

Appendix:

Table 1. detailed lab data of COVID-19 patients in their hospital course

Lab data	Case 1	Case 2	Case 3	Case 4	Case 5	Case 6	Case 7	Case 8
Blood cell counts on day 1 of admission								
Total WBC¹ count (×10⁹ cells/L)	15.7	4	17.1	18.6	19	29.3	16	21
Absolute Neutrophil counts (×10 ⁹ cells/L, fraction %)	13.7 (87.8%)	3.5 (87.8%)	13.8 (80.9%)	15.6 (84%)	16.3 (86%)	25.2 (86%)	8.3 (52%)	16.2 (77%)
Absolute Lymphocyte count (cells/ml, fraction%)	847 (5.4%)	228 (5.7%)	1760 (10.3%)	17100 (9.2%)	1254 (6.6%)	1172 (4%)	6720 (42%)	2520 (12%)
Platelet count (×10⁹ cells/L)	150	100	191	219	287	159	271	257
Blood cell counts during hospital course								
total WBC count (×10⁹ cells/L)	5.9	2.7	26.9	17.3	24.3	18.5	8.8	N/A
Absolute Neutrophil counts (×10 ⁹ cells/L, fraction %)	4.6 (78.8%)	1.9 (70%)	2.5 (91.7%)	14.3 (82.5%)	20.2 (83%)	14.4 (78%)	7.4 (84%)	N/A
Absolute Lymphocyte count (cells/ml, fraction %)	991 (16.8%)	297 (11%)	2232 (8.3%)	2076 (12%)	2138 (8.8%)	2645 (14.3%)	1434 (16.3%)	N/A
Platelet count (×10⁹ cells/L)	110	70	303	163	1200	160	158	N/A
Blood cell counts at the time of death/ discharge								
total WBC count (×10⁹ cells/L)	9.8	3.2	13.8	10.4	17.6	12.1	6.9	N/A
Absolute Neutrophil counts (×10 ⁹ cells/L, fraction %)	8.2 (83.9%)	2.6 (80%)	11.3 (82.1%)	8.8 (84.9%)	14.1 (80%)	8.6 (71%)	4.1 (58.9%)	N/A
Absolute Lymphocyte count (cells/ml, fraction %)	1185 (12.1%)	192 (6%)	2083 (15.1%)	884 (8.5%)	1988 (11.3%)	1923 (15.9%)	2166 (31.4%)	N/A
Platelet count (×10⁹ cells/L)	24	50	120	200	537	150	204	N/A
Procalcitonin	N/A	N/A	N/A	1.39	N/A	1.69	N/A	014
CRP² levels (mg/L)								
On day 1 of admission	150	74	89	8	N/A	92	N/A	60
In the hospital course	110	80	81	56	N/A	55	79	N/A

At the time of death/ discharge	24	N/A	25	N/A	N/A	N/A	N/A	N/A
ESR³ levels (mm/hour)								
On day 1 of admission	N/A	25	34	50	N/A	32	N/A	35
In the hospital course	42	25	77	83	NA	68	39	N/A
At the time of death/ discharge	38	N/A	14	N/A	N/A	N/A	N/A	N/A
BUN⁴ levels mg/dL:								
On day 1 of admission	22	25	14	8	14	23	7	14
In the hospital course	100	40	20	56	34	20	7	N/A
At the time of death/ discharge	101	100	19	41	21	15	6	N/A
Creatinine levels (mg/dL)								
On day 1 of admission	1.15	1.5	0.99	1.01	1.09	0.99	0.4	1.3
In the hospital course	3.9	1.7	1.2	1.84	1.24	1.17	0.8	N/A
At the time of death/ discharge	4.1	4	1.5	1.1	1.07	0.74	0.6	N/A
LDH⁵	1009	800	977	550	600	780	884	450
SGOT⁶ level (U/L)								
On day 1 of admission	70	80	66	73	34	N/A	48	23
In the hospital course	18	N/A	22	72	121	216	N/A	N/A
At the time of death/ discharge	N/A	N/A	17	126	N/A	79	N/A	N/A
SGPT⁷ levels (U/L)								
On day 1 of admission	46	68	55	12	24	108	27	31
In the hospital course	3	N/A	15	77	120	83	N/A	N/A
At the time of death/ discharge	N/A	N/A	17	168	N/A	N/A	N/A	N/A
D-Dimer	1500	1100	850	3162	1500	2747	N/A	1718
Troponin	N/A	N/A	78	449	<1.5	N/A	N/A	N/A

On day 1 of admission

PaO₂⁸ mmHg	209	55	42	30	25.9	140	39.9	49.9
SaO₂⁹ %	93%	87.9%	78%	56.4%	47%	98%	69.3%	82.4%

In the hospital course

PaO₂, mmHg	58	45	78	62	46.7	35	36.5	N/A
SaO₂, %	91%	70%	74%	91.8%	69%	64%	88.7%	N/A

At the time of death/ discharge

PaO₂, mmHg	164	60	N/A	125	68.5	139	153	N/A
SaO₂. %	98%	67%	56.2%	98.7%	94.9%	99%	19.2%	N/A

¹WBC: White Blood Cells, ²CRP: C-Reactive Protein, ³ESR: Erythrocyte Sedimentation Rate, ⁴LDH: Lactate Dehydrogenase, ⁵BUN: Blood Urea Nitrogen, ⁶SGOT: Serum Glutamic-Oxaloacetic Transaminase, ⁷SGPT: Serum Glutamic-Pyruvic Transaminase, ⁸PaO₂: partial pressure of oxygen, ⁹SaO₂: Oxygen saturation.

Table 2. detailed lab data of non- COVID-19 cases in their hospital course:

Lab data	Case A	Case B	Case C
Blood cell counts on day 1 of admission			
Total WBC¹ count (×10⁹ cells/L)	19.3	7	9.7
Absolute Neutrophil counts (×10 ⁹ cells/L, fraction %)	17.2 (89.2%)	3.4 (49%)	7.7 (79%)
Absolute Lymphocyte count (cells/ml, fraction%)	1582 (8.2%)	2653 (37.9%)	1067 (11%)
Platelet count (×10⁹ cells/L)	217	183	160
Blood cell counts in the course of hospital			
Total WBC count (×10⁹ cells/L)	21.8	22	13.5
Absolute Neutrophil counts (×10 ⁹ cells/L, fraction %)	19 (87.5%)	19.1 (87%)	1.1 (84.1%)
Absolute Lymphocyte count (cells/ml, fraction%)	1329 (6.1%)	1056 (4.8%)	1242 (9.2%)
Platelet count (×10⁹ cells/L)	272	238	222

Blood cell counts at the time of death/ discharge			
Total WBC count ($\times 10^9$ cells/L)	6.2	12.8	12.9
Absolute Neutrophil counts ($\times 10^9$ cells/L, fraction %)	3.9 (64.3%)	10.5 (82%)	9.8 (76.6%)
Absolute Lymphocyte count (cells/ml, fraction%)	1240 (20.9%)	1075 (8.4%)	1496 (11.6%)
Platelet count ($\times 10^9$ cells/L)	268	369	317
Procalcitonin	0.78	0.5	4.29
CRP² levels (mg/L)			
On day 1 of admission	N/A	N/A	48
In the hospital course	80	99	N/A
At the time of death/ discharge	N/A	66	N/A
ESR³ levels (mm/hour)			
On day 1 of admission	N/A	N/A	70
In the hospital course	81	29	N/A
At the time of death/ discharge	N/A	81	N/A
BUN⁴ levels mg/dL			
On day 1 of admission	9	16	25
In the hospital course	11	12	31
At the time of death/ discharge	12	14	15
Creatinine levels (mg/dL)			
On day 1 of admission	1.1	0.8	0.8
In the hospital course	1.2	0.7	0.9
At the time of death/ discharge	0.7	0.8	0.5
LDH⁵	N/A	N/A	1433
SGOT level (U/L)			
On day 1 of admission	75	44	234
In the hospital course	77	81	59
At the time of death/ discharge	N/A	N/A	N/A
SGPT⁶ level (U/L)			
On day 1 of admission	21	27	175

In the hospital course	42	56	83
At the time of death/ discharge	N/A	N/A	N/A
D-Dimer	4077	3062	N/A
Troponin	N/A	1035	N/A
On day 1 of admission			
PaO₂⁷	41.5	105	55.2
SaO₂⁸	74.2%	97.4%	88%
In the hospital course			
PaO₂	41.5	65	N/A
SaO₂	74.2%	71.3%	N/A
At the time of death/ discharge			
PaO₂	168.7	136	140
SaO₂	99.2%	99%	N/A

¹WBC: White Blood Cells, ²CRP: C-Reactive Protein, ³ESR: Erythrocyte Sedimentation Rate, ⁴LDH: Lactate Dehydrogenase, ⁵BUN: Blood Urea Nitrogen, ⁶SGOT: Serum Glutamic-Oxaloacetic Transaminase, ⁷SGPT: Serum Glutamic-Pyruvic Transaminase, ⁸PaO₂: partial pressure of oxygen, ⁹SaO₂: Oxygen saturation.