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UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

Annual Report of Research Facility
Column E Explanation

(TYPE OR PRINT)

This information is required by law (7 U.S.C. 2143 and 9 C.F.R. §2.36). Failure to report according to the regulations can result in an order to cease and desist.

1. REGISTRATION NUMBER

21-R0239

2. Research Facility Headquarters address

Trudeau Institute Inc.
154 Algonquin Ave.
Saranac Lake, NY 12983

3. Number of animals used in the study.

22

4. Species (common name) of animals used in the study.

Hamster

5. Explain the procedure producing pain and distress.

For this IACUC approved study, the hamsters were intranasally infected with SARS-COV-2 variant after which they were expected to show signs of disease, which includes losing weight, becoming inactive, and developing pneumonia. Although, we used anesthesia during the viral intranasal infection, we did not use analgesics to alleviate the pain and distress that the hamsters may develop during length of the infection. This was our first SARS-COV-2 infection study using the hamster model, so we were not positive what reaction the animals would have to the untreated infection. This is why they were categorized as E. We did have clear humane endpoints in place, based on weightloss, signs of pain and distress, and inactivity. The subsequent results of this experiment showed that all infected hamsters experienced only minor transient weight changes and minor transient respiratory changes.

6. Provide the scientific justification for not providing the appropriate anesthetics, analgesics, or tranquilizing drugs during procedures where the animal experienced accompanying pain or distress greater than momentary or slight.

The scientific aim of this experiment was to study the pathogenesis of SARS-COV-2 strains in hamsters and validate a SARS-COV-2 hamster model that can display relevant SARS-COV-2 virus pathogenesis and disease severity that is similar to COVID-19 human patients. While we did provide appropriate anesthetics for the intranasal infection procedure, we did not provide analgesics because to do so may have impacted the natural course of the disease, and hence interfere with the aims of the study.

7. What, if any, Federal regulations require this procedure? Cite the agency, the Code of Federal Regulations (CFR) title number, and the specific section number (e.g., APHIS, 9 CFR 113, 102):

N/A/

Agency	CFR