**Supporting information S13**

**Pathohistological scoring system**

Score =

sum (pathologist score 0 to 3 for each of neutrophils, fibrin, necrosis, thrombosis, hemorrhages, pleocytosis and epithelial cell transmigration from 12 representative slides)

(Possible range 0-252, observed range 24-53)

+

sum (pathologist score 0 to 3 for each of type II pneumocytes hyperplasia, bronchiolitis obliterans, peribronchial lymph nodes, macrophage infiltration, and interstitial thickening from the same 12 representative slides)

(Possible range 0-180 observed range 8-49)

+

2 X Percentage total lung consolidation

(Possible range 0 to 200 observed range 5 -100)

This can optionally be converted to a 0-100 scale by dividing by 632.