

SOP No: AHT 56

SUBJECT: Retro-orbital injection in mice

POLICY: This procedure must be performed by an experienced operator.
Mice must be anaesthetised.

PRECAUTIONS: Gloves, mask, long-sleeve gown, closed in shoes

EQUIPMENT syringe
27-30g needle
anaesthetic

PROCEDURE:

1. Restrain animal and anaesthetise.
2. Hold mouse firmly by scruff of the neck so that the eye protrudes slightly.
3. Insert the needle, bevel upwards, under the eye at the medial canthus
4. Hold the needle at 45° to the nose and inject into the peri-orbital venous sinus

RECOMMENDATIONS:

1. The volume injected should not exceed 200µL
2. Monitor mice one hour after injection and then 4 hourly for 12h and again the following day.

DATE ISSUED: 22.10.2008

REVISED:

REFERENCES

- 1 Nanni, C A et al (2007) Retro-orbital injection is an effective route for radiopharmaceutical administration in mice during small-animal PET studies. Nuclear Med Comms. 28(7):547-553
2. Price JE, Barth RF, Johnson CW and Staubus AE (1984) Injection of cells and monoclonal antibodies into mice: comparison of tail vein and retro-orbital routes Proc Soc Exp Biol Med, Vol 177, 347-353,