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		Interagency Report Control No. 0180-DOA-AN	
		Fiscal year: 2020	
<b>UNITED STATES DEPARTMENT OF AGRICULTURE</b> <b>ANIMAL AND PLANT HEALTH INSPECTION SERVICE</b>  <b>Annual Report of Research Facility</b> <b>Column E Explanation</b> (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.			
<b>1. REGISTRATION NUMBER</b> 84-R-0091		<b>2. Research Facility Headquarters address</b> Bronco Research Services, LLC PO Box 1417 Fort Collins, CO 80522	
<b>3. Number of animals used in the study.</b> 25		<b>4. Species (common name) of animals used in the study.</b> Dogs	
<b>5. Explain the procedure producing pain and distress.</b> These animals were used to develop a Mechanical Threshold Testing system in combination with an intra-articular injection of kaolin/carrageenan. The dog kaolin carrageenan (K/C) model is used to induce an acute synovitis that manifests as local inflammation and lameness. The K/C model induced lameness peaked at ~10 hr post IA injection and resolved by 34 hours. The K/C model is less severe and more consistent than the other acute synovitis model (sodium urate injection). No long-term consequences to the acute inflammation have been reported for the K/C model and several studies have utilized repeat injections in the same joint after a period of rest with no adverse effects. Animals were treated with analgesics following the 30-hour evaluation, if lameness persisted. The animals were acclimated to the mechanical threshold testing and it did not cause pain and distress.			
<b>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.</b> The K/C model was developed to allow for the assessment of long acting, novel osteoarthritis treatments for dogs. Analgesics were withheld because the studies involved are designed to evaluate the potential analgesic effect of the experimental compound and the administration of an analgesic would confound the results. Carprofen, ketamine, and grapiprant are known to be effective in the K/C model and serve as a positive control. Carprofen was used the rescue analgesia as needed.			
<b>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):</b>  N/A			
<b>Agency</b> N/A		<b>CFR</b> N/A	

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