

Death from COVID-19 in a Hispanic Postpartum Woman and Review of the Literature

Supplementary Appendix

Table S1. Laboratory results showing clinical course progression

Variable	Reference Range	Prenatal Laboratory Results ^s	First Admission			Second Admission											
			PPD 0 [†]	PPD 1 [‡]	PPD 2	PPD 11	PPD 12	PPD 13	PPD 14	PPD 15	PPD 16	PPD 17	PPD 18	PPD 19	PPD 20	PPD 21	PPD 22
Prenatal Laboratory Tests																	
RPR	-	Non-reactive	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rubella IgG	-	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ABO grouping	-	A	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rh factor	-	Positive	Positive	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antibody screen	-	Negative	Negative	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HIV 1/2 Ab & Ag	-	Non-reactive	-	-	-	-	-	Non-reactive	-	-	-	-	-	-	-	-	-
Microbiology/Immunology Laboratory Tests																	
SARS-CoV-2 by RT-PCR	-	-	Detected	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Blood culture			Negative			Negative							Negative		Negative		Negative
Urine culture						Negative			Negative							Negative	Positive for Candida
Influenza A	-	-	Negative	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Influenza B	-	-	Negative	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QuantiferON-TB Gold	-	-	-	-	-	-	-	Negative	-	-	-	-	-	-	-	-	-
HBS Antigen	-	-	-	-	-	-	-	Negative	-	-	-	-	-	-	-	-	-
Anti-HBc, IgM	-	-	-	-	-	-	-	Negative	-	-	-	-	-	-	-	-	-
Anti-HAV, IgM	-	-	-	-	-	-	-	Negative	-	-	-	-	-	-	-	-	-
Anti-hepatitis C virus	<0.80	-	-	-	-	-	-	0.35 (Negative)	-	-	-	-	-	-	-	-	-

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			PPD 0 [†]	PPD 1 [‡]	PPD 2	PPD 11	PPD 12	PPD 13	PPD 14	PPD 15	PPD 16	PPD 17	PPD 18	PPD 19	PPD 20	PPD 21	PPD 22
Legionella antigen	-	-	-	Negative	-	Negative	-	-	-	-	-	-	-	-	-	-	-
Inflammatory Markers																	
C-reactive protein (mg/L)	<8.1	-	45.0	-	-	239.8	-	218.8	-	159.9	-	-	-	-	-	-	-
Erythrocyte sedimentation rate (mm)	0 – 20	-	-	-	-	32	-	-	-	-	-	-	-	-	-	-	-
Procalcitonin (ng/mL)	<0.06	-	-	-	-	0.55	-	-	-	-	-	-	-	-	-	-	-
Ferritin (ng/mL)	11 – 241	-	-	-	-	565	-	1256	-	504	-	-	-	-	-	-	-
IL-6 (pg/mL)	<5	-	-	-	-	-	-	80.1	-	-	-	-	-	-	-	-	-
D-dimer (ng/mL)	<500	-	-	-	-	62,236	-	7341	-	6545	-	-	-	-	-	6311	18416
Serum Electrolytes																	
Sodium (mmol/L)	133 – 144	-	128	132	127	139	138 ^a / 137 ^b	139/ 139	140/ 142	145/ 147	147 ^a / 146 ^b / 143 ^c	141/ 141	139/ 141	139/ 138	140/ 141	139/ 141	141/ 143
Potassium (mmol/L)	3.5 – 5.1	-	3	3.9	3.4	3.4	4.6/ 4.0	4.5/ 4.2	4.5/ 3.6	3.0/ 2.3	3.3/ 4.0/ 4.2	4.2/ 4.8	4.8/ 5.3	4.8/ 4.5	3.8/ 3.9	3.7/ 4.2	4.6/ 5.3
Chloride (mmol/L)	98 – 108	-	98	101	99	105	107/ 109	111/ 112	111/ 109	111/ 108	110/ 113/ 110	109/ 113	110/ 111	108/ 104	107/ 104	108/ 109	112/ 120
Carbon dioxide (mmol/L)	20 – 32	-	20	22	20	14/ 17	11/ 14	13/ 17	19/ 19	23/ 26	26/ 24/ 22	22/ 23	22/ 22	20/ 21	21/ 21	21/ 20	16/ 11
Calcium (mg/dL)	8.6 – 10.3	-	8.3	8.2	7.3	7.8	7.4/ 7.5	7.4/ 7.4	7.6/ 7.9	8.0/ 8.3	8.2/ 7.6/ 7.4	7.7/ 7.5	7.8/ 7.9	8.2/ 8.4	8.4/ 8.4	8.1/ 8.0	7.7/ 7.8
Glucose (mg/dL)	70 – 100	-	74	88	93	143	115/ 109	113/ 128	114/ 162	122/ 117	109/ 104/	99/ 84	100/ 106	124/ 95	95/ 126	95/ 109	63/ 39

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											116						
Total protein (mg/dL)	6.4 – 8.3	-	5.8	5.1	-	6.1	5.6/5.0	5.5	5.6	5.8	5.3	5.3	5.4	5.6	5.9	6.1	5.9/5.7
Magnesium (mg/dL)	1.6 – 2.6	-	-	-	1.3	-	1.9	2.1	2.1	2	2.1	1.9	2.3	2.1	1.9	1.6	1.8
Phosphorus (mg/dL)	2.5 – 4.7	-	-	-	-	-	6.6	-	-	3.2	1.3/1.5	3.6	6	5.6	4.6	5.2	6.5
Hematology/Blood Cell Counts																	
WBC count ($\times 10^9/L$)	4 – 11	7.8	5.7	7.4/8.9	5/5.4	38.3	32.3/20.9	25.9	22.5	20.7	14.6	17.5	15.2	16.7	15.1	13.3	29.8/39.2
Neutrophils (%)	-	72	-	76.3/82.3	79.1/83.5	72	77	90	81	81	76	71	72	73	82	63	35/36
Neutrophils absolute ($\times 10^9/L$)	1.5 – 7.7	-	4.2	5.6/7.3	3.9/4.5	27.6	24.9	23.4	18.4	18.2	12.4	12.8	11.1	12.4	12.5	8.4	10.7/14.6
Lymphocytes (%)	-	20	13.6	14.7/10.2	13.5/9.1	7	-	2	4	1	8	5	7	6	8	11	24/22
Lymphocytes absolute ($\times 10^9/L$)	0.6 – 4.0	1.6	0.8	1.1/0.9	0.7/0.5	2.7	-	0.5	0.9	0.2	1.2	0.8	1	1	1.2	1.5	7.2/8.5
Monocytes (%)	-	-	12.8	8.5/7.3	7.1/7.3	7	2	1	6	3	5	13	7	6	13	14	7/6
Monocytes Absolute ($\times 10^9/L$)	0 – 1	-	-	-	-	2.7	0.6	0.2	1.3	0.6	0.8	2.2	1	2.1	0.9	1.9	2.0/2.3
Meta myelocytes (%)	-	-	-	-	-	4	2	1	5	3	1	6	1	-	2	5	9/10
Meta absolute ($\times 10^9/L$)	<0.1	-	-	-	-	-	0.6	0.3	1.1	0.6	0.2	1	0.2	-	0.3	0.6	2.6/3.8
Myelocytes (%)	-	-	-	-	-	1	4	3	1	2	4	1	5	5	2	2	7/4
Myelocytes absolute ($\times 10^9/L$)	<0.1	-	-	-	-	-	1.3	0.8	0.2	0.4	0.6	0.2	0.7	0.8	0.3	0.3	2.0/1.5

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Eosinophils (%)	-	-	0	0/0	0/0	-	-	-	-	-	1	1	1	-	-	1	-
Eosinophils absolute ($\times 10^9/L$)	0 – 0.7	-	0	0/0	0/0	-	-	-	-	-	0.1	0.2	0.2	-	-	0.1	1.1
Basophils (%)	-	-	0.3	0.5/0.2	0.3/0.1	-	-	-	-	-	-	-	-	1	-	-	-
Basophils absolute ($\times 10^9/L$)	0 – 0.2	-	0	0/0	0/0	-	-	-	-	-	-	-	-	0.2	-	-	-
RBC count ($\times 10^{12}/L$)	3.8 – 5.4	5.01	4.61	4.26/ 3.77	2.98/ 2.96	4.43	3.89/ 3.59	3.79	3.46	3.42	3.36	3.57	3.55	3.54	3.48	3.28	3.49/ 3.47
Hemoglobin(g/L)	115 – 155	137	120	112/ 100	78/ 76	114	99/ 93	97	91	9	89	97	93	92	93	86	92/ 90
Hematocrit (%)	34 – 46.5	41.8	36.4	34/ 29.9	23.2/ 23.4	38	31.8/ 29.0	30.8	28.9	28.2	27.7	29.9	29.6	29.1	29.8	27.7	30.7/ 32.0
MCV (fl)	82.0 – 99.0	83	78.9	79.7/ 79.4	78.0/ 79.1	85.8	81.6/ 80.8	81.5	83.6	82.2	82.4	83.7	83.4	84.2	83.7	84.5	88.0/ 92.1
MCH (pg)	27.0 – 34.0	-	25.9	26.4/ 26.4	26.2/ 25.9	25.7	25.5/ 25.9	25.6	26.2	26.3	26.5	27	26.2	26.1	26.6	26.3	26.4/ 25.8
MCHC (gm/dL)	32.0 – 36.0	-	32.9	33.1/ 33.3	33.6/ 32.7	30	31.2/ 32.0	31.4	31.3	32	32.2	32.3	31.4	31	31.8	31.2	30/ 28.1
RDW (%)	11.0 – 15.0	14.7	16.1	16.5/ 16.1	16.0/ 16.3	19	17.7/ 17.7	17.7	18.1	18.3	19	21.3	22.1	22.5	22.2	23	23/ 23.5
MPV (fl)	7.0 – 11.0	-	8.5	8.1/ 7.6	7.8/ 7.9	11.1	9.6/ 10.5	10.5	9.9	9.3	8.9	9	9.6	9.1	9.3	9.7	9.0/ 9.1
Platelet count ($\times 10^9/L$)	150 – 450	217	158	157/ 160	128/ 126	188	81/ 92	128	139	151	191	230	254	329	304	323	312/ 255
Bands (%)	-	-	-	-	-	7	15	3	3	10	4	3	7	2	-	4	18/ 16
Bands absolute ($\times 10^9/L$)	0 – 0.8	-	-	-	-	2.7	4.8	0.8	0.7	2.1	0.6	0.5	1	0.3	-	0.5	5.2/ 6.2
Nucleated RBC	<1	-	-	-	-	4	23	6	10	4	9	4	1	-	1	1	11/

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																		13
Burr Cells	-	-	-	-	-	-	-	-	-	Few	Few	-	Few	-	-	-	-	-
Coagulation Parameters																		
Prothrombin time (seconds)	9.7 – 13.1	-	-	-	-	12.4	-	-	-	-	-	-	-	-	-	-	-	20.8/ 20.9
INR	0.8 – 1.2	-	-	-	-	1.2	-	-	-	-	-	-	-	-	-	-	-	1.8/ 1.8
aPTT (seconds)	26.8 – 36	-	-	-	-	29.2/ 81.9	70.9	-	76.8	52.8/ 77.7/ 84.2	83.1	76.9	110.3/ 93.6/ 82.5	83.6/ 78.7/ 71.4	46.9/ 58.0/ 60.6	54.4/ 88.4/ 124.5	177.5/ 100.2/ 145.2	
Liver Function Tests & Metabolic Tests/Laboratory Results																		
AST (U/L)	10 – 40	-	27	26	-	33	1856/ 1146	1435	737	409	326	211	173	158	125	94	494/ 1084	
ALT (U/L)	7 – 35	-	21	17	-	23	1040/ 824	1103	1005	806	618	381	269	199	152	107	172/ 284	
Albumin (mg/dL)	3.5 – 5.7	-	3.2	2.7	-	2.5	2.2/ 2.0	2.3	1.7	2.1	2	1.9	1.8	1.8	1.7	1.7	1.6/ 1.5	
Total bilirubin (mg/dL)	0.0 – 1.4	-	0.8	0.8	-	4.3	6.2/ 5.9	6.5	6.4	6.5	7.7	6.4	6.2	5.7	5	3.6	4.3/ 4.5	
Direct bilirubin (mg/dL)	0.0 – 0.3	-	-	-	-	-	NA/ 3.5	4.3	4.2	4.2	4.2	-	-	-	-	-	-	
ALP (U/L)	30 – 110	-	95	67	-	88	68/ 66	72	75	80	80	75	80	89	114	123	122/ 137	
TG (mg/dL)	<150	-	-	-	-	-	526	-	-	-	426	-	-	482	-	-	320	
Renal function tests																		
BUN (mg/dL)	7 – 25	-	4	5	8	15/ 19	25/ 27	32/ 40	49/ 58	61/ 55	53/ 51/ 49	44/ 46	42/ 47	48/ 47	47/ 46	41/ 44	62/ 64	
Creatinine (mg/dL)	0.5 – 1.4	-	0.65	0.65	0.61	1.01	1.91/ 2.61/ 2.75/ 2.20/ 1.68/ 1.54/ 1.52/ 1.57/ 1.61/ 1.57/ 3.69/											

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							2.12	2.54	2.33	1.76	1.51/ 1.42	1.48	1.60	1.64	1.53	2.13	4.25
Estimated GFR (mL/min/1.73m ²)	>89	-	>60	>60	>60	77/44	36/ 31	24/ 25	23/ 28	30/ 39	41/ 47/ 51	46/ 48	47/ 44	45/ 43	44/ 46	45/ 31	16/ 14
African American estimated GFR (mL/min/1.73m ²)	>89	-	>60	>60	>60	89/ 51	41/ 36	28/ 29	27/ 32	35/ 45	48/ 55/ 59	-	54/ 51	52/ 50	51/ 54	52/ 36	19/ 16
BUN/creatinine	6.0 – 20	-	6.2	7.7	13.1	14.9	-	-	-	61	53	44	44	-	-	-	-
Anion gap (mmol/L)	6.2 – 14.7	-	10	9	8	20	20/ 14	15/ 10	10/14	11/ 13	11/ 9/ 11	10/ 5	7/ 8	11/ 13	12/ 16	10/ 12	13/ 12
Cardiac Function Markers																	
BNP (pg/mL)	1 – 100	-	-	-	-	898	-	1035	-	-	-	-	-	-	-	1391	-
Troponin (ng/mL)	0 – 0.02	-	-	-	-	0.17/ 0.24	-	0.07	-	0.06	-	-	0.03	-	-	0.06	-
CK (u/L)	35 – 200	-	-	-	-	101	-	70	-	-	-	-	-	-	-	-	150
LDH (u/L)	108 – 212	-	-	-	-	1751	-	2737	-	1063	-	-	-	-	-	-	-
Lactic acid (mm/L)		-	-	-	-												
Arterial	0.4 – 1.3	-	-	-	-	2.7/ 3.1	2.3	2.6	-	-	-	-	-	-	-	-	-
Venous	0 – 2.5	-	-	-	1.2	7.6	-	-	-	-	-	-	-	-	-	-	-
Blood Gas and Respiratory Parameters/Laboratory Results																	
pH	7.36 – 7.46	-	-	-	-	7.25 ^a / 7.17 ^b / 7.18 ^c / 7.21 ^d / 7.25 ^e	7.24/ 7.27/ 7.30/ 7.26/ 7.29	7.27/ 7.25/ 7.22/ 7.23/ 7.22	7.20/ 7.21/ 7.27	7.41/ 7.42/ 7.45/ 7.49	7.45/ 7.43	7.42/ 7.39	7.38/ 7.40	7.32/ 7.41	7.44/ 7.35	7.33/ 7.26/ 7.24	7.11/ 7.07/ 6.86
pCO ₂ (mmHg)	32 – 46	-	-	-	-	36/ 34/ 33/ 48/ 41/ 41/ 39/ 39/ 44/ 31/ 42/ 52/											

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						43/ 38/ 34	32/ 33/ 32/ 33	33/ 40/ 43/ 45	48/ 49	40/ 38/ 38	41	42	38	37	42	48/ 50	50/ 72
pO ₂ (mmHg)	83 – 108	-	-	-	-	36/ 43/ 38/ 34	190/ 203/ 89/ 122/ 74	83/ 126/ 99/ 79/ 88	105/ 75/ 88	69/ 66/ 66/ 60	320/ 79	65/ 146	106/ 72	124/ 72	92/ 69	61/ 68/ 71	65/ 69/ 37
hCO ₃ (mm/L)	21 – 29	-	-	-	-	15/ 15/ 15/ 14/ 14	14/ 14/ 16/ 14/ 15	15/ 14/ 16/ 17/ 18	18/ 19/ 22	25/ 25/ 26/ 29	28/ 26	25/ 25	22/ 23	22/ 23	21/ 23	22/ 21/ 21	16/ 14/ 12
TCO ₂ , calculated (mm/L)	23 – 30	-	-	-	-	16/ 16/ 16/ 15/ 15	15/ 15/ 17/ 15/ 16	16/ 15/ 17/ 18/ 19	20/ 20/ 23	26/ 27/ 28/ 30	29/ 28	26/ 26	24/ 24	24/ 24	22/ 24	23/ 22/ 22	17/ 15/ 14
BE, calculated (mm/L)	-	-	-	-	-	-11/ -13/ -11/ -12/ -12	-12/ -11/ -10/ -12/ -10	-11/ -12/ -11/ -10/ -9	-9/ -8/ -5	1/ 1/ 3/ 5	4/ 2	1/ 1	-2/ -1	-3/ -1	-2/ -2	-4/ -6/ -6	-13/ -15/ -21
Carboxyhemoglobin (%)	0 – 2	-	-	-	-	1.7/ 1.3/ 1.5	-	-	-	-	-	-	-	-	-	-	-
Methemoglobin (%)	0 – 1.5	-	-	-	-	1.4/ 1.5/ 1.3	-	-	-	-	-	-	-	-	-	-	-
Total Hemoglobin (gm/dL)	12 – 16	-	-	-	-	10.7/ 10.3	-	-	-	-	-	-	-	-	-	-	-

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Deoxyhemoglobin (%)	0 – 6	-	-	-	-	2.2/ 1.7	-	-	-	-	-	-	-	-	-	-	-	
Oxyhemoglobin (%)	94 – 99	-	-	-	-	94.7/ 95.5	-	-	-	-	-	-	-	-	-	-	-	
O2 saturation, calculated (%)	94 – 99	-	-	-	-	97.7/ 98.2	-	-	-	-	-	-	-	-	-	-	-	
HCT calculated (%)	34 – 51	-	-	-	-	33.0/ 31.9	-	-	-	-	-	-	-	-	-	-	-	
Calcium ionized (mm/L)	1.15 – 1.30	-	-	-	-	1.06	-	-	-	-	-	-	-	-	-	-	-	
Calcium, ionized pH corrected (mm/L)	1.15 – 1.30	-	-	-	-	0.98	-	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Urinalysis																		
Color	Yellow	-	Yellow	-	-	Yellow/ Amber	-	-	Amber	-	-	-	-	-	-	-	Yellow	Amber
Clarity	Clear	-	Clear	-	-	Clear / Cloudy	-	-	Cloudy	-	-	-	-	-	-	-	Clear	Cloudy
Glucose	Negative	-	Negative	-	-	Trace /2+	-	-	Negative	-	-	-	-	-	-	-	Negative	Negative
Bilirubin	Negative	-	Negative	-	-	Negative/ Negative	-	-	Small	-	-	-	-	-	-	-	Negative	Moderate
Ketones	Negative	-	5	-	-	Small / Negative	-	-	Negative	-	-	-	-	-	-	-	Negative	Negative
Specific gravity	1.003 – 1.035	-	1.003	-	-	1.023/ 1.030	-	-	1.026	-	-	-	-	-	-	-	1.012	1.025
Blood	Negative	-	Negative	-	-	Moderate/ Moderate	-	-	Negative	-	-	-	-	-	-	-	Small	Large
pH	4.5 – 8.0	-	7	-	-	6/5	-	-	6	-	-	-	-	-	-	-	6	5.5

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Protein	Negative	-	Negative	-	-	2+/2+	-	-	2+	-	-	-	-	-	-	2+	>=3+
Urobilinogen (mg/dL)	<2.0	-	Negative	-	-	4.0/4.0	-	-	4	-	-	-	-	-	-	<2.0	1
Nitrite	Negative	-	Negative	-	-	Negative/Negative	-	-	Negative	-	-	-	-	-	-	Negative	Positive
Leukocytes	Negative	-	Trace	-	-	Negative/Negative	-	-	Negative/Negative	-	-	-	-	-	-	Trace	Moderate
Urine RBCs (/HPF)	0 – 3	-	3 – 5	-	-	2/6	-	-	None	-	-	-	-	-	-	-	50 – 100
Urine WBCs (/HPF)	0 – 3	-	0 – 5	-	-	3/4	-	-	3	-	-	-	-	-	-	-	10 – 20
Epithelial cells (/HPF)	0 – 3	-	Few	-	-	2/1	-	-	None	-	-	-	-	-	-	-	0 – 2
Bacteria		-	Few	-		Few	-	-	-	-	-	-	-	-	-	-	Moderate
Mucous	Few	-	-	-	-	Many/Few	-	-	Few	-	-	-	-	-	-	Few	Few
Hyaline casts (/LPF)	0 – 2	-	-	-	-	10 – 20/15	-	-	2	-	-	-	-	-	-	3	0 – 2
Osmolality, urine (mOsm/k)	300 – 1,000	-	-	-	-	-	-	328	-	-	-	-	-	-	-	-	-
Urea nitrogen		-	-	-	-	-	-	110	-	-	-	-	-	-	-	-	-
Urine microalbumin (mg/L)	<19	-	-	-	-	-	-	-	140.2	-	-	-	-	-	-	-	-
Protein urine random (mg/dL)	-	-	-	-	-	-	-	-	119	-	-	-	-	-	-	-	-
Urine creatinine (mg/dL)	-	-	-	-	-	-	-	-	128.8	-	-	-	-	-	-	-	-
Urine protein/creatinine (mg/mg)	<0.16	-	-	-	-	-	-	-	0.92	-	-	-	-	-	-	-	-

Variable	Reference Range	Prenatal Laboratory Results [§]	First Admission			Second Admission											
			PPD 0 [†]	PPD 1 [‡]	PPD 2	PPD 11	PPD 12	PPD 13	PPD 14	PPD 15	PPD 16	PPD 17	PPD 18	PPD 19	PPD 20	PPD 21	PPD 22
Serum Medication Levels																	
Vancomycin Random	-	-	-	-	-	-	-	20.1	11.1	-	-	-	-	-	-	-	-

* Abbreviations: ALP, Alkaline phosphatase; ALT, alanine aminotransferase; APTT, activated partial thromboplastin time; AST, aspartate aminotransferase; BE, Base excess; BHCG, beta human chorionic gonadotropin; BNP, brain natriuretic peptide; BUN, blood urea nitrogen; CK, creatine kinase; CRP, C-reactive protein; ESR, erythrocyte sedimentation rate; GFR, glomerular filtration rate; HBS, hepatitis B surface antigen; hCO₃, bicarbonate; HCT, hematocrit; HIV, human immunodeficiency virus; IL-6, Interleukin 6; INR, international normalized ratio; LDH, lactate dehydrogenase; MCH, mean corpuscular hemoglobin; MCHC, mean corpuscular hemoglobin concentration; MCV, mean corpuscular volume; MPV, mean platelet volume; NP, nasopharyngeal; O₂, oxygen; pCO₂, partial pressure of carbon dioxide; pO₂, partial pressure of oxygen; PPD, postpartum day; RBC, red blood cell; RDW, red cell distribution width; Rh, Rhesus; RPR, rapid plasma regain; TB, tuberculosis; TCO₂, total carbon dioxide; and WBC, white blood cell.

[§] Pre-admission/prenatal day: September 06, 2019.

[†] PPD 0: April 01, 2020.

[‡] PPD 1: April 02, 2020.

^a First measurement of the day

^b Second measurement of the day

^c Third measurement of the day

^d Fourth measurement of the day

^e Fifth measurement of the day