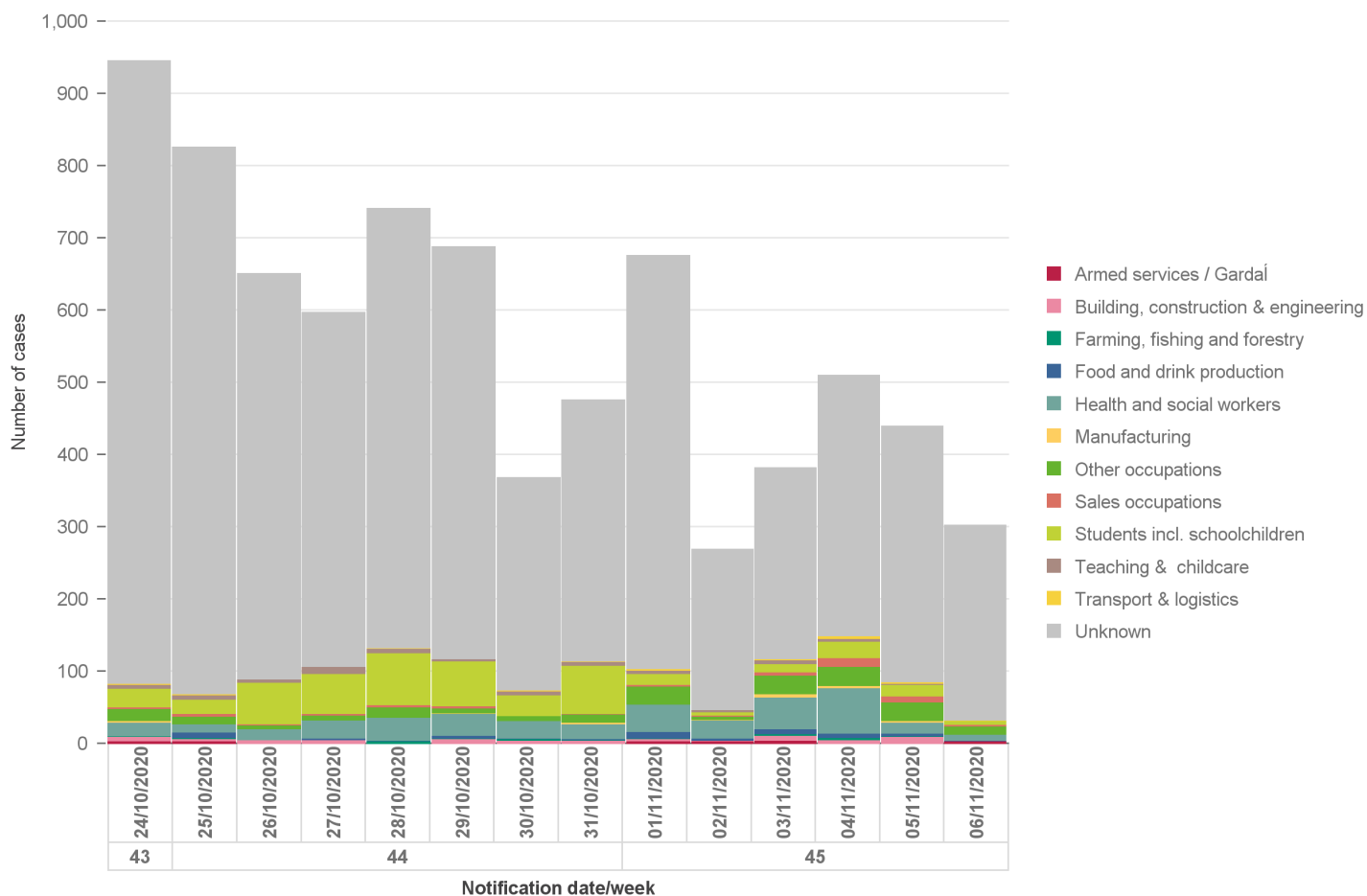


Figure C: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and occupation* from 24/10/2020 to midnight 06/11/2020

*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

Appendix 3

Table C: Number and incidence of confirmed COVID-19 cases by Dublin Local Health Offices (LHOs) notified in Ireland with a notification date between 24/10/2020 and 06/11/2020

CCA	Local Health Office	Number of cases in past 14 days based on epi date	14 day incidence rates based on epi dates	Population (2016 Census)
CCA1	Dublin South	112	82.3	136,074
CCA2	Dublin South East	224	181.1	123,704
CCA3	Dublin South City	181	120.7	149,935
CCA4	Dublin South West	300	186.5	160,898
CCA5	Dublin West	359	231.1	155,343
CCA6	Dublin North West	546	262.9	207,670
CCA7	Dublin North Central	341	220.6	154,583
CCA8	Dublin North	526	203.0	259,152
	Dublin	2,589	192.2	1,347,359

Note: Local health offices (LHOs) came into operation on 1st September 2005, replacing Community Care Areas (CCAs). LHO population denominators are used in this report rather than CCA population denominators. The LHO rates were calculated using Census 2016 LHO denominator data extracted from the HSE Health Atlas and are not a direct match to the corresponding CCAs.