
Supplementary information

Respiratory disease in rhesus macaques inoculated with SARS-CoV-2

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Supplemental Information

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Table S1. Clinical scoring sheet used for health assessments of nonhuman primates. Of note, a combined score of 35 indicates humane endpoint and requires immediate euthanasia.

Animal Tattoo:		Study ID:			
Species:	Room:	Date:			
		Time			
	Clinical Signs	Tech:			
			Score	Score	Score
General Appearance	Normal, Alert	0			
	a)Abnormal or Hunched Posture, b)Dull Appearance to Eyes	5			
	a)Dehydration b)Notable Weight Loss c)Obvious Swelling d) Tissue mass	10			
	Bleeding from any orifice (not related to routine procedures or menstruation)	15			
Skin and Haircoat	Normal	0			
	a)Ruffled Fur, b)Unkept Appearance	5			
	a)Rash, b)Pallor, c)Redness, d)Icterus, e)Petechiae, f)Ecchymoses, g) Wound, h)Abscess, i)Ulcer	10			
Nose, Mouth, Eyes, Head	Normal	0			
	a)Nasal discharge, b)Excessive Salivation, c)Ocular Discharge, d)Lacrimation, e)Reddened Eyes, f)Ptosis	5			
Resp	Normal	0			
	a)Increased or b)Decreased Respiration, c)cough, d)sneezing	5			
	a)Dyspnea, b)Open Mouth Breathing, c)Cyanosis	15			
Stool	NS – Normal SNS- Soft normal PS- Pasty Stool	WPS- Wet Pasty TLS – Thick liquid LS – Liquid DS – Dry Hard			
Feces & Urine	Normal	0			
	a)Decreased Feces, b)Dry, Wet and Pasty, c)Watery Feces, d)Discoloration e)Decreased urine, f)Discoloration	2			
	Feces absent	5			
	a)Liquid Feces (if debilitating), b)Urine Absent, c)Blood in Feces or Urine	10			
Appetite	Normal (eating more than half the biscuits)	0			
	Decreased (eating less than half the biscuits)	3			
	Eating Fruit but no biscuits	5			
	Severely decreased (not eating biscuits or fruit)	10			
Activity	Normal	0			
	a) Hyperactivity (circling, increased aggression), b)Hypoactivity (hunched, inactive on camera, active with people in room)	5			
	a)Ataxia, b)Neurological Signs (tremors, head tilt,), c)Loss of Interest in Treats	10			
	a)Reluctant to Move, b)Uses Cage for Support, c)Difficulty Getting to Food or Water (decreased response to human presence), d)Seizures	15			
	a)Down with no or Minimal Response to Human Approach, b)Coma	35			
Food eaten					

Water Given					
TOTAL SCORE					

Table S2. Blood chemistry in rhesus macaques infected with SARS-CoV-2. Blood samples were analyzed using the General Chemistry 13 panel in a Piccolo Express chemistry analyzer.

Animal	Time (dpi)	Glucose (mg/dL)	BUN (mg/dL)	Creatinine (mg/dL)	Calcium (mg/dL)	Albumin (g/dL)	Total protein (g/dL)	Calc Glob (g/dL)	ALT (U/L)	AST (U/L)	AST/ALT Ratio	ALP (U/L)	Total bilirubin (mg/dL)	GGT (U/L)	Amylase (U/L)	Hem	Lip	Ict
RM1	0	118	15	1.1	9.5	3.2	6.6	3.4	46	47	1.02	516	0.6	102	442	0	0	0
	1	124	14	1.1	9.1	3.1	6.2	3.1	83	66	0.80	463	0.7	89	591	1	0	0
	3	93	20	1.1	8.6	3.0	6.1	3.1	78	57	0.73	411	0.7	81	464	0	0	0
RM2	0	97	11	0.6	10.5	3.4	7.5	4.1	31	29	0.94	161	0.6	53	325	0	0	0
	1	132	10	0.8	10.6	3.3	7.5	4.2	29	29	1.00	161	0.5	50	373	2	0	0
	3	85	8	0.7	10.0	3.3	7.4	4.1	25	33	1.32	172	0.7	49	377	1	0	0
RM3	0	54	22	0.9	10.1	3.5	6.7	3.2	36	44	1.22	767	0.6	127	330	0	0	0
	1	104	21	0.9	9.6	3.5	6.5	3.0	46	66	1.43	701	0.8	117	539	0	0	0
	3	82	20	1.1	9.4	3.5	6.6	3.1	44	41	0.93	537	0.7	106	324	0	0	0
RM4	0	84	19	0.9	10.1	3.5	7.2	3.7	70	49	0.70	184	0.5	75	288	0	0	0
	1	85	15	0.6	9.8	3.2	6.5	3.3	76	67	0.88	166	0.5	65	251	0	1	0
	3	66	19	0.9	8.7	3.3	6.5	3.2	58	39	0.67	158	0.5	60	249	0	0	0
RM5	0	77	12	0.8	9.8	3.3	6.6	3.3	37	38	1.03	546	0.5	98	345	0	0	0
	1	103	14	0.9	10.6	3.5	7.7	4.2	56	52	0.93	598	0.6	106	385	1	0	0
	3	78	15	1.0	9.3	3.1	6.9	3.8	40	48	1.20	457	0.6	87	317	0	0	0
	5	85	14	0.9	10.3	3.4	7.8	4.4	80	62	0.78	459	0.6	95	327	0	0	0
	7	75	15	0.7	9.5	3.1	6.7	3.6	55	39	0.71	415	0.6	84	341	0	0	0
	10	75	18	0.8	9.7	3.1	7.0	3.9	42	35	0.83	461	0.5	84	352	0	0	0
	12	85	13	0.9	9.6	3.2	7.3	4.1	48	38	0.79	505	0.6	87	370	0	0	0
	14	79	15	0.8	9.5	3.1	6.7	3.6	51	35	0.69	446	0.5	80	408	0	0	0
	17	82	16	0.9	10.0	3.3	6.8	3.5	83	45	0.54	464	0.5	84	383	0	0	0
21	73	8	0.8	9.2	3.2	6.3	3.1	60	50	0.83	450	0.4	81	333	0	0	0	
RM6	0	81	15	0.7	9.6	3.3	5.9	2.6	28	29	1.04	361	0.5	79	354	0	0	0
	1	118	18	1.0	11.8	4.6	8.4	3.8	41	45	1.10	442	0.6	101	698	0	0	0
	3	81	12	0.7	9.8	3.5	6.8	3.3	35	32	0.91	302	0.5	80	383	0	0	0
	5	86	15	0.8	11.0	3.9	8.0	4.1	42	35	0.83	331	0.5	94	382	0	0	0
	7	68	15	0.8	10.3	3.7	7.1	3.4	42	32	0.76	313	0.5	86	330	0	0	0
	10	72	16	0.7	10.2	3.7	7.2	3.5	50	29	0.58	320	0.5	90	399	0	0	0
	12	76	13	0.7	10.4	3.7	7.2	3.5	44	28	0.64	326	0.5	90	382	0	0	0
	14	72	14	0.7	10.5	3.8	7.3	3.5	41	30	0.73	323	0.5	90	411	0	0	0
	17	74	17	0.7	10.7	3.8	7.5	3.7	37	31	0.84	305	0.5	87	389	0	0	0
21	68	13	0.7	10.3	3.7	7.0	3.3	49	38	0.78	316	0.4	84	353	0	0	0	
RM7	0	98	11	0.9	10.1	3.8	7.3	3.5	45	33	0.73	770	0.5	136	417	0	0	0
	1	143	14	1.0	10.9	4.0	7.9	3.9	60	58	0.97	716	0.6	135	342	0	0	0
	3	90	13	0.8	9.2	3.3	6.6	3.3	44	37	0.84	468	0.5	103	384	0	0	0
	5	102	17	0.9	11.4	3.9	8.2	4.3	46	37	0.80	501	0.5	118	489	0	0	0
	7	69	13	0.8	9.4	3.3	6.9	3.6	42	29	0.69	424	0.5	95	421	0	0	0
	10	75	17	0.7	10.0	3.5	7.1	3.6	43	28	0.65	478	0.5	99	448	0	0	0

	12	83	14	1.0	10.7	4.0	8.1	4.1	46	38	0.83	604	0.5	116	457	0	0	0
	14	72	12	0.8	9.8	3.4	6.9	3.5	84	33	0.39	540	0.5	100	481	0	0	0
	17	77	17	1.0	10.1	3.5	6.9	3.4	60	53	0.88	513	0.5	99	441	0	0	0
	21	67	9	0.7	9.7	3.5	6.7	3.2	46	41	0.89	569	0.4	105	416	0	0	0
RM8	0	110	14	0.8	11.2	3.6	7.6	4.0	26	31	1.19	260	0.5	79	444	0	0	0
	1	110	11	0.8	11.0	3.6	7.4	3.8	46	57	1.24	259	0.6	75	493	0	0	0
	3	76	12	0.7	8.9	3.2	6.7	3.5	58	49	0.84	197	0.6	64	438	0	0	0
	5	83	13	0.7	11.1	3.7	7.8	4.1	68	36	0.53	202	0.5	73	467	1	0	0
	7	75	13	0.7	9.6	3.3	6.7	3.4	48	31	0.65	182	0.5	62	398	0	0	0
	10	76	14	0.6	10.1	3.5	6.7	3.2	38	29	0.76	193	0.5	61	383	2	0	0
	12	76	11	0.7	9.2	3.4	6.7	3.3	34	27	0.79	211	0.5	61	359	0	0	0
	14	70	11	0.7	9.7	3.5	6.7	3.2	34	28	0.82	229	0.5	65	447	0	0	0
	17	77	12	0.7	10.1	3.4	6.8	3.4	34	36	1.06	206	0.5	62	436	0	0	0
	21	74	11	0.7	9.9	3.6	6.6	3.0	35	27	0.77	207	0.5	62	367	0	0	0