IACUC Approved Exception

1. Registration number.

47-R-0004

2. Number of animals used in this study.

16 sheep

3. Species of animals used in this study.

Sheep (Ovis aries)

4. Explain the IACUC Approved Exception

After surgery to place indwelling IV catheters, ewes are kept in 1.5 x 1m carts. The sheep adapt readily to these carts and have free access to water, salt, and food. The bottom of the cart is plastic mesh through which feces and urine drop into a tray below the cart. Each cart is cleaned daily. The sheep is dog-collared by a chain to the front of the cart during studies (~2hr) and for daily flushing of catheters (~15min). This is not a tight restraint, as chains are about 12 inches in length. In previous studies, we have kept ewes in these carts for up to 10 weeks without problems or animal discomfort. Animals in these carts eat, drink, and gain weight appropriately.

Sheep must be kept in these carts, as catheters require daily flushing and chasing a sheep down and pinning it in a larger room would be stressful and traumatic. In addition, when catheters are exposed for studies or daily flushing, chaining the ewe prevents it from becoming entangled in the catheters or biting them, either of which would cause irreversible damage and loss of the experimental unit.

Sheep in carts will be kept adjacent with one another similar to pen location.