

**eTable 2** Demographic and clinical characteristics of ventilation & death, suspected+confirmed COVID-19

	Ventilation			Death		
	n (%)	OR (95% CI)	aOR (95% CI) <sup>a</sup>	n (%)	OR (95% CI)	aOR (95% CI) <sup>a</sup>
<b>Sex, Female vs Male</b>	58/1241 (4.7%)	0.78 (0.48, 1.26)	0.96 (0.58, 1.58)	32/1,386 (2.3%)	<b>0.37 (0.22, 0.61)*</b>	<b>0.52 (0.30, 0.89)</b>
		p=0.30	0.87		<b>p&lt;0.001</b>	<b>p=0.017</b>
<b>Age</b>						
<b>18-&lt;50</b>	34/1104 (3.1%)	1.00 [Ref]	1.00 [Ref]	11/1,229 (0.9%)	1.00 [Ref]	1.00 [Ref]
<b>50-&lt;70</b>	44/512 (8.6%)	<b>3.28 (2.04, 5.27)*</b>	<b>2.41 (1.44, 4.04)*</b>	42/606 (6.9%)	<b>7.77 (3.95, 15.30)*</b>	<b>3.54 (1.71, 7.32)</b>
<b>70+</b>	6/50 (12.0%)	<b>5.13 (1.98, 13.29)*</b>	2.21 (0.77, 6.29)	10/62 (16.1%)	<b>17.51 (6.93, 44.25)*</b>	<b>3.73 (1.37, 10.13)</b>
		<b>p&lt;0.001</b>	0.14		<b>p&lt;0.001</b>	<b>p=0.003</b>
<b>MS-phenotype, Progressive vs RRMS</b>	31/287 (10.8%)	<b>3.26 (2.02, 5.27)*</b>	1.24 (0.66, 2.36)	43/349 (12.3%)	<b>10.06 (5.78, 17.52)*</b>	1.56 (0.77, 3.15)
		<b>p&lt;0.001</b>	0.50		<b>p&lt;0.001</b>	p=0.21
<b>EDSS, &gt;6 vs 0-6</b>	35/303 (11.6%)	<b>4.40 (2.69, 7.21)*</b>	<b>2.81 (1.49, 5.30)*</b>	51/370 (13.8%)	<b>20.18 (10.64, 38.29)*</b>	<b>8.93 (4.07, 19.61)</b>
		<b>p&lt;0.001</b>	<b>p=0.001</b>		<b>p&lt;0.001</b>	<b>p&lt;0.001</b>
	34/410 (8.3%)	<b>3.67 (1.62, 8.34)*</b>	<b>2.50 (1.12, 5.57)</b>	26/428 (6.1%)	<b>10.01 (2.99, 33.57)*</b>	<b>3.74 (1.39, 10.05)</b>

<b>Has comorbidities, Yes vs No</b>		<b>p=0.002</b>	<b>p=0.025</b>		<b>p&lt;0.001</b>	<b>p=0.009</b>
<b>BMI, ≥30 vs &lt;30</b>	29/338 (8.6%)	<b>3.29 (1.49, 7.26)*</b>	<b>4.31 (1.96, 9.49)*</b>	13/353 (3.7%)	1.05 (0.48, 2.28)	2.02 (0.90, 4.52)
		<b>p=0.003</b>	<b>p&lt;0.001</b>		p=0.90	p=0.008
<b>Current smoker, Yes vs No</b>	6/101 (5.9%)	1.05 (0.31, 3.54)	1.28 (0.43, 3.85)	2/109 (1.8%)	0.78 (0.18, 3.39)	1.71 (0.54, 5.40)
		p=0.94	p=0.66		p=0.74	p=0.36

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; 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.