



Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 05/11/2020

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 22/10/2020 up to midnight 04/11/2020

	Number	Percent
Total number of confirmed cases	9,625	
National incidence of confirmed cases per 100,000 population	202.13	
Number of cases hospitalised*	366	3.8
Number of cases admitted to ICU*	22	0.23
Number of deaths among confirmed cases	15	0.16
Case fatality ratio (CFR, %)	0.16	
National incidence of confirmed deaths per 100,000 population	0.32	
Number of cases** associated with clusters	2,154	22.38
Number of imported cases	8	0.08
Number of cases in healthcare workers	471	4.89
Males	4,667	48.49
Females	4,951	51.44
M:F ratio	0.94	
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
22/10/2020 - 04/11/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 11:37 on 05/11/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.

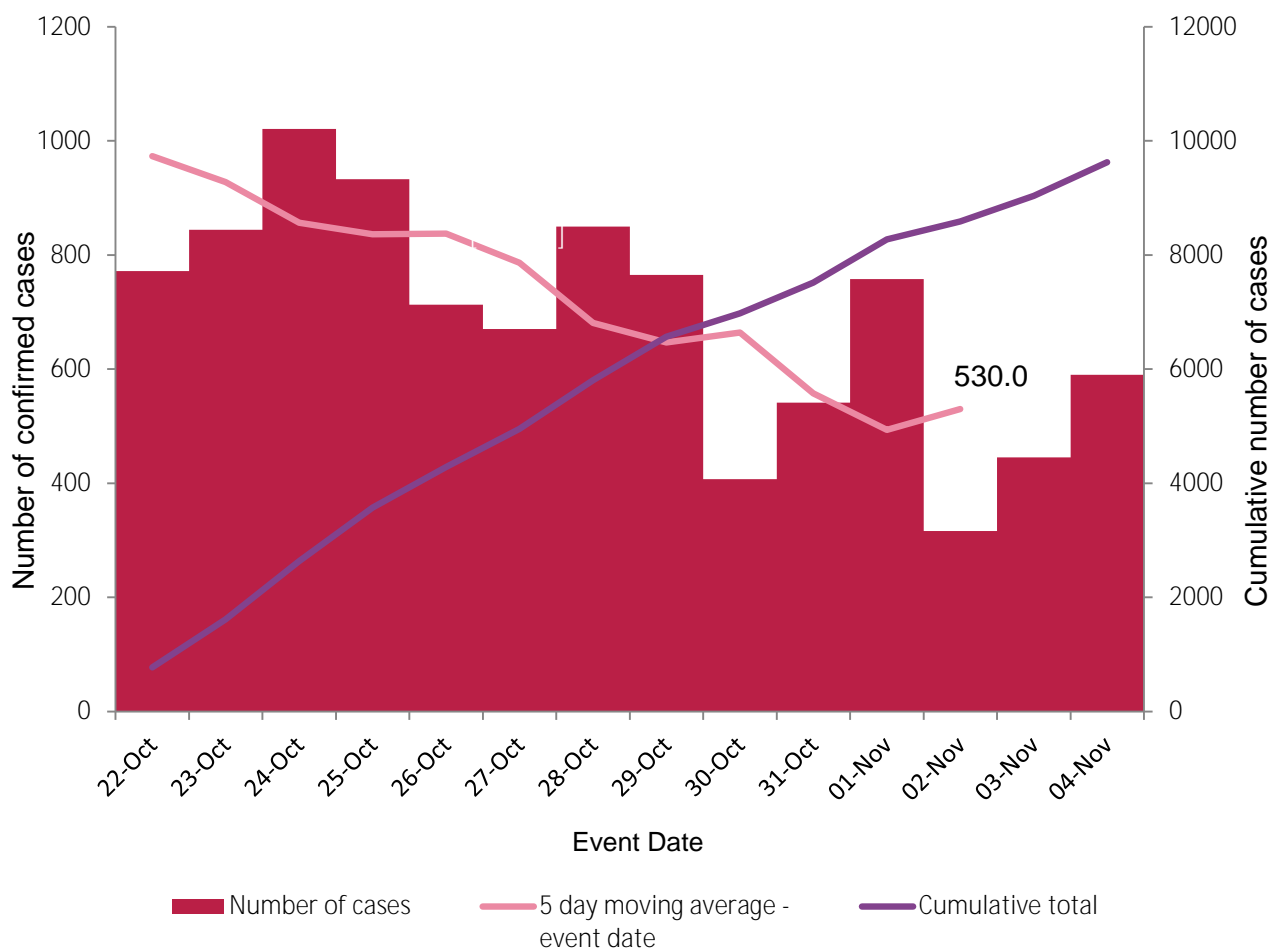


Figure 1 Daily number and cumulative number of confirmed cases of COVID-19, and 5 day moving average, by notification date from 22/10/2020 to midnight 04/11/2020 (n=9,625)

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 22/10/2020 up to midnight on 04/11/202

Characteristic		Number of cases	Percent
Total number of confirmed cases		9,625	100
Sex	Male:Female ratio	0.94	
	Male	4,667	48.49
	Female	4,951	51.44
	Unknown	7	0.07
Age	Median age (years)	34	
	Mean age (years)	36	
	Age range (years)	0 - 103	
	0-4 yrs	414	4.3
	5-12 yrs	792	8.23
	13-18 yrs	889	9.24
	19-24 yrs	1,323	13.75
	25-34 yrs	1,446	15.02
	35-44 yrs	1,392	14.46
	45-54 yrs	1,357	14.1
	55-64 yrs	993	10.32
	65-74 yrs	527	5.48
	75-84 yrs	314	3.26
	85+ yrs	176	1.83
	Unknown	2	0.02
Underlying clinical conditions	Yes	618	6.42
	No	7,072	73.48
	Unknown	1,935	20.1
Symptom status at time of test*	Yes	5,096	52.95
	No	2,369	24.61
	Unknown	2,160	22.44

*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.

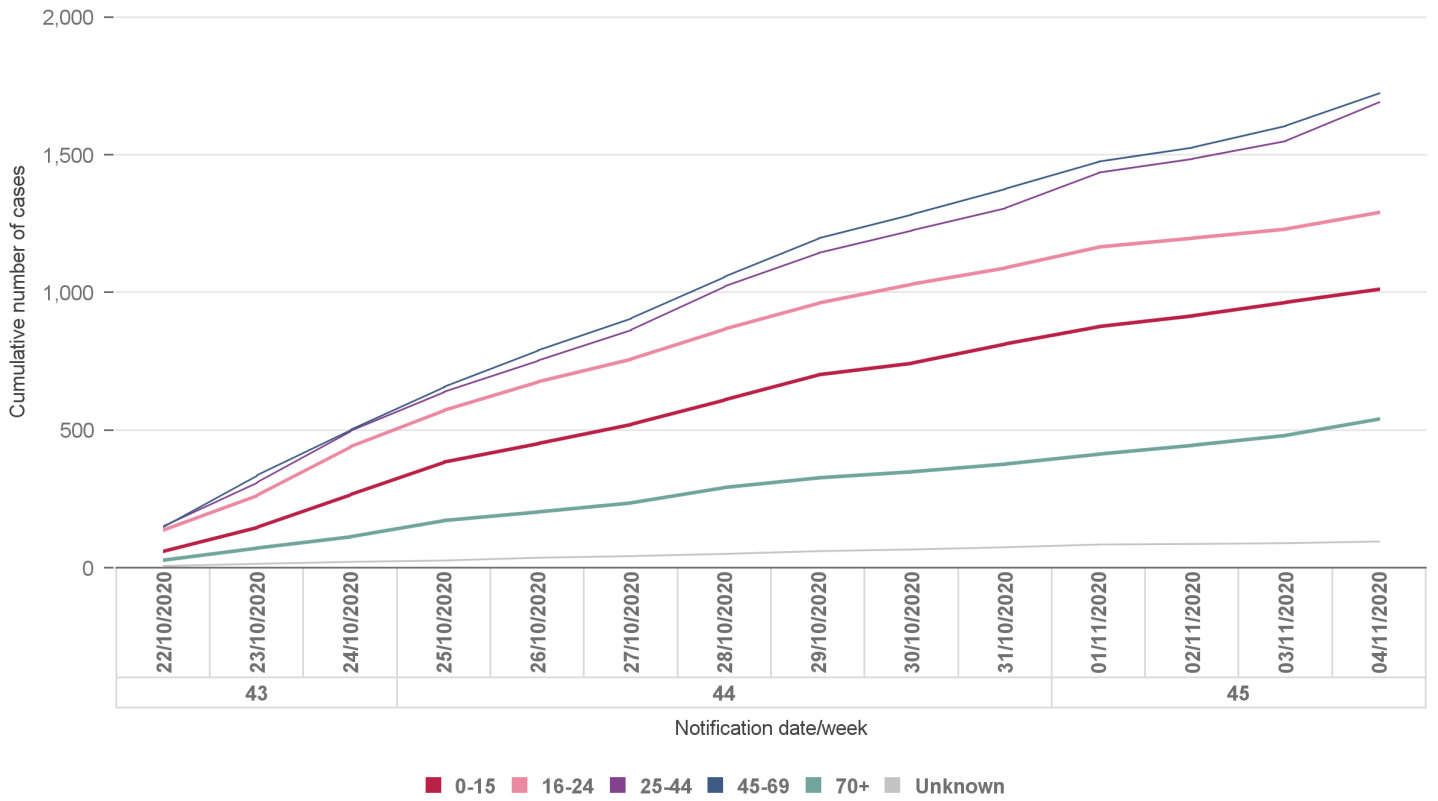


Figure 2: Cumulative number of confirmed COVID-19 cases notified in Ireland by date/week of notification and age group from 22/10/2020 to midnight 04/11/2020

Table 2: Characteristics of confirmed COVID-19 cases by county notified from 22/10/2020 to midnight 04/11/2020

County	Cases		M:F ratio	Median age (years)	Healthcare workers		Associated with clusters	
	N	%			N	%	N	%
Dublin	2,715	28.21	0.91	32	120	4.42	203	7.48
Cork	1,276	13.26	0.99	34	50	3.92	246	19.28
Meath	569	5.91	0.95	36	32	5.62	83	14.59
Galway	546	5.67	0.97	25	34	6.23	358	65.57
Donegal	478	4.97	1.12	37.5	23	4.81	202	42.26
Limerick	448	4.65	1.04	33	21	4.69	87	19.42
Kildare	393	4.08	0.84	38	15	3.82	38	9.67
Kerry	287	2.98	0.9	40	15	5.23	80	27.87
Louth	249	2.59	0.84	38	8	3.21	33	13.25
Mayo	237	2.46	0.87	41	24	10.13	134	56.54
Westmeath	225	2.34	0.81	34	15	6.67	25	11.11
Cavan	224	2.33	0.9	34.5	13	5.8	18	8.04
Waterford	219	2.28	0.87	37	7	3.2	131	59.82
Clare	217	2.25	1.03	32	4	1.84	11	5.07
Tipperary	211	2.19	0.83	41	15	7.11	53	25.12
Wexford	188	1.95	1.24	35	1	0.53	97	51.6
Sligo	168	1.75	1.05	27.5	7	4.17	67	39.88
Wicklow	152	1.58	0.97	40	7	4.61	10	6.58
Laois	142	1.48	0.92	40.5	16	11.27	29	20.42
Kilkenny	133	1.38	0.77	35	6	4.51	70	52.63
Roscommon	128	1.33	0.88	38	13	10.16	84	65.63
Carlow	124	1.29	0.85	34.5	6	4.84	65	52.42
Monaghan	109	1.13	1.14	38	4	3.67	8	7.34
Offaly	88	0.91	0.96	37.5	7	7.95	10	11.36
Longford	81	0.84	1.13	41	6	7.41	5	6.17
Leitrim	18	0.19	0.64	36.5	2	11.11	7	38.89
National	9,625	100	0.94	34	471	4.89	2,154	22.38

Table 3: Characteristics of confirmed COVID-19 cases by CHO notified from 22/10/2020 to midnight 04/11/2020

CHO Area	Cases		M:F ratio	Mean age (years)	Healthcare workers		Associated with clusters	
	N	%			N	%	N	%
CHO1	997	10.36	1.04	36	49	4.91	302	30.29
CHO2	911	9.46	0.93	37	71	7.79	576	63.23
CHO3	811	8.43	1.01	38	37	4.56	123	15.17
CHO4	1,563	16.24	0.98	37	65	4.16	326	20.86
CHO5	712	7.4	0.92	37	22	3.09	389	54.63
CHO6	505	5.25	1.02	36	22	4.36	39	7.72
CHO7	1,260	13.09	0.87	37	53	4.21	104	8.25
CHO8	1,371	14.24	0.91	38	85	6.2	187	13.64
CHO9	1,495	15.53	0.9	33	67	4.48	108	7.22
National	9,625	100	0.94	36	471	4.89	2,154	22.38

Table 4: Number of confirmed COVID-19 cases by most likely transmission source notified from 22/10/2020 to midnight 04/11/2020

Most likely transmission source	Number of cases	Percent
Travel related *	57	0.59%
Close contact with a known confirmed case	3,880	40.31%
Healthcare setting acquired: patient	194	2.02%
Healthcare setting acquired: staff	171	1.78%
Community transmission	1,375	14.29%
Under investigation	3,948	41.02%
Total	9,625	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 22/10/2020 to midnight 04/11/2020

CHO Area	Total number of confirmed cases	Incidence per 100,000 population
CHO1	997	
CHO2	911	
CHO3	811	
CHO4	1,563	
CHO5	712	
CHO6	505	
CHO7	1,260	
CHO8	1,371	
CHO9	1,495	
Unknown	0	
Total	9,625	

Table 6: Number of confirmed COVID-19 cases by county notified in Ireland from 22/10/2020 to midnight 04/11/2020

County	Total number of confirmed cases	Incidence per 100,000 population
Carlow	124	
Cavan	224	
Clare	217	
Cork	1,276	
Donegal	478	
Dublin	2,715	
Galway	546	
Kerry	287	
Kildare	393	
Kilkenny	133	
Laois	142	
Leitrim	18	
Limerick	448	
Longford	81	
Louth	249	
Mayo	237	
Meath	569	
Monaghan	109	
Offaly	88	
Roscommon	128	
Sligo	168	
Tipperary	211	
Waterford	219	
Westmeath	225	
Wexford	188	
Wicklow	152	
Total	9,625	

Table 7: Number of confirmed COVID-19 cases by country of infection notified from 22/10/2020 to midnight 04/11/2020

Country of infection	Number of cases	Percent
France	1	0.01%
Hungary	1	0.01%
India	1	0.01%
Iran, Islamic Republic of	1	0.01%
Ireland	4,494	46.69%
Not specified	5,014	52.09%
Pakistan	1	0.01%
Poland	1	0.01%
United kingdom	2	0.02%
Unknown	109	1.13%
Total	9,625	100.00%

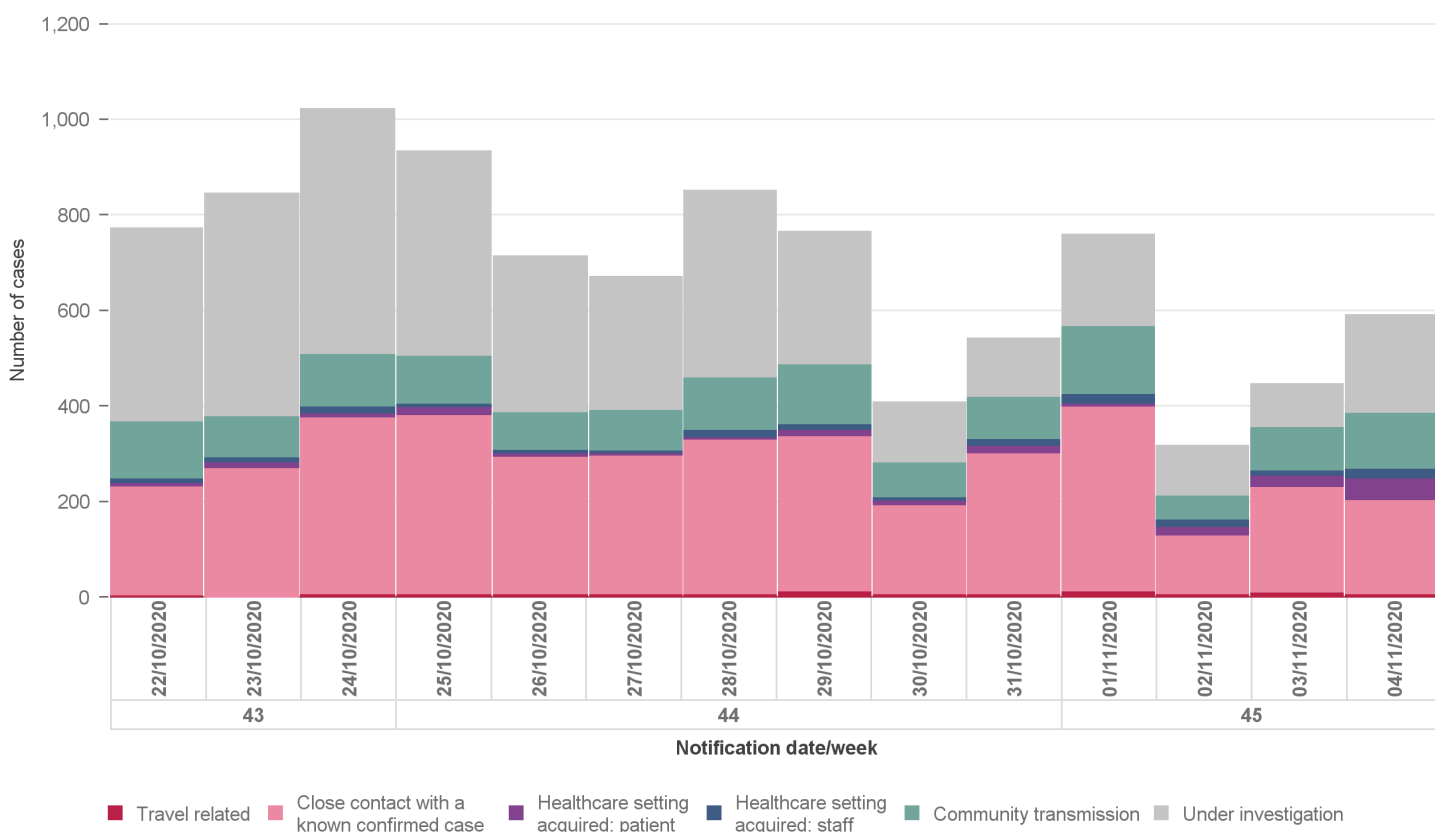


Figure 3: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and most likely transmission source from 22/10/2020 to midnight 04/11/2020

Table 8: Cumulative number of confirmed cases of COVID-19 notified in Ireland from 22/10/2020 to midnight 04/11/2020 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	414	5	1.37	0	0
5-12 yrs	792	8	2.19	0	0
13-18 yrs	889	7	1.91	0	0
19-24 yrs	1323	11	3.01	1	4.55
25-34 yrs	1446	18	4.92	0	0
35-44 yrs	1392	28	7.65	0	0
45-54 yrs	1357	38	10.38	4	18.18
55-64 yrs	993	36	9.84	2	9.09
65-74 yrs	527	79	21.58	10	45.45
75-84 yrs	314	94	25.68	4	18.18
85+ yrs	176	42	11.48	1	4.55
Unknown	2			0	0
Total	9,625	366	100	22	100

Table 9: Number and proportion of confirmed cases of COVID-19 notified in Ireland from 22/10/2020 to midnight 04/11/2020 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	Unknown
Number of cases (n)	414	792	889	1,323	1,446	1,392	1,357	993	527	314	176	2
Cases hospitalised (n)	5	8	7	11	18	28	38	36	79	94	42	
Cases hospitalised (%)	1.21	1.01	0.79	0.83	1.24	2.01	2.8	3.63	14.99	29.94	23.86	
Cases admitted to ICU (n)	0	0	0	1	0	0	4	2	10	4	1	0
Cases admitted to ICU (%)	0	0	0	0.08	0	0	0.29	0.2	1.9	1.27	0.57	0
Deaths (n)	0	0	0	0	0	0	0	1	5	5	4	0
Case fatality ratio (%)	0	0	0	0	0	0	0	0.1	0.95	1.59	2.27	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 22/10/2020 up to midnight on 04/11/2020**

Characteristic		Number of cases	Percent
Total number of sporadic confirmed cases		7,471	100
Sex	Male:Female ratio	0.97	
	Male	3,683	49.3
	Female	3,783	50.64
	Unknown	5	0.07
Age	Median age (years)	35	
	Mean age (years)	36	
	Age range (years)	0 - 103	
	0-4 yrs	287	3.84
	5-12 yrs	562	7.52
	13-18 yrs	664	8.89
	19-24 yrs	1,006	13.47
	25-34 yrs	1,213	16.24
	35-44 yrs	1,128	15.1
	45-54 yrs	1,077	14.42
	55-64 yrs	799	10.69
	65-74 yrs	429	5.74
	75-84 yrs	222	2.97
	85+ yrs	82	1.1
	Unknown	2	0.03
		Number of HCW	312
	Number hospitalised*	290	3.88
	Number admitted to ICU*	16	0.21
	Number of deaths	13	0.17
	Number with underlying condition	464	6.21
Most likely transmission source	Travel related	52	0.7
	Close contact with a known confirmed case	2,906	38.9
	Healthcare setting acquired: patient	72	0.96
	Healthcare setting acquired: staff	69	0.92
	Community transmission	1,192	15.96
	Under investigation	3,180	42.56

* 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 22/10/2020 up to midnight 04/11/2020

	Number	Percent
Total number of deaths	18	
Confirmed	15	83.33
Possible	3	16.67
Total number of cases hospitalised	12	66.67
Cases admitted to ICU	3	16.67
Cases not admitted to ICU	9	50
Total number of imported cases	1	5.56
Number of cases in healthcare workers	0	
Number with underlying clinical conditions	8	44.44
Total number of male cases	13	72.22
M:F ratio	2.6	
Median age (years)	78	
Mean age (years)	78	
Age range (years)	64 - 92	

Table 12: Number of deaths in all COVID-19 cases by sex and age group notified in Ireland from 22/10/2020 up to midnight 04/11/2020

Age group (years)	Female	Male	Total	Percent
55-64 yrs	1		1	5.56
65-74 yrs	3	4	7	38.89
75-84 yrs		6	6	33.33
85+ yrs	1	3	4	22.22
Total	5	13	18	100
Percent	27.78	72.22		

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 11:37 on 05/11/2020. 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

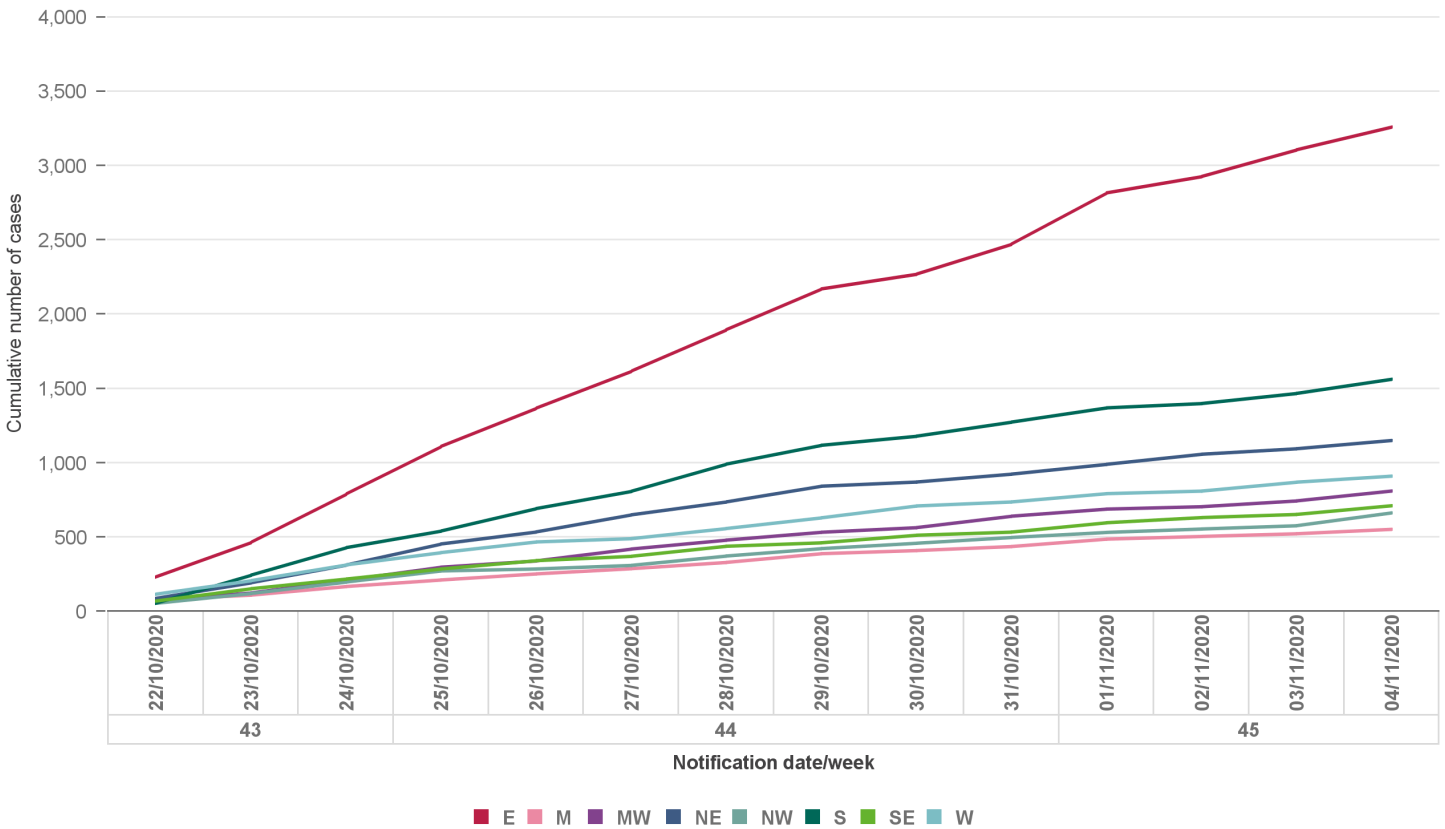


Figure A: Cumulative number of confirmed COVID-19 cases notified in Ireland by date/week of notification and HSE area from 22/10/2020 to midnight 04/11/2020

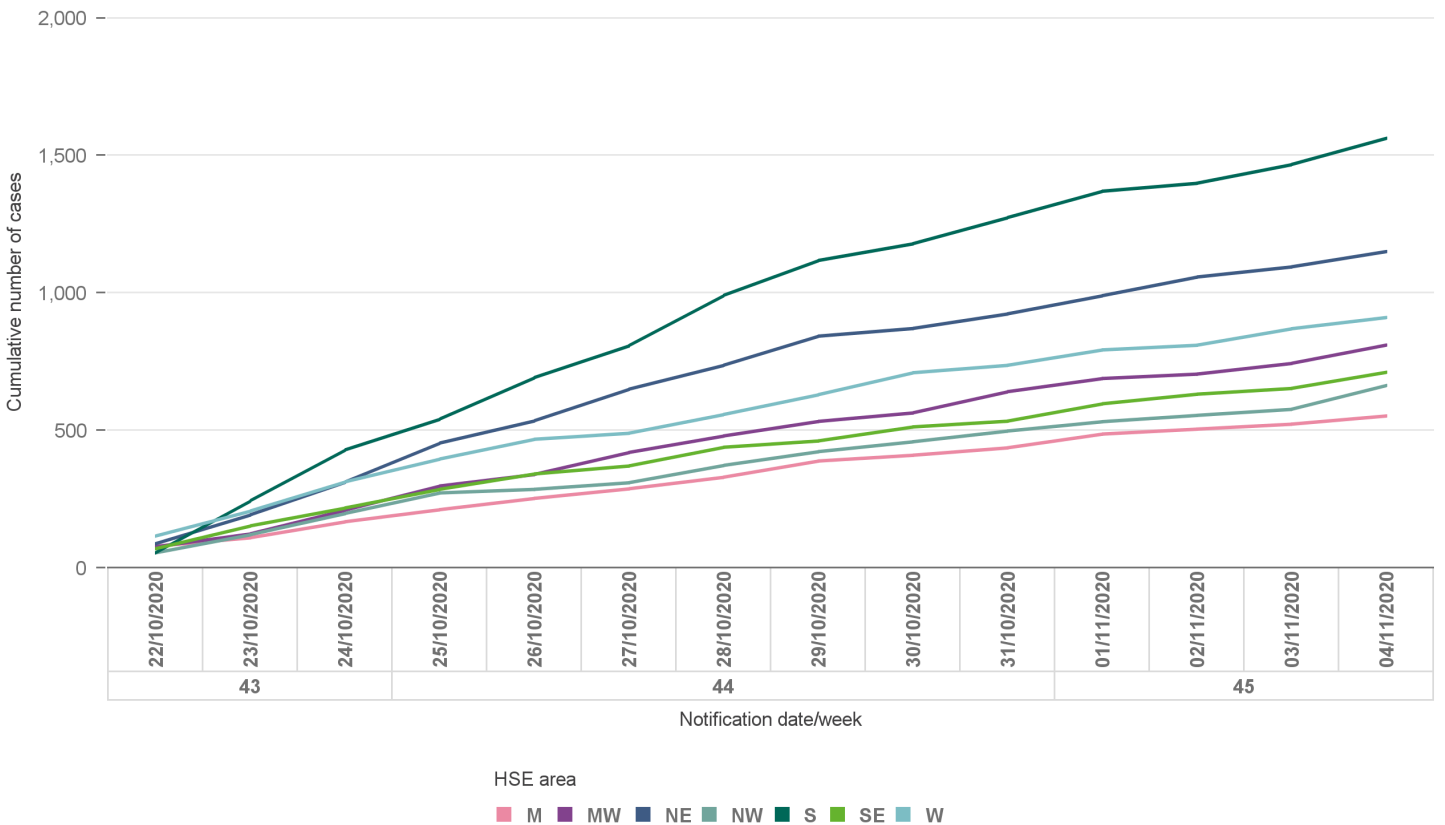


Figure B: Cumulative number of confirmed COVID-19 cases notified in Ireland by date/week of notification and HSE area (excluding HSE East) from 22/10/2020 to midnight 04/11/2020

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 22/10/2020 to midnight 04/11/2020

Week	Date	E	M	MW	NE	NW	S	SE	W	Total
43	22/10/2020	232	79	77	88	55	55	70	116	772
43	23/10/2020	232	31	47	105	66	189	83	91	844
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	41	42	81	13	151	56	72	713
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	275	59	53	106	50	127	23	72	765
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	23	29	35	17	316
45	03/11/2020	180	18	39	37	22	68	21	60	445
45	04/11/2020	154	30	67	56	87	96	59	41	590

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

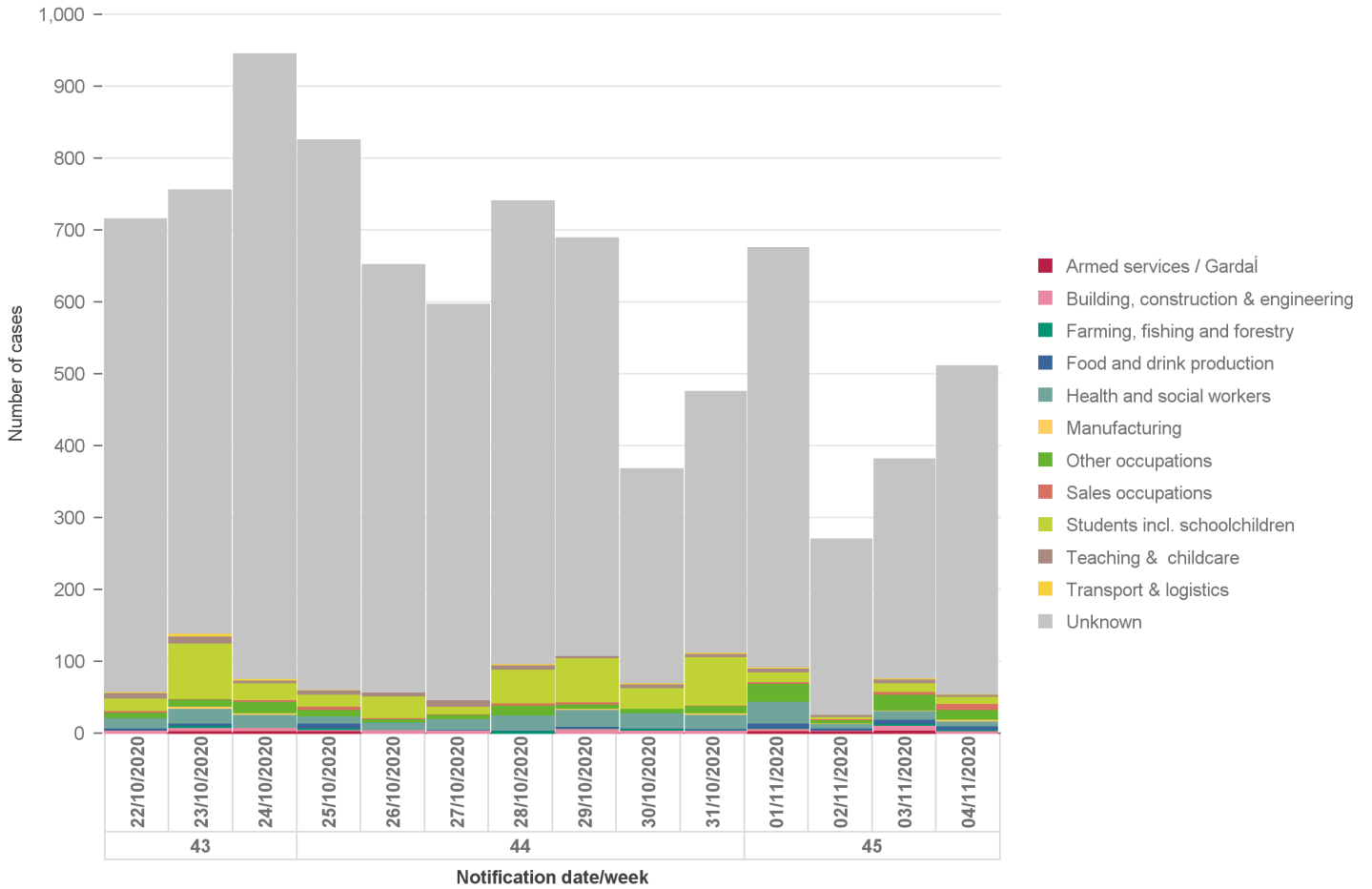


Figure C: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and occupation* from 22/10/2020 to midnight 04/11/2020

*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

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

Date of Death	Count of deaths	Cumulative count deaths_All Deaths
19/10/2020	1	1
22/10/2020	2	3
23/10/2020	1	4
24/10/2020	1	5
25/10/2020	2	7
26/10/2020	3	10
27/10/2020	1	11
31/10/2020	1	12
01/11/2020	1	13
02/11/2020	3	16
03/11/2020	2	18
Total	18	

Week	Date	Count of cas	Count of cas
43	22/10/2020	772	927
43	23/10/2020	844	836
43	24/10/2020	1,021	857
44	25/10/2020	933	471
44	26/10/2020	713	550
44	27/10/2020	670	623
44	28/10/2020	850	582
44	29/10/2020	765	492
44	30/10/2020	407	491
44	31/10/2020	541	369
45	01/11/2020	758	266
45	02/11/2020	316	252
45	03/11/2020	445	278
45	04/11/2020	590	107
	Sum:	9,625	7,101

Event Creatio	Total number
22/10/2020	772
23/10/2020	844
24/10/2020	1,021
25/10/2020	933
26/10/2020	713
27/10/2020	670
28/10/2020	850
29/10/2020	765
30/10/2020	407
31/10/2020	541
01/11/2020	758
02/11/2020	316
03/11/2020	445
04/11/2020	590

Tota

number

9,625

County Name	Total number	CCA Name
Dublin	116	CCA1
Dublin	241	CCA2
Dublin	187	CCA3
Dublin	294	CCA4
Dublin	382	CCA5
Dublin	578	CCA6
Dublin	365	CCA7
Dublin	552	CCA8
Sum:	2,715	

County	Cases	Associated with clusters	Cases excluding OBs
Carlow	124	65	59
Cavan	224	18	206
Clare	217	11	206
Cork	1,276	246	1,030
Donegal	478	202	276
Dublin	2,715	203	2,512
Galway	546	358	188
Kerry	287	80	207
Kildare	393	38	355
Kilkenny	133	70	63
Laois	142	29	113
Leitrim	18	7	11
Limerick	448	87	361
Longford	81	5	76
Louth	249	33	216
Mayo	237	134	103
Meath	569	83	486
Monaghan	109	8	101
Offaly	88	10	78
Roscommon	128	84	44
Sligo	168	67	101
Tipperary	211	53	158
Waterford	219	131	88
Westmeath	225	25	200
Wexford	188	97	91
Wicklow	152	10	142
Sum:	9,625	2,154	7,471