



Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 11/11/2020

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 28/10/2020 up to midnight 10/11/2020

	Number	Percent
Total number of confirmed cases	6,904	
National incidence of confirmed cases per 100,000 population	144.99	
Number of cases hospitalised*	382	5.53
Number of cases admitted to ICU*	25	0.36
Number of deaths among confirmed cases	14	0.2
Case fatality ratio (CFR, %)	0.2	
National incidence of confirmed deaths per 100,000 population	0.29	
Number of cases** associated with clusters	2,232	32.33
Number of imported cases	9	0.13
Number of cases in healthcare workers	574	8.31
Males	3,335	48.31
Females	3,557	51.52
M:F ratio	0.94	
Median age (years)	36	
Mean age (years)	38	
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
28/10/2020 - 10/11/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 11:19 on 11/11/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.

Note 2: Due to the large volume of COVID-19 cases in recent days, the collection of surveillance data has been considerably reduced. Consequently, HPSC is currently producing an abridged version of the 14 day report.

Figure 1. Daily number and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date from 28/10/2020 to midnight 10/11/2020 (n=6,904)

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 28/10/2020 up to midnight on 10/11/202

Characteristic		Number of cases	Percent
Total number of confirmed cases		6,904	100
Sex	Male:Female ratio	0.94	
	Male	3,335	48.31
	Female	3,557	51.52
	Unknown	12	0.17
Age	Median age (years)	36	
	Mean age (years)	38	
	Age range (years)	0 - 103	
	0-4 yrs	285	4.13
	5-12 yrs	567	8.21
	13-18 yrs	562	8.14
	19-24 yrs	842	12.2
	25-34 yrs	1,081	15.66
	35-44 yrs	1,046	15.15
	45-54 yrs	1,005	14.56
	55-64 yrs	657	9.52
	65-74 yrs	421	6.1
	75-84 yrs	261	3.78
	85+ yrs	175	2.53
	Unknown	2	0.03
Underlying clinical conditions	Yes	1,105	16.01
	No	4,736	68.6
	Unknown	1,063	15.4
Symptom status at time of test*	Yes	3,893	56.39
	No	1,784	25.84
	Unknown	1,227	17.77

*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.

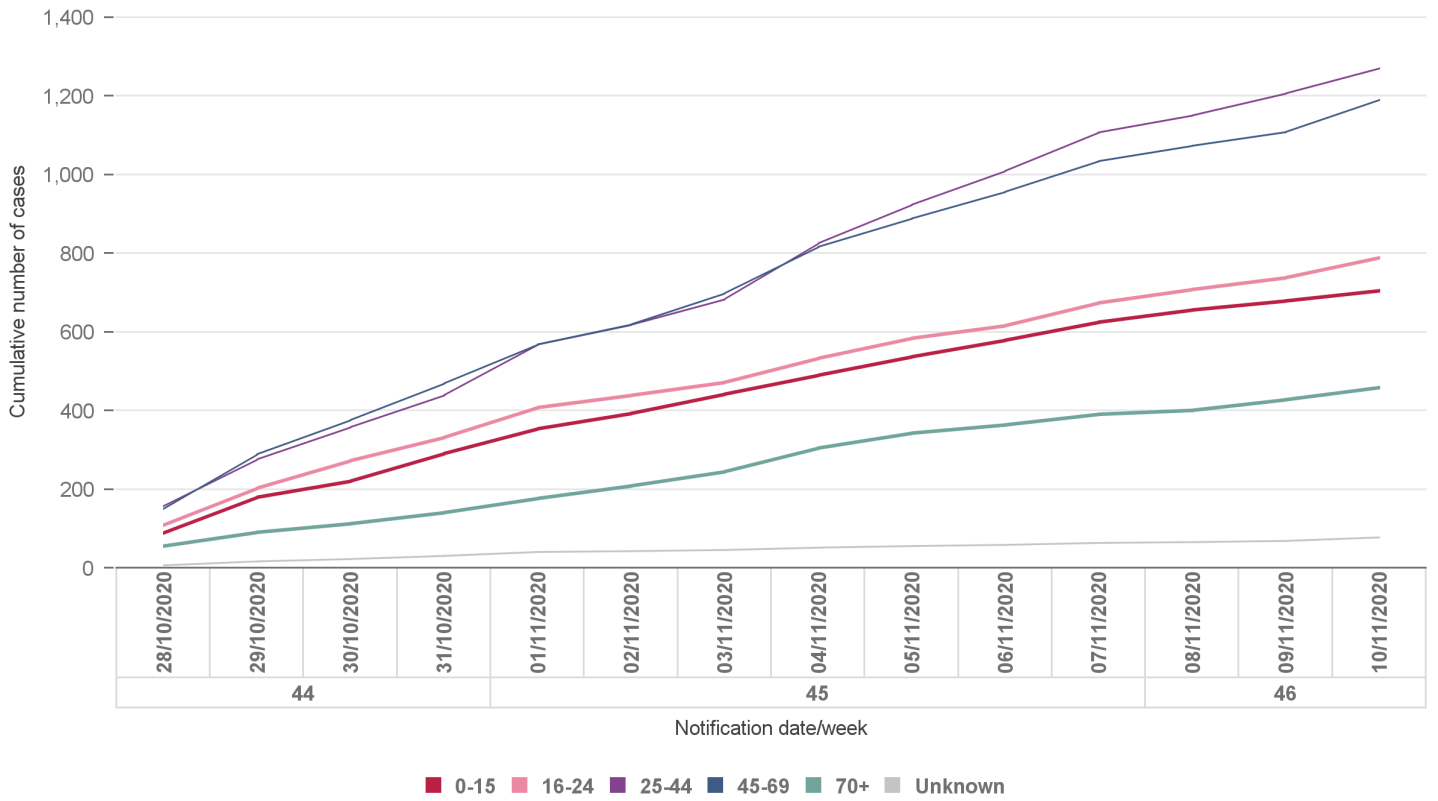


Figure 2: Cumulative number of confirmed COVID-19 cases notified in Ireland by date/week of notification and age group from 28/10/2020 to midnight 10/11/2020

Table 2: Characteristics of confirmed COVID-19 cases by county notified from 28/10/2020 to midnight 10/11/2020

County	Cases		M:F ratio	Median age (years)	Healthcare workers		Associated with clusters	
	N	%			N	%	N	%
Dublin	2,083	30.17	0.93	33	169	8.11	435	20.88
Cork	793	11.49	0.9	36	49	6.18	226	28.5
Donegal	479	6.94	1.06	38	53	11.06	212	44.26
Limerick	392	5.68	1.14	30	37	9.44	58	14.8
Meath	336	4.87	0.88	34	24	7.14	103	30.65
Galway	279	4.04	0.86	32	29	10.39	203	72.76
Kildare	225	3.26	1.05	40	18	8	40	17.78
Kerry	209	3.03	1.03	44	16	7.66	94	44.98
Louth	203	2.94	0.75	39	27	13.3	69	33.99
Mayo	198	2.87	0.94	36.5	19	9.6	137	69.19
Tipperary	188	2.72	0.92	42	18	9.57	68	36.17
Waterford	158	2.29	0.86	38	7	4.43	99	62.66
Clare	146	2.11	0.9	43	14	9.59	33	22.6
Westmeath	144	2.09	0.85	29	9	6.25	50	34.72
Kilkenny	132	1.91	0.91	37	8	6.06	68	51.52
Laois	125	1.81	1.16	41	7	5.6	35	28
Roscommon	109	1.58	0.88	39	21	19.27	79	72.48
Wicklow	102	1.48	0.89	49	5	4.9	24	23.53
Cavan	101	1.46	0.68	33	6	5.94	16	15.84
Sligo	101	1.46	1.15	29	9	8.91	44	43.56
Wexford	101	1.46	1.24	35	3	2.97	62	61.39
Offaly	88	1.27	0.65	45.5	13	14.77	16	18.18
Monaghan	77	1.12	0.93	36	2	2.6	15	19.48
Carlow	65	0.94	1.03	34	3	4.62	34	52.31
Longford	57	0.83	0.97	41	7	12.28	9	15.79
Leitrim	13	0.19	0.44	40	1	7.69	3	23.08
National	6,904	100	0.94	36	574	8.31	2,232	32.33

Table 3: Characteristics of confirmed COVID-19 cases by CHO notified from 28/10/2020 to midnight 10/11/2020

CHO Area	Cases		M:F ratio	Mean age (years)	Healthcare workers		Associated with clusters	
	N	%			N	%	N	%
CHO1	771	11.17	0.98	38	71	9.21	290	37.61
CHO2	586	8.49	0.89	39	69	11.77	419	71.5
CHO3	648	9.39	1.04	37	62	9.57	115	17.75
CHO4	1,002	14.51	0.92	38	65	6.49	320	31.94
CHO5	529	7.66	0.97	38	27	5.1	306	57.84
CHO6	387	5.61	0.93	41	35	9.04	75	19.38
CHO7	880	12.75	0.96	38	73	8.3	168	19.09
CHO8	958	13.88	0.86	39	88	9.19	283	29.54
CHO9	1,143	16.56	0.93	33	84	7.35	256	22.4
National	6,904	100	0.94	38	574	8.31	2,232	32.33

Table 4: Number of confirmed COVID-19 cases by most likely transmission source notified from 28/10/2020 to midnight 10/11/2020

Most likely transmission source	Number of cases	Percent
Travel related *	76	1.10%
Close contact with a known confirmed case	3,344	48.44%
Healthcare setting acquired: patient	309	4.48%
Healthcare setting acquired: staff	274	3.97%
Community transmission	1,278	18.51%
Under investigation	1,623	23.51%
Total	6,904	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 28/10/2020 to midnight 10/11/2020

CHO Area	Total number of confirmed cases	Incidence per 100,000 population
CHO1	771	
CHO2	586	
CHO3	648	
CHO4	1,002	
CHO5	529	
CHO6	387	
CHO7	880	
CHO8	958	
CHO9	1,143	
Unknown	0	
Total	6,904	

Table 6: Number of confirmed COVID-19 cases by county notified in Ireland from 28/10/2020 to midnight 10/11/2020

County	Total number of confirmed cases	Incidence per 100,000 population
Carlow	65	
Cavan	101	
Clare	146	
Cork	793	
Donegal	479	
Dublin	2,083	
Galway	279	
Kerry	209	
Kildare	225	
Kilkenny	132	
Laois	125	
Leitrim	13	
Limerick	392	
Longford	57	
Louth	203	
Mayo	198	
Meath	336	
Monaghan	77	
Offaly	88	
Roscommon	109	
Sligo	101	
Tipperary	188	
Waterford	158	
Westmeath	144	
Wexford	101	
Wicklow	102	
Total	6,904	

Table 7: Number of confirmed COVID-19 cases by country of infection notified from 28/10/2020 to midnight 10/11/2020

Country of infection	Number of cases	Percent
India	1	0.01%
Iran, Islamic Republic of	1	0.01%
Ireland	3,684	53.36%
Isle of Man	1	0.01%
Not specified	3,157	45.73%
Poland	3	0.04%
Spain	1	0.01%
Sweden	1	0.01%
United kingdom	1	0.01%
Unknown	54	0.78%
Total	6,904	100.00%

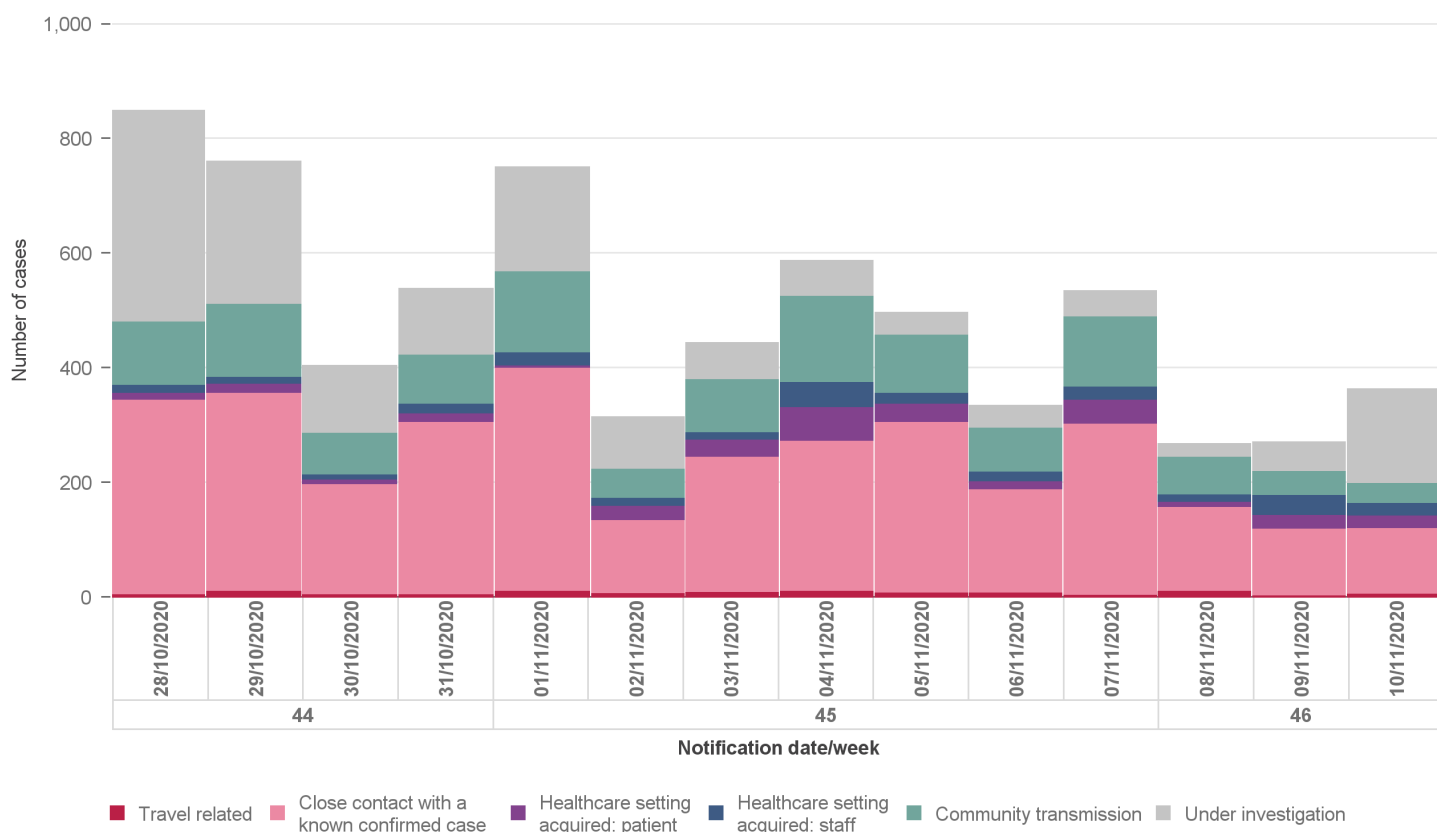


Figure 3: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and most likely transmission source from 28/10/2020 to midnight 10/11/2020

Table 8: Cumulative number of confirmed cases of COVID-19 notified in Ireland from 28/10/2020 to midnight 10/11/2020 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	285	6	1.57	0	0
5-12 yrs	567	5	1.31	0	0
13-18 yrs	562	6	1.57	0	0
19-24 yrs	842	10	2.62	2	8
25-34 yrs	1081	22	5.76	0	0
35-44 yrs	1046	35	9.16	2	8
45-54 yrs	1005	38	9.95	3	12
55-64 yrs	657	36	9.42	2	8
65-74 yrs	421	81	21.2	9	36
75-84 yrs	261	94	24.61	7	28
85+ yrs	175	49	12.83	0	0
Unknown	2			0	0
Total	6,904	382	100	25	100

Table 9: Number and proportion of confirmed cases of COVID-19 notified in Ireland from 28/10/2020 to midnight 10/11/2020 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)	285	567	562	842	1,081	1,046	1,005	657	421	261	175	2
Cases hospitalised (n)	6	5	6	10	22	35	38	36	81	94	49	
Cases hospitalised (%)	2.11	0.88	1.07	1.19	2.04	3.35	3.78	5.48	19.24	36.02	28	
Cases admitted to ICU (n)	0	0	0	2	0	2	3	2	9	7	0	0
Cases admitted to ICU (%)	0	0	0	0.24	0	0.19	0.3	0.3	2.14	2.68	0	0
Deaths (n)	0	0	0	0	0	0	1	0	4	7	2	0
Case fatality ratio (%)	0	0	0	0	0	0	0.1	0	0.95	2.68	1.14	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 28/10/2020 up to midnight on 10/11/2020**

Characteristic		Number of cases	Percent	
Total number of sporadic confirmed cases		4,672	100	
Sex	Male:Female ratio	0.99		
	Male	2,317	49.59	
	Female	2,345	50.19	
	Unknown	10	0.21	
Age	Median age (years)	35		
	Mean age (years)	37		
	Age range (years)	0 - 103		
	0-4 yrs	173	3.7	
	5-12 yrs	349	7.47	
	13-18 yrs	382	8.18	
	19-24 yrs	574	12.29	
	25-34 yrs	820	17.55	
	35-44 yrs	759	16.25	
	45-54 yrs	687	14.7	
	55-64 yrs	460	9.85	
	65-74 yrs	295	6.31	
	75-84 yrs	124	2.65	
	85+ yrs	48	1.03	
	Unknown	1	0.02	
		Number of HCW	324	6.93
		Number hospitalised*	217	4.64
	Number admitted to ICU*	19	0.41	
	Number of deaths	5	0.11	
	Number with underlying condition	711	15.22	
Most likely transmission source	Travel related	64	1.37	
	Close contact with a known confirmed case	2,261	48.39	
	Healthcare setting acquired: patient	75	1.61	
	Healthcare setting acquired: staff	114	2.44	
	Community transmission	1,027	21.98	
	Under investigation	1,131	24.21	

* 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 28/10/2020 up to midnight 10/11/2020

	Number	Percent
Total number of deaths	14	
Confirmed	14	100
Total number of cases hospitalised	11	78.57
Cases admitted to ICU	2	14.29
Cases not admitted to ICU	9	64.29
Total number of imported cases	0	
Number of cases in healthcare workers	0	
Number with underlying clinical conditions	9	64.29
Total number of male cases	9	64.29
M:F ratio	1.8	
Median age (years)	78	
Mean age (years)	77	
Age range (years)	47 - 98	

Table 12: Number of deaths in all COVID-19 cases by sex and age group notified in Ireland from 28/10/2020 up to midnight 10/11/2020

Age group (years)	Female	Male	Total	Percent
45-54 yrs	1		1	7.14
65-74 yrs	2	2	4	28.57
75-84 yrs	1	6	7	50
85+ yrs	1	1	2	14.29
Total	5	9	14	100
Percent	35.71	64.29		

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 11:19 on 11/11/2020. 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

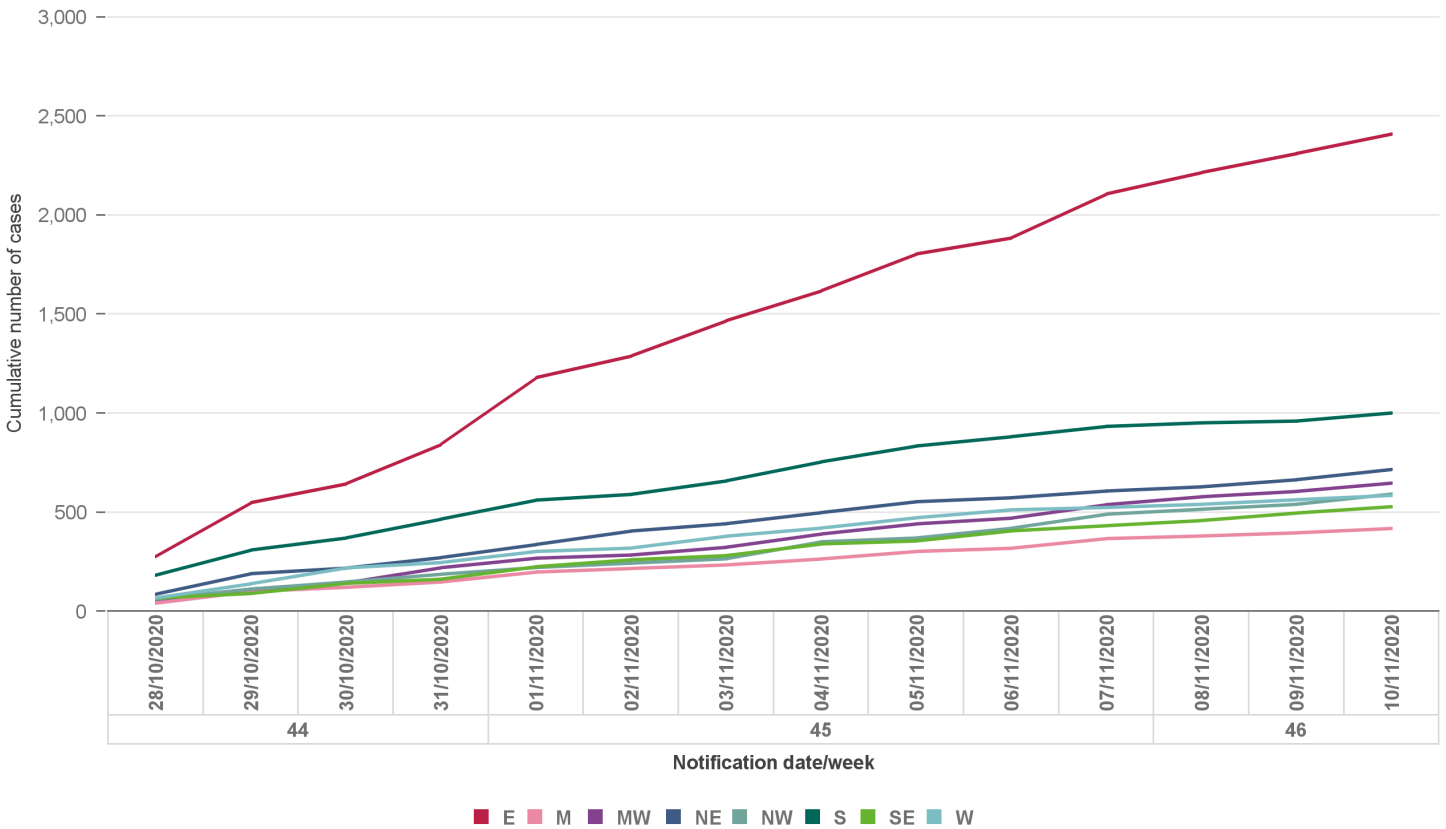


Figure A: Cumulative number of confirmed COVID-19 cases notified in Ireland by date/week of notification and HSE area from 28/10/2020 to midnight 10/11/2020

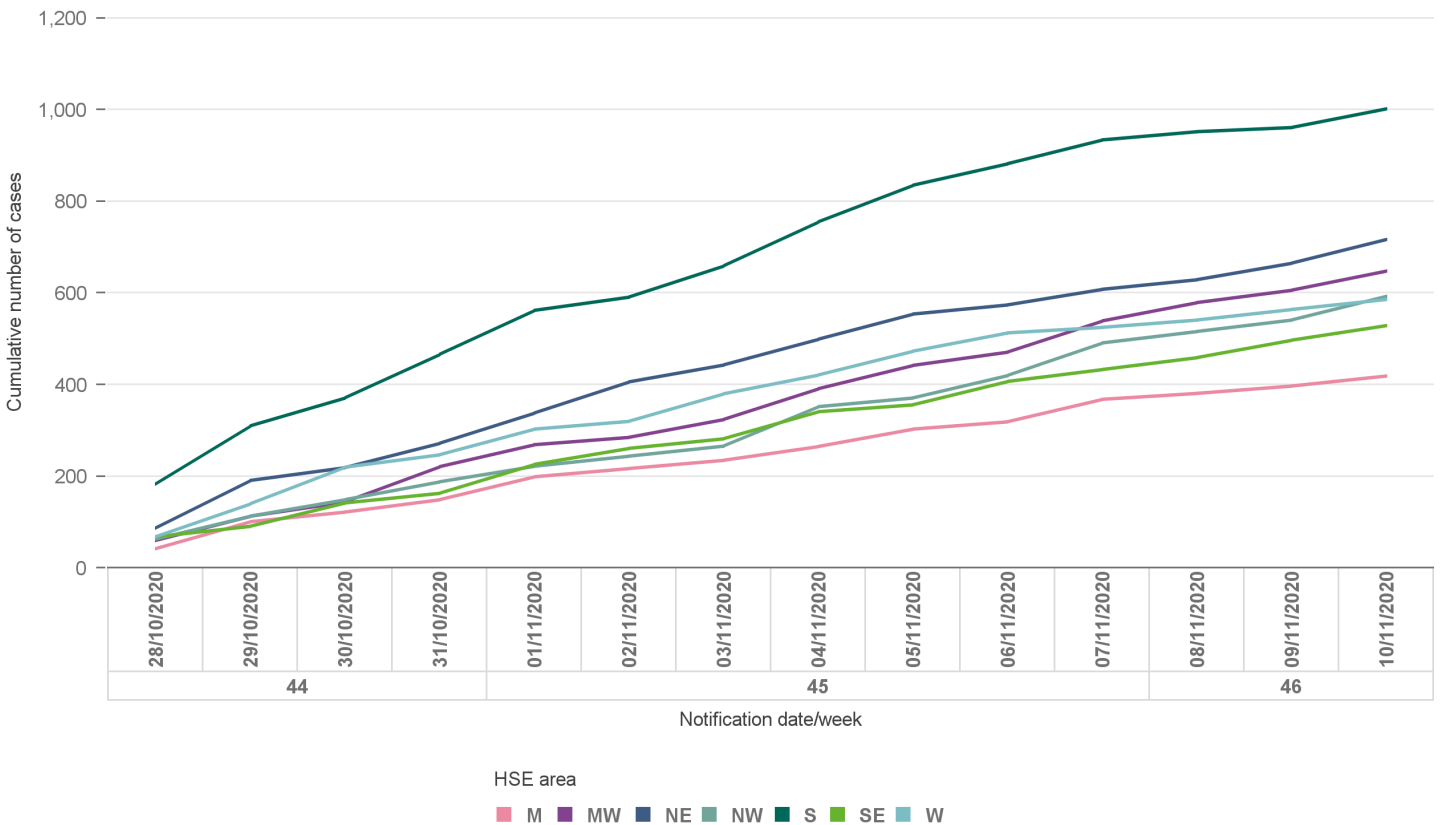


Figure B: Cumulative number of confirmed COVID-19 cases notified in Ireland by date/week of notification and HSE area (excluding HSE East) from 28/10/2020 to midnight 10/11/2020

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 28/10/2020 to midnight 10/11/2020

Week	Date	E	M	MW	NE	NW	S	SE	W	Total
44	28/10/2020	277	42	60	87	63	183	68	68	848
44	29/10/2020	272	59	53	104	50	127	23	72	760
44	30/10/2020	95	21	31	28	36	61	51	80	403
44	31/10/2020	199	27	77	53	39	95	21	27	538
45	01/11/2020	337	50	48	66	34	96	63	56	750
45	02/11/2020	109	18	16	68	22	29	35	17	314
45	03/11/2020	178	18	39	37	22	68	21	60	443
45	04/11/2020	151	30	67	56	86	96	59	41	586
45	05/11/2020	186	38	51	55	19	80	15	52	496
45	06/11/2020	81	16	29	20	49	47	51	40	333
45	07/11/2020	222	49	68	34	71	52	26	12	534
46	08/11/2020	108	13	40	21	25	18	26	16	267
46	09/11/2020	96	16	27	36	25	9	38	23	270
46	10/11/2020	99	22	42	52	52	41	32	22	362

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

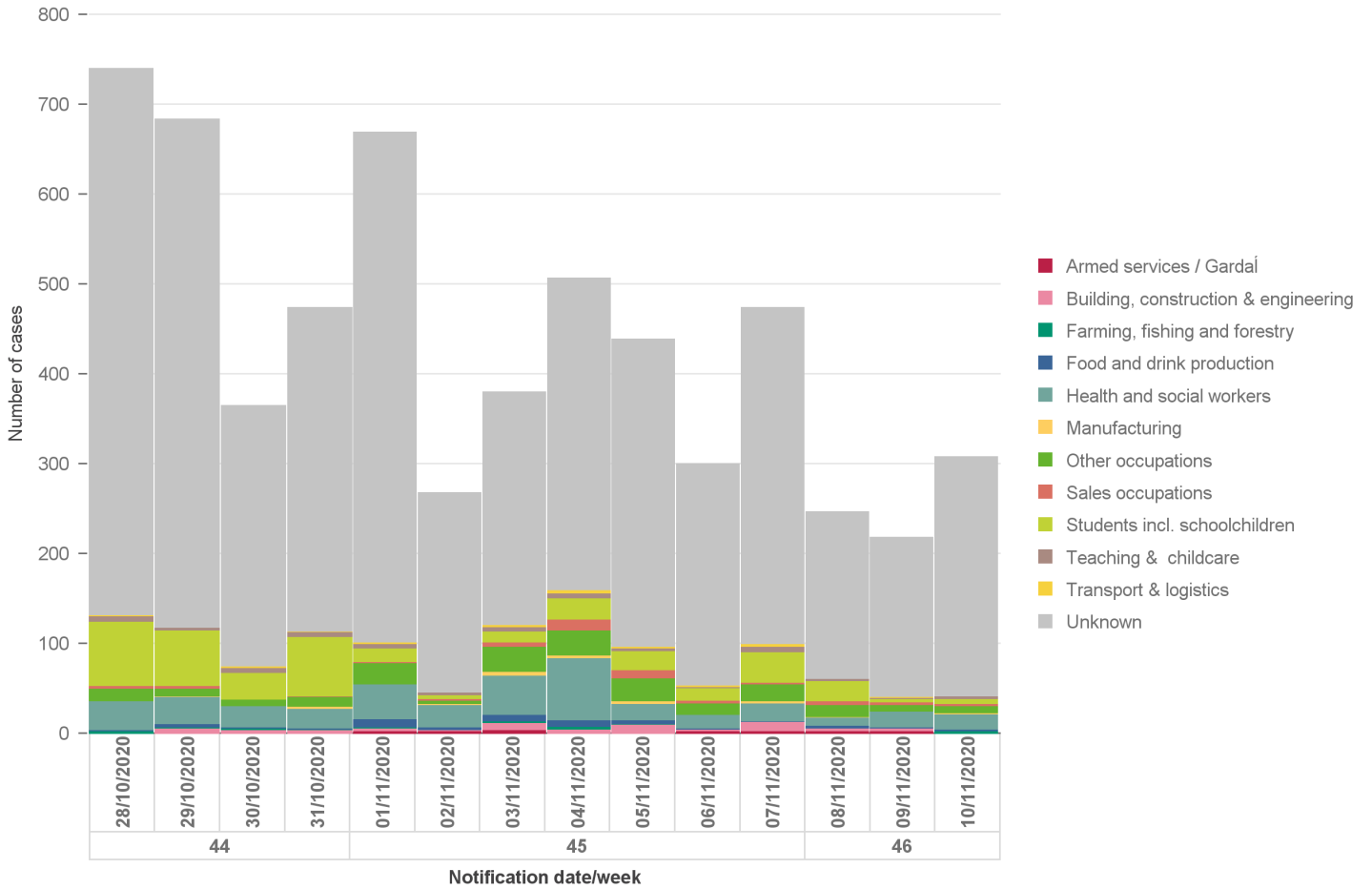


Figure C: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and occupation* from 28/10/2020 to midnight 10/11/2020

*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
25/10/2020	1	1
03/11/2020	2	3
05/11/2020	3	6
06/11/2020	2	8
07/11/2020	3	11
08/11/2020	3	14
Total	14	

Week	Date	Count of cas	Count of cas
44	28/10/2020	848	606
44	29/10/2020	760	531
44	30/10/2020	403	546
44	31/10/2020	538	446
45	01/11/2020	750	358
45	02/11/2020	314	458
45	03/11/2020	443	402
45	04/11/2020	586	394
45	05/11/2020	496	352
45	06/11/2020	333	255
45	07/11/2020	534	205
46	08/11/2020	267	131
46	09/11/2020	270	242
46	10/11/2020	362	33
	Sum:	6,904	4,959

Event Creatio	Total number
28/10/2020	848
29/10/2020	760
30/10/2020	403
31/10/2020	538
01/11/2020	750
02/11/2020	314
03/11/2020	443
04/11/2020	586
05/11/2020	496
06/11/2020	333
07/11/2020	534
08/11/2020	267
09/11/2020	270
10/11/2020	362

Total

number

6,904

County Name	Total number	CCA Name
Dublin	92	CCA1
Dublin	195	CCA2
Dublin	132	CCA3
Dublin	238	CCA4
Dublin	283	CCA5
Dublin	435	CCA6
Dublin	298	CCA7
Dublin	410	CCA8
Sum:	2,083	

County	Cases	Associated with clusters	Cases excluding OBs
Carlow	65	34	31
Cavan	101	16	85
Clare	146	33	113
Cork	793	226	567
Donegal	479	212	267
Dublin	2,083	435	1,648
Galway	279	203	76
Kerry	209	94	115
Kildare	225	40	185
Kilkenny	132	68	64
Laois	125	35	90
Leitrim	13	3	10
Limerick	392	58	334
Longford	57	9	48
Louth	203	69	134
Mayo	198	137	61
Meath	336	103	233
Monaghan	77	15	62
Offaly	88	16	72
Roscommon	109	79	30
Sligo	101	44	57
Tipperary	188	68	120
Waterford	158	99	59
Westmeath	144	50	94
Wexford	101	62	39
Wicklow	102	24	78
Sum:	6,904	2,232	4,672