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OMB APPROVED
0579-0036

Interagency Report Control No. 0180-DOA-AN

Fiscal year: 10/1/2021-9/30/2022

**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

63-R--0129

2. Research Facility Headquarters address

Vanderbilt University Medical Center

3. Number of animals used in the study.

20

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

Rabbit

5. Explain the procedure producing pain and distress.

Procedures that generally produce no more than momentary or slight pain/distress in humans but may produce pain and/or discomfort in experimental rabbits include intravitreal and subretinal injections (performed under anesthesia) and repeated subcutaneous injections of cyclosporin.

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.

Animals undergoing potentially painful procedures are administered appropriate anesthetics and analgesics. However, out of an abundance of caution animals are reported in Category E given that the analgesics may not be effective in alleviating some sources of pain/distress experienced by the rabbits (e.g. pain associated with the eye itself, sequelae associated with cyclosporin immunosuppression).

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):

Not applicable

Agency

CFR

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

Tree shrew

5. Explain the procedure producing pain and distress.

Anesthetized tree shrews received a series of controlled air blasts to one eye to study retinal damage (and potential therapeutics) in a model of blast-induced ocular trauma.

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.

While the painful procedures (air blasts) were done under anesthesia and no outward signs of injury were observed upon recovery, animals are reported in Column E because this species may mask pain/distress and post-procedure analgesics cannot be administered because they would interfere with results. Specifically, the procedure is intended to mimic blast trauma in military situations where access to analgesics subsequent to injury may be very delayed. Additionally, because inflammation is a study endpoint, the use of analgesics/anti-inflammatories would potentially suppress the inflammatory response and confound results.

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CFR