



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

Report prepared by HPSC on 16/11/2020

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 14<sup>th</sup> on 16/11/2020 at 09:15.

Up to midnight 14/11/2020, there were 67,900 confirmed cases of COVID-19;

- 57.3% (n=38,893) had no underlying medical condition
- 25.1% (n=17,053) had an underlying medical condition and
- 17.6% (n=11,954) were unknown/not reported

Of those with an underlying condition reported, 47.5% (n=8,099) had one underlying medical condition, 22.6% (n=3,870) had two underlying medical conditions; and 15.9% (n=2,706) had three or more underlying medical conditions reported. A further 14.0% (n=2,378) 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, 6,988 cases were reported to have “other comorbidity” and 399 cases were reported to be pregnant.

**Table 1: Underlying medical conditions in individuals with confirmed COVID-19 by setting, up to midnight 14/11/2020**

	Community		Acute Hospital		All settings		ICU		Died	
	Number	%	Number	%	Number	%	Number	%	Number	%
Underlying condition	14,014	22.2%	3,039	62.4%	17,053	25.1%	524	88.4%	1,606	93.1%
No underlying condition	37,812	60.0%	1,081	22.2%	38,893	57.3%	69	11.6%	48	2.8%
Unknown	11,203	17.8%	751	15.4%	11,954	17.6%	0	0.0%	71	4.1%
<b>Total</b>	<b>63,029</b>	<b>100.0%</b>	<b>4,871</b>	<b>100.0%</b>	<b>67,900</b>	<b>100.0%</b>	<b>593</b>	<b>100.0%</b>	<b>1,725</b>	<b>100.0%</b>

**Table 2: Underlying medical conditions in individuals with confirmed COVID-19 by age group, up to midnight 14/11/2020**

	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	454	7.9%	1,307	11.1%	1,863	16.2%	2,134	20.0%	2,841	27.5%	2,652	35.9%	2,013	50.9%	3,783	57.7%	6	18.8%	17,053	25.1%
No underlying condition	4,653	81.0%	8,784	74.6%	7,680	66.9%	6,682	62.8%	5,700	55.2%	3,382	45.8%	1,179	29.8%	827	12.6%	6	18.8%	38,893	57.3%
Unknown	635	11.1%	1,690	14.3%	1,942	16.9%	1,829	17.2%	1,788	17.3%	1,348	18.3%	760	19.2%	1,942	29.6%	20	62.5%	11,954	17.6%
<b>Total</b>	<b>5,742</b>	<b>100.0%</b>	<b>11,781</b>	<b>100.0%</b>	<b>11,485</b>	<b>100.0%</b>	<b>10,645</b>	<b>100.0%</b>	<b>10,329</b>	<b>100.0%</b>	<b>7,382</b>	<b>100.0%</b>	<b>3,952</b>	<b>100.0%</b>	<b>6,552</b>	<b>100.0%</b>	<b>32</b>	<b>100.0%</b>	<b>67,900</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 14/11/2020**

	Community (n=14,014)		Acute Hospital (n=3,039)		All settings (n=17,053)		ICU (n=524)		Died (n=1,606)	
	Number	%	Number	%	Number	%	Number	%	Number	%
Chronic respiratory disease	3,316	23.7%	776	25.5%	4,092	24.0%	156	29.8%	300	18.7%
Hypertension	2,485	17.7%	726	23.9%	3,211	18.8%	211	40.3%	304	18.9%
Chronic heart disease	2,289	16.3%	1,214	39.9%	3,503	20.5%	277	52.9%	703	43.8%
Diabetes mellitus	1,343	9.6%	618	20.3%	1,961	11.5%	162	30.9%	255	15.9%
Chronic neurological disease	1,173	8.4%	440	14.5%	1,613	9.5%	28	5.3%	557	34.7%
Cancer/malignancy	688	4.9%	456	15.0%	1,144	6.7%	75	14.3%	268	16.7%
Chronic kidney disease	455	3.2%	344	11.3%	799	4.7%	59	11.3%	195	12.1%
Asthma requiring medication	383	2.7%	188	6.2%	571	3.3%	74	14.1%	34	2.1%
Immunodeficiency including HIV	485	3.5%	146	4.8%	631	3.7%	36	6.9%	45	2.8%
BMI ≥ 40	175	1.2%	161	5.3%	336	2.0%	107	20.4%	34	2.1%
Chronic liver disease	159	1.1%	86	2.8%	245	1.4%	19	3.6%	32	2.0%

### Technical Notes

- Data up to midnight Saturday November 14<sup>th</sup> were extracted from Computerised Infectious Disease Reporting (CIDR) system at 09:15 on 16/11/2020.
- 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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