



Underlying conditions in confirmed cases of COVID-19 in Ireland

Report prepared by HPSC on 12/10/2020

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 11/10/2020, there were 43,351 confirmed cases of COVID-19;

- 47.4% (n=20,551) had no underlying medical condition
- 32.6% (n=14,131) had an underlying medical condition and
- 20.0% (n=8,669) were unknown/not reported

Of those with an underlying condition reported, 46.4% (n=6,550) had one underlying medical condition, 22.7% (n=3,211) had two underlying medical conditions; and 16.1% (n=2,282) had three or more underlying medical conditions reported. A further 14.8% (n=2,088) 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 (where data are reported on underlying medical conditions). 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, 5,798 cases were reported to have “other comorbidity” and 304 cases were reported to be pregnant.

Table 1: Underlying medical conditions in individuals with confirmed COVID-19 by setting, up to midnight 11/10/2020

	Community		Acute Hospital		All settings		ICU		Died	
Underlying condition	11,566	29.3%	2,565	66.9%	14,131	32.6%	432	88.0%	1,497	97.1%
No underlying conditions	19,911	50.4%	640	16.7%	20,551	47.4%	59	12.0%	27	1.8%
Unknown	8,038	20.3%	631	16.4%	8,669	20.0%	0	0.0%	18	1.1%
Total	39,515	100.0%	3836	100.0%	43,351	100.0%	491	100.0%	1,542	100.0%

Table 2: Underlying medical conditions in individuals with confirmed COVID-19 by age group, up to midnight 11/10/2020

	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	318	13.4%	981	15.7%	1533	20.0%	1787	25.1%	2378	34.1%	2218	45.2%	1631	60.9%	3279	61.3%	6	20.7%	14131	32.6%
No underlying condition	1729	72.9%	4269	68.3%	4677	61.2%	4002	56.1%	3300	47.3%	1764	35.9%	505	18.9%	301	5.6%	5	17.2%	20552	47.4%
Unknown	326	13.7%	1004	16.1%	1436	18.8%	1342	18.8%	1305	18.7%	929	18.9%	542	20.2%	1766	33.0%	18	62.1%	8668	20.0%
Total	2373	100.0%	6254	100.0%	7646	100.0%	7131	100.0%	6983	100.0%	4911	100.0%	2678	100.0%	5346	100.0%	29	100.0%	43351	100.0%

Table 3: Specific underlying medical conditions in individuals with confirmed COVID-19 by setting (as a proportion of cases where data on underlying medical conditions are available), up to midnight 11/10/2020

	Community (n=29,123)		Acute Hospital (n=3,205)		All settings (n=32,328)		ICU (n=491)		Died (n=1524)	
Chronic respiratory disease	2398	8.2%	636	19.8%	3034	9.4%	123	25.1%	271	17.8%
Chronic heart disease	1898	6.5%	1062	33.1%	2960	9.2%	234	47.7%	663	43.5%
Hypertension	1739	6.0%	551	17.2%	2290	7.1%	172	35.0%	273	17.9%
Diabetes mellitus	1035	3.6%	519	16.2%	1554	4.8%	133	27.1%	236	15.5%
Chronic neurological disease	973	3.3%	383	12.0%	1356	4.2%	24	4.9%	525	34.4%
Cancer/malignancy	545	1.9%	389	12.1%	934	2.9%	59	12.0%	241	15.8%
Chronic kidney disease	351	1.2%	300	9.4%	651	2.0%	45	9.2%	179	11.7%
Asthma requiring medication	338	1.2%	169	5.3%	507	1.6%	57	11.6%	31	2.0%
Immunodeficiency including HIV	375	1.3%	129	4.0%	504	1.6%	32	6.5%	39	2.6%
BMI ≥ 40	165	0.6%	149	4.6%	314	1.0%	96	19.6%	31	2.0%
Chronic liver disease	129	0.4%	79	2.5%	208	0.6%	17	3.5%	30	2.0%

Technical Notes

- Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 09:15 on 12/10/2020.
- 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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