



Underlying conditions in confirmed cases of COVID-19 in Ireland

Report prepared by HPSC on 19/10/2020

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 17/10/2020, there were 49,962 confirmed cases of COVID-19;

- 48.7% (n=24,318) had no underlying medical condition
- 29.8% (n=14,872) had an underlying medical condition and
- 21.5% (n=10,772) were unknown/not reported

Of those with an underlying condition reported, 46.9% (n=6,967) had one underlying medical condition, 22.6% (n=3,366) had two underlying medical conditions; and 15.9% (n=2,370) had three or more underlying medical conditions reported. A further 14.6% (n=2,169) 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, 6,079 cases were reported to have “other co-morbidity” and 341 cases were reported to be pregnant.

Table 1: Underlying medical conditions in individuals with confirmed COVID-19 by setting, up to midnight 17/10/2020

	Community		Acute Hospital		ICU		All settings		Died	
Underlying condition	12,238	26.6%	2,634	65.9%	449	87.9%	14,872	29.8%	1,517	97.2%
No underlying conditions	23,621	51.4%	697	17.4%	62	12.1%	24,318	48.7%	26	1.7%
Unknown	10,106	22.0%	666	16.7%	0	0.0%	10,772	21.5%	17	1.1%
Total	45,965	100.0%	3,997	100.0%	511	100.0%	49,962	100.0%	1,560	100.0%

Table 2: Underlying medical conditions in individuals with confirmed COVID-19 by age group, up to midnight 17/10/2020

	0-14 yrs		15-24 yrs		25-34 yrs		35-44 yrs		45-54 yrs		55-64 yrs		65-74 yrs		75+ yrs		Unk		Total	
Underlying condition	349	11.2%	1,095	13.6%	1,642	18.8%	1,881	23.3%	2,501	31.9%	2,331	41.9%	1,719	57.7%	3,348	60.3%	6	22.2%	14,872	29.8%
No underlying condition	2,135	68.8%	5,462	67.6%	5,360	61.3%	4,541	56.3%	3,740	47.8%	2,097	37.7%	620	20.8%	358	6.4%	5	18.5%	24,318	48.7%
Unknown	621	20.0%	1,523	18.8%	1,749	20.0%	1,650	20.4%	1,589	20.3%	1,136	20.4%	640	21.5%	1,848	33.3%	16	59.3%	10,772	21.6%
Total	3,105	100.0%	8,080	100.0%	8,751	100.0%	8,072	100.0%	7,830	100.0%	5,564	100.0%	2,979	100.0%	5554	100.0%	27	100.0%	49,962	100.0%

Table 3: Specific underlying medical conditions in individuals with confirmed COVID-19 by setting (as a proportion of cases where there is an underlying condition), up to midnight 17/10/2020

	Community (n=12,238)		Acute Hospital (n=2,634)		ICU (n=449)		All settings (n=14,872)		Died (n=1,517)	
Chronic respiratory disease	2,812	23.0%	654	24.8%	130	29.0%	3,466	23.3%	277	18.3%
Chronic heart disease	2,099	17.2%	1,083	41.1%	244	54.3%	3,182	21.4%	670	44.2%
Hypertension	2,026	16.6%	572	21.7%	180	40.1%	2,598	17.5%	282	18.6%
Diabetes mellitus	1,160	9.5%	530	20.1%	137	30.5%	1,690	11.4%	238	15.7%
Chronic neurological disease	1,048	8.6%	394	15.0%	24	5.3%	1,442	9.7%	533	35.1%
Cancer/malignancy	600	4.9%	396	15.0%	62	13.8%	996	6.7%	247	16.3%
Chronic kidney disease	395	3.2%	309	11.7%	48	10.7%	704	4.7%	181	11.9%
Asthma requiring medication	371	3.0%	171	6.5%	58	12.9%	542	3.6%	31	2.0%
Immunodeficiency including HIV	426	3.5%	137	5.2%	34	7.6%	563	3.8%	41	2.7%
BMI ≥ 40	175	1.4%	152	5.8%	99	22.0%	327	2.2%	30	2.0%
Chronic liver disease	145	1.2%	80	3.0%	17	3.8%	225	1.5%	31	2.0%

Technical Notes

- Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 09:15 on 19/10/2020.
- 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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