

University Animal Care Committee Standard Operating Procedure		
Document No: 7.1	Subject: Pain Management in Mice	
Date Issued: February 16 th , 2012	Revision: 4	Page No: 1

Queen's University

Principal Investigators, Research Staff, Veterinary Staff

The purpose of this Standard Operating Procedure (SOP) is to describe methods for assessing and treating pain in rodents.

1. Introduction and Definitions:

Based on the definition of pain from the American College of Laboratory Animal Medicine (ACLAM), pain is an unpleasant sensory and emotional experience associated with actual or potential tissue damage and should be expected in an animal subjected to any procedure or disease model that would be likely to cause pain in a human.

It is generally agreed that pain adversely impacts the welfare of animals and that in research protocols, pain, if not controlled, is a variable which can confound the interpretation of experimental results.

Procedures expected to cause more than slight or momentary pain (e.g., pain in excess of a needle poke) should be controlled by the application of analgesic or anesthetic relieving measures unless scientifically justified in an approved animal use protocol (AUP).

Pain management is an important ethical and moral issue but is challenged by inconsistency related to lack of evidence based effective doses for different strains, the challenge of assessing pain and the ability to reduce pain. This results in extrapolation from other species to rodents for dose rates.

The following tables provide some opt 518.62 383.16 42

University Animal Care Committee Standard Operating Procedure

Document No:
7.1

Subject:
Pain Management in Mice

University Animal Care Committee Standard Operating Procedure		
Document No: 7.1	Subject: Pain Management in Mice	
Date Issued: February 16 th , 2012	Revision: 4	Page No: 4

Fish RE, Brown MJ, Danneman PJ, Karas AZ. Ed. (2008) Anesthesia and Analgesia in Laboratory Animals 2nd Ed.
Academic Press, New York
University of Michigan-Guidelines on Anesthesia and Analgesia in Mice –
