

RODENT BASIC BIOMETHODOLOGY IN-PERSON TRAINING

UNIVERSITY OF SOUTH FLORIDA
COMPARATIVE MEDICINE

Attendee Name: _____
Print Sign Date

Please circle species trained: **Mouse** **Rat**

Discuss/Review:

- ___ USF web-based training power-points: Estrus Detection, Weaning & Sexing Mice, Mouse Blood Collection using SMB, Basic Skills, Mouse Euthanasia, Rodent Dosing, Rat Saphenous & Femoral Bleeds
- ___ Related SOPs: 400, 401; Related IACUC Principles: XII, XIX, XX
- ___ Identification by cage card with protocol #
- ___ Basic considerations of normal behavior and responses
- ___ General health assessment: normal vs. abnormal vs. model or phenotype related signs
- ___ Route of injection as related to absorption rate

Demonstrate/Assess:

Handling/Restraint/Health Assessments

- ___ *Handling and Restraint*
- ___ *Health assessment, identifying normal parameters, common findings, basic behaviors*
- ___ *Movement between two cages/induction chambers*
- ___ Proper Scruff technique
- ___ Topical application of a substance
- ___ Sexing various ages of animals (flash cards)

Injection Routes (SC, IP, PO)

- ___ How best to manually restrain
- ___ Appropriate needle size and injection volume
- ___ Physical restraint for each route of administration
- ___ Needle position, depth & angle of insertion for each route
- ___ Delivery of material

Blood Collection (Submandibular/Saphenous/Femoral/Cardiac)

- ___ Appropriate positioning and landmarks
- ___ How to visualize point of insertion
- ___ Use of pura-lube at site of stick
- ___ Types of collection tubes
- ___ Appropriate volumes/collection frequency
- ___ Terminal vs. survival bleed

Anesthesia/Analgesia

- ___ Procedures that cause discomfort/pain in humans are assumed to cause pain in animals
- ___ Pain/discomfort are reduced by good nursing care (e.g., warm, clean, dry, well-padded) and analgesics
- ___ Analgesic drug administrations must be recorded on forms kept by the housing room

Euthanasia

- ___ Euthanasia by inhalation of carbon dioxide is followed by the assurance of the cessation of cardiovascular and respiratory movements by observation at least 10 minutes, or by employing a secondary method of euthanasia such as cervical dislocation, decapitation, or bilateral thoracotomy
- ___ Death is verified prior to carcass disposal
- ___ Euthanasia chamber is not prefilled, but filled gradually with medical grade CO₂ from a compressed tank source at an approximate rate of 30-70% volume per minute (show hang tags on tanks) gas flow may be increased as loss of consciousness is observed
- ___ Chamber is cleaned and dried between animals (same species, sufficient floor space); euthanize in home cage whenever possible, or place in a clean micro-isolator

Training & assessment provided by: _____
Print Sign Date

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