

<p>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 0579-0036. 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 needed, and completing and reviewing the collection of information.</p>		<p>OMB APPROVED 0579-0036</p>
		<p>Interagency Report Control No. 0180-DOA-AN</p>
		<p>Fiscal year: 2020</p>
<p align="center">UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE</p> <p align="center">Annual Report of Research Facility Column E Explanation (TYPE OR PRINT)</p>		
<p>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.</p>		
<p>1. REGISTRATION NUMBER</p> <p align="center">58-R-0015</p>	<p>2. Research Facility Headquarters address</p> <p>University of South Florida 12901 Bruce B Downs Blvd, MDC20 Tampa, FL 33612</p>	
<p>3. Number of animals used in the study.</p> <p align="center">6</p>	<p>4. Species (common name) of animals used in the study.</p> <p align="center">Guinea Pig</p>	
<p>5. Explain the procedure producing pain and distress.</p> <p>Guinea pigs undergoing hyperoxia (oxygen levels more than 75%) may have some pain and distress. Although hyperoxia in guinea pigs may cause animal discomfort, experimental animals subjected to hyperoxia manifest the hyperoxic heart injury necessary as a model to study the underlying changes. To avoid discomfort/pain animals will be monitored for signs of respiratory difficulty and euthanize if there are signs of respiratory distress.</p>		
<p>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.</p> <p>Although treatment of hyperoxia may cause some pain/discomfort to guinea pigs, we will not be using any analgesics, anesthetics, or tranquilizers. As the main goal of the study is to investigate effect of hyperoxia on cardiovascular remodeling (electrical remodeling, functional and structural remodeling), and many reports suggest the influence of anesthetics (PMID: 31082134), analgesics (PMID: 9694923; PMID: 26461073; PMID: 6328399), and tranquilizers (PMID: 21570617), use of these drugs may interfere with cardiovascular physiology and therefore will not be used in our study. We will be monitoring guinea pigs under hyperoxia treatment every 6h (throughout the treatment time) and check for any signs of respiratory distress/ discomfort. Animals that show signs of discomfort will be removed from the study and will be euthanized immediately.</p>		
<p>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):</p> <p>Not Applicable.</p>		
<p>Agency</p> <p>Not Applicable</p>	<p>CFR</p> <p>Not Applicable</p>	

04 NOV 2020