



Underlying conditions in confirmed cases of COVID-19 in Ireland 07/09/2020

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 05/09/2020, there were 29,672 confirmed cases of COVID-19;

- 40.5% (n=12,019) had no underlying medical condition
- 37.2% (n=11,035) had an underlying medical condition and
- 22.3% (n=6,618) were unknown/not reported

Of those with an underlying condition reported, 44.3% (n=4,885) had one underlying condition, 22.8% (n=2,511) had two underlying medical conditions; and 17.4% (n=1,918) had three or more underlying medical conditions reported. A further 15.6% (n=1,721) 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 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 2, 4,501 cases were reported to have “other comorbidity” and 222 cases were reported to be pregnant

Table 1: Underlying medical conditions in individuals with confirmed COVID-19 by setting, up to midnight 05/09/2020

	Community		Acute Hospital		ICU		All settings		Died	
Underlying condition reported	8,686	33.1%	2,349	68.5%	392	87.5%	11,035	37.2%	1,443	95.0%
No underlying condition reported	11,482	43.7%	537	15.7%	56	12.5%	12,019	40.5%	30	2.0%
Unknown	6,077	23.2%	541	15.8%	0	0.0%	6,618	22.3%	46	3.0%
Total	26,245	100.0%	3,427	100.0%	448	100.0%	29,672	100.0%	1,519	100.0%

Table 2: Specific underlying medical conditions by setting (as a proportion of cases where data on underlying medical conditions are available), up to midnight 05/09/2020

	Community (n=20,168)		Acute Hospital (n=2,886)		ICU (n=448)		All settings (n=23,054)		Died (n=1,473)	
Chronic heart disease	1,779	8.8%	1,003	34.8%	219	48.9%	2,782	12.1%	645	43.8%
Chronic respiratory disease	1,731	8.6%	574	19.9%	112	25.0%	2,305	10.0%	260	17.7%
Hypertension	1,153	5.7%	455	15.8%	136	30.4%	1,608	7.0%	247	16.8%
Diabetes mellitus	849	4.2%	475	16.5%	117	26.1%	1,324	5.7%	224	15.2%
Chronic neurological disease	889	4.4%	356	12.3%	20	4.5%	1,245	5.4%	506	34.4%
Cancer/malignancy	431	2.1%	355	12.3%	49	10.9%	786	3.4%	231	15.7%
Chronic kidney disease	304	1.5%	281	9.7%	40	8.9%	585	2.5%	173	11.7%
Asthma requiring medication	329	1.6%	164	5.7%	53	11.8%	493	2.1%	29	2.0%
Immunodeficiency including HIV	309	1.5%	115	4.0%	26	5.8%	424	1.8%	37	2.5%
BMI ≥ 40	169	0.8%	138	4.8%	86	19.2%	307	1.3%	30	2.0%
Chronic liver disease	100	0.5%	68	2.4%	14	3.1%	168	0.7%	28	1.9%

Technical Notes:

- Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 09:15 on 07/09/2020 and are 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

Prepared by HPSC Epi Team on 07/09/2020.

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