



**STANDARD OPERATING PROCEDURE #717**  
**USE OF TAMOXIFEN IN RODENTS**

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**1. PURPOSE**

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This Standard Operating Procedure (SOP) describes the guidelines for the use of tamoxifen in rodents.

**2. CONSIDERATIONS**

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All chemical hazards must be listed in an approved Animal Use Protocol (AUP).

Tamoxifen is a synthetic estrogen receptor modulator which is commonly used to treat breast cancer in women. In animal

- 5.3. Women who are pregnant, expecting to become pregnant, or nursing should not handle or be exposed to tamoxifen or feces/urine of animals treated with tamoxifen. Refer to the University Laboratory Safety Committee's

6.2.4. Oral gavage:

6.2.4.2.61 BDC -0.0073584 0 Td[-2-5.9sav)-8e aID (4)-1 (2mL sav)-8yavrla (a)-12.3nd (4)-1 (2a 2(4)-12.1 /H4 AMO

- 6.3.9.2.3. N95 respirator
- 6.3.9.2.4. Face shield or goggles
- 6.3.9.3. Empty soiled bedding in a certified, ventilated and filtered bedding disposal unit. Wash cages as usual.
- 6.3.9.4. Wash cages with an automated washer.
- 6.4. Small spills and leakage:
  - 6.4.1. Use absorbent paper to pick up all liquid spill material.
  - 6.4.2. Wash any surfaces you may have contaminated with a 70% alcohol solution.
- 6.5. Waste disposal:
  - 6.5.1. All items contaminated or potentially contaminated with tamoxifen (e.g., gloves, bedding, paper towels) are discarded as hazardous waste by incineration.

## 7. SAFETY

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- 7.1. In case of accidental exposure:
  - 7.1.1. Potential routes of exposures include inhalation, skin absorption, ingestion, and unintentional injection.
  - 7.1.2. Report the incident immediately to your supervisor. A McGill University Accident, Incident & Occupational Disease Report form must be completed <https://www.mcgill.ca/ehs/forms/forms/accident-and-incident-report>
  - 7.1.3. Splash in eyes:
    - 7.1.3.1. Flush eyes with water or normal saline solution for 15 minutes. Remove contact lenses.
    - 7.1.3.2. Seek medical attention after flushing eyes.
  - 7.1.4. Skin exposure:
    - 7.1.4.1. Immediately flush affected skin with water while removing and isolating all contaminated clothing.
    - 7.1.4.2. Gently wash all affected skin areas thoroughly with soap and water. Rinse for 15 minutes
    - 7.1.4.3. If symptoms such as redness or irritation develop, seek medical attention.
  - 7.1.5. Inhalation:
    - 7.1.5.1. Immediately leave the contaminated area; take deep breaths of fresh air.
    - 7.1.5.2. Immediately call a physician or poison control center.
  - 7.1.6. Ingestion:
    - 7.1.6.1. Do not induce vomiting.
    - 7.1.6.2. Give 1 or 2 glasses of water and immediately call a hospital or poison control center.

## 8. REFERENCES

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- 8.1. Alsina-Sanchis E, Mulfarth R, Moll I, et al. Intraperitoneal Oil Application Causes Local Inflammation with Depletion of Resident Peritoneal Macrophages. *Mol Cancer Res* 2021;19:288-300.
- 8.2. Donocoff RS, Teteloshvili N, Chung H, et al. Optimization of tamoxifen-induced Cre activity and its effect on immune cell populations. *Sci Rep* 2020;10:15244.
- 8.3. Hubbard JS, Chen PH, Boyd KL. Effects of Repeated Intraperitoneal Injection of Pharmaceutical-grade and Nonpharmaceutical-grade Corn Oil in Female C57BL/6J Mice. *J Am Assoc Lab Anim Sci* 205 Tc 0.00nl

