Epidemiology of COVID-19 in Ireland - 14 day report

Report prepared by HPSC on 05/09/2020

Summary characteristics of confirmed COVID-19 cases notified in Ireland from 22/08/2020 up to midnight 04/09/2020

	Number	Percent
Total number of confirmed cases	1,639	
National incidence of confirmed cases per 100,000 population	34.42	
Number of cases hospitalised*	56	3.42
Number of cases admitted to ICU*	3	0.18
Number of deaths among confirmed cases	0	0
Case fatality ratio (CFR, %)	0	
National incidence of confirmed deaths per 100,000 population	0	
Number of cases** associated with clusters	741	45.21
Number of imported cases	38	2.32
Number of cases in healthcare workers	169	10.31
Males	844	51.49
Females	791	48.26
M:F ratio	1.07	
Median age (years)	32	
Mean age (years)	35	
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 22/08/2020 - 04/09/2020

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 13:16 on 05/09/2020 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.
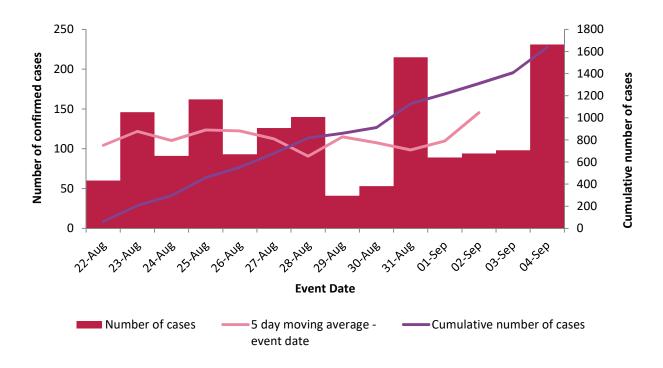
Figure 1. Daily number and cumulative number of confirmed cases of COVID-19, and 5-day moving average, by notification date (n=1,639)

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland from 22/08/2020 up to midnight on 04/09/202

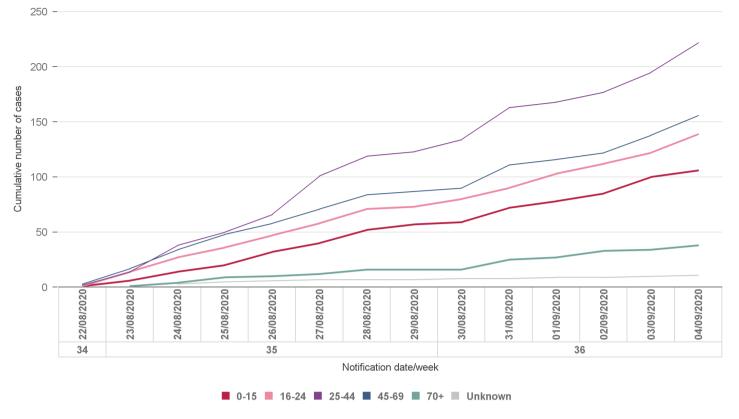| Characteristic		Number of cases	Percent
Total number of confirmed cases		**1,639**	**100**
Sex	Male:Female ratio	1.07	
	Male	844	51.49
	Female	791	48.26
	Unknown	4	0.24
Age	Median age (years)	32	
	Mean age (years)	35	
	Age range (years)	0 - 98	
	0-4 yrs	51	3.11
	5-14 yrs	141	8.6
	15-24 yrs	386	23.55
	25-34 yrs	312	19.04
	35-44 yrs	250	15.25
	45-54 yrs	220	13.42
	55-64 yrs	134	8.18
	65-74 yrs	60	3.66
	75-84 yrs	53	3.23
	85+ yrs	28	1.71
	Unknown	4	0.24
Underlying clinical conditions	Yes	416	25.38
	No	1,025	62.54
	Unknown	198	12.08

Figure 2: Cumulative number of confirmed COVID-19 cases notified in Ireland by date/week of notification and age group from 22/08/2020 to midnight 04/09/2020

Table 2: Characteristics of confirmed COVID-19 cases by CHO* notified from 22/08/2020 to midnight 04/09/2020

CHO Area	Cases		M:F ratio	Mean age (years)	Healthcare workers		Associated with clusters	
	N	%			N	%	N	%
CHO1	82	5	1.41	32	<5	4.88	60	73.17
CHO2	31	1.89	2.1	26	<5	6.45	16	51.61
CHO3	151	9.21	0.86	33	8	5.3	59	39.07
CHO4	60	3.66	1.31	29	5	8.33	40	66.67
CHO5	189	11.53	1.15	39	7	3.7	82	43.39
CHO6	160	9.76	1.24	36	19	11.88	50	31.25
CHO7	475	28.98	0.94	37	59	12.42	210	44.21
CHO8	158	9.64	1.32	36	32	20.25	86	54.43
CHO9	331	20.2	0.96	34	33	9.97	138	41.69
Unknown	<5	0.12	1	30	0	0	0	0
National	**1,639**	**100**	**1.07**	**35**	**169**	**10.31**	**741**	**45.21**

Table 3: Number of confirmed COVID-19 cases by community healthcare organisation* (CHO) notified in Ireland from 22/08/2020 to midnight 04/09/2020

CHO Area	Number of confirmed cases	Incidence per 100,000 population
CHO1	82	21.0
CHO2	31	6.8
CHO3	151	39.2
CHO4	60	8.7
CHO5	189	37.0
CHO6	160	41.8
CHO7	475	67.1
CHO8	158	25.5
CHO9	331	53.4
Unknown	2	0.3
Ireland	**1,639**	**34.4**

* **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

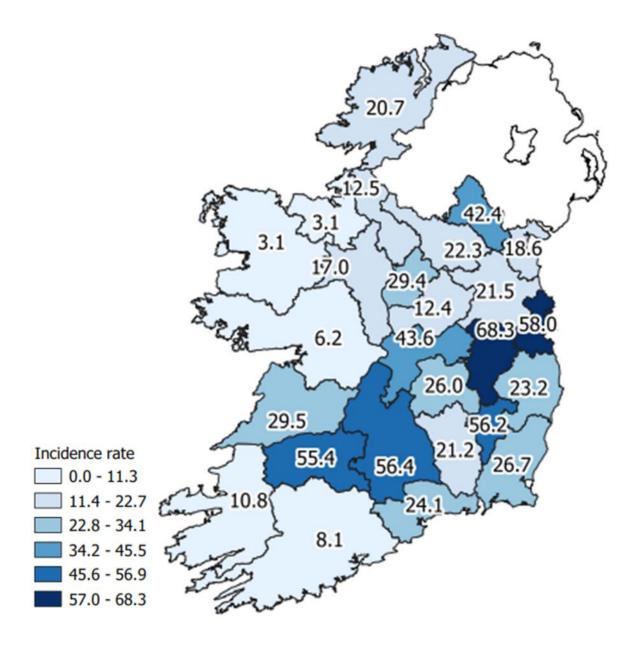**CHO6**: Dublin South East, Dun Laoghaire, Wicklow

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 22/08/2020 to midnight 04/09/2020

County	Number of confirmed cases	Incidence per 100,000 population
Carlow	32	56.2
Cavan	17	22.3
Clare	35	29.5
Cork	44	8.1
Donegal	33	20.7
Dublin	782	58.0
Galway	16	6.2
Kerry	16	10.8
Kildare	152	68.3
Kilkenny	21	21.2
Laois	22	26.0
Leitrim	<5	12.5
Limerick	108	55.4
Longford	12	29.4
Louth	24	18.6
Mayo	<5	3.1
Meath	42	21.5
Monaghan	26	42.4
Offaly	34	43.6
Roscommon	11	17.0
Sligo	<5	3.1
Tipperary	90	56.4
Waterford	28	24.1
Westmeath	11	12.4
Wexford	40	26.7
Wicklow	33	23.2
Ireland	**1,639**	**34.4**

Figure3: Cumulative incidence rates of confirmed cases of COVID-19 per 100,000 population, by county, notified in Ireland between 22/08/2020 and midnight 04/09/2020

Please do not directly compare 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 in Ireland with a notification date between 22/08/2020 and 04/09/2020

CCA	Local Health Office	Number of cases in past 14 days based on epi date	14 day incidence rates based on epi dates
CCA1	Dublin South	58	42.6
CCA2	Dublin South East	71	57.4
CCA3	Dublin South City	99	66.0
CCA4	Dublin South West	104	64.6
CCA5	Dublin West	118	76.0
CCA6	Dublin North West	122	58.7
CCA7	Dublin North Central	87	56.3
CCA8	Dublin North	122	47.1
	Dublin	**781**	**58.0**

*excludes one Dublin case for which LHO is unknown

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 22/08/2020 to midnight 04/09/2020

Most likely transmission source	Number of cases	Percent
Travel related *	115	7.02%
Close contact with a known confirmed case	845	51.56%
Healthcare setting acquired: patient	46	2.81%
Healthcare setting acquired: staff	63	3.84%
Community transmission	378	23.06%
Under investigation	192	11.71%
Total	**1,639**	**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
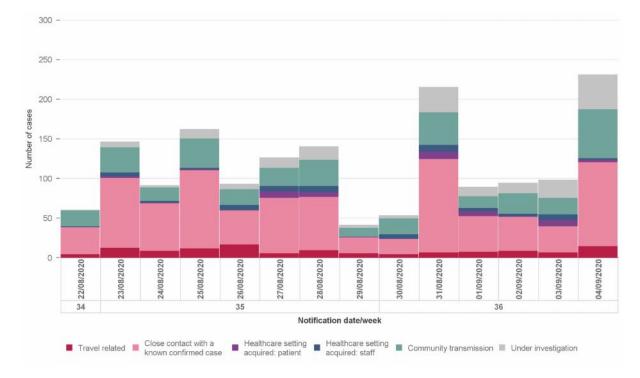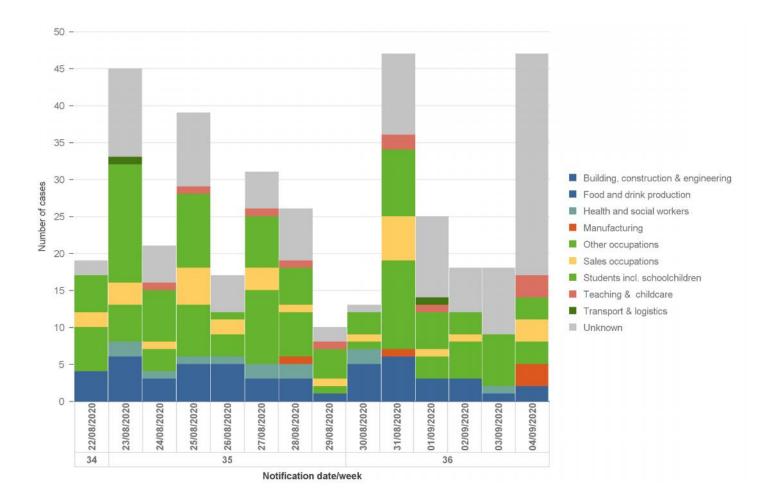

Figure 4: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and most likely transmission source from 22/08/2020 to midnight 04/09/2020

Figure 4: Number of confirmed COVID-19 cases notified in Ireland by date/week of notification and occupation* from 22/08/2020 to midnight 04/09/2020

*Among cases aged 16-69 years

Table 7: Cumulative number of confirmed cases of COVID-19 notified in Ireland from 22/08/2020 to midnight 04/09/2020 by age group and hospital, ICU* 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	51	2	3.57	1	33.0
5-14 yrs	141	2	3.57	0	0
15-24 yrs	386	9	16.07	0	0
25-34 yrs	312	5	8.93	0	0
35-44 yrs	250	1	1.79	0	0
45-54 yrs	220	6	10.71	1	33.0
55-64 yrs	134	6	10.71	1	33.0
65-74 yrs	60	7	12.5	0	0
75-84 yrs	53	10	17.86	0	0
85+ yrs	28	8	14.29	0	0
Unknown	4			0	
Total	**1,639**	**56**	**100**	**3**	**100**

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 13:16 on 05/09/2020. 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.