

Long COVID and cardiovascular disease: a prospective cohort study

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Supplementary Table 1. Baseline characteristics stratified by Tier 1 & Tier 2

	Total	Tier 1	Tier 2	p-value	Missing values
	N=7,768	N=5,223	N=2,545		
Age at admission (years)	59.3 (13.4)	59.9 (13.8)	58.0 (12.6)	<0.01	
Sex at birth					
Female	3,154 (40.6%)	2,166 (41.5%)	988 (38.8%)	0.03	
Male	4,614 (59.4%)	3,057 (58.5%)	1,557 (61.2%)		
Ethnicity					228
White	6,175 (81.9%)	4,282 (85.5%)	1,893 (74.8%)	<0.01	
South Asian	423 (5.6%)	225 (4.5%)	198 (7.8%)		
Black	362 (4.8%)	182 (3.6%)	180 (7.1%)		
Mixed/other	580 (7.7%)	321 (6.4%)	259 (10.2%)		
No. comorbidities					
0	3,468 (44.6%)	2,274 (43.5%)	1,194 (46.9%)	0.02	
1	1,836 (23.6%)	1,250 (23.9%)	586 (23.0%)		
2	1,269 (16.3%)	862 (16.5%)	407 (16.0%)		
≥3	1,195 (15.4%)	837 (16.0%)	358 (14.1%)		
Coronary Artery Disease	610 (7.9%)	438 (8.4%)	172 (6.8%)	0.01	
Myocardial Infarction	368 (4.7%)	260 (5.0%)	108 (4.2%)	0.15	
Heart Failure	196 (2.5%)	155 (3.0%)	41 (1.6%)	<0.01	
Atrial Fibrillation/flutter	468 (6.0%)	350 (6.7%)	118 (4.6%)	<0.01	
Hypertension	2,886 (37.2%)	2,008 (38.4%)	878 (34.5%)	<0.01	
Congenital heart disease	39 (0.5%)	26 (0.5%)	13 (0.5%)	0.94	
Valve disease	140 (1.8%)	100 (1.9%)	40 (1.6%)	0.29	
Pacemaker/ICD	108 (1.4%)	87 (1.7%)	21 (0.8%)	<0.01	
Peripheral vascular disease	104 (1.3%)	68 (1.3%)	36 (1.4%)	0.69	
Hypercholesterolaemia	1,270 (16.3%)	770 (14.7%)	500 (19.6%)	<0.01	
Other cardiac condition	206 (2.7%)	150 (2.9%)	56 (2.2%)	0.08	
Cerebrovascular Disease	305 (3.9%)	198 (3.8%)	107 (4.2%)	0.38	
Diabetes (Type 1 or 2)	1,732 (22.3%)	1,194 (22.9%)	538 (21.1%)	0.09	
Chronic Kidney Disease	429 (5.5%)	322 (6.2%)	107 (4.2%)	<0.01	
Admission data					
Time from 1st symptom to admission (days)	7.0 (5.0-11.0)	7.0 (4.0-10.0)	8.0 (6.0-11.0)	<0.01	1,102
Admission duration (days)	8.0 (4.0-15.0)	8.0 (4.0-14.0)	8.0 (4.0-16.0)	0.63	

PCR positive test	6,714 (94.0%)	4,550 (94.5%)	2,164 (93.0%)	0.02	626
WHO Clinical Progression Scale					
Class 3/4 (no continuous O2)	1,246 (16.7%)	854 (17.1%)	392 (15.9%)	<0.01	297
Class 5 (continuous O2)	3,374 (45.2%)	2,319 (46.4%)	1,055 (42.7%)		
Class 6 (cpap or bpap or high flow O2)	1,858 (24.9%)	1,274 (25.5%)	584 (23.7%)		
Class 7-9 (imv or ecmo)	993 (13.3%)	556 (11.1%)	437 (17.7%)		
Complications during admission					
Proning required	1,356 (19.5%)	887 (19.0%)	469 (20.5%)	0.14	823
Renal replacement therapy	263 (3.6%)	159 (3.2%)	104 (4.3%)	0.02	379
Pulmonary embolism	606 (8.1%)	364 (7.2%)	242 (9.9%)	<0.01	310
Renal failure requiring haemodialysis	194 (2.6%)	112 (2.2%)	82 (3.4%)	<0.01	305
Antibiotics	6,029 (79.7%)	4,078 (80.3%)	1,951 (78.6%)	0.08	208
Systemic steroids	4,534 (61.4%)	3,147 (63.4%)	1,387 (57.3%)	<0.01	387
Anticoagulation	3,540 (48.4%)	2,436 (49.8%)	1,104 (45.5%)	<0.01	457
Lowest eGFR (ml/min/1.73m2)	78.0 (60.0-91.0)	76.0 (58.0-91.0)	80.5 (61.0-91.0)	<0.01	786
Alanine Transaminase (U/L)	54.0 (31.0-100.0)	51.0 (29.0-94.0)	60.0 (34.0-109.0)	<0.01	849

Cardiac group: CVRF-, no cardiovascular risk factors or established cardiovascular disease. CVRF+, cardiovascular risk factors; hypertension, high cholesterol, diabetes. CVD+, established cardiovascular disease; heart failure, pacemaker/internal cardioverter defibrillator, ischaemic heart disease, myocardial infarction, peripheral vascular disease, valve disease, atrial fibrillation, stroke, congenital heart disease, other cardiac disease. All estimates are presented as predicted means (continuous variables) or probabilities (categorical variables), with 95% confidence intervals. All predictions made at the mean population age and adjusted for sex and ethnicity.