

Monthly newsletter

February 2013



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Notices and news

AE Compliance tips:

An Unexpected Adverse Event is any event which occurred to your animal which you didn't expect to see on any given day. Examples include (but are not limited to) –lameness, abnormal hair loss, bleeding, vomiting, diarrhoea, haematuria, abnormal behaviour, sudden death. Follow your monitoring protocol and contact your PI. Contact the AWO for notification or advice. Completion of an Unexpected Adverse Event Form may be required.

New JoVE videos of interest:

The Journal of Visualized Experiments has some interesting and exciting articles this month.

For the most recent articles see:

<https://mail.google.com/mail/u/1/#inbox/13c6d49346515e08>

Researchers working with **rat behavioural testing** techniques may also be interested in:

http://www.jove.com/video/4451/hippocampal-insulin-microinjection-vivo-microdialysis-during-spatial?utm_medium=email&utm_source=newsletter&utm_campaign=weekly_20130117

Researchers working in **neuro-ophthalmology** may be interested in:

http://www.jove.com/video/4390/integrated-photoacoustic-ophthalmoscopy-spectral-domain-optical?utm_medium=email&utm_source=newsletter&utm_campaign=weekly_20130117

Researchers working with **zebrafish** may be particularly interested in:

http://www.jove.com/video/4300/metabolic-profile-analysis-of-zebrafish-embryos?utm_medium=email&utm_source=newsletter&utm_campaign=weekly_20130117



Drug Dose Rates and Dilutions in Rodents

When planning your research you may become confused with different drug dose rates recommended for use with rodents. You may wish to use the following table as a guide.

Drug Dose Rates and Dilutions Chart (Rats)								
Rats								
<u>Drug #1 (strength)</u>	<u>Volume</u>	<u>Drug #2 (strength)</u>	<u>Volume</u>	<u>WFI (ml)</u>	<u>total volume made up (ml)</u>	<u>dose rate (volume)</u>	<u>surgical anaesthesia time (minutes)</u>	<u>Sleep time (minutes)</u>
Ketamine/xylazine (75mg/kg and 10mg/kg)								
ketamine (100mg/ml)	0.75ml	xylazine (20mg/ml)	0.5ml	0.75ml	2.0ml	0.2ml/100g BWT	20-30	120-240
ketamine/medetomidine (75mg/kg and 0.5mg/kg)								
ketamine (100mg/ml)	0.75ml	Medetomidine (1mg/ml)	0.5ml	0.75ml	2.0ml	0.2ml/100g BWT	20-30	120-240
Ketamine top-up (7.5mg/kg)								
Ketamine (100mg/ml)	0.75ml			9.25ml	10ml	0.1ml/100g BWT		
Atipamazole reversal of medetomidine (1mg/kg SC)								
Atipamazole (5mg/ml)	0.2ml			0.8ml	1.0ml	0.1ml/100g BWT		

WFI = Sterile Water For Injection

BWT = body weight

Drug Dose Rates and Dilutions Chart (Mice)								
Mice								
<u>Drug #1 (strength)</u>	<u>Volume</u>	<u>Drug #2 (strength)</u>	<u>Volume</u>	<u>WFI (ml)</u>	<u>total volume made up (ml)</u>	<u>dose rate (volume)</u>	<u>surgical anaesthesia time (minutes)</u>	<u>Sleep time (minutes)</u>
Ketamine/xylazine (100mg/kg and 10mg/kg)								
ketamine (100mg/ml)	0.5ml	xylazine (20mg/ml)	0.25ml	4.25ml	5.0ml	0.1ml/10gBWT	20-30	60-120
ketamine/medetomidine (75mg/kg and 1mg/kg)								
ketamine (100mg/ml)	0.75ml	Medetomidine (1mg/ml)	1.0 ml	8.25ml	10.0ml	0.1ml/10g BWT	20-30	60-120
Ketamine top-up (7.5mg/kg)								
Ketamine (100mg/ml)	0.15ml			19.85ml	20ml	0.1ml/10g BWT		
Atipamazole reversal of medetomidine (1mg/kg SC)								
Atipamazole (5mg/ml)	0.2ml			9.8ml	10.0ml	0.1ml/10g BWT		

WFI = Sterile Water For Injection

BWT = body weight

Seminars

Virtual Animal Welfare Conference Reminder:

Complimentary 2 Day **Virtual Lab Animal Science Conference**: February 13 & 14, 2013

Register at www.bioconferencelive.com/register.php

The theme of this conference is ***Animal Well-being and Welfare Science***.

The aim is to bring together leading authorities from around the world to present on the science of animal wellbeing and welfare. This conference will stimulate discussion with a view to identifying future priorities for research, education, and practical/policy developments.

www.bioconferencelive.com/events.php?event_id=2&layout=speakers

Tips and Hints for your applications

Helpful hints to reduce AEC delays

Attach an animal monitoring chart for protocols where animals are undergoing invasive procedures or recovery surgery. The chart needs to be well thought out and relevant to the work being done. If you require any assistance formulating an appropriate chart, contact the animal welfare officer.

Supply pictures of equipment or invasive procedures to help the AEC understand what is proposed.

Animal Ethics Calendar

“Working with Research Animals Workshops” in 2013

All new researchers who have not already attended a course in **the ethics of animal based research** must attend a workshop, held here at Macquarie University.

1st Session date: Thursday, 21 February 2013

2nd Session date: Thursday, 25 July 2013

Visit [our website](#) to register.

Next Application submission deadline dates 2013

The next application deadline is Monday 25th February for the meeting on 14 March 2013.

Animal Ethics Committee Meeting dates 2013

For 2013 as follows or view the Animal Ethics [web site](#).

Meeting Dates and Closing Dates for 2013

Closing Dates for Submissions	Meeting Dates
<i>Friday 25 January 2013</i>	Thursday 14 February 2013
<i>Monday 25 February 2013</i>	Thursday 14 March 2013
<i>Monday 25 March 2013</i>	Thursday 18 April 2013
<i>Monday 29 April 2013</i>	Thursday 16 May 2013
<i>Monday 27 May 2013</i>	Thursday 13 June 2013
<i>Monday 24 June 2013</i>	Thursday 18 July 2013
<i>Monday 29 July 2013</i>	Thursday 15 August 2013
<i>Monday 26 August 2013</i>	Thursday 19 September 2013
<i>Monday 30 September 2013</i>	Thursday 17 October 2013
<i>Monday 18 November 2013</i>	Thursday 5 December 2013

Contributions

If you would like to contribute to the Animal Ethics monthly newsletter, kindly email that content for the next month's newsletter.

Should you have any queries regarding your research, please do not hesitate to contact me:

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Alternatively, for more information about AEC policies, procedures, forms and ethical clearance requirements, please go to our webpage at http://www.research.mq.edu.au/for/researchers/how_to_obtain_ethics_approval/animal_ethics