According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0579-0035. The time required to corplete this information collection is easier and the collections, searching existing data sources, gathering and maintaining the data needed, and comploting and reviewing the collection of information.

OMB APPROVED
0578-0038

Interagency Report Control No. 0180-D0A-AN

Fiscal year: 2020

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.		
52-R-0011	University of Virginia, Office of VP for Research P. O. Box 400301 Charlottesville, VA 22904	
3. Number of animals used in the study.	4. Species (common name) of animals used in the study.	
147	rabbits	
associated with the ensuing dysentery.		
or tranquilizing drugs during procedures wi	providing the appropriate anesthetics, analgesics, here the animal experienced accompanying pain or	
or tranquilizing drugs during procedures will distress greater than momentary or slight. Opiates are due to the changes they cause in gastre		
or tranquilizing drugs during procedures will distress greater than momentary or slight. Opiates are due to the changes they cause in gastre are not administered because of their influence on it	here the animal experienced accompanying pain or ointestinal motility. Non-steroidal anti-inflammatory drugs	

According to the Paparwork Reduction Act of 1985, an agency risky not conduct or sponsor, and a person is not required to respond to, a collection of information, unless it displays at valid OMS control number. The valid OMS control number for this information collection is 0579-0035. The time required to complete this information collection is estimated to average .5 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data record, and completing and reviewing the collection of information.

OMB APPROVED
0579-0036
Interogency Report Control No. 0180-DQA-AN
Fiscal year: 2020

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

Annual Report Column	E Explanation YPE 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 cease and desist.		
1. REGISTRATION NUMBER	2. Research Facility Headquarters address	
52-R-0011	University of Virginia, Office of VP for Research P. O. Box 400301 Charlottesville, VA 22904	
3. Number of animals used in the study.	Species (common name) of animals used in the study. ferrets	
(buprenorphine) is administered as needed after the f		
6. Provide the scientific justification for not	providing the appropriate anesthetics, analgesics	
6. Provide the scientific justification for not or tranquilizing drugs during procedures will distress greater than momentary or slight. In general, opiates are medically contra-indicated in show experimentally to exacerbate the extent of cellindicated in the ferrets that receive hemorrhage and		
6. Provide the scientific justification for not or tranquilizing drugs during procedures will distress greater than momentary or slight. In general, opiates are medically contra-indicated in show experimentally to exacerbate the extent of ce indicated in the ferrets that receive hemorrhage and (valium) is administered to alleviate the distress of the contract of	providing the appropriate anesthetics, analgesics here the animal experienced accompanying pain on traumatic brain or spinal cord injury as they have been intral nervous system injury. Further, opiates are contradict are being treated for hypovolemic shock. Anxiolytics	

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number for this information collection is 0579-0006. The time required to complete this information collection is estimated to average ,5 hours per response, including the time for reviewing instructions, scarching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

OMB APPROVED 0579-0036 Interagoncy Report Control No. 0180-DDA-AN Fiscal year: 2020

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. sc	 Failure to report according to the regulations can result in an order to ase and desist.
1. REGISTRATION NUMBER	2. Research Facility Headquarters address
52-R-0011	University of Virginia, Office of VP for Research P. O. Box 400301 Charlottesville, VA 22904
3. Number of animals used in the study.	 Species (common name) of animals used in the study.
331	hamsters

5. Explain the procedure producing pain at

There are three studies of infectious diseases that use harnsters as a model for human disease. One study is of enterotoxogenic Clostridium difficile examining the role of eosinophils and some cytokines that ameliorate the clinical symptoms of diarrhea and dehydration. The hamsters are euthanized if they lose 20% or more of their body weight during the course of infection.

The second two studies use a hamster model of SARS-CoV-2 (Covid-19). Hamsters are given SARS CoV-2 by either an intra-nasal or intra-tracheal route to test of the efficacy of candidate vaccines or therapeutic treatments during the ensuing infection. The hamsters are euthanized if they lose 20% of their body weight or show severe signs of respiratory distress.

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.

In the Clostridium dificile experiments no non-steroidal anti-inflammatory analgesia is provided as this is a study that quantifies inflammation, and administering opicids would change gastrointestinal motility.

In the SARS CoV-2 experiments no non-steroidal anti-inflammatory analgesia is provided during that time as this is a study that quantifies pulmonary inflammation, and whole body plethysmography is performed to quantify components of breathing and administering opioids would depress respiration.

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):

Ness		
None		
Agency	CFR	