



Underlying conditions in confirmed cases of COVID-19 in Ireland

Report prepared by HPSC on 23/11/2020

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 21st on 23/11/2020 at 09:15.

Up to midnight 21/11/2020, there were 70,459 confirmed cases of COVID-19;

- 57.7% (n=40,632) had no underlying medical condition
- 25.1% (n=17,712) had an underlying medical condition and
- 17.2% (n=12,115) were unknown/not reported

Of those with an underlying condition reported, 47.7% (n=8,439) had one underlying medical condition, 22.7% (n=4,019) had two underlying medical conditions; and 15.9% (n=2,820) had three or more underlying medical conditions reported. A further 13.7% (n=2,434) 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, 7,283 cases were reported to have “other comorbidity” and 407 cases were reported to be pregnant.

Table 1: Underlying medical conditions in individuals with confirmed COVID-19 by setting, up to midnight 21/11/2020

	Community		Acute Hospital		All settings		ICU		Died	
	Number	%	Number	%	Number	%	Number	%	Number	%
Underlying condition	14,563	22.3%	3,149	62.3%	17,712	25.1%	535	88.6%	1,638	92.9%
No underlying condition	39,495	60.4%	1,137	22.5%	40,632	57.7%	69	11.4%	50	2.8%
Unknown	11,348	17.4%	767	15.2%	12,115	17.2%	0	0.0%	75	4.3%
Total	65,406	100.0%	5,053	100.0%	70,459	100.0%	604	100.0%	1,763	100.0%

Table 2: Underlying medical conditions in individuals with confirmed COVID-19 by age group, up to midnight 21/11/2020

	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	484	7.9%	1,391	11.3%	1,940	16.3%	2,227	20.2%	2,951	27.6%	2,736	36.1%	2,086	51.3%	3,891	58.0%	6	18.2%	17,712	25.1%
No underlying condition	4,984	81.2%	9,201	74.7%	7,983	67.2%	6,968	63.0%	5,928	55.5%	3,483	45.9%	1,219	30.0%	859	12.8%	7	21.2%	40,632	57.7%
Unknown	673	11.0%	1,718	14.0%	1,961	16.5%	1,857	16.8%	1,799	16.8%	1,368	18.0%	763	18.8%	1,956	29.2%	20	60.6%	12,115	17.2%
Total	6,141	100.0%	12,310	100.0%	11,884	100.0%	11,052	100.0%	10,678	100.0%	7,587	100.0%	4,068	100.0%	6,706	100.0%	33	100.0%	70,459	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 21/11/2020

	Community (n=14,563)		Acute Hospital (n=3,149)		All settings (n=17,712)		ICU (n=535)		Died (n=1,638)	
	Number	%	Number	%	Number	%	Number	%	Number	%
Chronic respiratory disease	3,500	24.0%	808	25.7%	4,308	24.3%	161	30.1%	311	19.0%
Hypertension	2,639	18.1%	763	24.2%	3,402	19.2%	213	39.8%	319	19.5%
Chronic heart disease	2,358	16.2%	1,240	39.4%	3,598	20.3%	282	52.7%	721	44.0%
Diabetes mellitus	1,404	9.6%	640	20.3%	2,044	11.5%	165	30.8%	259	15.8%
Chronic neurological disease	1,202	8.3%	468	14.9%	1,670	9.4%	29	5.4%	569	34.7%
Cancer/malignancy	716	4.9%	476	15.1%	1,192	6.7%	77	14.4%	276	16.8%
Chronic kidney disease	477	3.3%	356	11.3%	833	4.7%	59	11.0%	202	12.3%
Asthma requiring medication	384	2.6%	191	6.1%	575	3.2%	77	14.4%	36	2.2%
Immunodeficiency including HIV	501	3.4%	148	4.7%	649	3.7%	36	6.7%	45	2.7%
BMI ≥ 40	175	1.2%	161	5.1%	336	1.9%	107	20.0%	37	2.3%
Chronic liver disease	168	1.2%	94	3.0%	262	1.5%	20	3.7%	33	2.0%

Technical Notes

- Data up to midnight Saturday November 21st were extracted from Computerised Infectious Disease Reporting (CIDR) system at 09:15 on 23/11/2020.
- 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

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 23/11/2020.