

S2 Table: Univariate and multivariate analysis of factors associated with hospitalisation cost with coefficients

Cost per hospitalised COVID-19 patient (SA Rands)				
Variable	Total hospitalised COVID-19 cases	Median cost/ patient (IQR)	Unadjusted coefficient (95%CI)	Adjusted coefficient (95%CI)
Age				
Less than 18	1,204	24,400 (15,552 – 39,586)	Reference	Reference
Between 18-25	621	30,390 (18,944 – 54,741)	0.19 (0.09, 0.29)	0.24 (0.13, 0.34)
Between 25-40	7,357	42,051 (24,974 – 68,435)	0.48 (0.42, 0.55)	0.47 (0.41, 0.54)
Between 40-65	17,384	57,801 (33,276 – 138,005)	0.95 (0.89, 1.01)	0.84 (0.78, 0.90)
Greater than 65	8,901	83,335 (41,290 – 203,098)	1.15 (1.09, 1.21)	1.00 (0.93, 1.07)
Gender				
Female	17,431	50,162 (28,650 – 103,434)	Reference	Reference
Male	18,036	60,793 (33,151 – 155,153)	0.24 (0.21, 0.26)	0.17 (0.15, 0.19)
Province				
Western Cape	7,248	47,080 (26,290 – 103,145)	Reference	Reference
Eastern Cape	1,902	48,843 (28,421 – 101,642)	0.01 (-0.04, 0.07)	-0.01 (-0.06, 0.05)
Free State	1,078	45,547 (27,073 – 84,580)	-0.06 (-0.13, 0.01)	-0.02 (-0.08, 0.05)
Gauteng	13,514	54,059 (30,663 – 117,780)	0.14 (0.11, 0.17)	0.11 (0.08, 0.14)
KwaZulu-Natal	7,705	50,388 (29,753 – 107,514)	0.09 (0.05, 0.12)	0.04 (0.01, 0.08)
Limpopo	717	36,514 (21,760 – 73,986)	-0.23 (-0.31, -0.14)	-0.16 (-0.24, -0.08)
Mpumalanga	1,279	41,264 (23,406 – 91,366)	-0.11 (-0.18, -0.05)	-0.04 (-0.11, 0.02)
North West	1,316	47,634 (27,784 – 88,583)	-0.01 (-0.08, 0.05)	-0.00 (-0.06, 0.06)
Northern Cape	599	39,213 (23,116 – 69,723)	-0.22 (-0.31, -0.13)	-0.11 (-0.19, -0.02)
# of comorbidities				
0	15,110	42,079 (24,547 – 76,712)	Reference	Reference
1	6,758	50,359 (29,152 – 107,048)	0.22 (0.19, 0.25)	0.07 (0.04, 0.11)
2	5,744	58,489 (33,018 – 132,798)	0.38 (0.34, 0.41)	0.16 (0.13, 0.19)
3	4,243	62,213 (34,300 – 148,067)	0.44 (0.41, 0.48)	0.18 (0.15, 0.22)
>3	3,612	73,423 (37,685 – 170,703)	0.55 (0.51, 0.59)	0.25 (0.21, 0.29)
Pandemic wave				
Pre-Wave 1	1,091	52,011 (27,318 – 120,072)	0.06 (-0.00, 0.13)	0.13 (0.06, 0.19)
Wave 1	11,884	48,577 (27,537 – 103,472)	Reference	Reference
Post-wave 1	3,662	45,169 (25,009 – 90,903)	-0.11 (-0.15, -0.07)	-0.03 (-0.07, 0.01)
Wave 2	18,380	51,524 (29,882 – 112,648)	0.07 (0.05, 0.10)	0.07 (0.04, 0.09)
Medical insurance cover level				
Level 1	4,796	44,071 (24,695 – 91,445)	Reference	Reference
Level 2	4,554	50,698 (29,034 – 114,502)	0.19 (0.14, 0.23)	0.08 (0.04, 0.12)
Level 3	21,088	49,326 (28,477 – 102,979)	0.15 (0.12, 0.18)	0.08 (0.05, 0.12)
Level 4	4,833	59,609 (32,486 – 131,414)	0.32 (0.28, 0.36)	0.08 (0.04, 0.12)

Private Hospital network				
Network A	1,307	53,407 (30,403 – 123,034)	Reference	Reference
Network B	9,601	59,086 (35,733 – 128,490)	0.11 (0.05, 0.17)	0.05 (-0.01, 0.11)
Network C	546	36,068 (22,360 – 69,732)	-0.44 (-0.55, -0.33)	-0.32 (-0.42, -0.21)
Network D	5,407	49,165 (27,202 – 101,265)	-0.13 (-0.19, -0.06)	-0.13 (-0.19, -0.07)
Network E	9,151	44,706 (25,529- 91,528)	-0.19 (-0.25, -0.13)	-0.19 (-0.25, -0.13)
Network F	8,846	47,670 (27,554 – 105,322)	-0.11 (-0.17, -0.04)	-0.13 (-0.19, -0.07)