

Supplementary Materials

Table S1

Table S1. Respiratory Clinical Distress Score Criteria

Score	Respiratory Quality	Stridor	Activity
0	Normal	Normal	Normal
1	Mild abdominal breathing with tachypnea (>100)	Stridor with activity only, mild	Mildly depressed activity,
2	Moderate abdominal breathing, possibly with mild gasping	Stridor at rest, mild to moderate	Moderately depressed activity (movement with stimulation)
3	Severe abdominal breathing, severe gasping, and low respiratory rate(<60)	Stridor at rest, severe	Obtunded, no movement with stimulation; or severe agitation with stimulation

Table S2

Table S2. Histopathological Scoring System

Histopathological scoring system	
A. Peribronchiolar/bronchial infiltrates (percentage of sites)	
	0-none
	1-few (<25%)
	2-many (25-75%)
	3-all (>75%)
B. Quality of peribronchiolar/bronchial infiltrates ^{a)}	
	0-none
	1-mild
	2-moderate
	3-severe
C. Bronchiolar/bronchial luminal exudate ^{b)}	
	0-none
	1-minimal
	2-heavy
D. Perivascular infiltrate (percentage of sites)	
	0-none
	1-few (<10%)
	2-many (10-50%)
	3-majority (>50%)
E. Parenchymal pneumonia ^{c)}	
	0-none
	3-minimal
	5-heavy

a) Occasional minimal infiltrates or large peribronchial lymphoid mass seen in normal animals. Mild=abnormal, often with interrupted collar. Moderate= complete collar or crescent collar with <5 cells thickness. Severe=complete collar with >5-10 cells thickness.

b) Minimal= \leq 25% lumen occlusion. Heavy= $>$ 25% lumen occluded.

c) Minimal=patchy parenchymal infiltrates. Heavy=patchy and confluent parenchymal infiltrates.

Numeric score (ranging 0-26) accumulated by the addition of subscores: $A+3(\text{average B}+\text{average C})+D+E$. Average B determined by applying subscore B to all bronchiolar and bronchial airways per sagittal section and determining average. Average C determined by applying subscore C to all bronchiolar and bronchial airways per sagittal section and determining average.