



## Underlying conditions in confirmed cases of COVID-19 in Ireland

Report prepared by HPSC on 02/11/2020

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 Diseases Reporting system (CIDR) on the 02/11/2020 at 9:15 am.

Up to midnight 31/10/2020, there were 61,996 confirmed cases of COVID-19;

- 55.2% (n=34,195) had no underlying medical condition
- 25.0% (n=15,530) had an underlying medical condition and
- 19.8% (n=12,271) were unknown/not reported

Of those with an underlying condition reported, 47.2% (n=7,336) had one underlying medical condition, 22.5% (n=3,498) had two underlying medical conditions; and 15.9% (n=2,459) had three or more underlying medical conditions reported. A further 14.4% (n=2,237) 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, chronic heart disease, hypertension, diabetes mellitus and chronic neurological disease.

In addition to the conditions listed in Table 3, 6,324 cases were reported to have “other comorbidity” and 370 cases were reported to be pregnant.

**Table 1: Underlying medical conditions in individuals with confirmed COVID-19 by setting, up to midnight 31/10/2020**

	Community		Acute Hospital		All settings		ICU		Died	
	Number	%	Number	%	Number	%	Number	%	Number	%
Underlying condition	12,765	22.2%	2,765	62.7%	15,530	25.1%	482	87.8%	1,554	93.8%
No underlying condition	33,297	57.8%	898	20.4%	34,195	55.2%	66	12.0%	35	2.1%
Unknown	11,523	20.0%	748	17.0%	12,271	19.8%	1	0.2%	68	4.1%
<b>Total</b>	<b>57,585</b>	<b>100.0%</b>	<b>4,411</b>	<b>100.0%</b>	<b>61,996</b>	<b>100.0%</b>	<b>549</b>	<b>100.0%</b>	<b>1,657</b>	<b>100.0%</b>

**Table 2: Underlying medical conditions in individuals with confirmed COVID-19 by age group, up to midnight 31/10/2020**

	0-14 yrs		15-24 yrs		25-34 yrs		35-44 yrs		45-54 yrs		55-64 yrs		65-74 yrs		75+ yrs		Unknown		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Underlying condition	387	7.9%	1,155	10.7%	1,720	16.4%	1,953	20.1%	2,592	27.3%	2,448	35.8%	1,801	49.8%	3,468	56.6%	6	20.0%	15,530	25.1%
No underlying condition	3,788	77.4%	7,884	73.2%	6,830	65.0%	5,887	60.5%	5,073	53.5%	3,013	44.0%	1,041	28.8%	674	11.0%	5	16.7%	34,195	55.2%
Unknown	716	14.6%	1,738	16.1%	1,950	18.6%	1,886	19.4%	1,822	19.2%	1,382	20.2%	776	21.4%	1,982	32.4%	19	63.3%	12,271	19.8%
<b>Total</b>	<b>4,891</b>	<b>100.0%</b>	<b>10,777</b>	<b>100.0%</b>	<b>10,500</b>	<b>100.0%</b>	<b>9,726</b>	<b>100.0%</b>	<b>9,487</b>	<b>100.0%</b>	<b>6,843</b>	<b>100.0%</b>	<b>3,618</b>	<b>100.0%</b>	<b>6,124</b>	<b>100.0%</b>	<b>30</b>	<b>100.0%</b>	<b>61,996</b>	<b>100.0%</b>

**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 31/10/2020**

	Community (n=12,765)		Acute Hospital (n=2,765)		All settings (n=15,530)		ICU (n=482)		Died (n=1,554)	
	Number	%	Number	%	Number	%	Number	%	Number	%
Chronic respiratory disease	2,973	23.3%	686	24.8%	3,659	23.6%	140	29.0%	284	18.3%
Chronic heart disease	2,160	16.9%	1,125	40.7%	3,285	21.2%	262	54.4%	684	44.0%
Hypertension	2,154	16.9%	620	22.4%	2,774	17.9%	195	40.5%	291	18.7%
Diabetes mellitus	1,201	9.4%	554	20.0%	1,755	11.3%	150	31.1%	242	15.6%
Chronic neurological disease	1,078	8.4%	403	14.6%	1,481	9.5%	26	5.4%	544	35.0%
Cancer/malignancy	626	4.9%	411	14.9%	1,037	6.7%	66	13.7%	253	16.3%
Chronic kidney disease	411	3.2%	320	11.6%	731	4.7%	55	11.4%	188	12.1%
Asthma requiring medication	371	2.9%	177	6.4%	548	3.5%	63	13.1%	34	2.2%
Immunodeficiency including HIV	441	3.5%	140	5.1%	581	3.7%	34	7.1%	43	2.8%
BMI ≥ 40	175	1.4%	154	5.6%	329	2.1%	101	21.0%	30	1.9%
Chronic liver disease	148	1.2%	80	2.9%	228	1.5%	17	3.5%	31	2.0%

### Technical Notes

- Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 09:15 on 02/11/2020.
- 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

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