

SOP No: AHT 29

SUBJECT: Sub-Mandibular Puncture in the Mouse

POLICY: Operator must be experienced and competent at this technique

PRECAUTIONS: Gloves, eye protection, mask, long-sleeved gown, closed-in-shoes

EQUIPMENT: 70% ethanol
Lancet
No 11 Scalpel blade
18G Needle
Collection tube
Swabs

PROCEDURE:

1. Restrain the mouse by firmly grasping the fur at the scruff of the neck or sedate with sedative of choice (specify dose rate, route of injection and volume.)
2. Locate the site at the back of the jaw
3. Swab the site with alcohol
4. Gently “insert” the blade into the site and direct the flow of blood into the collection tube
5. Apply pressure for at least 60 secs to encourage clotting
6. Expect to recover around 0.5% of BW as a single sample (every 14 days) or 0.05% for more frequent (daily) collections by this method
7. A video of this technique is available at [1.]

RECOMMENDATIONS:

If serial bleeds are required, ensure that the total quantities of blood harvested per fortnight do not exceed 10% of the blood volume.

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REVISED:

REFERENCES

1. http://www.medipoint.com/html/directions_for_use1.html
2. Golde W T, Gollobin P., Rodriguez LL. (2005) A rapid, simple, and humane method for submandibular bleeding of mice using a lancet. *Lab Animal*, 34(9), 39-43.
3. Hoff, J. (2000) Methods of blood collection in the mouse.) *Lab Animal*. 29(10), 47-53.