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		Interagency Report Control No. 0180-DOA-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.		
1. REGISTRATION NUMBER 74-R-0018	2. Research Facility Headquarters address Baylor College of Medicine, One Baylor Plaza (MS: BCM310) Houston, TX 77030	
3. Number of animals used in the study. 11	4. Species (common name) of animals used in the study. Pig	
5. Explain the procedure producing pain and distress. The protocol includes models of severe acute illness. We will provide preemptive Buprenorphine SR (0.12-0.24 mg/kg) to minimize pain, discomfort and distress. In addition, fluids (10 mL/kg saline up to 30 mL/kg) will be given when mean blood pressure (determined with an arterial (carotid) pressure monitor or telemetry device) falls below 70% of the pre LPS value and glucose will be given to maintain glycemia above 60 mg/dL. Blood pressure, temperature, respiration rate and clinical score will be used to monitor (every 30 min) LPS challenged and septic pigs. A similar approach will be used to monitor ischemic pigs (in addition we may include abdominal NIRS if available). Control pigs will be paired fed to their septic counterparts and it is likely that they will not have access to feed for 50-60 h, which will cause discomfort.		
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. Pain and distress cannot be relieved because the use of analgesics (both opioids and NSAID) or anti-inflammatories will affect the inflammation response, thus invalidating the model of endotoxemia and inflammation.		
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): None		
Agency	CFR	