



Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 04/11/2020

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 21/10/2020 up to midnight 03/11/2020

	Number	Percent
Total number of confirmed cases	10,127	
National incidence of confirmed cases per 100,000 population	212.67	
Number of cases hospitalised*	360	3.55
Number of cases admitted to ICU*	23	0.23
Number of deaths among confirmed cases	19	0.19
Case fatality ratio (CFR, %)	0.19	
National incidence of confirmed deaths per 100,000 population	0.4	
Number of cases** associated with clusters	2,031	20.06
Number of imported cases	8	0.08
Number of cases in healthcare workers	463	4.57
Males	4,937	48.75
Females	5,183	51.18
M:F ratio	0.95	
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
21/10/2020 - 03/11/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 11:22 on 04/11/2020 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.

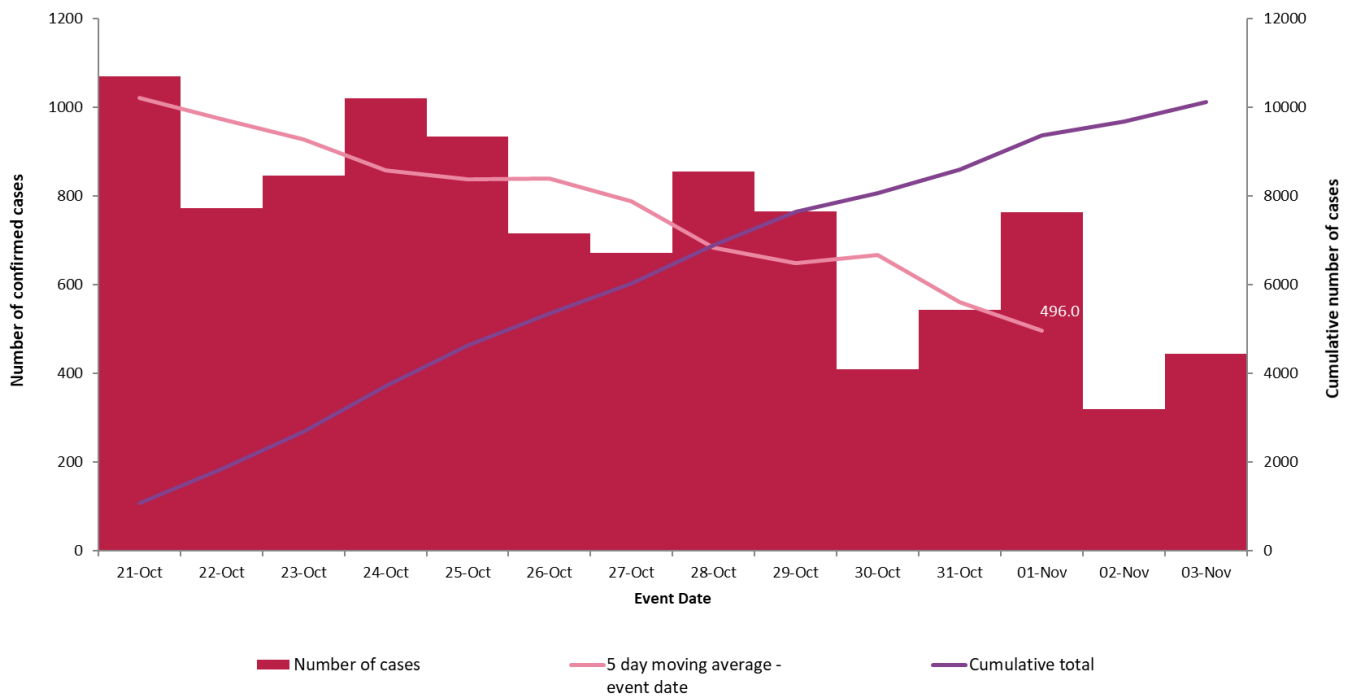


Figure 1. Daily number and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date from 21/10/2020 to midnight 03/11/2020 (n=10,127)

Table 2: Number of confirmed COVID-19 cases by community healthcare organisation (CHO) notified in Ireland from 21/10/2020 to midnight 03/11/2020

CHO Area	Number of confirmed cases	Incidence per 100,000 population	95% CI	
CHO1	1070	273.5	257.3	290.3
CHO2	1027	226.7	213.0	241.0
CHO3	806	209.4	195.1	224.3
CHO4	1588	230.0	218.8	241.5
CHO5	737	144.4	134.2	155.2
CHO6	530	138.3	126.8	150.6
CHO7	1308	184.8	174.9	195.1
CHO8	1486	240.0	227.9	252.5
CHO9	1569	252.5	240.2	265.3
Unknown	6			
Total	10,127	212.7	208.5	216.8

Table 3: Number of confirmed COVID-19 cases by county notified in Ireland from 21/10/2020 to midnight 03/11/2020

County	Number of confirmed cases	Incidence per 100,000 population	95% CI	
Cavan	278	364.9	323.3	410.5
Meath	630	323.0	298.3	349.2
Donegal	456	286.4	260.8	314.0
Sligo	186	283.8	244.5	327.7
Westmeath	234	263.6	230.9	299.6
Carlow	140	245.9	206.9	290.2
Cork	1323	243.7	230.7	257.2
Galway	628	243.4	224.7	263.2
Limerick	444	227.8	207.1	250.0
Roscommon	144	223.1	188.2	262.7
Louth	286	221.9	196.9	249.2
Dublin	2849	211.5	203.8	219.4
Monaghan	128	208.5	174.0	247.9
Mayo	255	195.4	172.1	220.9
Waterford	226	194.5	170.0	221.6
Clare	223	187.7	163.9	214.0
Kildare	415	186.5	169.0	205.4
Longford	76	185.9	146.5	232.7
Kerry	265	179.4	158.5	202.4
Laois	150	177.1	149.9	207.8
Kilkenny	135	136.0	114.1	161.0
Tipperary	208	130.4	113.2	149.3
Wexford	185	123.6	106.4	142.7
Offaly	92	118.0	95.1	144.7
Wicklow	149	104.6	88.5	122.8
Leitrim	22	68.7	43.0	103.9
Total	10,127	212.7	208.5	216.8

Figure 2: Cumulative incidence rates of confirmed COVID-19 cases per 100,000 population by county notified in Ireland between 21/10/2020 and 03/11/2020

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.

Table 7: Number of confirmed COVID-19 cases by country of infection notified from 21/10/2020 to midnight 03/11/2020

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	4,705	46.46%
Isle of Man	1	0.01%
Not specified	5,305	52.38%
Pakistan	1	0.01%
Poland	1	0.01%
United kingdom	1	0.01%
Unknown	109	1.08%
Total	10,127	100.00%

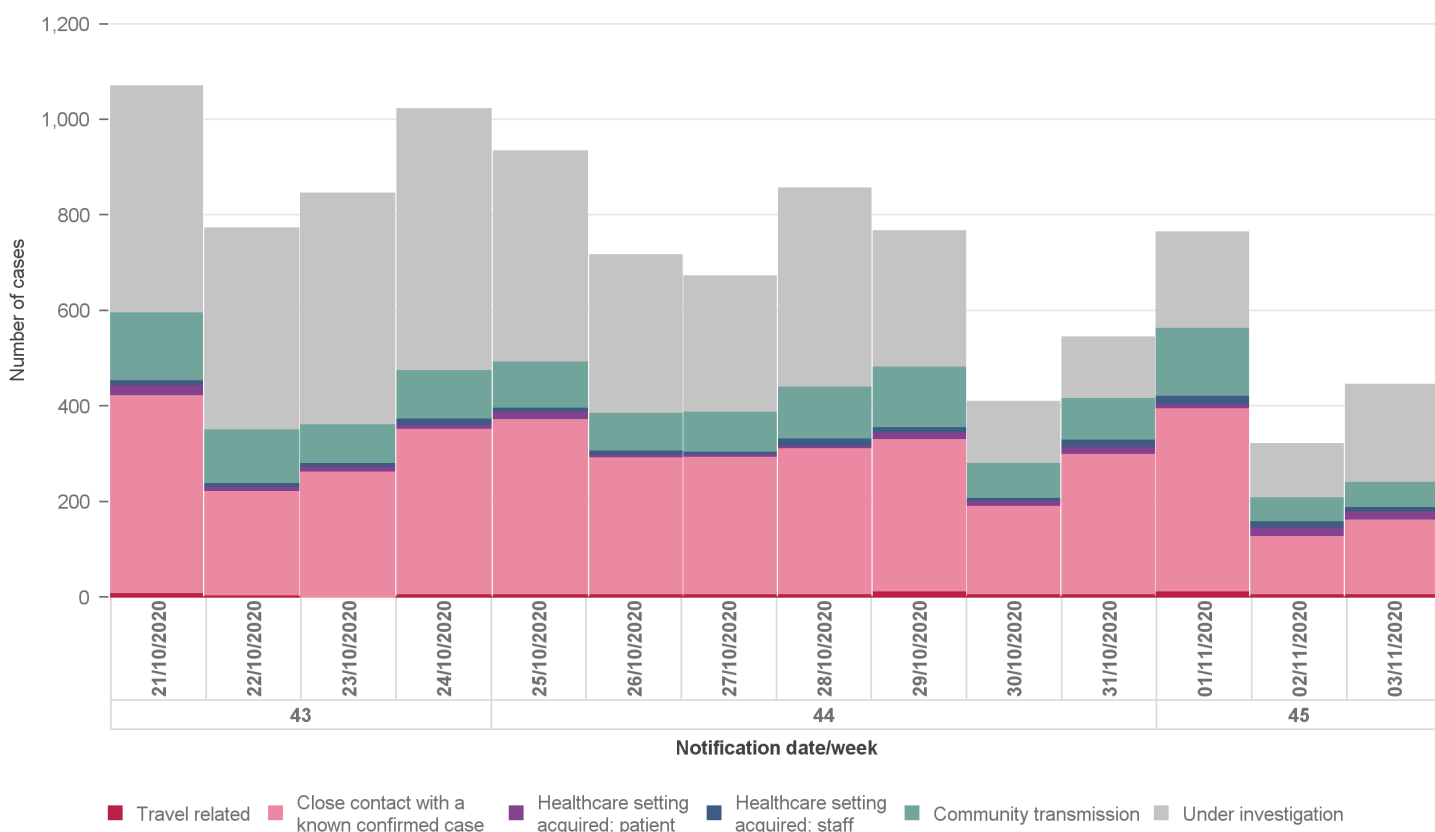


Figure 3: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and most likely transmission source from 21/10/2020 to midnight 03/11/2020

Table 8: Cumulative number of confirmed cases of COVID-19 notified in Ireland from 21/10/2020 to midnight 03/11/2020 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	452	4	1.11	0	0
5-12 yrs	838	7	1.94	0	0
13-18 yrs	955	8	2.22	0	0
19-24 yrs	1425	12	3.33	1	4.35
25-34 yrs	1516	16	4.44	0	0
35-44 yrs	1452	33	9.17	0	0
45-54 yrs	1401	37	10.28	5	21.74
55-64 yrs	1033	38	10.56	2	8.7
65-74 yrs	552	72	20	9	39.13
75-84 yrs	315	89	24.72	5	21.74
85+ yrs	185	44	12.22	1	4.35
Unknown	3			0	0
Total	10,127	360	100	23	100

Table 9: Number and proportion of confirmed cases of COVID-19 notified in Ireland from 21/10/2020 to midnight 03/11/2020 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	Unknwn
Number of cases (n)	452	838	955	1,425	1,516	1,452	1,401	1,033	552	315	185	3
Cases hospitalised (n)	4	7	8	12	16	33	37	38	72	89	44	
Cases hospitalised (%)	0.88	0.84	0.84	0.84	1.06	2.27	2.64	3.68	13.04	28.25	23.78	
Cases admitted to ICU (n)	0	0	0	1	0	0	5	2	9	5	1	0
Cases admitted to ICU (%)	0	0	0	0.07	0	0	0.36	0.19	1.63	1.59	0.54	0
Deaths (n)	0	0	0	0	0	0	0	1	5	5	8	0
Case fatality ratio (%)	0	0	0	0	0	0	0	0.1	0.91	1.59	4.32	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 21/10/2020 up to midnight on 03/11/2020**

Characteristic		Number of cases	Percent
Total number of sporadic confirmed cases		8,096	100
Sex	Male:Female ratio	0.98	
	Male	3,997	49.37
	Female	4,093	50.56
	Unknown	6	0.07
Age	Median age (years)	34	
	Mean age (years)	36	
	Age range (years)	0 - 103	
	0-4 yrs	332	4.1
	5-12 yrs	620	7.66
	13-18 yrs	744	9.19
	19-24 yrs	1,106	13.66
	25-34 yrs	1,299	16.04
	35-44 yrs	1,200	14.82
	45-54 yrs	1,132	13.98
	55-64 yrs	865	10.68
	65-74 yrs	454	5.61
	75-84 yrs	240	2.96
	85+ yrs	101	1.25
	Unknown	3	0.04
		Number of HCW	325
	Number hospitalised*	304	3.75
	Number admitted to ICU*	16	0.2
	Number of deaths	14	0.17
	Number with underlying condition	376	4.64
Most likely transmission source	Travel related	51	0.63
	Close contact with a known confirmed case	3,057	37.76
	Healthcare setting acquired: patient	70	0.86
	Healthcare setting acquired: staff	73	0.9
	Community transmission	1,164	14.38
	Under investigation	3,681	45.47

* 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 21/10/2020 up to midnight 03/11/2020

	Number	Percent
Total number of deaths	22	
Confirmed	19	86.36
Possible	3	13.64
Total number of cases hospitalised	13	59.09
Cases admitted to ICU	3	13.64
Cases not admitted to ICU	10	45.45
Total number of imported cases	1	4.55
Number of cases in healthcare workers	0	
Number with underlying clinical conditions	8	36.36
Total number of male cases	15	68.18
M:F ratio	2.14	
Median age (years)	81	
Mean age (years)	80	
Age range (years)	64 - 93	

Table 12: Number of deaths in all COVID-19 cases by sex and age group notified in Ireland from 21/10/2020 up to midnight 03/11/2020

Age group (years)	Female	Male	Total	Percent
55-64 yrs	1		1	4.55
65-74 yrs	3	4	7	31.82
75-84 yrs		6	6	27.27
85+ yrs	3	5	8	36.36
Total	7	15	22	100
Percent	31.82	68.18		

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 11:22 on 04/11/2020. 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

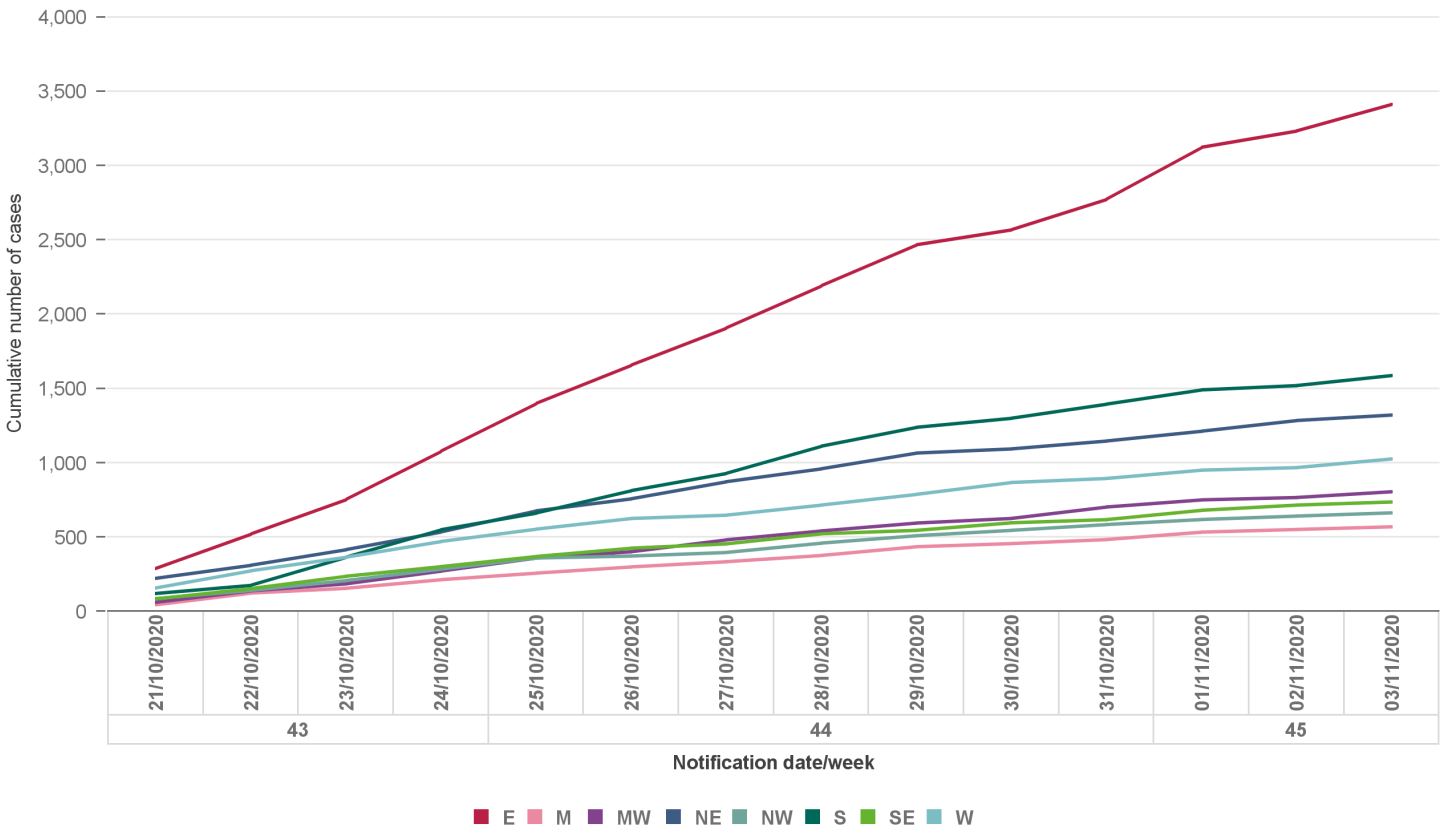


Figure A: Cumulative number of confirmed COVID-19 cases notified in Ireland by date/week of notification and HSE area from 21/10/2020 to midnight 03/11/2020

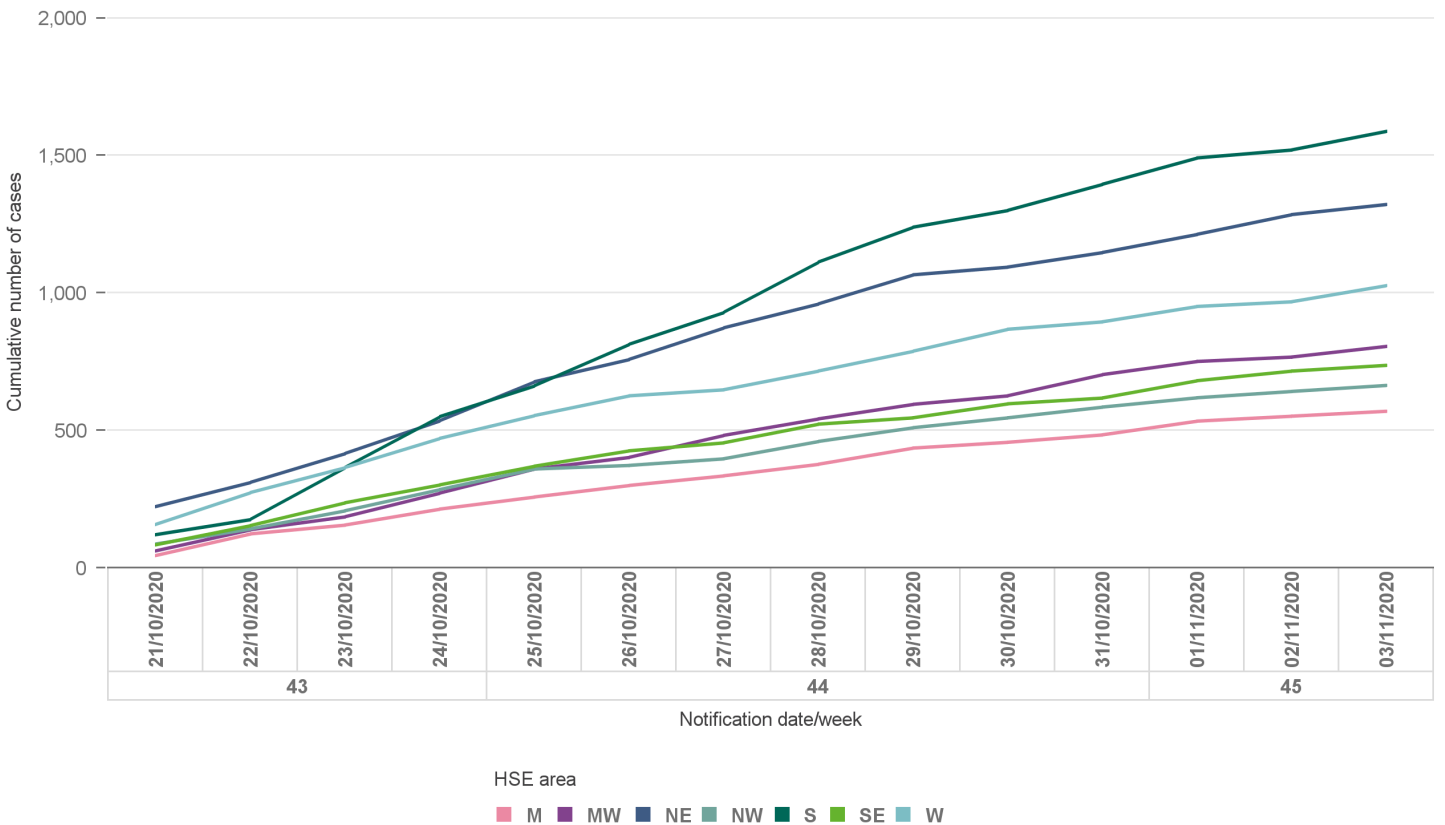


Figure B: Cumulative number of confirmed COVID-19 cases notified in Ireland by date/week of notification and HSE area (excluding HSE East) from 21/10/2020 to midnight 03/11/2020

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 21/10/2020 to midnight 03/11/2020

Week	Date	E	M	MW	NE	NW	S	SE	W	Total
43	21/10/2020	289	45	62	223	87	121	84	158	1069
43	22/10/2020	232	79	77	88	55	55	70	116	772
43	23/10/2020	232	32	47	105	66	189	83	91	845
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	258	42	42	81	13	151	56	72	715
44	27/10/2020	250	35	80	115	24	116	29	22	671
44	28/10/2020	284	42	60	87	63	183	68	68	855
44	29/10/2020	276	59	53	106	50	127	23	72	766
44	30/10/2020	101	21	31	28	36	61	51	80	409
44	31/10/2020	205	27	77	53	39	95	21	27	544
45	01/11/2020	350	50	48	66	34	96	63	56	763
45	02/11/2020	110	18	16	72	23	29	35	17	320
45	03/11/2020	180	18	39	37	22	68	21	59	444

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

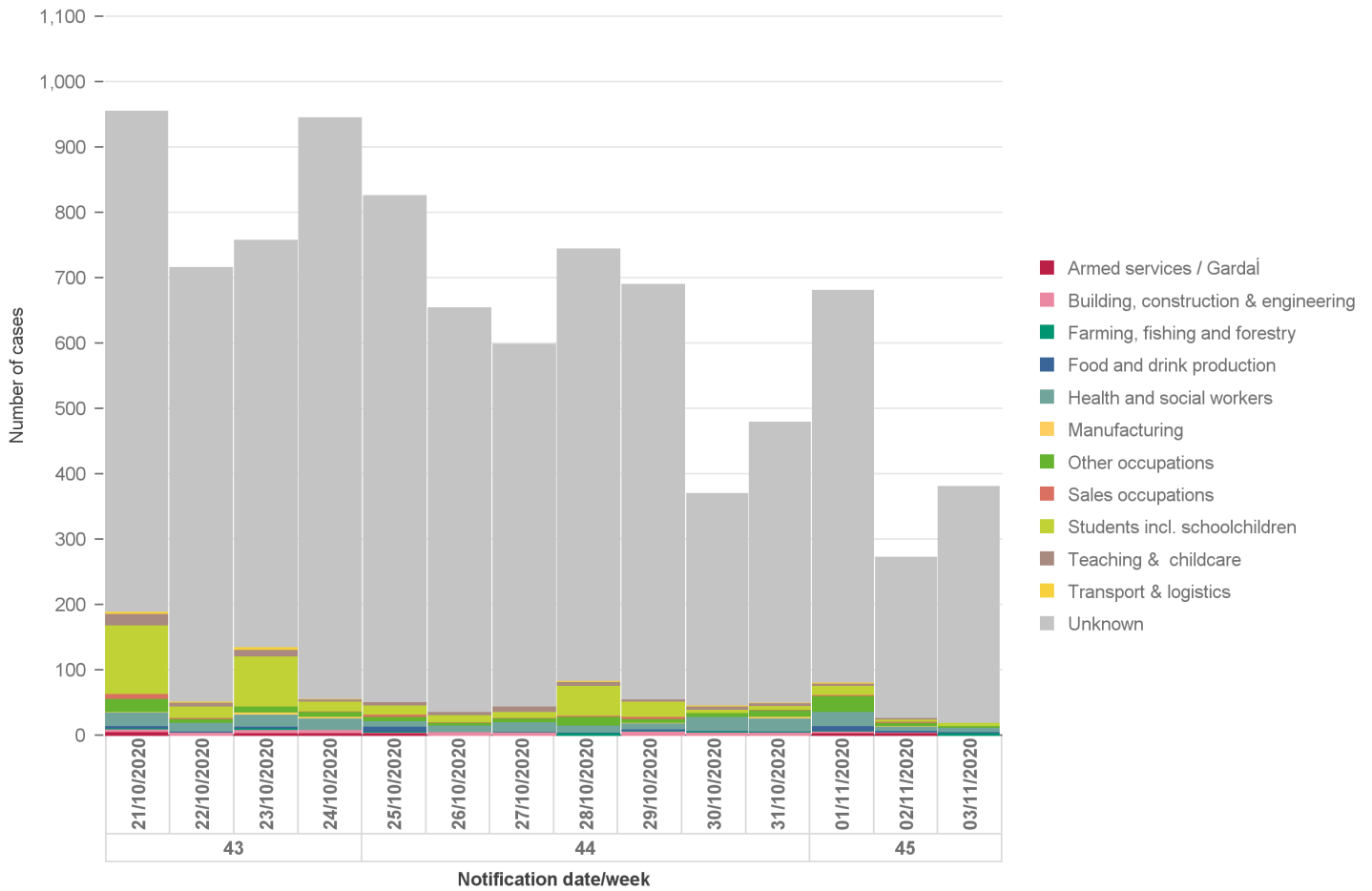


Figure C: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and occupation* from 21/10/2020 to midnight 03/11/2020

*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
21/10/2020	1	2
22/10/2020	2	4
23/10/2020	2	6
24/10/2020	1	7
25/10/2020	2	9
26/10/2020	3	12
27/10/2020	1	13
29/10/2020	1	14
31/10/2020	1	15
01/11/2020	1	16
02/11/2020	3	19
03/11/2020	2	21
	1	22
Total	22	

Week	Date	Count of cas	Count of cas
43	21/10/2020	1,069	904
43	22/10/2020	772	940
43	23/10/2020	845	839
43	24/10/2020	1,021	857
44	25/10/2020	933	467
44	26/10/2020	715	543
44	27/10/2020	671	611
44	28/10/2020	855	555
44	29/10/2020	766	469
44	30/10/2020	409	454
44	31/10/2020	544	317
45	01/11/2020	763	223
45	02/11/2020	320	325
45	03/11/2020	444	125
	Sum:	10,127	7,629

Event Creatio	Total number
21/10/2020	1,069
22/10/2020	772
23/10/2020	845
24/10/2020	1,021
25/10/2020	933
26/10/2020	715
27/10/2020	671
28/10/2020	855
29/10/2020	766
30/10/2020	409
31/10/2020	544
01/11/2020	763
02/11/2020	320
03/11/2020	444

Tota

number

10,127

County Name	Total number	CCA Name
Dublin	129	CCA1
Dublin	256	CCA2
Dublin	201	CCA3
Dublin	305	CCA4
Dublin	383	CCA5
Dublin	602	CCA6
Dublin	396	CCA7
Dublin	571	CCA8
Dublin	6	
Sum:	2,849	

County	Cases	Associated with clusters	Cases excluding OBs
Carlow	140	65	75
Cavan	278	25	253
Clare	223	8	215
Cork	1,323	198	1,125
Donegal	456	200	256
Dublin	2,849	177	2,672
Galway	628	380	248
Kerry	265	36	229
Kildare	415	34	381
Kilkenny	135	65	70
Laois	150	28	122
Leitrim	22	7	15
Limerick	444	87	357
Longford	76	5	71
Louth	286	19	267
Mayo	255	144	111
Meath	630	47	583
Monaghan	128	7	121
Offaly	92	9	83
Roscommon	144	86	58
Sligo	186	80	106
Tipperary	208	54	154
Waterford	226	125	101
Westmeath	234	32	202
Wexford	185	101	84
Wicklow	149	12	137
Sum:	10,127	2,031	8,096