

Table 4 Association of comorbidities and clinical course in hospitalized patients with COVID-19

Comorbidity	Mechanical ventilation		SO ₂ < 93%		ICU admission	
	Crude	Age and sex adjusted	Crude	Age and sex adjusted	Crude	Age and sex adjusted
Hypertension						
OR (95 % CI)	0.47 (0.27–0.88)	0.58 (0.34–1.0)	1.87 (1.50–2.34)	1.34 (1.06–1.69)	1.39 (1.06–1.85)	1.27 (0.96–1.69)
P	0.008	0.052	< 0.0001	0.013	0.019	0.099
DM						
OR (95 % CI)	1.01 (0.72–1.41)	0.87 (0.62–1.22)	1.91 (1.62–2.26)	1.49 (1.25–1.77)	1.52 (1.23–1.88)	1.43 (1.15–1.77)
P	0.969	0.423	< 0.0001	< 0.0001	< 0.0001	< 0.0001
CHD						
OR (95 % CI)	0.75 (0.55–1.01)	0.93 (0.68–1.27)	2.16 (1.83–2.56)	1.54 (1.29–1.83)	1.66 (1.35–2.03)	1.52 (1.23–1.89)
P	0.061	0.642	< 0.0001	< 0.0001	< 0.0001	< 0.0001
CRD						
OR (95 % CI)	2.05 (1.36–3.09)	1.74 (1.15–2.63)	1.98 (1.50–2.61)	1.54 (1.16–2.04)	1.41(1.01–1.97)	1.30 (0.93–1.82)
P	< 0.0001	0.009	< 0.0001	0.003	0.045	0.130
Cancer						
OR (95 % CI)	2.11 (1.26–3.55)	2.00 (1.18–3.36)	1.28 (0.92–1.79)	1.18 (0.84–1.66)	1.23 (0.78–1.93)	1.19 (0.76–1.88)
P	0.005	0.009	0.142	0.344	0.369	0.440
CKD						
OR (95 % CI)	1.48 (0.85–2.59)	1.31 (0.75–2.30)	1.45 (1.06–2.00)	1.20 (0.86–1.67)	1.68 (1.14–2.47)	1.59 (1.07–2.34)
P	0.169	0.348	0.022	0.269	0.009	0.020

CHD = coronary heart disease; CI = confidence interval; CKD = chronic kidney disease; CRD = chronic respiratory disease; DM = diabetes mellitus; ICU = intensive care unit; OR = odds ratio; SO₂ = oxygen saturation.