Clinical Scoring

Cage-Side Assessment Description Parameter Score Normal—bright, alert, responsive 0 Mild—slightly depressed, acts disinterested when personnel in room, 2 lying down in cage but gets up when approached Responsiveness and recumbency Moderate/obtunded—non-responsive, very disinterested in personnel, 4 hunched or lying down, will get up when prodded, pinched, or similarly stimulated 6 Severe/comatose—lying down completely unresponsive to stimuli Nasal or ocular 2 Discharges Nasal and ocular 4 Skin Rash 1 Normal—no apparent changes in breathing, 30–54 breath per minute 0 (BPM), and no cough Respiration, dyspnea, and cough Mild—slightly increased effort breathing, 55–65 BPM, or mild cough 2 Moderate—obvious difficulty breathing, 66–80 BPM, or apparent 4 cough Severe—respirations labored, open mouth breathing, abdominal 6 breathing, >80 BPM, cyanosis, or hemoptysis 100% of biscuits 0 10–25% of biscuits remaining 1 Food consumption 25–50% of biscuits remaining 2 >50% of biscuits remaining 3 Normal 0 Soft 1 Fecal consistency Fluid 2 3 Fluid and profuse amount **Total**

Notes (any observed sneezing, vomit, conjunctival erythema, or other abnormalities)

Physical Examination Under Anesthesia		
Parameter	Description	Score
Rectal temperature (taken immediately after sedation)	Normal (37.0–38.9°C)	0
	Low-grade fever (39–39.5°C)	2
	Fever (>39.5°C)	4
Heart rate	Normal (up to 19 BPM over baseline, ***/***)	0
	Mild tachycardia (20–39 BPM over baseline),	1
	Moderate tachycardia (40–69 BPM over baseline)	2
	Severe tachycardia (>70 BPM over baseline)	3
Respiratory rate	Normal—30–54 BPM	0
	Mild tachypnea—55–65 BPM	2
	Moderate tachypnea—66–80 BPM	4
	Severe tachypnea—>80 BPM	6
SpO_2	Normal (95–100%)	0
	Mildly decreased (90–94%)	1
	Moderately decreased (87–89)	2
	Severely decreased (<87)	3
Body weight	Normal (0–3% loss)	0
	Mild (4–9% loss)	1
	Moderate (10–16% loss)	2
	Severe (>16% loss)	3

Normal skin turgor, moist mucous membranes

Skin tenting, dry mucous membranes, and sunken eyes

Skin tenting or dry mucous membranes

Skin tenting and dry mucous membranes

Dehydration

0

1

2

3

Total

Notes (auscultation findings if applicable, conjunctival erythema, palpable masses, or any other abnormalities)

The sheets above were modified from a previous nonhuman primate influenza A virus study to include clinical signs relevant to COVID-19 and respiratory rates for crab-eating macaques (<u>1-3</u>). Physical examinations were performed whenever an animal was anesthetized.

References

- 1. D. S. Chertow *et al.*, Influenza A and methicillin-resistant Staphylococcus aureus co-infection in rhesus macaques A model of severe pneumonia. *Antiviral Res* **129**, 120-129 (2016).
- 2. I. D. Bolton, in *The nonhuman primate in nonclinical drug development and safety assessment*, J. Bluemel, S. Korte, E. Schenck, G. F. Weinbauer, Eds. (Academic Press, San Diego, CA, USA, 2015), pp. 67-86.
- 3. C. Huang *et al.*, Clinical features of patients infected with 2019 novel coronavirus in Wuhan, China. *Lancet* **395**, 497-506 (2020).