

**eTable 1** Demographic and clinical characteristics of hospitalisation & ICU admission, suspected+confirmed COVID-19

	<b>Hospitalisation</b>			<b>ICU admission</b>		
	n (%)	OR (95% CI)	aOR (95% CI) <sup>a</sup>	n (%)	OR (95% CI)	aOR (95% CI) <sup>a</sup>
<b>Sex, Female vs</b>	269/1433 (18.8%)	<b>0.53 (0.42, 0.66)*</b>	<b>0.62 (0.48, 0.79)*</b>	73/1304 (5.6%)	0.76 (0.50, 1.17)	0.96 (0.62, 1.49)
<b>Male</b>		<b>p&lt;0.001</b>	<b>p&lt;0.001</b>		p=0.21	0.85
<b>Age</b>						
<b>18-&lt;50</b>	188/1277 (14.7%)	1.00 [Ref]	1.00 [Ref]	41/1160 (3.5%)	1.00 [Ref]	1.00 [Ref]
<b>50-&lt;70</b>	208/614 (33.9%)	<b>2.90 (2.30, 3.66)*</b>	<b>2.03 (1.57, 2.61)*</b>	59/551 (10.7%)	<b>3.24 (2.14, 4.91)*</b>	<b>2.26 (1.44, 3.57)*</b>
<b>70+</b>	33/64 (51.6%)	<b>5.60 (3.31, 9.45)*</b>	<b>2.01 (1.12, 3.62)</b>	6/56 (10.7%)	<b>3.31 (1.33, 8.21)*</b>	1.36 (0.51, 3.65)
		<b>p&lt;0.001</b>	<b>p=0.019</b>		<b>p&lt;0.001</b>	0.54
<b>MS-phenotype,</b>	168/355 (47.3%)	<b>4.42 (3.43, 5.68)*</b>	<b>1.68 (1.20, 2.37)*</b>	43/315 (13.7%)	<b>3.65 (2.41, 5.54)*</b>	1.68 (0.95, 2.98)
<b>Progressive vs</b>						
<b>RRMS</b>		<b>p&lt;0.001</b>	<b>p=0.003</b>		<b>p&lt;0.001</b>	p=0.077
	177/361 (49.0%)	<b>5.07 (3.92, 6.55)*</b>	<b>2.79 (2.01, 3.89)*</b>	46/330 (13.9%)	<b>3.72 (2.46, 5.62)*</b>	<b>2.11 (1.21, 3.67)*</b>
<b>EDSS, &gt;6 vs 0-6</b>		<b>p&lt;0.001</b>	<b>p&lt;0.001</b>		<b>p&lt;0.001</b>	<b>p=0.008</b>
	130/439 (29.6%)	<b>2.31 (1.62, 3.28)*</b>	<b>1.49 (1.07, 2.06)</b>	36/408 (8.8%)	<b>1.91 (1.06, 3.44)</b>	<b>1.75 (1.00, 3.40)</b>

<b>Has comorbidities, Yes vs No</b>		<b>p&lt;0.001</b>	<b>p=0.017</b>		<b>p=0.031</b>	<b>p=0.048</b>
<b>BMI, ≥30 vs &lt;30</b>	95/353 (26.9%)	1.22 (0.87, 1.73)	<b>1.73 (1.21, 2.47)*</b>	39/339 (11.5%)	<b>2.42 (1.33, 4.41)*</b>	<b>3.22 (1.78, 5.82)*</b>
		p=0.26	<b>p=0.003</b>		<b>p=0.004</b>	<b>p&lt;0.001</b>
<b>Current smoker, Yes vs No</b>	19/105 (18.1%)	0.67 (0.35, 1.28)	0.92 (0.51, 1.66)	2/100 (2.0%)	0.39 (0.09, 1.63)	0.50 (0.15, 1.66)
		p=0.22	p=0.78		p=0.20	p=0.26

Analysis by multilevel mixed-effects logistic regression, estimating OR (95% CI). <sup>a</sup>Multivariable models adjusted for age, sex, MS-phenotype, and EDSS.

Abbreviations: EDSS = Expanded Disability Status Scale; ICU = Intensive Care Unit; MS = multiple sclerosis; OR = odds ratio; RRMS = relapsing-remitting multiple sclerosis.

Results in boldface denote statistical significance (p<0.05).

\* Significant after family-wise Holm's step down multiple comparisons adjustment.