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Underlying conditions in confirmed cases of COVID-19 in Ireland Report prepared by HPSC ON 28/09/2020

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Underlying conditions in confirmed cases of COVID-19 in Ireland

Report prepared by HPSC ON 28/09/2020

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 26/09/2020, there were 34,987 confirmed cases of COVID-19;

- 43.9% (n=15,357) had no underlying medical condition
- 36.0% (n=12,595) had an underlying medical condition and
- 20.1% (n=7,035) were unknown/not reported

Of those with an underlying condition reported, 45.3% (n=5,707) had one underlying medical condition, 22.8% (n=2,870) had two underlying medical conditions; and 16.6% (n=2,088) had three or more underlying medical conditions reported. A further 15.3% (n=1,930) 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 (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 3, 5,134 cases were reported to have “other comorbidity” and 267 cases were reported to be pregnant.

Table 1: Underlying medical conditions in individuals with confirmed COVID-19 by setting, up to midnight 26/09/2020

	Community		Acute Hospital		ICU		All settings		Died	
Underlying condition	10,142	32.3%	2,453	68.5%	411	87.6%	12595	36.0%	1473	95.3%
No underlying conditions	14,789	47.1%	568	15.9%	58	12.4%	15,357	43.9%	28	1.8%
Unknown	6,473	20.6%	562	15.7%	0	0.0%	7,035	20.1%	44	2.8%
Total	31,404	100.0%	3583	100.0%	469	100.0%	34987	100.0%	1545	100.0%

Table 2: Underlying medical conditions in individuals with confirmed COVID-19 by age group, up to midnight 26/09/2020

	0-14 yrs		15-24 yrs		25-34 yrs		35-44 yrs		45-54 yrs		55-64 yrs		65-74 yrs		75+ yrs		Unk		Total	
Underlying condition	233	14.6%	773	19.2%	1357	22.0%	1612	27.1%	2127	36.3%	1948	47.8%	1465	64.1%	3074	61.5%	6	23.1%	12595	36.0%
No underlying condition	1181	74.0%	2701	67.0%	3668	59.6%	3225	54.1%	2627	44.9%	1363	33.4%	345	15.1%	242	4.8%	5	19.2%	15357	43.9%
Unknown	183	11.5%	555	13.8%	1134	18.4%	1121	18.8%	1101	18.8%	767	18.8%	476	20.8%	1683	33.7%	15	57.7%	7035	20.1%
Total	1597	100.0%	4029	100.0%	6159	100.0%	5958	100.0%	5855	100.0%	4078	100.0%	2286	100.0%	4999	100.0%	26	100.0%	34987	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 26/09/2020

	Community (n=24,931)		Acute Hospital (n=3,021)		ICU (n=469)		All settings (n=27,952)		Died (n=1,501)	
Chronic heart disease	1897	7.6%	1032	34.2%	226	48.2%	2929	10.5%	654	43.6%
Chronic respiratory disease	2172	8.7%	599	19.8%	113	24.1%	2771	9.9%	263	17.5%
Hypertension	1504	6.0%	504	16.7%	156	33.3%	2008	7.2%	260	17.3%
Diabetes mellitus	982	3.9%	491	16.3%	124	26.4%	1473	5.3%	231	15.4%
Chronic neurological disease	929	3.7%	369	12.2%	25	5.3%	1298	4.6%	515	34.3%
Cancer/malignancy	506	2.0%	374	12.4%	54	11.5%	880	3.1%	237	15.8%
Chronic kidney disease	332	1.3%	287	9.5%	41	8.7%	619	2.2%	176	11.7%
Asthma requiring medication	348	1.4%	165	5.5%	54	11.5%	513	1.8%	29	1.9%
Immunodeficiency including HIV	362	1.5%	122	4.0%	30	6.4%	484	1.7%	38	2.5%
BMI ≥ 40	175	0.7%	143	4.7%	90	19.2%	318	1.1%	30	2.0%
Chronic liver disease	123	0.5%	72	2.4%	16	3.4%	195	0.7%	29	1.9%

Technical Notes

- Data were extracted from Computerised Infectious Disease Reporting (CIDR) system at 09:15 on 28/09/2020.
- 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

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Prepared by HPSC Epi Team on 28/09/2020.