

Category E Explanation for 31-R-0116

An explanation of the procedures producing pain or distress on these animals and the reasons such drugs were not used:

Necrotizing enterocolitis (NEC) is the leading cause of death from gastrointestinal disease in premature infants. The objective of this study is to assess new therapies for premature infants presenting with NEC in the hospital setting. The piglet model of NEC is effective because neonatal pig intestine is developmentally similar to the intestine of premature human infants. A liquid diet will be fed to piglets using an orogastric tube to induce NEC. Advanced clinical symptoms of NEC are decreased activity, increased respiratory rate, bloody diarrhea, abdominal distention or vomiting. In order to minimize or alleviate pain, subcutaneous buprenorphine will be administered at the first sign of any of the advanced clinical symptoms of NEC and continue this every 8-12hr if they persist. Animals are euthanized if pain and distress cannot be alleviated with buprenorphine.

Current Deviations

31-R-0116_FY19_E.pdf

Date Run:11/11/2019

Species: Swine (Sus scrofa)	Deviation Approved: 9/12/2018	Date End: 9/12/2021	
Area Involved:	Cleaning	Number of animals: 2	
Description:	Pigs will be housed either on the floor on bedding or in pens. Post infusion with radiopharmaceuticals animals will be housed in such a way that urine and feces are collected (in a pan if housed in pens) and as such only minimal cleaning including spot cleaning with water will be done for a period of 10 half-lives to prevent radioactive materials from entering the drain. 20 hours post infusion with fluorine-18 radiotracer. 60 hours post infusion with technetium-99m radiotracer.		
Species: Swine (Sus scrofa)	Deviation Approved: 9/12/2018	Date End: 9/12/2021	
Area Involved:	Housing	Number of animals: 140	
Description:	Piglets will be housed in specially made incubators or tubs that are kept at 90 to 95 degrees Fahrenheit using heating lamps or other forms of veterinarian approved heating devices. The bedding and blankets used will be changed as needed to keep the area clean from feces and urine. The space requirement (neonatal piglets) will be an exception to the Guide standards but is required to keep piglets in a thermoneutral zone (90-95F). In addition the piglets may also be housed in rabbit cages. In this instance they will be provided with supplemental heat in the form of a temperature controlled room as well as heated padding in the individual cages to keep body temperature at standard temperature.		
Species: Chinchilla (Chinchilla lanigera)	Deviation Approved: 8/20/2019	Date End: 7/10/2022	
Area Involved:	Social housing and environmental enrichment	Number of animals: None. No new animals on site since deviation approved	
Description:	Chinchillas will be social housing prior to inoculation at the guidance and observation of the vivarium staff. Once the animals are inoculated, we would request an exemption from social housing until determined that the animals can house by cohort numbers and do not demonstrate aggressive behavior. In addition, an exemption from dust baths once the animals have been infected until a period at which the animals go 'off study' for a period of time prior to termination of the study. We would like to resume a dust bath schedule with any animals that have gone 'off study' for a period of time longer than 2 weeks with a 'wash out' period of 2 weeks prior to inoculation.		