



Underlying conditions in confirmed cases of COVID-19 in Ireland

Report prepared by HPSC on 30/11/2020

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 28th on 30/11/2020 at 09:15.

Up to midnight 28/11/2020, there were 72,238 confirmed cases of COVID-19;

- 58.0% (n=41,869) had no underlying medical condition
- 25.3% (n=18,275) had an underlying medical condition and
- 16.7% (n=12,094) were unknown/not reported

Of those with an underlying condition reported, 47.7% (n=8,710) had one underlying medical condition, 22.6% (n=4,133) had two underlying medical conditions; and 16.0% (n=2,927) had three or more underlying medical conditions reported. A further 13.7% (n=2,505) 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, 7,514 cases were reported to have “other co-morbidity” and 430 cases were reported to be pregnant.

Table 1: Underlying medical conditions in individuals with confirmed COVID-19 by setting, up to midnight 28/11/2020

	Community		Acute Hospital		All settings		ICU		Died	
	Number	%	Number	%	Number	%	Number	%	Number	%
Underlying condition	15,019	22.4%	3,256	62.5%	18,275	25.3%	549	88.7%	1,675	93.3%
No underlying condition	40,694	60.7%	1,175	22.6%	41,869	58.0%	70	11.3%	48	2.7%
Unknown	11,317	16.9%	777	14.9%	12,094	16.7%	0	0.0%	71	4.0%
Total	67,030	100.0%	5,208	100.0%	72,238	100.0%	619	100.0%	1,794	100.0%

Table 2: Underlying medical conditions in individuals with confirmed COVID-19 by age group, up to midnight 28/11/2020

	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	516	8.0%	1,456	11.5%	2,010	16.6%	2,296	20.3%	3,036	27.8%	2,812	36.3%	2,140	51.5%	4,003	58.5%	6	17.6%	18,275	25.3%
No underlying condition	5,237	81.5%	9,471	74.9%	8,177	67.3%	7,177	63.3%	6,094	55.8%	3,572	46.2%	1,254	30.2%	880	12.9%	7	20.6%	41,869	58.0%
Unknown	672	10.5%	1,719	13.6%	1,955	16.1%	1,859	16.4%	1,794	16.4%	1,353	17.5%	761	18.3%	1,960	28.6%	21	61.8%	12,094	16.7%
Total	6,425	100.0%	12,646	100.0%	12,142	100.0%	11,332	100.0%	10,924	100.0%	7,737	100.0%	4,155	100.0%	6,843	100.0%	34	100.0%	72,238	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 28/11/2020

	Community (n=15,019)		Acute Hospital (n=3,256)		All settings (n=18,275)		ICU (n=549)		Died (n=1,675)	
	Number	%	Number	%	Number	%	Number	%	Number	%
Chronic respiratory disease	3,636	24.2%	838	25.7%	4,474	24.5%	167	30.4%	323	19.3%
Hypertension	2,747	18.3%	814	25.0%	3,561	19.5%	218	39.7%	336	20.1%
Chronic heart disease	2,396	16.0%	1,287	39.5%	3,683	20.2%	292	53.2%	736	43.9%
Diabetes mellitus	1,449	9.6%	667	20.5%	2,116	11.6%	172	31.3%	273	16.3%
Chronic neurological disease	1,229	8.2%	486	14.9%	1,715	9.4%	30	5.5%	580	34.6%
Cancer/malignancy	736	4.9%	492	15.1%	1,228	6.7%	78	14.2%	283	16.9%
Chronic kidney disease	493	3.3%	373	11.5%	866	4.7%	63	11.5%	213	12.7%
Asthma requiring medication	388	2.6%	193	5.9%	581	3.2%	78	14.2%	38	2.3%
Immunodeficiency including HIV	513	3.4%	157	4.8%	670	3.7%	39	7.1%	46	2.7%
BMI ≥ 40	175	1.2%	164	5.0%	339	1.9%	110	20.0%	36	2.1%
Chronic liver disease	173	1.2%	97	3.0%	270	1.5%	21	3.8%	34	2.0%

Technical Notes

- Data up to midnight Saturday November 28th were extracted from Computerised Infectious Disease Reporting (CIDR) system at 09:15 on 30/11/2020.
- 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 30/11/2020.