

Welcome to the IACUC Newsletter

Welcome to the fourth edition of the IACUC newsletter. The animal care and use program at UMKC aims to make improvements where needed. In an effort to improve communication between the IACUC and the animal user community, we are publishing a quarterly newsletter with the goal of informing the animal user community on upcoming events, animal facility news, protocol changes, educational opportunities, and any other relevant information related to animal research. We look forward to your feedback and any suggestions you may have on how to make the newsletter better serve you.

The responsibility of the IACUC is to oversee and routinely evaluate the Program. The animal use protocol is a detailed description of the proposed use of laboratory animals. Topics to be considered carefully by the researchers when preparing his/her protocol include, but not limited to:

-rationale and purpose of the proposed use of animals

-clear description of procedure involving the use of animals that is easily understood by all members of the committee

-availability or appropriateness of the use of less invasive procedures, other species, or non-animal alternatives.

Guide For the Care and Use of Laboratory Animals, 8th ed., 2011

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QUARTERLY TECH TALKS

Karen Kover, Ph.D.

Associate Professor of Pediatrics, University of Missouri-Kansas City School of Medicine



A special thank you to Dr. Kover for her presentation to the LARC and Sponsored Programs staff regarding her research on diabetes.

The LARC in conjunction with the Research Compliance office would like to continue these presentations on a quarterly basis to better inform the LARC staff in particular, but ORS as a whole, as to the importance of their involvement in the research being conducted at the LARC. The goal of these presentations is to generate greater ownership and understanding of the roles each person plays in the development, conduct and ultimate success of our researchers.

If you would be interested and willing to participate please contact Chris Winders at 816-235-5370 or windersc@umkc.edu.

New Resources:

Do you need assistance with a database search?

The UMKC library offers help—

[http://
libguides.library.umkc.
edu/alternatives.](http://libguides.library.umkc.edu/alternatives)

This guide will help researchers complete the literature search needed to fulfill the regulations of finding alternatives to using animals in scientific research and ensuring there is no duplication of research efforts

IACUC meetings are open access with advance notice. If you are interested in attending an IACUC meeting contact Lori Reiersen reiersonl@umkc.edu or Jodi Troup troupej@umkc.edu for time, date and location.

In Case You Missed It...

Animal Users Meetings were held June 7th and June 8th

A few key items discussed: upcoming AAALAC site visit, new Hazardous Agent Waste Disposal SOP, FY18 per diem increase, and new CITI training requirements. Please visit our webpage to view the full PowerPoint presentation:

[http://ors.umkc.edu/research-compliance-\(iacuc-ibc-irb-rsc\)/institutional-animal-care-use-committee-\(iacuc\)/animal-users-meeting](http://ors.umkc.edu/research-compliance-(iacuc-ibc-irb-rsc)/institutional-animal-care-use-committee-(iacuc)/animal-users-meeting)

AAALAC Site Visit : Wednesday, July 12th.

It is an all day event, which includes a site visit of the LARC, labs, lunch with the IACUC, review of IACUC documents, exit interview, and summary of findings.

Possible results of the site visit: continued Full Accreditation (UMKC has been a member of AAALAC since 1979 at a Full Accreditation status), Conditional Accreditation, Deferred Accreditation, Probation, Revoked Accreditation.

If you have any questions before or after the site visit, please feel free to contact us at UMKCIACUC@umkc.edu

Reminder: FY18 LARC Per diems will go in to effect *July 1, 2017*.

Hazardous Agent Waste Disposal: It is the responsibility of the Principle Investigator to make sure waste is disposed of properly. RED bags are to be used for biological agents, YELLOW bags are to be used for chemical agents. Be sure to label the bag(s).

Research Question and Answer

Postoperative Analgesia For Rats



The local anesthetic bupivacaine is extremely useful for perioperative analgesia, but its use in the postoperative period is typically limited by its short duration of action.

Extended-release liposomal bupivacaine is a slow-release bupivacaine formulation intended to provide extended postoperative analgesia after single-dose administration. Liposomal bupivacaine is commercially available for humans and reportedly attenuates hyperalgesia for 48-72 hours in humans.

The article noted below raises the question whether a modification is possible in order to attenuate postoperative mechanical and thermal hypersensitivity in a rat model of incisional pain. The (5) treatment groups consisted of:

Saline, 1mL/kg SC

Buprenorphine HCL, 0.05mg/kg SC

0.5 % bupivacaine, 2mg/kg SC

Liposomal bupivacaine, 1mg/kg SC

Liposomal bupivacaine, 6mg/kg SC

The data from the study (Adult male Sprague-Dawley rats from Charles River were used) suggests that a single local infiltration of liposomal bupivacaine at a dose of 1mg/kg SC effectively attenuates postoperative mechanical and thermal hypersensitivity for 4 days in a rat model of incisional pain.

Additional research is suggested as many factors are at play when determining an appropriate analgesic, such as dosage, size of surgical site, species, etc.

JAALAS, "Use of Liposomal Bupivacaine for Postoperative Analgesia in an Incisional Pain Model in Rats (*Rattus norvegicus*)

By Stacey C Kang, et. Al. Jan. 2017

Resources:

Journal of Visual Experimentation (JoVE) is a great resource available to University of Missouri-Kansas City users, providing useful videos on experimental techniques and information in areas of biology, medicine, immunology and infection, engineering, and bioengineering.

Check it out at : <http://www.jove.com/>

AALAS Webinars: <https://www.aalas.org/education/educational-resources/webinar-schedule>

- ◆ Contact us if you are interested in attending the next webinar viewing session at UMKC!

Additional CITI training modules:

Group 2: Researchers

- ◆ Federal Mandates
- ◆ The Veterinary Consultation
 - ◆ Getting Started
 - ◆ Alternatives
- ◆ Avoiding Unnecessary Duplication
 - ◆ USDA Pain/Distress Categories
 - ◆ Endpoint Criteria
 - ◆ And more!

Go to: <https://www.citiprogram.org/>

Contact Us!

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