

Table S3. Histopathologic lesions in Rat PyV2 infected rats

| Organ | Lesion | Severity by Group | | |
|--|--|-------------------|-----------|------------------------------------|
| | | Adults | Weanlings | Co-infected with <i>P. carinii</i> |
| Lungs** | Bronchiolar hyperplasia | Moderate | Moderate | Moderate |
| | Interstitial pneumonia* | Moderate | Severe | Moderate |
| | Alveolar edema | Mild | Severe | Mild |
| | Alveolar hemorrhage | Moderate | Mild | Moderate |
| | Alveolar neutrophils | — | Moderate | — |
| | Subpleural foamy macrophages | Moderate | — | Moderate |
| | Bronchial neutrophils and mucous | Mild | — | Severe |
| Nasal cavity** | Epithelial necrosis | Mild | Severe | N/A |
| | Neutrophilic and histiocytic infiltrates | Mild | Severe | N/A |
| | Lymphoplasmacytic and mastocytic infiltrates | Moderate | — | N/A |
| Harderian gland** | Epithelial necrosis | Severe | — | N/A |
| | Epithelial hyperplasia | Severe | Mild | N/A |
| | Glandular atrophy and loss | Severe | — | N/A |
| | Fibrosis | Moderate | — | N/A |
| | Mixed inflammatory infiltrate | Moderate | — | N/A |
| Salivary glands ** (Parotid and Submandibular) | Epithelial necrosis | Severe | Mild | N/A |
| | Glandular atrophy and loss | Severe | Mild | N/A |
| | Fibrosis | Severe | Mild | N/A |
| | Mixed inflammatory infiltrate | Moderate | Mild | N/A |
| Prostate** | Hyperplasia and dysplasia | Severe | N/A | N/A |
| Uterus** | Epithelial hyperplasia | Mild | — | N/A |
| Kidney | Tubular necrosis | Moderate*** | — | N/A |

*Interstitial pneumonia was characterized by mixed interstitial inflammatory infiltrates and type II pneumocyte hyperplasia

** Intranuclear inclusion bodies were present in epithelial cells of these organs in every group where tissue was examined

***Lesion only present in a single male examined

N/A: Not applicable; organ not examined in this group

Dash (—): Lesion not present