

Table 2 Radiographic and laboratory findings of patients with coronavirus disease 2019 (COVID-19) in high altitude areas

		Disease severity				
Radiographic and laboratory findings	Normal range	All	Severe	Non-severe	Asympto	p value
		patients	patients	patients	matic	
		(n=67)	(n=4)	(n=39)	patients	
					(n=24)	
Chest CT images-No. (%) :						
Abnormal		38(56.7)	4(100.0)	34(87.2)	-	
Ground-glass opacity		26(38.8)	3(75.0)	23(59.0)	-	
Local patchy shadowing		6(9.0)	0	6(15.4)	-	
Bilateral patchy shadowing		9(13.4)	2(50.0)	7(17.9)	-	
Interstitial abnormalities		1(1.5)	0	1(2.6)	-	
White blood cell count (×10 ⁹ /L)	3.5-9.5	5.7(4.9-	6.8(4.0-8.7)	5.2(4.8-6.4)	6.0(5.3-	0.269
		6.6)			6.8)	
<4×10 ⁹ /L- No./total No. (%)		7/67(10.4)	1/4(25.0)	5/39(12.8)	1/24(4.2)	0.235
Neutrophil count (×10 ⁹ /L)	1.8-6.3	3.7(3.0-	5.6(2.5-7.1)	3.6(3.0-5.2)	3.9(2.8-	0.462
		5.0)			4.6)	
Lymphocyte count (×10 ⁹ /L)	1.1-3.2	1.4(1.0-	1.0(0.6-1.5)	1.2(0.9-1.5)	1.8(1.4-	<0.001
		1.8)		**	2.3)	
<1.1×10 ⁹ /L- No./total No. (%)		20/67(29.9	3/4(75.0)	15/39(38.5)**	2/24(8.3)**	0.002
)			*	
Neutrophil-to-lymphocyte ratio		2.6(1.7-	3.5(0.2-7.1)	3.7(2.2-5.2)	2.3(1.4-	0.010

		4.3)		**	3.1)	
Haemoglobin (g/L)	115-150	146.0(130.0-159.0)	138.5(123.3-150.8)	149.0(130.0-159.0)	147.5(125.5-163.8)	0.595
Platelet count ($\times 10^9/L$)	100-300	140.0(105.0-197.0)	142.5(103.8-152.8)	132.0(103.0-197.0)	149.0(105.0-202.3)	0.812
<100 $\times 10^9/L$ - No./total No. (%)		14/67(20.9)	1/4(25.0)	8/39(20.5)	5/24(20.8)	1.000
Prothrombin time (s)	10-15	12.7(11.9-13.4)	12.3(11.4-14.3)	12.4(11.8-13.3)	13.2(12.5-14.8)	0.018
>15s- No./total No. (%)		4(6.0)	0	0	4(16.7)	0.040
Activated partial thromboplastin time (s)	22-38	26.9(24.7-29.3)	28.8(25.3-34.2)	27.2(25.0-29.3)	25.7(23.7-29.0)	0.462
Fibrinogen (g/L)	2-4	2.3(2.0-2.9)	3.6(2.4-5.1)	2.5(2.2-2.9)	1.9(1.8-2.3)	<0.001
Albumin (g/L)	35-55	44.0(42.0-46.5)	37.5(32.3-46.8)	44.0(42.1-45.7)	45.5(41.8-47.5)	0.241
Alanine aminotransferase (U/L)	0-40	36.0(19.0-63.0)	16.5(10.3-73.8)	39.0(24.0-63.0)	25.0(18.0-54.5)	0.149
>40 U/L - No./total No. (%)		26/67(38.8)	1/4(25.0)	19/39(48.7)	6/24(25.0)	0.116
Aspartate aminotransferase (U/L)	0-40	32.0(25.0-45.0)	26.0(17.3-75.3)	36.0(30.0-47.0)	26.5(21.5-36.8)	0.041
>40 U/L - No./total No. (%)		21/67(31.3)	1/4(25.0)	16/39(41.0)	4/24(16.7)	0.124

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Total bilirubin (μmol/L)	5.1-28	6.6(4.7-13.2)	7.8(4.2-13.9)	6.2(4.6-10.3)	10.1(5.7-143)	0.100
Potassium (mmol/L)	3.5-5.5	4.0(3.7-4.4)	4.1(3.8-4.6)	3.8(3.6-4.4)	4.0(3.8-4.5)	0.330
Sodium (mmol/L)	135-145	136.4(135.3-138.0)	130.5(126.4-132.0) *	136.4(135.2-138.1)	136.7(136.2-137.9)	0.004

<135 mmol/L- No./total No. (%)		15/67(22.4)	4/4(100.0)*	9/39(23.1)	2/24(8.3)	0.001

Chloride (mmol/L)	96-108	104.6(102.9-105.7)	100.1(92.6-102.9) *	104.6(103.3-105.7)	104.6(102.5-105.9)	0.027

Calcium (mmol/L)	2.1-2.9	2.3(2.2-2.3)	2.0(1.7-2.2)	2.2(2.1-2.3)	2.3(2.2-2.4) ***	0.003
				**		
Magnesium (mmol/L)	0.75-1.02	0.84(0.76-0.89)	0.78(0.73-0.86)	0.84(0.77-0.89)	0.85(0.75-0.90)	0.566
<0.75 mmol/L- No./total No. (%)		13/67(19.4)	2/4(50.0)	5/39(7.5)	6/24(25.0)	0.128
Creatinine (μmol/L)	44-123	60.9(50.9-75.3)	62.7(52.9-82.4)	59.4(49.7-73.3)	63.7(54.2-81.8)	0.453
Creatine kinase (U/L)	26-174	64.8(41.9-102.0)	37.6(26.2-79.0)	64.4(40.6-104.8)	75.0(52.7-107.3)	0.147

Lactate dehydrogenase (U/L)	109-245	247.7(214.5-299.2)	327.2(173.9-485.6)	266.6(215.5-310.3)	235.5(213.5-279.9)	0.344
>245 U/L- No./total No. (%)		31/67(46.3)	3/4(75.0)	20/39(51.3)	8/24(33.3)	0.220
C-reactive protein (mg/L) >10	0-10	11/66(16.7)	3/4(75.0)	8/38(21.1)	0***	0.001
mg/L- No./total No. (%)						
High-sensitivity C-reactive	0-3	23/65(35.4)	3/4(75.0)	17/38(44.7)	3/23(13.0)	0.006
protein (mg/L) >3 mg/L-				**		
No./total No. (%)						

Data are shown as medians (interquartile ranges) or No./total No. (%); P values denoted the comparison between severe cases, non-severe cases and asymptomatic cases; * P<0.017 between severe and non-severe groups; ** P<0.017 between non-severe and asymptomatic groups; *** P<0.017 between severe and asymptomatic groups