



Underlying conditions in confirmed cases of COVID-19 in Ireland 21/09/2020

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 19/09/2020, there were 32,933 confirmed cases of COVID-19;

- 42.7% (n=14,058) had no underlying medical condition
- 36.5% (n=12,019) had an underlying medical condition and
- 20.8% (n=6,856) were unknown/not reported

Of those with an underlying condition reported, 44.8% (n=5,379) had one underlying medical condition, 22.9% (n=2,747) had two underlying medical conditions; and 17.0% (n=2,040) had three or more underlying medical conditions reported. A further 15.4% (n=1,853) 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 heart disease, chronic respiratory disease, hypertension, diabetes mellitus and chronic neurological disease.

In addition to the conditions listed in Table 3, 4,891 cases were reported to have “other comorbidity” and 245 cases were reported to be pregnant.

Table 1: Underlying medical conditions in individuals with confirmed COVID-19 by setting, up to midnight 19/09/2020

	Community		Acute Hospital		ICU		All settings		Died	
Underlying condition	9,609	32.7%	2,410	68.4%	402	87.4%	12019	36.5%	1459	95.0%
No underlying conditions	13,498	45.9%	560	15.9%	57	12.4%	14,058	42.7%	32	2.1%
Unknown	6302	21.4%	554	15.7%	1	0.2%	6856	20.8%	44	2.9%
Total	29,409	100.0%	3524	100.0%	460	100.0%	32933	100.0%	1535	100.0%

Table 2: Underlying medical conditions in individuals with confirmed COVID-19 by age group, up to midnight 19/09/2020

	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	202	14.5%	680	19.4%	1274	22.1%	1538	27.1%	2052	36.7%	1856	47.6%	1395	64.0%	3016	61.4%	6	25.0%	12019	36.5%
No underlying condition	1020	73.4%	2296	65.5%	3392	58.9%	3026	53.4%	2464	44.1%	1290	33.1%	323	14.8%	242	4.9%	5	20.8%	14058	42.7%
Unknown	167	12.0%	528	15.1%	1097	19.0%	1107	19.5%	1075	19.2%	750	19.3%	461	21.2%	1658	33.7%	13	54.2%	6856	20.8%
Total	1389	100.0%	3504	100.0%	5763	100.0%	5671	100.0%	5591	100.0%	3896	100.0%	2179	100.0%	4916	100.0%	24	100.0%	32933	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 19/09/2020

	Community (n=23,107)		Acute Hospital (n=2,970)		ICU (n=459)		All settings (n=26,077)		Died (n=1,491)	
Chronic heart disease	1851	8.0%	1030	34.7%	223	48.6%	2881	11.0%	652	43.7%
Chronic respiratory disease	2014	8.7%	595	20.0%	114	24.8%	2609	10.0%	262	17.6%
Hypertension	1386	6.0%	482	16.2%	142	30.9%	1868	7.2%	257	17.2%
Diabetes mellitus	941	4.1%	483	16.3%	121	26.4%	1424	5.5%	230	15.4%
Chronic neurological disease	918	4.0%	367	12.4%	22	4.8%	1285	4.9%	513	34.4%
Cancer/malignancy	482	2.1%	368	12.4%	52	11.3%	850	3.3%	236	15.8%
Chronic kidney disease	324	1.4%	258	8.7%	41	8.9%	582	2.2%	176	11.8%
Asthma requiring medication	345	1.5%	165	5.6%	54	11.8%	510	2.0%	29	1.9%
Immunodeficiency including HIV	349	1.5%	120	4.0%	29	6.3%	469	1.8%	38	2.5%
BMI ≥ 40	174	0.8%	141	4.7%	87	19.0%	315	1.2%	31	2.1%
Chronic liver disease	114	0.5%	72	2.4%	16	3.5%	186	0.7%	29	1.9%

Technical Notes

- Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 09:15 on 21/09/2020.
- 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 21/09/2020.