





Underlying conditions in confirmed cases of COVID-19 in Ireland

Report prepared by HPSC on 27/10/2020

As part of the public health follow-up of confirmed cases of COVID-19, information is routinely collected on whether a case has the following underlying medical conditions: chronic heart disease, chronic neurological disease, chronic respiratory disease, chronic kidney disease, chronic liver disease, hypertension, asthma requiring medication, immunodeficiency, diabetes mellitus, BMI \geq 40, cancer/malignancy, pregnancy and/or other comorbidities.

Up to midnight 24/10/2020, there were 57,111 confirmed cases of COVID-19;

- 53.3% (n=30,420) had no underlying medical condition
- 26.7% (n=15,253) had an underlying medical condition and
- 20.0% (n=11,438) were unknown/not reported

Of those with an underlying condition reported, 47.0% (n=7,176) had one underlying medical condition, 22.6% (n=3,441) had two underlying medical conditions; and 16.0% (n=2,433) had three of more underlying medical conditions reported. A further 14.4% (n=2,203) had no specific underlying medical condition reported.

Table 1 describes the number and proportion of individuals with and without underlying medical conditions in different settings.

Table 2 describes the number and proportion of individuals with and without underlying medical conditions by age group.

Table 3 lists specific underlying medical conditions and the number and proportion in different settings (as a proportion of cases where there is an underlying condition). The five most commonly reported conditions overall were, chronic respiratory disease, chronic heart disease, hypertension, diabetes mellitus and chronic neurological disease.

In addition to the conditions listed in Table 3, 6,223 cases were reported to have "other comorbidity" and 355 cases were reported to be pregnant.

Table 1: Underlying medical conditions in individuals with confirmed COVID-19 by setting, up to midnight 24/10/2020

	Community		Acute H	lospital	All set	ttings	IC	U	Died	
	Number	%	Number	%	Number	%	Number	%	Number	%
Underlying condition	12,565	23.8%	2,688	63.8%	15,253	26.7%	469	88.0%	1,534	94.0%
No underlying conditions	29,600	56.0%	820	19.5%	30,420	53.3%	63	11.8%	31	1.9%
Unknown	10,734	20.3%	704	16.7%	11,438	20.0%	1	0.2%	67	4.1%
Total	52,899	100.0%	4212	100.0%	57,111	100.0%	533	100.0%	1,632	100.0%

Table 2: Underlying medical conditions in individuals with confirmed COVID-19 by age group, up to midnight 24/10/2020

	0-1	4 yrs	15-2	24 yrs	25-3	34 yrs	35-4	14 yrs	45-	54 yrs	55-	64 yrs	65-7	74 yrs	75	+ yrs	Un	known	To	otal
Underlying condition	376	9.1%	1140	11.7%	1688	17.2%	1925	21.3%	2559	29.1%	2402	37.9%	1760	52.6%	3397	57.8%	6	20.7%	15253	26.7%
No underlying condition	3164	76.9%	7088	72.4%	6248	63.8%	5353	59.2%	4503	51.3%	2638	41.6%	866	25.9%	555	9.4%	5	17.2%	30420	53.3%
Unknown	575	14.0%	1557	15.9%	1863	19.0%	1757	19.4%	1717	19.6%	1306	20.6%	722	21.6%	1923	32.7%	18	62.1%	11438	20.0%
Total	4115	100.0%	9785	100.0%	9799	100.0%	9035	100.0%	8779	100.0%	6346	100.0%	3348	100.0%	5875	100.0%	29	100.0%	57111	100.0%

Table 3: Specific underlying medical conditions in individuals with confirmed COVID-19 by setting (as a proportion of cases who have an underlying condition), up to midnight 24/10/2020

	Community	Community (n=12,565)		tal (n=2,688)	All settings	s (n=15,253)	ICU (r	n=469)	Died (n=1,534)		
Chronic respiratory disease	2,921	23.2%	663	24.7%	3,584	23.5%	136	29.0%	280	18.3%	
Chronic heart disease	2,142	17.0%	1,106	41.1%	3,248	21.3%	256	54.6%	678	44.2%	
Hypertension	2,100	16.7%	591	22.0%	2,691	17.6%	189	40.3%	288	18.8%	
Diabetes mellitus	1,191	9.5%	540	20.1%	1,731	11.3%	145	30.9%	241	15.7%	
Chronic neurological disease	1,056	8.4%	400	14.9%	1,456	9.5%	26	5.5%	540	35.2%	
Cancer/malignancy	618	4.9%	398	14.8%	1016	6.7%	63	13.4%	249	16.2%	
Chronic kidney disease	408	3.2%	316	11.8%	724	4.7%	53	11.3%	185	12.1%	
Asthma requiring medication	371	3.0%	176	6.5%	547	3.6%	62	13.2%	33	2.2%	
Immunodeficiency including HIV	436	3.5%	136	5.1%	572	3.8%	34	7.2%	41	2.7%	
BMI ≥ 40	175	1.4%	153	5.7%	328	2.2%	100	21.3%	30	2.0%	
Chronic liver disease	146	1.2%	80	3.0%	226	1.5%	17	3.6%	31	2.0%	

Technical Notes

- Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 09:15 on 27/10/2020.
- Data provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.
- Acute Hospital refers to hospital in-patients and includes ICU cases; Community refers to all other cases
- Cases may have more than one underlying medical condition and therefore column totals in Table 3 will not add up to the number of cases in each category

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