

The UNIVERSITY of WESTERN ONTARIO
ANIMAL CARE AND VETERINARY SERVICES

Mouse Injectable Anaesthesia

These are guidelines only:

How an anaesthetic acts in a given animal depends on a number of variables (age, sex, strain, body fat, other drugs.) Prior to use in an experimental setting the regime should be tried on a representative group of animals. Dosages may need to be adjusted.

Never dilute or mix anaesthetics in a syringe. The volume of drug in the hub can result in smaller animals being severely overdosed.

Veterinary consultations are available at no charge to the investigator. Contact the main office at 86768.

<u>Injectable</u>	<u>Dosage</u>	<u>Comments</u>
Ketamine AND	75-150 mg/kg IM or IP	Given approximately 5 minutes following one of the following
Diazepam OR	5 mg/kg IP	Diazepam does not provide analgesia. Suitable for non-painful procedures only.
Midazolam OR	5 mg/kg IP	As for Diazepam
Xylazine	5 mg/kg IP	Provides good analgesia but has a negative affect on heart. Use only in healthy animals.
Ketamine 100mg/ml – 2ml Xylazine 20 mg/ml – 0.25 ml Sterile Water – 2.5 ml	0.03 ml/10gm IP	Use sterile technique, mix in vacutainer, not in syringe , label. Can keep 2 weeks in fridge. Provides 20 to 30 minutes of anaesthesia.
Midazolam Followed in 10 minutes by Ketamine 100mg/ml – 1ml Xylazine 20 mg/ml – 0.25 ml Sterile Water – 1.75 ml	1mg/kg IP 0.03 ml/10gm	As above but provides for 45 to 60 minutes of anaesthesia.
Ketamine with Domitor (medetomidine)	100 mg/kg 1.0 mg/kg	Light surgical plane
<p>A major advantage of this mixture is that the <u>medetomidine can be reversed using Antisedan (antipamazole.)</u> This means you get to go home sooner. The volume of Antisedan is the same as the volume of Domitor.</p>		
Pentobarbital AND	40 mg/kg	Then in 5-10 minutes give
Diazepam OR	5 mg/kg IP	Diazepam does not provide analgesia. Suitable for procedures that produce minor pain.
Midazolam OR	5 mg/kg IP	As for Diazepam
Xylazine	5 mg/kg IP	Provides good analgesia but has a negative affect on heart. Use only in healthy animals.