



Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 03/10/2020

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 19/09/2020 up to midnight 02/10/2020

	Number	Percent
Total number of confirmed cases	5,142	
National incidence of confirmed cases per 100,000 population	107.98	
Number of cases hospitalised*	136	2.64
Number of cases admitted to ICU*	9	0.18
Number of deaths among confirmed cases	6	0.12
Case fatality ratio (CFR, %)	0.12	
National incidence of confirmed deaths per 100,000 population	0.13	
Number of cases** associated with clusters	2,417	47.01
Number of imported cases	20	0.39
Number of cases in healthcare workers	301	5.85
Males	2,531	49.22
Females	2,602	50.6
M:F ratio	0.97	
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
19/09/2020 - 02/10/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 13:24 on 03/10/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.

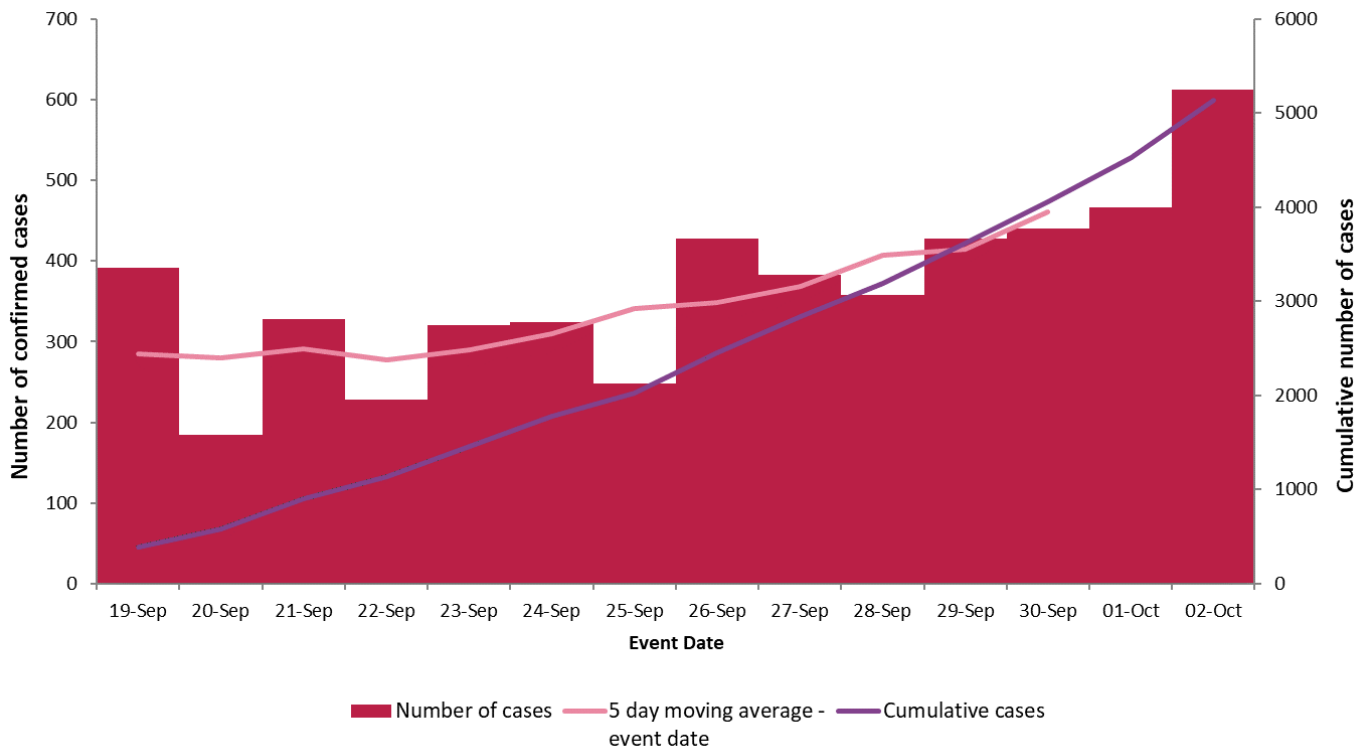


Figure 1. Daily number and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date (n=5,142)

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 19/09/2020 up to midnight on 02/10/202

Characteristic		Number of cases	Percent
Total number of confirmed cases		5,142	100
Sex	Male:Female ratio	0.97	
	Male	2,531	49.22
	Female	2,602	50.6
	Unknown	9	0.18
Age	Median age (years)	33	
	Mean age (years)	36	
	Age range (years)	0 - 99	
	0-4 yrs	130	2.53
	5-14 yrs	353	6.87
	15-24 yrs	1,283	24.95
	25-34 yrs	938	18.24
	35-44 yrs	779	15.15
	45-54 yrs	704	13.69
	55-64 yrs	491	9.55
	65-74 yrs	268	5.21
	75-84 yrs	130	2.53
	85+ yrs	66	1.28
Underlying clinical conditions	Yes	1,301	25.3
	No	3,030	58.93
	Unknown	811	15.77

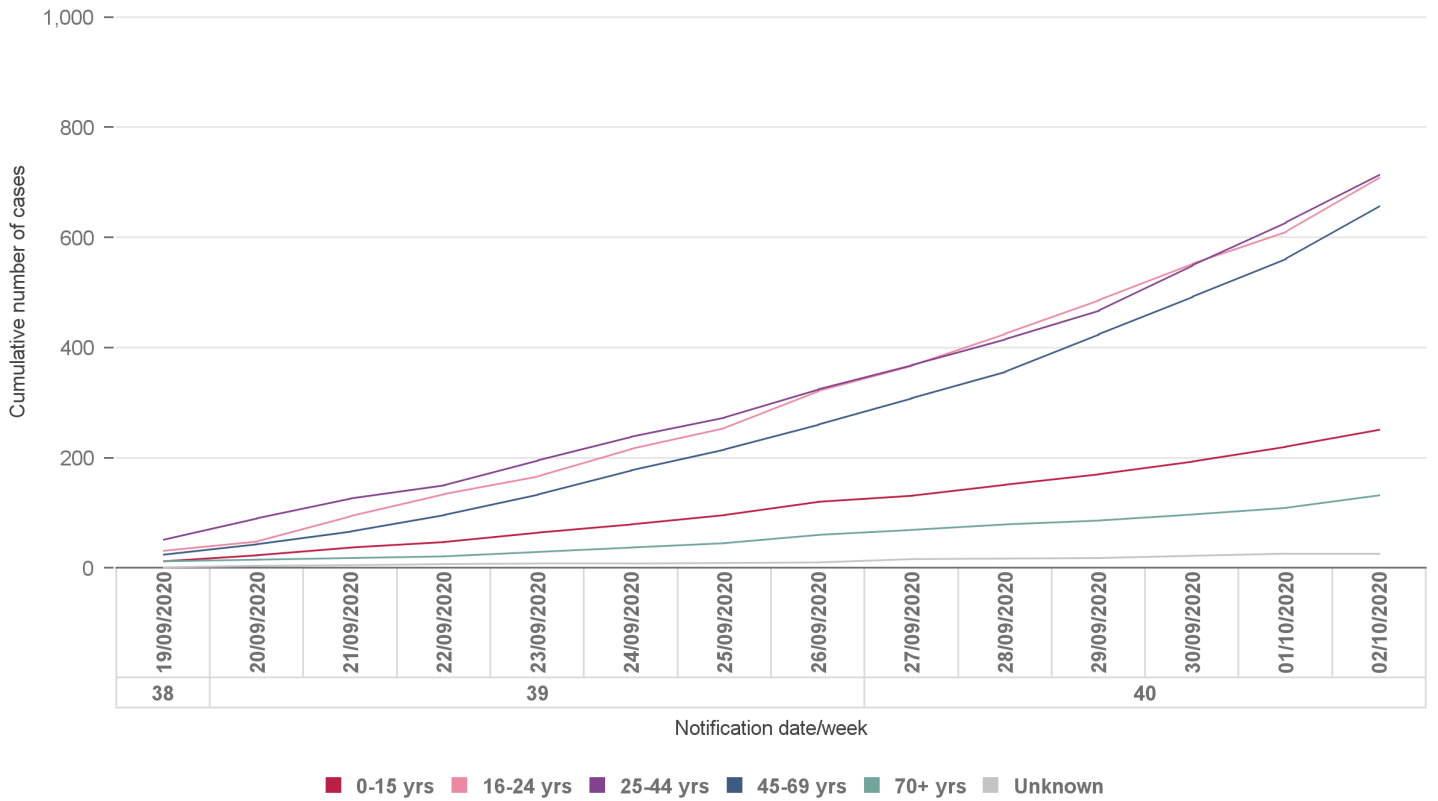


Figure 2: Cumulative number of confirmed COVID-19 cases notified in Ireland by date/week of notification and age group (years) from 19/09/2020 to midnight 02/10/2020

Table 2: Characteristics of confirmed COVID-19 cases by community healthcare organisation (CHO)* notified from 19/09/2020 to midnight 02/10/2020

CHO Area	Cases		M:F ratio	Mean age (years)	Healthcare workers		Associated with clusters	
	N	%			N	%	N	%
CHO1	623	12.12	1.09	37	39	6.26	322	51.69
CHO2	346	6.73	1.12	34	12	3.47	205	59.25
CHO3	239	4.65	0.94	33	8	3.35	80	33.47
CHO4	611	11.88	0.86	34	39	6.38	420	68.74
CHO5	202	3.93	1.1	38	15	7.43	86	42.57
CHO6	495	9.63	0.84	37	29	5.86	196	39.6
CHO7	960	18.67	0.97	38	45	4.69	412	42.92
CHO8	474	9.22	1.08	39	44	9.28	270	56.96
CHO9	1,192	23.18	0.93	36	70	5.87	426	35.74
National	5,142	100	0.97	36	301	5.85	2,417	47.01

Table 3: Number of confirmed COVID-19 cases by community healthcare organisation (CHO) * notified in Ireland from 19/09/2020 to midnight 02/10/2020

CHO Area	Number of confirmed cases	Incidence per 100,000 population
CHO1	623	159.2
CHO2	346	76.4
CHO3	239	62.1
CHO4	611	88.5
CHO5	202	39.6
CHO6	495	129.2
CHO7	960	135.6
CHO8	474	76.5
CHO9	1192	191.8
Ireland	5,142	108.0

*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 19/09/2020 to midnight 02/10/2020

County	Number of confirmed cases	Incidence per 100,000 population
Carlow	25	43.9
Cavan	64	84.0
Clare	105	88.4
Cork	552	101.7
Donegal	410	257.6
Dublin	2328	172.8
Galway	219	84.9
Kerry	59	39.9
Kildare	214	96.2
Kilkenny	40	40.3
Laois	64	75.6
Leitrim	7	21.8
Limerick	113	58.0
Longford	52	127.2
Louth	101	78.4
Mayo	35	26.8
Meath	136	69.7
Monaghan	116	189.0
Offaly	60	77.0
Roscommon	92	142.5
Sligo	26	39.7
Tipperary	58	36.4
Waterford	41	35.3
Westmeath	61	68.7
Wexford	59	39.4
Wicklow	105	73.7
Ireland	5,142	108.0

Table 5: Number and incidence of confirmed COVID-19 cases by Dublin Local Health Offices (LHOs) notified from 19/09/2020 to midnight 02/10/2020

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	122	89.7
CCA2	Dublin South East	274	221.5
CCA3	Dublin South City	205	136.7
CCA4	Dublin South West	271	168.4
CCA5	Dublin West	264	169.9
CCA6	Dublin North West	444	213.8
CCA7	Dublin North Central	359	232.2
CCA8	Dublin North	389	150.1
	Dublin	2,328	172.8

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 19/09/2020 to midnight 02/10/2020

Most likely transmission source	Number of cases	Percent
Travel related	87	1.69%
Close contact with a known confirmed case	2,740	53.29%
Healthcare setting acquired: patient	80	1.56%
Healthcare setting acquired: staff	63	1.23%
Community transmission	1,283	24.95%
Under investigation	889	17.29%
Total	5,142	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

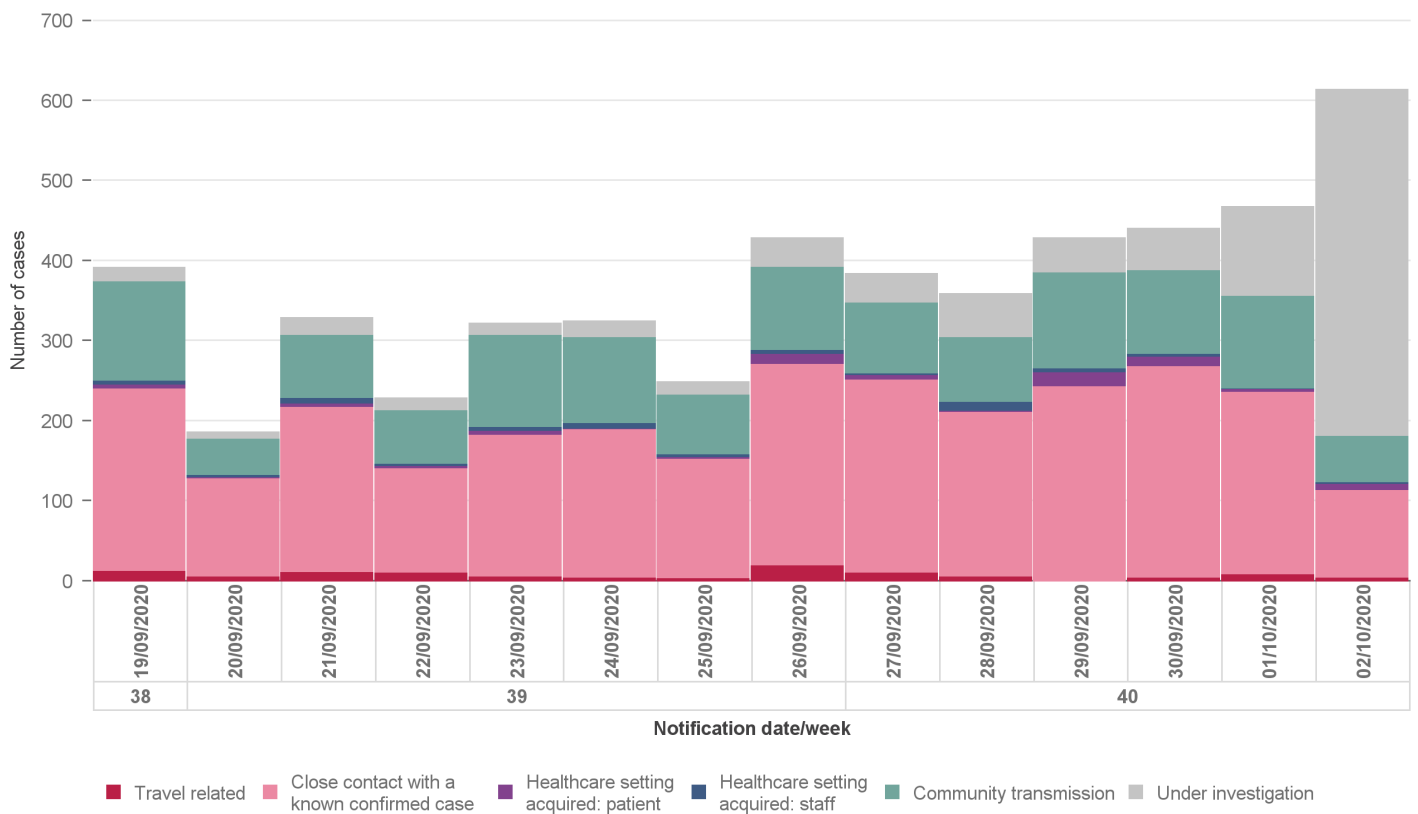


Figure 4: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and most likely transmission source from 19/09/2020 to midnight 02/10/2020

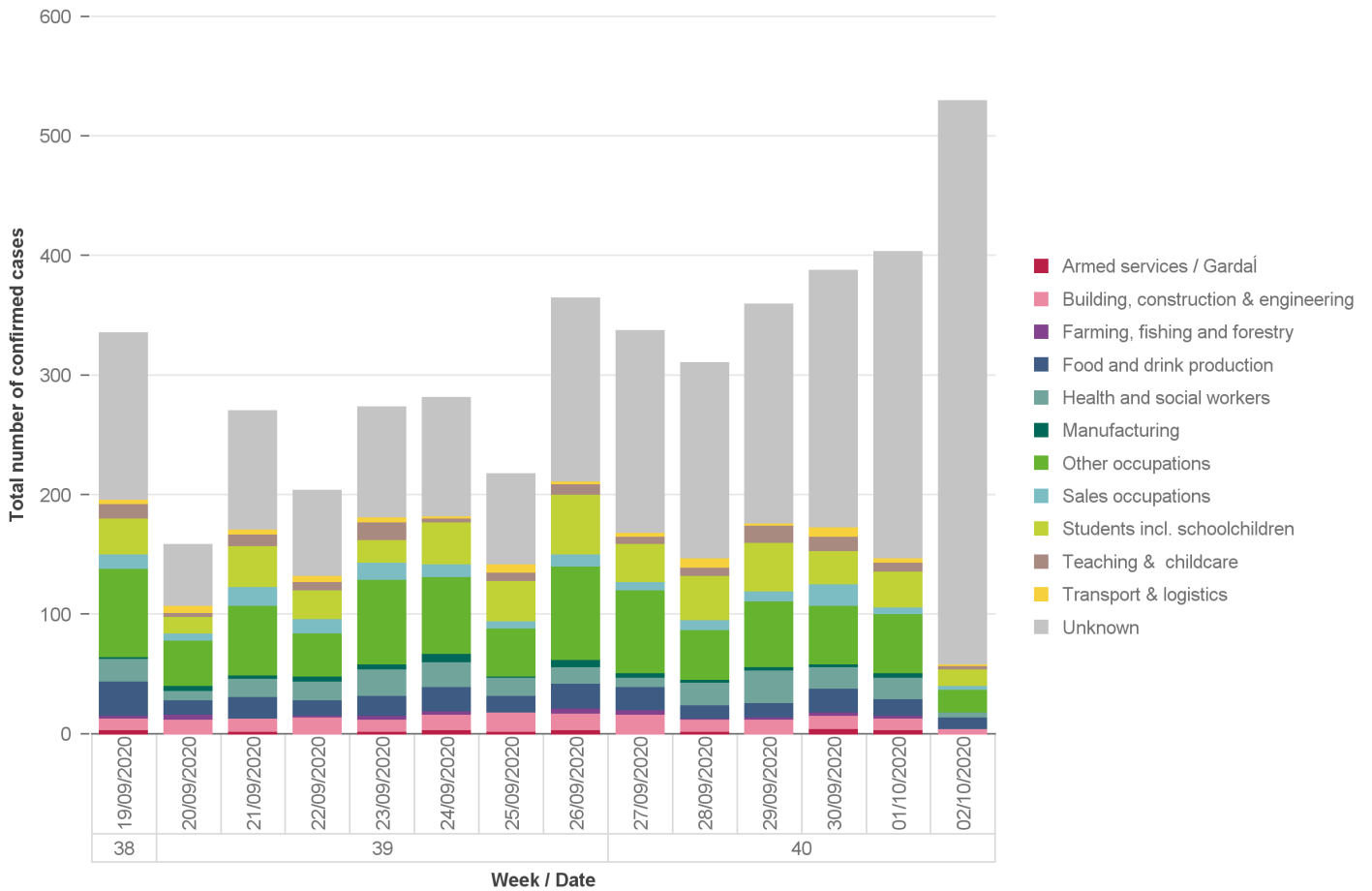


Figure 5: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and occupation* from 19/09/2020 to midnight 02/10/2020

*Among cases aged 16-69 years

Table 7: Cumulative number of confirmed cases of COVID-19 notified in Ireland from 19/09/2020 to midnight 02/10/2020 by age group, hospitalisation, ICU admission *, and vital status

Age Group (years)	Number of cases (n)	Cases hospitalised (n)	Cases hospitalised (%)	Cases admitted to ICU (n)	Cases admitted to ICU (%)
0-4 yrs	130	3	2.21	0	0
5-14 yrs	353	8	5.88	0	0
15-24 yrs	1283	12	8.82	0	0
25-34 yrs	938	8	5.88	1	11.11
35-44 yrs	779	13	9.56	2	22.22
45-54 yrs	704	16	11.76	1	11.11
55-64 yrs	491	22	16.18	0	0
65-74 yrs	268	28	20.59	4	44.44
75-84 yrs	130	17	12.5	1	11.11
85+ yrs	66	9	6.62	0	0
Total	5,142	136	100	9	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 13:24 on 03/10/2020. 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.