



Underlying conditions in confirmed cases of COVID-19 in Ireland 14/09/2020

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 12/09/2020, there were 30,984 confirmed cases of COVID-19;

- 41.5% (n=12,861) had no underlying medical condition
- 36.9% (n=11,435) had an underlying medical condition and
- 21.6% (n=6,688) were unknown/not reported

Of those with an underlying condition reported, 44.4% (n=5,085) had one underlying medical condition, 22.8% (n=2,612) had two underlying medical conditions; and 17.3% (n=1,975) had three or more underlying medical conditions reported. A further 15.4% (n=1,763) 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 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, 4,653 cases were reported to have “other comorbidity” and 235 cases were reported to be pregnant

Table 1: Underlying medical conditions in individuals with confirmed COVID-19 by setting, up to midnight 12/09/2020

	Community		Acute Hospital		ICU		All settings		Died	
Underlying condition	9,064	32.9%	2,371	68.6%	394	87.6%	11,435	36.9%	1,455	95.3%
No underlying condition	12,318	44.7%	543	15.7%	56	12.4%	12,861	41.5%	30	2.0%
Unknown	6,145	22.3%	543	15.7%	0	0.0%	6,688	21.6%	42	2.8%
Total	27,527	100.0%	3,457	100.0%	450	100.0%	30,984	100.0%	1,527	100.0%

Table 2: Underlying medical conditions in individuals with confirmed COVID-19 by age group, up to midnight 12/09/2020

	0-14 years		15-24 years		25-34 years		35-44 years		45-54 years		55-64 years		65-74 years		75+ years		Unknown		Total	
Underlying condition	170	14.7%	592	19.4%	1204	22.1%	1456	27.0%	1943	36.6%	1770	47.8%	1314	64.1%	2980	61.5%	6	25.0%	11435	36.9%
No underlying condition	847	73.0%	1967	64.6%	3173	58.1%	2839	52.7%	2310	43.5%	1203	32.5%	287	14.0%	230	4.7%	5	20.8%	12861	41.5%
Unknown	143	12.3%	487	16.0%	1081	19.8%	1091	20.3%	1053	19.8%	732	19.8%	449	21.9%	1639	33.8%	13	54.2%	6688	21.6%
Total	1160	100.0%	3046	100.0%	5458	100.0%	5386	100.0%	5306	100.0%	3705	100.0%	2050	100.0%	4849	100.0%	24	100.0%	30984	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 12/09/2020

	Community (n=21,382)		Acute Hospital (n=2,914)		ICU (n=450)		All settings (n=24,296)		Died (n=1,485)	
Chronic heart disease	1817	8.5%	1009	34.6%	219	48.7%	2826	11.6%	650	43.8%
Chronic respiratory disease	1854	8.7%	578	19.8%	112	24.9%	2432	10.0%	262	17.6%
Hypertension	1252	5.9%	467	16.0%	137	30.4%	1719	7.1%	253	17.0%
Diabetes mellitus	888	4.2%	480	16.5%	119	26.4%	1368	5.6%	227	15.3%
Chronic neurological disease	908	4.2%	361	12.4%	20	4.4%	1269	5.2%	512	34.5%
Cancer/malignancy	455	2.1%	362	12.4%	51	11.3%	817	3.4%	234	15.8%
Chronic kidney disease	312	1.5%	283	9.7%	40	8.9%	595	2.4%	175	11.8%
Asthma requiring medication	339	1.6%	164	5.6%	53	11.8%	503	2.1%	29	2.0%
Immunodeficiency including HIV	326	1.5%	115	3.9%	26	5.8%	441	1.8%	38	2.6%
BMI ≥ 40	173	0.8%	139	4.8%	86	19.1%	312	1.3%	31	2.1%
Chronic liver disease	111	0.5%	69	2.4%	14	3.1%	180	0.7%	28	1.9%

Technical Notes

- Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 09:15 on 14/09/2020.
- 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

Acknowledgements

Sincere thanks are extended to all those who are participating in the collection of data and reporting of data used in this report. This includes the HSE COVID-19 Contact Management Programme (CMP), staff in ICU units, notifying clinicians, laboratory staff, public health doctors, nurses, surveillance scientists, microbiologists and administrative staff.

Prepared by HPSC Epi Team on 14/09/2020.