

Table 1: Differences in clinical profile of patients with or without pneumonia

Parameter	Overall (n=554)	Pneumonia (n=57)	No Pneumonia (n=497)	p-value
Age (years)	37 (\pm 12)	49 (\pm 13)	36 (\pm 11)	<0.001
Gender (Male)	477 (86.9%)	41 (71.9%)	437 (88.6%)	<0.001
<i>Past Medical History</i>				
Hypertension	53 (12.3%)	15 (32.6%)	38 (9.8%)	<0.001
Hyperlipidaemia	34 (8.1%)	15 (33.3%)	19 (5.0%)	<0.001
Diabetes mellitus	21 (5.1%)	7 (16.3%)	14 (3.8%)	<0.001
Asthma	6 (1.5%)	2 (4.9%)	4 (1.1%)	0.055
No previous medical conditions	367 (90.4%)	24 (60.0%)	343 (93.7%)	<0.001
<i>Clinical profile</i>				
Asymptomatic illness	66 (11.9%)	4 (7.0%)	62 (12.5%)	0.228
Length of days with fever	1.2 (\pm 2.4)	3.1 (\pm 3.1)	1.0 (\pm 2.2)	<0.001
Admission temperature (degC)	37.7 (\pm 3.9)	37.7 (\pm 0.8)	37.7 (\pm 4.1)	0.992
Systolic blood pressure (mmHg)	130 (\pm 17)	131 (\pm 17)	130 (\pm 17)	0.641
Diastolic blood pressure (mmHg)	81 (\pm 12)	77 (\pm 13)	82 (\pm 12)	0.012
Oxygen saturation (%)	98 (\pm 3)	96 (\pm 7)	98 (\pm 1)	<0.001
Pulse rate (per min)	94 (\pm 19)	94 (\pm 12)	94 (\pm 19)	0.863
Respiratory rate (per min)	19 (\pm 7)	19 (\pm 2)	19 (\pm 6)	0.774
<i>Laboratory Investigations</i>				
Total White Cell Count	6.5 (\pm 2.2)	6.5 (\pm 2.9)	6.5 (\pm 2.1)	0.975
Absolute neutrophil count	4.2 (\pm 7.9)	4.5 (\pm 2.7)	4.2 (\pm 8.3)	0.545
Neutrophil percentage	56.3 (\pm 12.9)	66.5 (\pm 11.6)	55.2 (\pm 12.6)	<0.001
Absolute lymphocyte count	1.9 (\pm 2.0)	1.5 (\pm 1.1)	1.9 (\pm 2.1)	0.011
Lymphocyte percentage	28.2 (\pm 11.1)	22.7 (\pm 10.1)	28.9 (\pm 11.1)	<0.001
Absolute eosinophil count	0.61 (\pm 1.7)	0.2 (\pm 0.9)	0.7 (\pm 1.8)	0.002
Eosinophil percentage	2.4 (\pm 3.3)	1.0 (\pm 1.4)	2.5 (\pm 3.4)	0.001
Absolute monocyte count	0.9 (\pm 1.3)	0.6 (\pm 0.3)	0.9 (\pm 1.4)	<0.001
Monocyte percentage	11.9 (\pm 5.6)	9.4 (\pm 3.8)	12.2 (\pm 5.7)	<0.001
Absolute basophil count	0.04 (\pm 0.09)	0.02 (\pm 0.02)	0.04 (\pm 0.09)	0.082
Basophil percentage	0.6 (\pm 1.3)	0.3 (\pm 0.2)	0.6 (\pm 1.3)	<0.001
Haemoglobin (g/dL)	14.9 (\pm 1.6)	14.1 (\pm 1.8)	15.0 (\pm 1.6)	0.002
MCV (fL)	84.9 (\pm 5.8)	86.0 (\pm 4.7)	84.7 (\pm 5.9)	0.108
Haematocrit	45.5 (\pm 23.5)	41.7 (\pm 5.3)	46.0 (\pm 24.7)	0.202
Platelets	228 (\pm 61)	210 (\pm 56)	230 (\pm 61)	0.020
Neutrophil/Lymphocyte Ratio	3.2 (\pm 7.0)	4.3 (\pm 4.3)	3.0 (\pm 7.2)	0.194
Lymphocyte/Monocyte Ratio	3.1 (\pm 4.1)	2.9 (\pm 1.9)	3.1 (\pm 4.3)	0.690
Platelet/Lymphocyte Ratio	163.8 (\pm 318.4)	186.4 (\pm 95.9)	161.2 (\pm 334.5)	0.576
Eosinophil/Lymphocyte Ratio	0.37 (\pm 1.12)	0.16 (\pm 0.80)	0.39 (\pm 1.15)	0.138

Creatinine (mmol/L)	79 (\pm 30)	88 (\pm 78)	78 (\pm 18)	0.019
LDH	436 (\pm 423)	644 (\pm 77)	414 (\pm 360)	<0.001
C-reactive protein	14 (\pm 27)	40 (\pm 43)	11 (\pm 23)	<0.001
Ferritin	179 (\pm 216)	353 (\pm 385)	164 (\pm 187)	<0.001
<i>Treatment</i>				
Lopinavir/Ritonavir	37 (6.6%)	15 (26.3%)	22 (4.4%)	<0.001
Remdesivir	18 (3.2%)	10 (17.5%)	8 (1.6%)	<0.001
Hydroxychloroquine	3 (0.5%)	3 (5.3%)	0 (0.0%)	<0.001
<i>Clinical Progress and Outcomes</i>				
Length of hospital stay (days)	10.2 (\pm 13.3)	10.6 (\pm 7.7)	15.1 (\pm 18.2)	<0.001
Requiring oxygen	16 (2.9%)	8 (14.0%)	8 (1.6%)	<0.001
Persistent fever >72h	40 (7.3%)	16 (29.1%)	24 (4.8%)	<0.001
Required intensive care monitoring	19 (3.4%)	13 (23.2%)	6 (1.2%)	<0.001
Required mechanical ventilation	16 (2.9%)	11 (19.3%)	5 (1.0%)	<0.001
Myocarditis/myocardial injury	3 (0.7%)	3 (7.3%)	0 (0.0%)	<0.001
Death	2 (0.5%)	2 (3.5%)	0 (0.0%)	<0.001

Table 2: Characteristics of patients with Eosinophilia

Parameter	Eosinophilia (n=68)	No Eosinophilia (n=486)	p-value
Age (years)	33.2 (\pm 9.4)	37.4 (\pm 11.9)	0.006
Male gender	62 (91.2%)	416 (86.3%)	0.265
Ethnicity			0.015
Chinese	6 (8.8%)	85 (17.5%)	
Malay	2 (2.9%)	32 (6.6%)	
Indian	36 (52.9%)	163 (33.5%)	
Bangladeshi	20 (29.4%)	155 (31.9%)	
Others	4 (5.9%)	51 (10.4%)	
Exposure history			0.006
Overseas exposure	3 (4.4%)	26 (5.3%)	
Local transmission	3 (4.4%)	97 (20.0%)	
Dormitory cases	62 (91.2%)	363 (74.7%)	
Hypertension	5 (8.8%)	48 (12.8%)	0.388
Hyperlipidaemia	2 (3.6%)	32 (8.7%)	0.185
Diabetes mellitus	1 (1.8%)	20 (5.6%)	0.334
Temperature (degC)	37.5 (\pm 0.6)	37.7 (\pm 4.1)	0.740
Number of days of fever	0.8 (\pm 1.0)	1.3 (\pm 2.5)	0.119
Day of illness at presentation	3.0 (\pm 3.8)	3.6 (\pm 5.2)	0.446
<i>Laboratory findings</i>			
AST	40.5 (\pm 42.7)	37.7 (\pm 49.6)	0.674
ALT	44.6 (\pm 31.0)	45.9 (\pm 45.6)	0.826
Lymphocyte count (x10 ⁹ /L)	1.99 (\pm 0.70)	1.89 (\pm 2.14)	0.696
Eosinophil count (x10 ⁹ /L)	4.06 (\pm 3.09)	0.12 (\pm 0.12)	<0.001
Eosinophil/Lymphocyte Ratio	2.48 (\pm 2.25)	0.07 (\pm 0.08)	<0.001
Ferritin	152.9 (\pm 179.5)	182.6 (\pm 220.3)	0.307
LDH	412.3 (\pm 176.2)	439.4 (\pm 446.0)	0.641
C-reactive protein	10.0 (\pm 17.7)	14.5 (\pm 28.3)	0.214
<i>Medications</i>			
Hydroxychloroquine	0 (0.0%)	3 (0.8%)	0.493
Lopinavir/Ritonavir	2 (3.6%)	35 (9.4%)	0.146
Remdesivir	0 (0.0%)	18 (5.0%)	0.148
<i>Outcomes</i>			
Pneumonia	1 (1.5%)	56 (11.5%)	0.005
Acute kidney injury	2 (2.9%)	43 (8.8%)	0.150
Requiring oxygen	0 (0.0%)	16 (3.3%)	0.240
Required intensive care	0 (0.0%)	19 (3.9%)	0.150

Required mechanical ventilation	0 (0.0%)	16 (3.3%)	0.240
Persistent fever >72h	4 (5.9%)	36 (7.5%)	0.805
Myocarditis/myocardial injury	0 (0.0%)	3 (0.8%)	0.493
Death	0 (0.0%)	2 (0.6%)	0.576
Length of hospital stay (days)	9.1 (\pm 11.7)	10.8 (\pm 13.2)	0.332