

## Column E Explanation

This form is intended as an aid to complete the Column E explanation. It is not an official form and its use is voluntary. Annual Reports and explanations should NOT include PII information such as names (principle investigators and research staff), addresses, protocols, meeting notes (either in part or in full), the animals room numbers, grant information, veterinary care programs, and the like. A Column E explanation must be written so as to be understood by lay person as well as scientists.

1. Registration Number: **93-R-0584**
2. Number of animals categorized as column E used in this study: **178**
3. Species (common name) of animals used in this study: **naked mole rats**
4. Explain the procedure producing pain and/or distress. Explanations should include a brief description of the procedure, but also explain what the animal's experience, examples of which may include, but are not limited to: Neurological signs, seizures, tremors, paralysis, lethargy, inappetence, respiratory signs, GI distress, vomiting, and diarrhea.

**These animals were on a study that involves surgical induction of hypoxic/ischemic stroke. Pain and distress resulting from carotid artery ligation surgery are alleviated by multimodal analgesia and neurological impairment following hypoxia/ischemia exposure is addressed via supportive care (heat, food supplements and warmed fluids) for 48-72 hours. Depending on the location and size of the brain area affected from the hypoxic stroke model, we anticipated a range of neurological symptoms including decreased activity, head tilt, ataxia or circling; however, almost all animals were neurologically normal after the procedure with one NMR presenting with persistent circling consistent with stroke. Body weights are measured daily for five days following surgery and weekly thereafter. No animals were euthanized for body weight loss exceeding 20%.**

5. Attach or include with the reason(s) for why anesthetics, analgesics and tranquilizers could not be used. (For federally mandated testing, see Item 6 below).

**Anesthetics and analgesics are not withheld in these studies.**

6. What, if any, federal regulation 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): If the requirement is per a guidance document, such as an Agency notice or harmonization guideline, please provide specific sufficient information to identify the cited document.

**Not applicable**