

**HOW TO CITE:**

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**Supplementary table 1:** Multivariable analysis of factors associated with in-hospital COVID-19 mortality for black, coloured, Indian and white individuals, South Africa, 5 March 2020 to 8 January 2022

Characteristics	Adjusted odds ratio (95% confidence interval)			
	Black	Coloured	Indian	White
<b>Age group</b>				
<20 years	Ref	Ref	Ref	Ref
20–39 years	<b>2.1 (1.8, 2.5)</b>	<b>5.0 (2.0, 12.4)</b>	<b>4.1 (1.3, 13.0)</b>	<b>6.7 (2.1, 21.2)</b>
40–59 years	<b>5.8 (4.9, 6.9)</b>	<b>12.3 (5.0, 30.1)</b>	<b>8.8 (2.8, 27.9)</b>	<b>17.6 (5.6, 54.9)</b>
60–79 years	<b>13.3 (11.3, 15.8)</b>	<b>28.5 (11.6, 69.8)</b>	<b>20.1 (6.4, 63.5)</b>	<b>40.0 (12.8, 125.1)</b>
≥80 years	<b>21.0 (17.5, 25.2)</b>	<b>66.6 (26.6, 167.2)</b>	<b>37.5 (11.7, 119.9)</b>	<b>75.1 (24.0, 235.1)</b>
<b>Sex</b>				
Female	Ref	Ref	Ref	ref
Male	<b>1.3 (1.2, 1.3)</b>	<b>1.3 (1.2, 1.5)</b>	<b>1.3 (1.2, 1.4)</b>	<b>1.5 (1.4, 1.6)</b>
<b>Hypertension</b>				
No	Ref	Ref	Ref	Ref
Yes	<b>1.1 (1.1, 1.2)</b>	1.1 (0.9, 1.2)	<b>1.1 (1.0, 1.3)</b>	<b>1.1 (1.0, 1.2)</b>
<b>Diabetes</b>				
No	Ref	Ref	Ref	Ref
Yes	<b>1.4 (1.4, 1.5)</b>	<b>1.4 (1.2, 1.6)</b>	<b>1.2 (1.1, 1.4)</b>	<b>1.4 (1.3, 1.6)</b>
<b>Chronic cardiac disease</b>				
No	Ref	Ref	Ref	Ref
Yes	<b>1.2 (1.1, 1.3)</b>	<b>1.3 (1.0, 1.7)</b>	<b>1.2 (1.0, 1.5)</b>	<b>1.3 (1.1, 1.5)</b>
<b>Chronic kidney disease</b>				
No	Ref	Ref	Ref	Ref
Yes	<b>1.6 (1.4, 1.8)</b>	1.3 (0.9, 1.9)	<b>2.5 (1.7, 3.6)</b>	<b>1.9 (1.4, 2.6)</b>
<b>Malignancy</b>				
No	Ref	Ref	Ref	Ref
Yes	<b>1.6 (1.3, 1.9)</b>	1.2 (0.7, 2.1)	1.4 (0.7, 2.6)	<b>2.0 (1.5, 2.7)</b>
<b>Obesity</b>				
Not obese	Ref	Ref	Ref	Ref
Obese	<b>1.1 (1.1- 1.2)</b>	<b>1.5 (1.2, 1.9)</b>	1.2 (0.9, 1.6)	0.8 (0.7, 0.9)
Unknown	1.0 (0.9-1.0)	1.0 (0.8-1.2)	1.1 (0.9-1.2)	1.3 (1.1-1.4)
<b>Tuberculosis</b>				
No	Ref	Ref	Ref	Ref
Past	1.1 (0.9-1.3)	1.2 (0.6-2.3)	0.8 (0.2-3.4)	0.3 (0.1-1.5)
Current	<b>1.6 (1.4-2.0)</b>	1.4 (0.6-3.2)	4.1 (0.8-20.2)	0.8 (0.3-2.6)
Current and past	<b>1.3 (1.0-1.7)</b>	0.8 (0.3-2.3)	5.9 (0.5-74.9)	–
<b>HIV</b>				
No	Ref	Ref	Ref	Ref
Yes	<b>1.3 (1.2, 1.4)</b>	<b>1.4 (1.0, 2.1)</b>	0.8 (0.4, 1.9)	1.4 (0.6, 3.0)
<b>Sector</b>				
Private	Ref	Ref	Ref	Ref
Public	<b>1.6 (1.6, 1.7)</b>	<b>1.2 (1.1, 1.5)</b>	<b>2.0 (1.7, 2.4)</b>	<b>2.1 (1.8, 2.5)</b>

Characteristics	Adjusted odds ratio (95% confidence interval)			
	Black	Coloured	Indian	White
<b>Province</b>				
Western Cape	Ref	Ref	Ref	Ref
Eastern Cape	<b>1.8 (1.6, 2.0)</b>	<b>1.4 (1.2, 1.7)</b>	<b>2.1 (1.0, 4.2)</b>	<b>1.7 (1.4, 2.0)</b>
Free State	<b>1.3 (1.1, 1.4)</b>	<b>1.4 (1.0, 1.9)</b>	1.7 (0.8, 4.0)	<b>1.4 (1.2, 1.7)</b>
Gauteng	<b>1.2 (1.1, 1.3)</b>	<b>1.2 (1.0, 1.4)</b>	<b>1.7 (1.0, 3.1)</b>	<b>1.5 (1.3, 1.8)</b>
KwaZulu-Natal	<b>1.3 (1.2, 1.5)</b>	1.1 (0.8, 1.4)	<b>1.9 (1.1, 3.4)</b>	<b>1.5 (1.2, 1.7)</b>
Limpopo	<b>1.6 (1.5, 1.8)</b>	1.0 (0.3, 4.2)	1.1 (0.3, 3.8)	<b>3.3 (1.9, 5.6)</b>
Mpumalanga	<b>1.4 (1.2, 1.6)</b>	1.7 (0.8, 3.9)	<b>4.0 (1.6, 9.9)</b>	<b>1.8 (1.5, 2.2)</b>
North West	1.1 (0.9, 1.2)	0.9 (0.5, 1.4)	1.5 (0.7, 3.3)	<b>1.4 (1.2, 1.6)</b>
Northern Cape	<b>1.3 (1.3, 1.6)</b>	<b>1.5 (1.2, 1.9)</b>	2.9 (0.8, 10.9)	<b>1.6 (1.1, 2.4)</b>
<b>Wave period</b>				
Wave 1	Ref	Ref	Ref	Ref
Wave 2	<b>1.4 (1.3, 1.5)</b>	<b>1.2 (1.0, 1.5)</b>	<b>1.5 (1.3, 1.8)</b>	1.1 (0.9, 1.3)
Wave 3	<b>1.2 (1.2, 1.3)</b>	<b>1.4 (1.2, 1.6)</b>	<b>1.3 (1.1, 1.4)</b>	<b>1.1 (1.0, 1.3)</b>
Wave 4	<b>0.5 (0.4, 0.5)</b>	<b>0.6 (0.4, 0.9)</b>	<b>0.4 (0.2, 0.6)</b>	<b>0.4 (0.2, 0.6)</b>

*Significant estimates indicated in bold*