**Monitoring for Humane Endpoints to Prompt Intervention to Prevent Continued Pain or Distress**

In *The Guide*, information critical to the IACUC's assessment of appropriate endpoint consideration in a protocol includes:

* precisely defining the humane endpoint (including assessment criteria);
* the frequency of animal observation; training of personnel responsible for assessment/recognition of the humane endpoint;
* the response required upon reaching the humane endpoint.

The IACUC has determined that the list below defines the commonly accepted clinical milestones which should be regarded as humane endpoints for most terrestrial animal studies. Choose all of those which are appropriate for the species being used.

For each milestone, indicate the action that will be taken. Add other milestones (in the row marked 'other') if applicable for defining the humane endpoints for the proposed study. Please complete a separate form for each species.

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|  | **TTUHSC IACUC # \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** **Clinical Observation / Milestone** | **Applicable to this proposal** | **Frequency of observation** | **Protocol personnel will perform each of these observations** | **Response required upon reaching the humane endpoint.** | **Provide duration (# of days, weeks, etc.)****of monitoring OR a scientific justification for not using the milestones listed** |
| 1 | Infection unrelated to the protocol. | - | - | - | - |  |
| 2 | Not eating or drinking (will require individual housing to effectively assess) | - | - | - | - |  |
| 3 | Decreased fecal and urine output (will require individual housing to effectively assess) | - | - | - | - |  |
| 4 | Delayed wound healing (requires checking at least daily until suture removal) | - | - | - | - |  |
| 5 | Sudden behavioral change (ex: aggression, guarding, hiding) | - | - | - | - |  |
| 6 | Licking, biting, scratching of the operative/injection site (requires daily checking until suture removal) | - | - | - | - |  |
| 7 | Poor posture or ambulating difficulty (ex: tense, tucked-up, stiff gait) | - | - | - | - |  |
| 8 | Lost hair coat condition (ex: ruffled fur, lack of grooming, piloerection) | - | - | - | - |  |
| 9 | Sudden activity level change (ex: restlessness, pacing, reluctance to move) | - | - | - | - |  |
| 10 | Unexpected sweating or salivation (ex: stressed rodents salivate excessively when stressed) | - | - | - | - |  |
| 11 | 'Painful' facial expression (ex: grimace, eyes dull, pupils dilated, pinning of ears) | - | - | - | - |  |
| 12 | Oculonasal discharge (ex: rats shed porphyrin pigment when stressed) | - | - | - | - |  |
| 13 | Teeth grinding (ex: More common in rabbits.) | - | - | - | - |  |
| 14 | Signs of moderate to severe pain or distress that was not anticipated by the study plan. | - | - | - | - |  |
| 15 | Body weight loss exceeding 15% of free-feeding body weight relative to an age-matched reference. (ex: Requires regular <q 48 hours> weighing) | - | - | - | - |  |
| 16 | Self-mutilation (requires checking at least daily until suture removal) | - | - | - | - |  |
| 17 | Neurological disorders (eg, seizures, blindness, ataxia) not anticipated by the study plan. | - | - | - | - |  |
| 18 | Cardiopulmonary disorders (eg, sudden weakness, vascular collapse, coma) not anticipated by the study plan. | - | - | - | - |  |
| 19 | Abnormal feeding or defecation for 48 hours (eg, decreased feed/water intake and/or decreased fecal production unrelated to the study plan). | - | - | - | - |  |
| 20 | Non-weight bearing for 72 hours (eg, difficulty walking, inability to maintain upright posture). | - | - | - | - |  |
| 21 | Other humane endpoints to be used in this project: |  |