Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 09/10/2020

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 25/09/2020 up to midnight 08/10/2020

	Number	Percent
Total number of confirmed cases	6,400	
National incidence of confirmed cases per 100,000 population	134.4	
Number of cases hospitalised*	185	2.89
Number of cases admitted to ICU*	10	0.16
Number of deaths among confirmed cases	8	0.13
Case fatality ratio (CFR, %)	0.13	
National incidence of confirmed deaths per 100,000 population	0.17	
Number of cases** associated with clusters	2,842	44.41
Number of imported cases	15	0.23
Number of cases in healthcare workers	421	6.58
Males	3,185	49.77
Females	3,203	50.05
M:F ratio	0.99	
Median age (years)	33	
Mean age (years)	36	
Age range (years)	0 - 98	

* 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 25/09/2020 - 08/10/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 13:23 on 09/10/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.
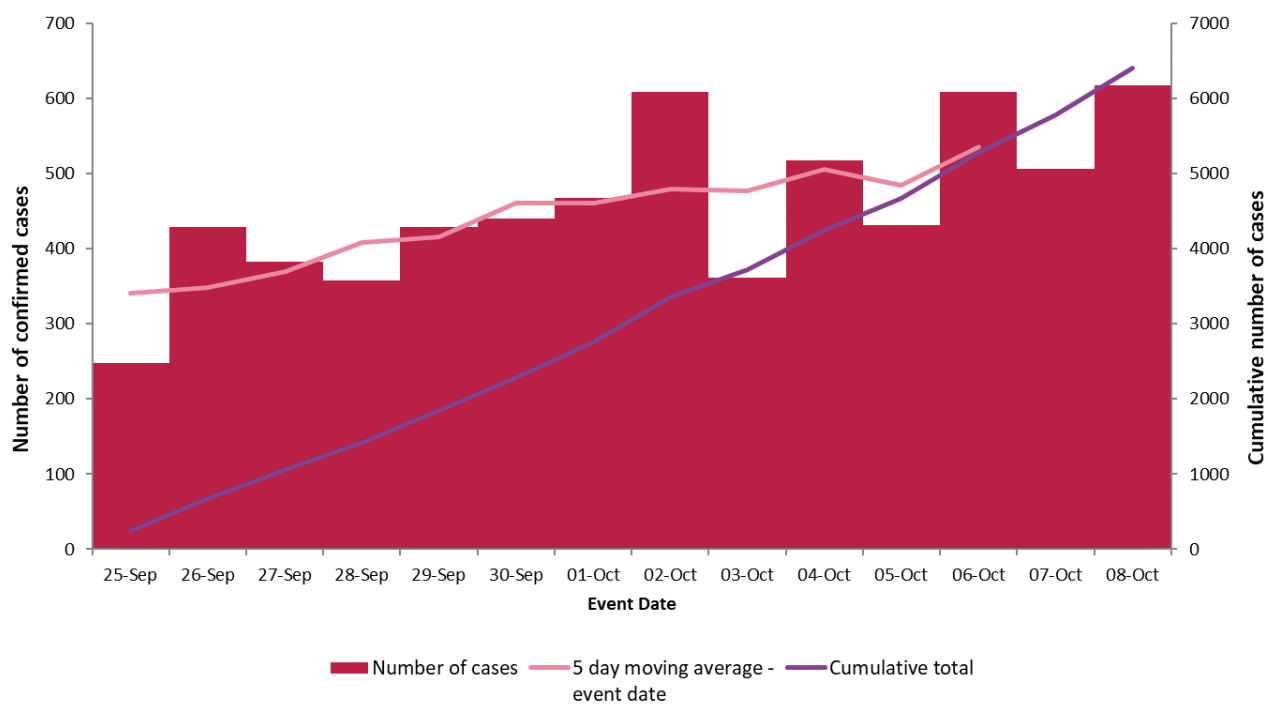
Figure 1. Daily number and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date (n=6,400)

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 25/09/2020 up to midnight on 08/10/202

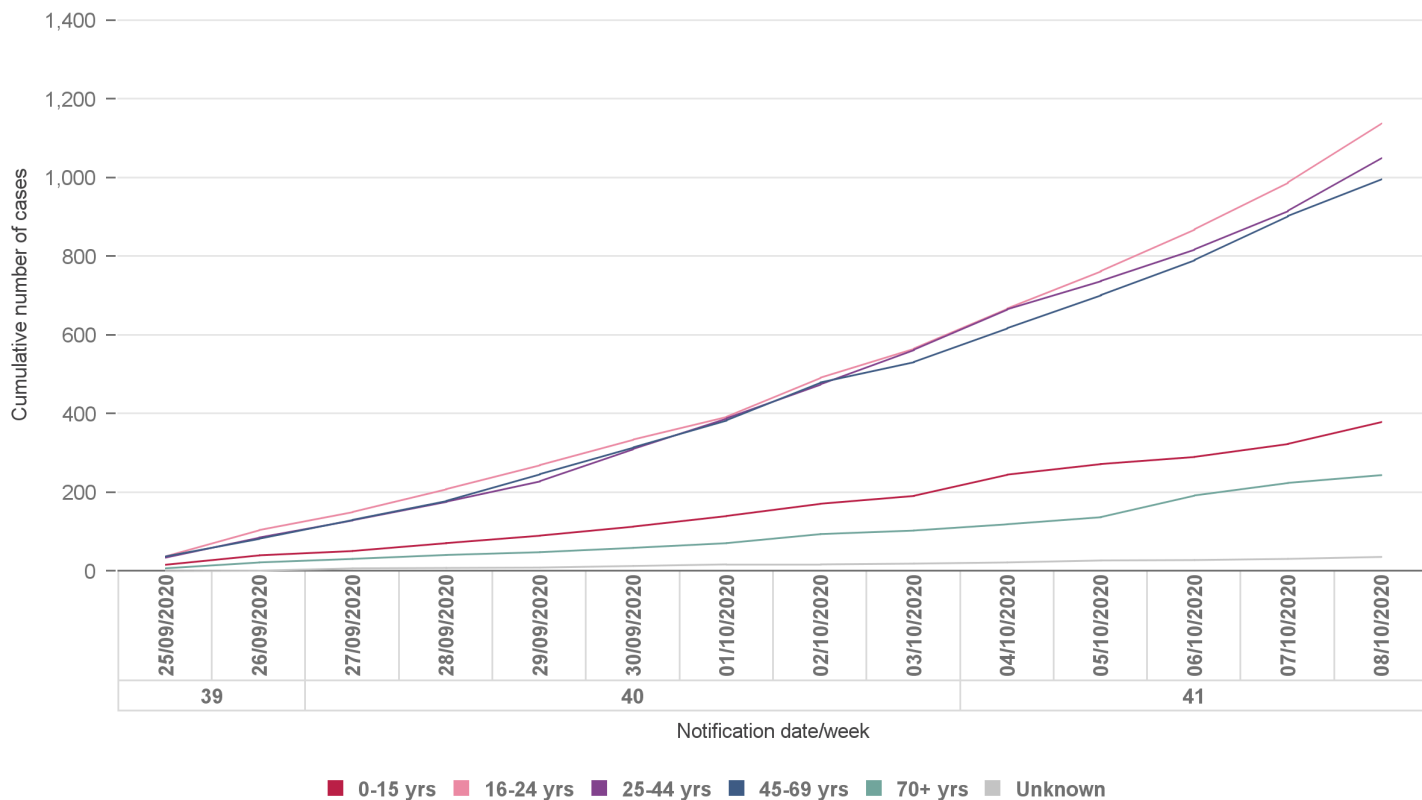| Characteristic		Number of cases	Percent
Total number of confirmed cases		**6,400**	**100**
Sex	Male:Female ratio	0.99	
	Male	3,185	49.77
	Female	3,203	50.05
	Unknown	12	0.19
Age	Median age (years)	33	
	Mean age (years)	36	
	Age range (years)	0 - 98	
	0-4 yrs	170	2.66
	5-14 yrs	423	6.61
	15-24 yrs	1,664	26
	25-34 yrs	1,109	17.33
	35-44 yrs	915	14.3
	45-54 yrs	863	13.48
	55-64 yrs	652	10.19
	65-74 yrs	317	4.95
	75-84 yrs	179	2.8
	85+ yrs	108	1.69
Underlying clinical conditions	Yes	1,497	23.39
	No	4,051	63.3
	Unknown	852	13.31

Figure 2: Cumulative number of confirmed COVID-19 cases notified in Ireland by date/week of notification and age group (years) from 25/09/2020 to midnight 08/10/2020

Table 2: Characteristics of confirmed COVID-19 cases by community healthcare organisation (CHO)*
notified from 25/09/2020 to midnight 08/10/2020

CHO Area	Cases		M:F ratio	Mean age (years)	Healthcare workers		Associated with clusters	
	N	%			N	%	N	%
CHO1	944	14.75	1.06	38	77	8.16	495	52.44
CHO2	456	7.13	1.07	33	16	3.51	274	60.09
CHO3	499	7.8	0.96	31	10	2	107	21.44
CHO4	897	14.02	1.04	34	49	5.46	487	54.29
CHO5	325	5.08	0.96	40	29	8.92	128	39.38
CHO6	485	7.58	0.75	38	37	7.63	206	42.47
CHO7	939	14.67	1.02	38	56	5.96	364	38.76
CHO8	728	11.38	1.12	40	72	9.89	338	46.43
CHO9	1,127	17.61	0.92	36	75	6.65	443	39.31
National	**6,400**	**100**	**0.99**	**36**	**421**	**6.58**	**2,842**	**44.41**

Table 3: Number of confirmed COVID-19 cases by community healthcare organisation (CHO)
* notified in Ireland from 25/09/2020 to midnight 08/10/2020

CHO Area	Number of confirmed cases	Incidence per 100,000 population
CHO1	944	241.3
CHO2	456	100.6
CHO3	499	129.6
CHO4	897	129.9
CHO5	325	63.7
CHO6	485	126.6
CHO7	939	132.7
CHO8	728	117.6
CHO9	1127	182.0
Ireland	6,400	134.4

*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 25/09/2020 to midnight 08/10/2020

County	Number of confirmed cases	Incidence per 100,000 population
Carlow	24	42.2
Cavan	152	199.5
Clare	236	198.6
Cork	762	140.4
Donegal	519	326.0
Dublin	2203	163.5
Galway	291	112.8
Kerry	135	91.4
Kildare	239	107.4
Kilkenny	59	59.5
Laois	105	124.0
Leitrim	17	53.1
Limerick	232	119.0
Longford	69	168.8
Louth	113	87.7
Mayo	58	44.4
Meath	252	129.2
Monaghan	166	270.4
Offaly	98	125.7
Roscommon	107	165.8
Sligo	90	137.3
Tipperary	93	58.3
Waterford	54	46.5
Westmeath	89	100.3
Wexford	128	85.5
Wicklow	109	76.5
Ireland	**6,400**	**134.4**

Figure 3: Cumulative incidence rates of confirmed COVID-19 cases per 100,000 population, by county, notified in Ireland from 25/09/2020 to midnight 08/10/2020

Please do not directly compared county shades to previous maps. The numbers of cases by county are increasing and as such the categories listed will broaden which may result in changes to the map shading.

Table 5: Number and incidence of confirmed COVID-19 cases by Dublin Local Health Offices (LHOs) notified from 25/09/2020 to midnight 08/10/2020

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	119	87.5
CCA2	Dublin South East	265	214.2
CCA3	Dublin South City	180	120.1
CCA4	Dublin South West	238	147.9
CCA5	Dublin West	274	176.4
CCA6	Dublin North West	423	203.7
CCA7	Dublin North Central	353	228.4
CCA8	Dublin North	351	135.4
	Dublin	**2,203**	**163.5**

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 25/09/2020 to midnight 08/10/2020

Most likely transmission source	Number of cases	Percent
Travel related	82	1.28%
Close contact with a known confirmed case	3,585	56.02%
Healthcare setting acquired: patient	156	2.44%
Healthcare setting acquired: staff	91	1.42%
Community transmission	1,501	23.45%
Under investigation	985	15.39%
Total	**6,400**	**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
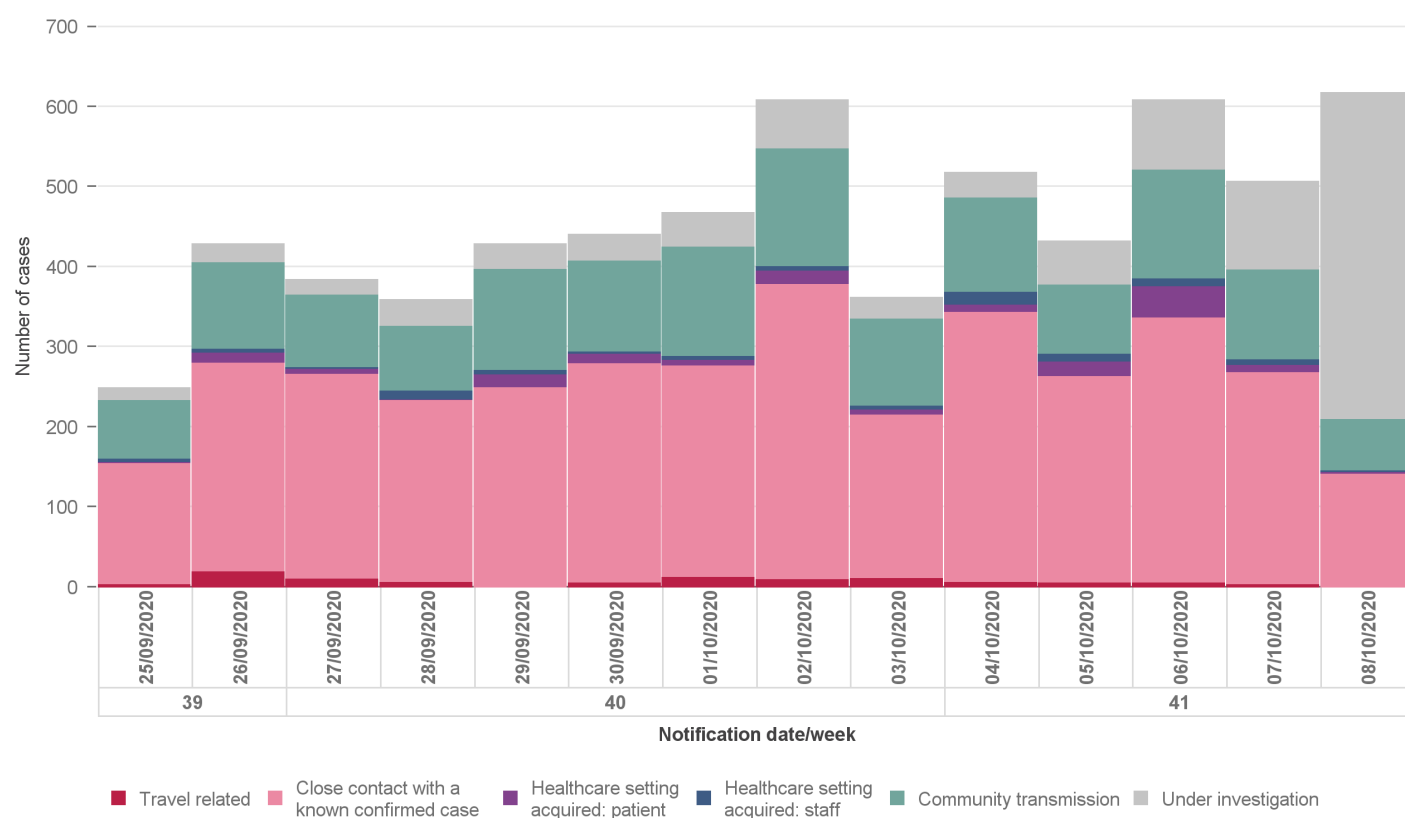

Figure 4: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and most likely transmission source from 25/09/2020 to midnight 08/10/2020
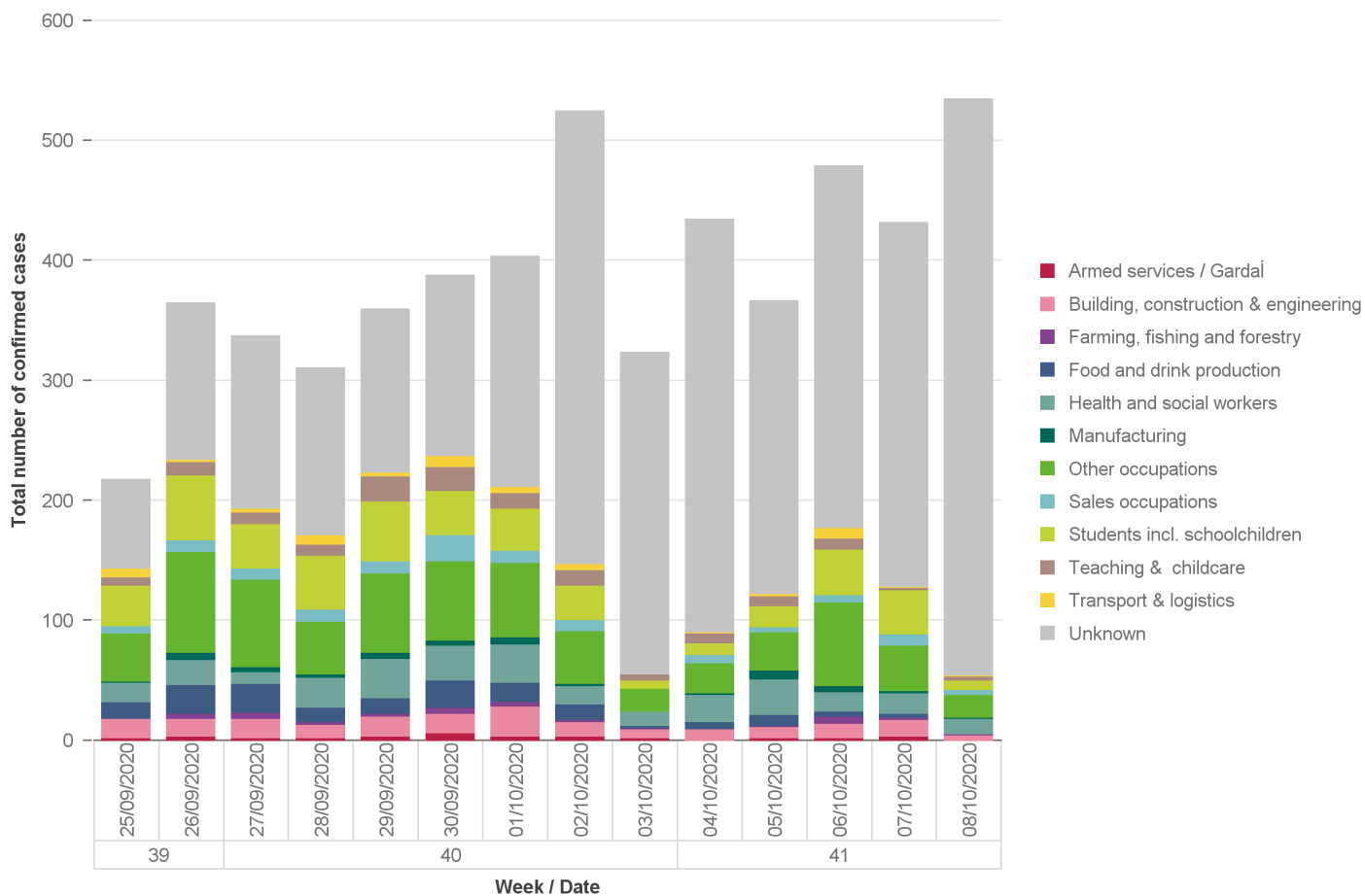
Figure 5: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and occupation* from 25/09/2020 to midnight 08/10/2020

*Among cases aged 16-69 years

Table 7: Cumulative number of confirmed cases of COVID-19 notified in Ireland from 25/09/2020 to midnight 08/10/2020 by age group, and 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	170	7	3.78	0	0
5-14 yrs	423	11	5.95	0	0
15-24 yrs	1664	16	8.65	0	0
25-34 yrs	1109	15	8.11	0	0
35-44 yrs	915	15	8.11	2	20
45-54 yrs	863	14	7.57	0	0
55-64 yrs	652	33	17.84	4	40
65-74 yrs	317	27	14.59	3	30
75-84 yrs	179	35	18.92	1	10
85+ yrs	108	12	6.49	0	0
Total	**6,400**	**185**	**100**	**10**	**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 13:23 on 09/10/2020. 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.