

Column E Explanation
Federal Fiscal Year 2021

1. Registration Number: 57-R-0005

2. Research Facility Headquarters address:

*Office of Animal Care and Use
212 Tucker Hall
310 East Campus Road
Athens, GA 30602*

3. Number of animals used in this study: 28; however, not all experienced conditions consistent with column E. [24 were affected and showed clinical signs consistent with column E, 4 did not show clinical signs of illness consistent with column E]

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

5. Explain the procedures producing pain and/or distress.

Infected with influenza virus and Mycobacterium bovis, influenza virus and Mycobacterium tuberculosis, Mycobacterium bovis, or Mycobacterium tuberculosis. This infection may lead to clinical signs such as weight loss, lethargy, decreased appetite, and changes to respiration.

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

Any treatment of clinical disease with tuberculocidal drugs would inhibit effective acquisition of necessary data. Early euthanasia would also confound results that are needed to determine if the influenza infection will affect tuberculosis disease severity.

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, 9CFR 113.102): NA

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1. Registration Number: 57-R-0005

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3. Number of animals used in this study: 86; however, not all experienced conditions consistent with column E. [16 animals were affected and showed clinical signs of illness consistent with column E, and 70 did not show clinical signs of illness consistent with column E]

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

5. Explain the procedures producing pain and/or distress.

Infected with influenza virus. While many of the influenza virus strains cause few, or no clinical signs, influenza may lead to clinical signs such as weight loss, lethargy, decreased appetite, and changes to respiration.

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

Analgesics may alter the critical data and endpoints by altering the immune/inflammatory response. In addition, clinical signs are assessed as data, so treating the clinical signs would confound the data.

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, 9CFR 113.102): *NA*

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3. Number of animals used in this study: 236; however, not all experienced conditions consistent with column E. [8 animals were affected and showed clinical signs of illness consistent with column E, and 228 did not show clinical signs of illness consistent with column E]

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

5. Explain the procedures producing pain and/or distress.

Infected with influenza virus. While many of the influenza virus strains cause few, or no clinical signs, influenza may lead to clinical signs such as weight loss, lethargy, decreased appetite, and changes to respiration.

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

Analgesics may alter the critical data and endpoints by altering the immune/inflammatory response. In addition, clinical signs are assessed as data, so treating the clinical signs would confound the data.

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, 9CFR 113.102): NA

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1. Registration Number: 57-R-0005

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3. Number of animals used in this study: 84; however, not all experienced conditions consistent with column E. [26 animals were affected and showed clinical signs of illness consistent with column E, and 58 did not show clinical signs of illness consistent with column E]

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

5. Explain the procedures producing pain and/or distress.

Ferrets were infected with Influenza and/or SARS-2 Coronavirus. While many of the influenza virus strains cause few, or no clinical signs, influenza may lead to clinical signs. SARS-2 Coronavirus could theoretically lead to clinical signs. Both viruses could cause signs such as weight loss, lethargy, decreased appetite, and changes to respiration.

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

The goal of the study was to understand the pathogenesis of co-infection of influenza and COVID-19 virus and/or assess the efficacy of vaccine candidates. Direct treatment of the infections, or treatment of the clinical signs (e.g., analgesics) would impact the immune/inflammatory response, and interfere with the interpretation of experimental results.

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, 9CFR 113.102): NA