



Underlying conditions in confirmed cases of COVID-19 in Ireland

Report prepared by HPSC on 09/11/2020

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. Data for this report were extracted from Computerised Infectious Disease Reporting (CIDR) system up to midnight Saturday November 7th on 09/11/2020 at 09:15.

Up to midnight 07/11/2020, there were 65,389 confirmed cases of COVID-19;

- 56.8% (n=37,140) had no underlying medical condition
- 25.0% (n=16,313) had an underlying medical condition and
- 18.2% (n=11,936) were unknown/not reported

Of those with an underlying condition reported, 47.5% (n=7,742) had one underlying medical condition, 22.6% (n=3,687) had two underlying medical conditions; and 15.8% (n=2,574) had three or more underlying medical conditions reported. A further 14.1% (n=2,310) 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, hypertension, chronic heart disease, diabetes mellitus and chronic neurological disease.

In addition to the conditions listed in Table 3, 6,667 cases were reported to have “other comorbidity” and 389 cases were reported to be pregnant.

Table 1: Underlying medical conditions in individuals with confirmed COVID-19 by setting, up to midnight 07/11/2020

	Community		Acute Hospital		All settings		ICU		Died	
	Number	%	Number	%	Number	%	Number	%	Number	%
Underlying condition	13,420	22.1%	2,893	62.0%	16,313	24.9%	503	88.1%	1,575	93.3%
No underlying condition	36,117	59.5%	1,023	21.9%	37,140	56.8%	67	11.7%	46	2.7%
Unknown	11,188	18.4%	748	16.0%	11,936	18.3%	1	0.2%	68	4.0%
Total	60,725	100.0%	4,664	100.0%	65,389	100.0%	571	100.0%	1,689	100.0%

Table 2: Underlying medical conditions in individuals with confirmed COVID-19 by age group, up to midnight 07/11/2020

	0-14 yrs		15-24 yrs		25-34 yrs		35-44 yrs		45-54 yrs		55-64 yrs		65-74 yrs		75+ yrs		Unknown		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Underlying condition	416	7.7%	1,227	10.8%	1,798	16.2%	2,054	20.0%	2,713	27.2%	2,553	35.7%	1,916	50.3%	3,630	57.1%	6	18.8%	16,313	24.9%
No underlying condition	4,329	80.4%	8,404	74.2%	7,368	66.4%	6,377	62.1%	5,473	54.9%	3,244	45.4%	1,140	29.9%	799	12.6%	6	18.8%	37,140	56.8%
Unknown	640	11.9%	1,697	15.0%	1,924	17.3%	1,835	17.9%	1,785	17.9%	1,354	18.9%	756	19.8%	1,925	30.3%	20	62.5%	11,936	18.3%
Total	5,385	100.0%	11,328	100.0%	11,090	100.0%	10,266	100.0%	9,971	100.0%	7,151	100.0%	3,812	100.0%	6,354	100.0%	32	100.0%	65,389	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 07/11/2020

	Community (n=13,420)		Acute Hospital (n=2,893)		All settings (n=16,313)		ICU (n=503)		Died (n=1,575)	
	Number	%	Number	%	Number	%	Number	%	Number	%
Chronic respiratory disease	3,138	23.4%	728	25.2%	3,866	23.7%	151	30.0%	292	18.5%
Hypertension	2,334	17.4%	667	23.1%	3,001	18.4%	203	40.4%	297	18.9%
Chronic heart disease	2,223	16.6%	1,163	40.2%	3,386	20.8%	267	53.1%	693	44.0%
Diabetes mellitus	1,274	9.5%	582	20.1%	1,856	11.4%	156	31.0%	247	15.7%
Chronic neurological disease	1,133	8.4%	421	14.6%	1,554	9.5%	26	5.2%	551	35.0%
Cancer/malignancy	655	4.9%	426	14.7%	1,081	6.6%	68	13.5%	259	16.4%
Chronic kidney disease	430	3.2%	331	11.4%	761	4.7%	58	11.5%	193	12.3%
Asthma requiring medication	375	2.8%	185	6.4%	560	3.4%	71	14.1%	34	2.2%
Immunodeficiency including HIV	464	3.5%	142	4.9%	606	3.7%	34	6.8%	43	2.7%
BMI ≥ 40	175	1.3%	159	5.5%	334	2.0%	105	20.9%	33	2.1%
Chronic liver disease	155	1.2%	83	2.9%	238	1.5%	17	3.4%	32	2.0%

Technical Notes

- Data up to midnight Saturday November 7th were extracted from Computerised Infectious Disease Reporting (CIDR) system at 09:15 on 09/11/2020.
- 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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Prepared by HPSC Epi Team on 09/11/2020.