



Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 01/10/2020

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 17/09/2020 up to midnight 30/09/2020

	Number	Percent
Total number of confirmed cases	4,585	
National incidence of confirmed cases per 100,000 population	96.29	
Number of cases hospitalised*	134	2.92
Number of cases admitted to ICU*	11	0.24
Number of deaths among confirmed cases	6	0.13
Case fatality ratio (CFR, %)	0.13	
National incidence of confirmed deaths per 100,000 population	0.13	
Number of cases** associated with clusters	2,295	50.05
Number of imported cases	23	0.5
Number of cases in healthcare workers	272	5.93
Males	2,274	49.6
Females	2,308	50.34
M:F ratio	0.99	
Median age (years)	33	
Mean age (years)	36	
Age range (years)	0 - 99	

* 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
17/09/2020 - 30/09/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 13:22 on 01/10/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.

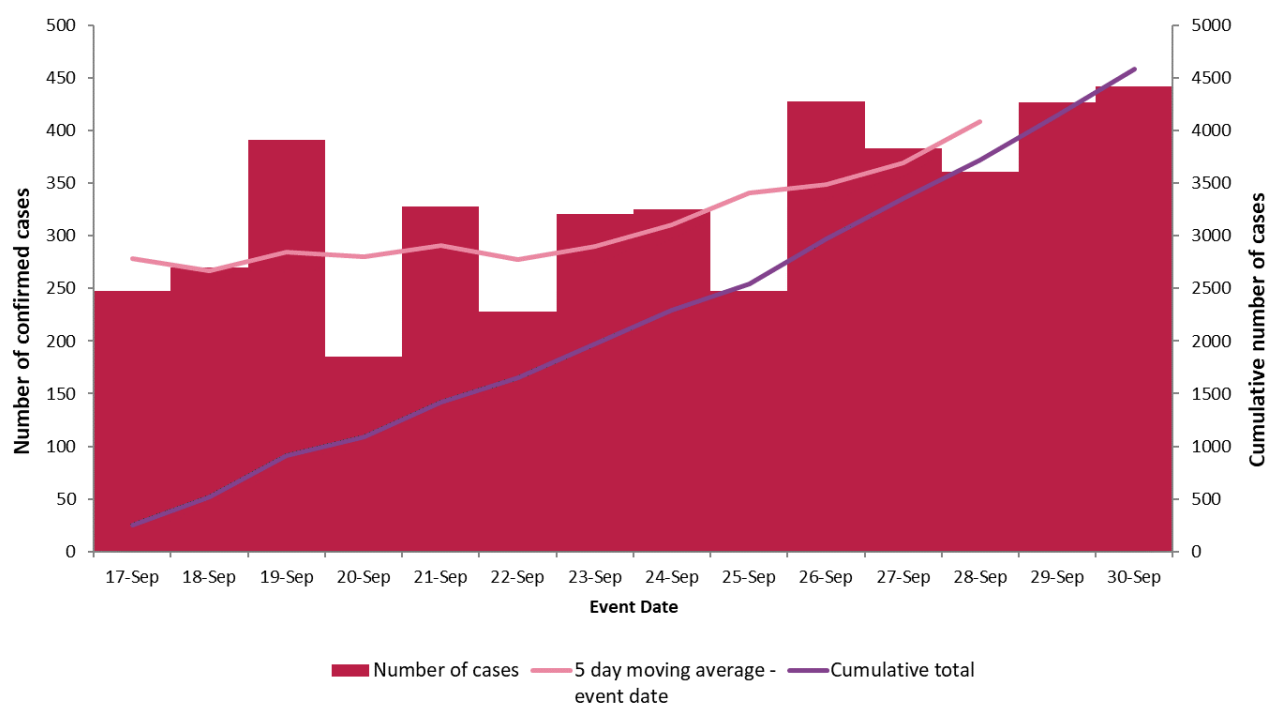


Figure 1. Daily number and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date (n=4,585)

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 17/09/2020 up to midnight on 30/09/202

Characteristic		Number of cases	Percent
Total number of confirmed cases		4,585	100
Sex	Male:Female ratio	0.99	
	Male	2,274	49.6
	Female	2,308	50.34
	Unknown	3	0.07
Age	Median age (years)	33	
	Mean age (years)	36	
	Age range (years)	0 - 99	
	0-4 yrs	114	2.49
	5-14 yrs	323	7.04
	15-24 yrs	1,140	24.86
	25-34 yrs	836	18.23
	35-44 yrs	689	15.03
	45-54 yrs	621	13.54
	55-64 yrs	432	9.42
	65-74 yrs	250	5.45
	75-84 yrs	127	2.77
	85+ yrs	53	1.16
Underlying clinical conditions	Yes	1,260	27.48
	No	2,813	61.35
	Unknown	512	11.17

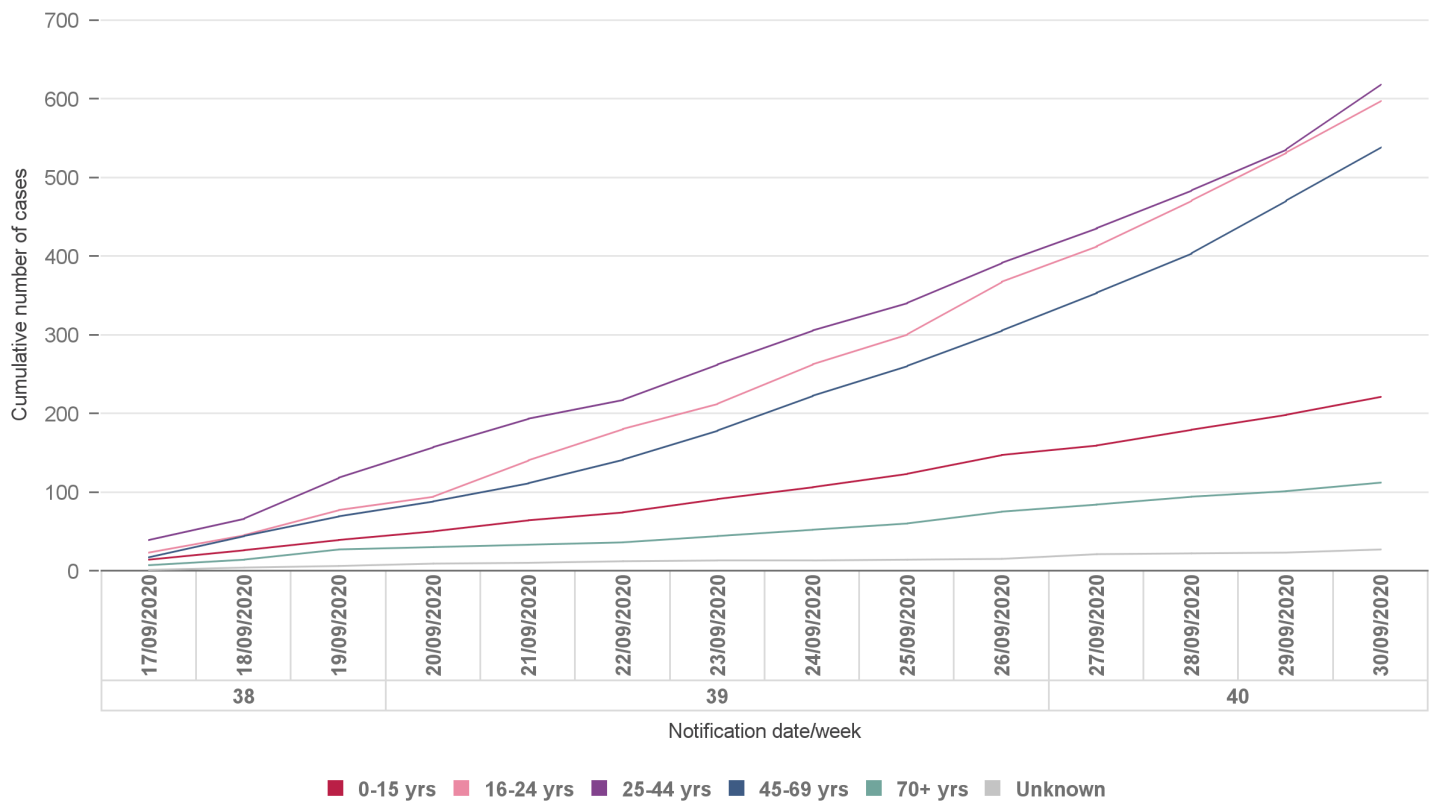


Figure 2: Cumulative number of confirmed COVID-19 cases notified in Ireland by date/week of notification and age group (years) from 17/09/2020 to midnight 30/09/2020

Table 2: Characteristics of confirmed COVID-19 cases by community healthcare organisation (CHO)* notified from 17/09/2020 to midnight 30/09/2020

CHO Area	Cases		M:F ratio	Mean age (years)	Healthcare workers		Associated with clusters	
	N	%			N	%	N	%
CHO1	528	11.52	1.07	36	27	5.11	313	59.28
CHO2	321	7	1.08	34	17	5.3	172	53.58
CHO3	184	4.01	0.96	36	9	4.89	89	48.37
CHO4	511	11.15	0.92	35	26	5.09	383	74.95
CHO5	177	3.86	1.13	38	12	6.78	89	50.28
CHO6	454	9.9	0.87	37	25	5.51	174	38.33
CHO7	908	19.8	0.97	37	47	5.18	411	45.26
CHO8	398	8.68	1.14	37	38	9.55	234	58.79
CHO9	1,103	24.06	0.94	37	71	6.44	430	38.98
Unknown	1	0.02		35	<5	0	0	0
National	4,585	100	0.99	36	272	5.93	2,295	50.05

Table 3: Number of confirmed COVID-19 cases by community healthcare organisation (CHO) * notified in Ireland from 17/09/2020 to midnight 30/09/2020

CHO Area	Number of confirmed cases	Incidence per 100,000 population
CHO1	468	119.6
CHO2	272	60.0
CHO3	150	39.0
CHO4	421	61.0
CHO5	186	36.4
CHO6	429	112.0
CHO7	880	124.3
CHO8	341	55.1
CHO9	1066	172.1
Unknown	1	
Ireland	4,585	96.3

*CHO1: Cavan, Donegal, Monaghan, Leitrim, Sligo

CHO2: Galway, Mayo, Roscommon

CHO3: Clare, Limerick, Tipperary North

CHO4: Cork, Kerry

CHO5: Carlow, Kilkenny, Tipperary South, Waterford, Wexford

CHO6: Dublin South East, Dun Laoghaire, Wicklow

CHO7: Dublin South City, Dublin South West, Dublin West, Kildare/West Wicklow

CHO8: Laois, Longford, Louth, Meath, Offaly, Westmeath

CHO9: Dublin North, Dublin North Central & Dublin North West

Table 4: Number of confirmed COVID-19 cases by county notified in Ireland from 17/09/2020 to midnight 30/09/2020

County	Number of confirmed cases	Incidence per 100,000 population
Carlow	20	35.1
Cavan	51	67.0
Clare	84	70.7
Cork	480	88.4
Donegal	348	218.6
Dublin	2195	162.9
Galway	206	79.8
Kerry	31	21.0
Kildare	181	81.3
Kilkenny	29	29.2
Laois	37	43.7
Leitrim	6	18.7
Limerick	80	41.0
Longford	40	97.9
Louth	97	75.3
Mayo	37	28.4
Meath	124	63.6
Monaghan	102	166.2
Offaly	52	66.7
Roscommon	78	120.8
Sligo	21	32.0
Tipperary	49	30.7
Waterford	50	43.0
Westmeath	48	54.1
Wexford	49	32.7
Wicklow	90	63.2
Ireland	4,585	96.3

Table 5: Number and incidence of confirmed COVID-19 cases by Dublin Local Health Offices (LHOs) notified from 17/09/2020 to midnight 30/09/2020

CCA	Local Health Office	Number of cases in past 14 days based on event date	14 day incidence rates based on event dates
CCA1	Dublin South	119	87.5
CCA2	Dublin South East	248	200.5
CCA3	Dublin South City	203	135.4
CCA4	Dublin South West	274	170.3
CCA5	Dublin West	247	159.0
CCA6	Dublin North West	406	195.5
CCA7	Dublin North Central	322	208.3
CCA8	Dublin North	375	144.7
	Unknown	1	
	Dublin	2,195	162.9

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.

Table 6: Number of confirmed COVID-19 cases by most likely transmission source notified from 17/09/2020 to midnight 30/09/2020

Most likely transmission source	Number of cases	Percent
Travel related	91	1.98%
Close contact with a known confirmed case	2,573	56.12%
Healthcare setting acquired: patient	56	1.22%
Healthcare setting acquired: staff	58	1.26%
Community transmission	1,231	26.85%
Under investigation	576	12.56%
Total	4,585	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

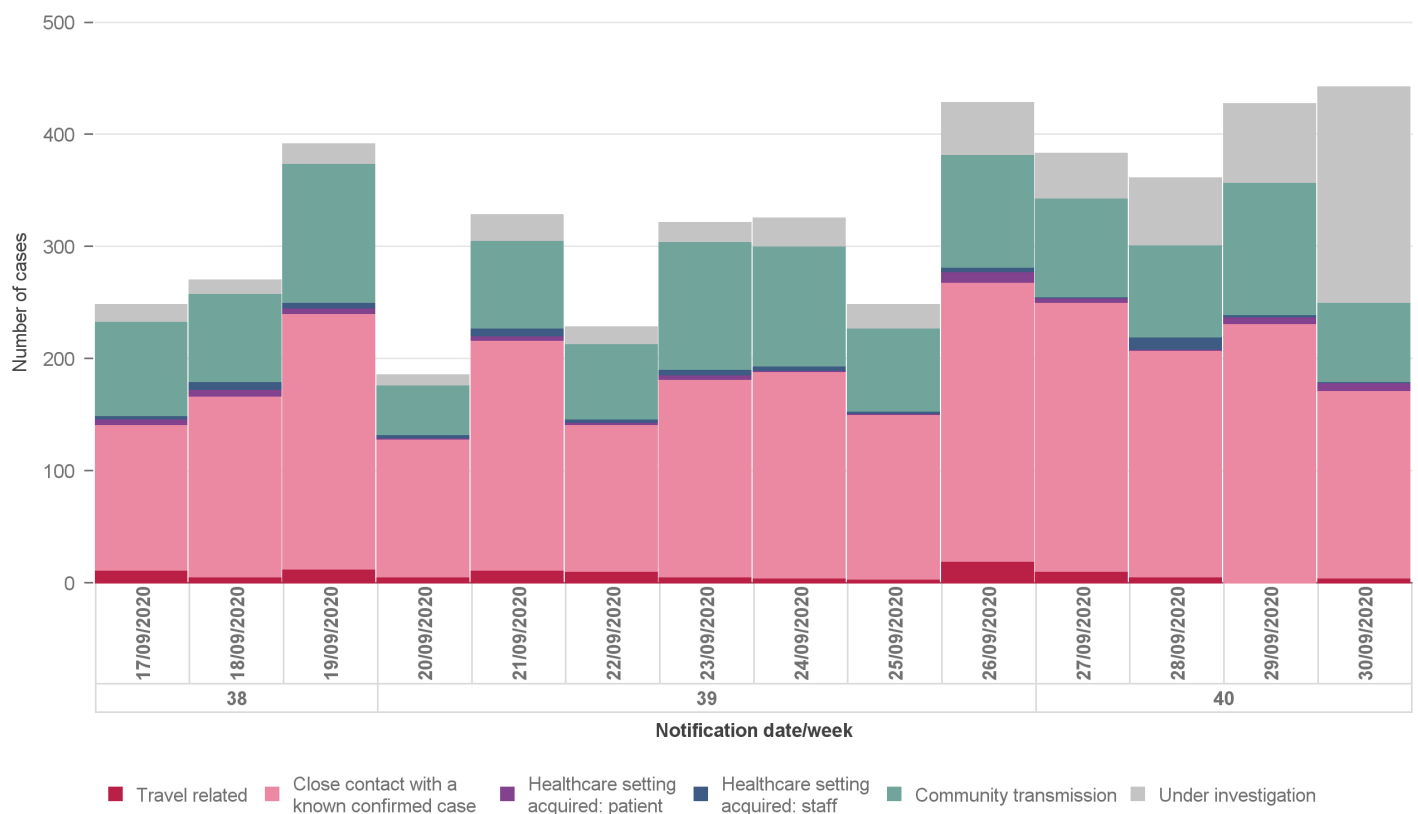


Figure 4: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and most likely transmission source from 17/09/2020 to midnight 30/09/2020

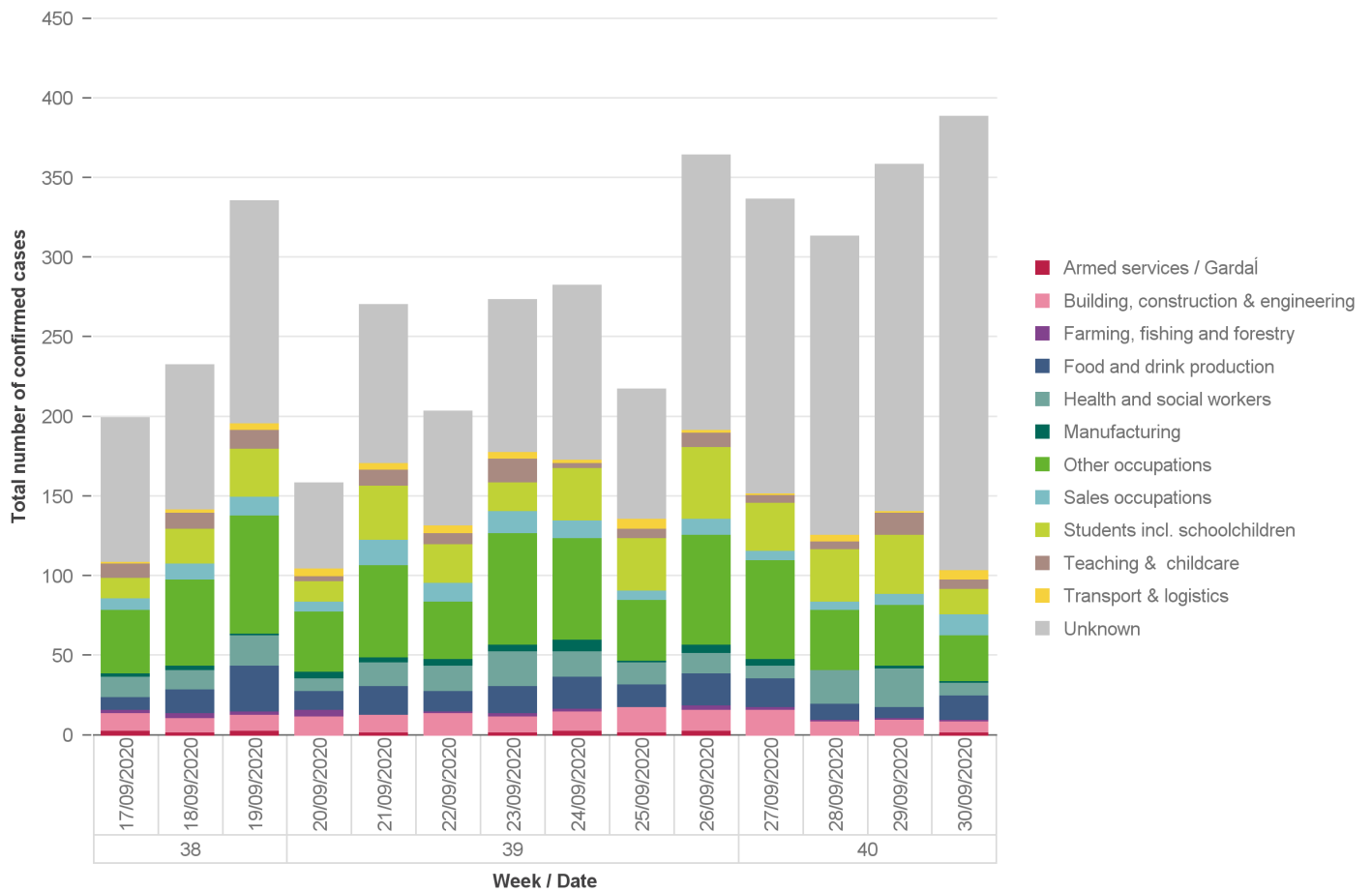


Figure 5: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and occupation* from 17/09/2020 to midnight 30/09/2020

*Among cases aged 16-69 years

Table 7: Cumulative number of confirmed cases of COVID-19 notified in Ireland from 17/09/2020 to midnight 30/09/2020 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	114	3	2.24	0	0
5-14 yrs	323	6	4.48	0	0
15-24 yrs	1140	10	7.46	0	0
25-34 yrs	836	6	4.48	1	9.09
35-44 yrs	689	12	8.96	3	27.27
45-54 yrs	621	19	14.18	1	9.09
55-64 yrs	432	23	17.16	0	0
65-74 yrs	250	28	20.9	5	45.45
75-84 yrs	127	19	14.18	1	9.09
85+ yrs	53	8	5.97	0	0
Total	4,585	134	100	11	100

* 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

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 13:22 on 01/10/2020. 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 epidemiological date, which is the earliest of onset date, date of diagnosis, laboratory specimen collection date, laboratory received date, laboratory reported date, 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. 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.