

Supplementary Table S1. Scoring criteria for the subjective assessment of microscopic changes in lung and nasal cavity of hamsters infected with SARS-CoV-2.

Location	Lesion	Score 0 (normal)	Score 1 (minimal)	Score 2 (mild)	Score 3 (moderate)	Score 4 (marked)
Lung	Airway epithelial degeneration/necrosis and/or inflammatory cell infiltration with or without exudates	None	Occasional (1 or 2) airways affected; up to 5% of slide affected	Present in multiple airways; up to 25% of airways affected	Present in multiple airways; between 26–50% of airways affected	Present in multiple airways; over 50% of airways affected
	Peri-airway inflammatory infiltrates (cuffing)	None	Occasional incomplete, or loosely formed cuffs; up to 5% of slide affected	Numerous cuffs; predominantly incomplete and loosely formed with lesser well-formed complete cuffs; up to 25% of airways affected	Numerous cuffs; approximately half or more well-formed, and may have few broad, dense cuffs; between 26–50% of airways affected	Numerous cuffs; predominantly well-formed with numerous broad, dense cuffs; over 50% of airways affected
	Perivascular inflammatory infiltrates (cuffing)	None	Occasional incomplete, or loosely formed cuffs; up to 5% of slide affected	Numerous cuffs; predominantly incomplete and loosely formed with lesser well-formed complete cuffs; up to 25% of vessels affected	Numerous cuffs; increased numbers are well-formed, and may have few broad, dense cuffs; between 26–50% of vessels affected	Numerous cuffs; predominantly well-formed with numerous broad, dense cuffs; over 50% of vessels affected
	Alveolar walls/space infiltration by inflammatory cells, primarily neutrophils and macrophages; variable oedema/fibrin +/- type II pneumocyte hyperplasia	None	Small numbers of foci affected within the parenchyma; up to 5% of slide affected	Increased frequency of foci; between 6–25% of the slide affected	Multifocal coalescing or larger patches of parenchyma; between 26–50% of the slide affected	Large areas of parenchyma; over 50% of the slide affected
Nasal cavity	Epithelial attenuation/ and necrosis in the mucosa	None	Occasional epithelial cell degeneration; up to 5% of slide affected	Multifocal epithelial cell degeneration/necrosis; between 6–25% of the slide affected	Multifocal, sometime coalescing areas of epithelial cell degeneration/; between 26–50% of the slide affected	Multifocally extensive to coalescing areas of epithelial cell degeneration/necrosis; over 50% of the slide affected
	Presence of exudates within the nasal cavity lumen	None	Minimal presence of inflammatory cells; up to 5% of slide affected	Mild exudation of degenerate epithelial and inflammatory cells; between 6–25% of the slide affected	Moderate exudation of degenerate epithelial and inflammatory cells; between 26–50% of the slide affected	Marked/severe exudation of degenerate epithelial and inflammatory cells; over 50% of the slide affected