

### Category E explanation- Hamsters

Administration of pain/distress-relieving drugs can change the clinical sign monitoring and increase chance for contamination. Syrian hamster (*Mesocricetus auratus*), develops only moderate signs of clinical disease and lung pathology after infection with SARS-CoV-2 (<https://pubmed.ncbi.nlm.nih.gov/32408338/>). Roborovski hamsters (*Phodopus roborovskii*) are highly susceptible COVID-19 model with consistent and fulminant clinical signs within 3 days following infection (<https://pubmed.ncbi.nlm.nih.gov/33271063/>). Animals will be monitored for pain and distress daily or twice a day based on the scoring. Any animal that reaches a score of 1 will be sacrificed.

### Explanation for Category E- Swine

Seven pigs were born with a CDKL5-deficiency disorder which causes seizures in humans. The effect of this mutation on pigs is unknown so these animals were classified as Category E in case they do have recurring seizures. To date, no pigs have exhibited seizures.

Fifteen pigs were used to study influenza infection. They are categorized as Category E since no pharmacological intervention was to be given. Pigs were monitored for well-being/pain/distress at least 2 times per day and scored for any pain or distress. The protocol states that once a predetermined score is reached the pig will be humanely euthanized. To date, no pigs have reached a pain/distress score to require euthanasia.