

- SOP No:** AHT 55b
- SUBJECT:** Intravenous (jugular) placement in the cat using a modified Seldinger technique
- REASON FOR USE:** This technique allows the operator to serial sample blood from the cat while minimising the stress associated with repeated restraint and needle insertion.
- POLICY:** This procedure may only be performed by operators skilled in the technique.
Surgery must be performed under aseptic conditions
- PRECAUTIONS:** Surgical gloves, surgical cap and mask, surgical gown, closed-in shoes.
All instruments and materials (including catheter) must be sterilised before use.
Surgery must be performed under aseptic conditions.
- EQUIPMENT:** Intravenous jugular catheter (with Seldinger kit: introducing catheter, guide wire and dilator)
Sterile surgical kit (including drapes, No 15 scalpel blade)
2 Tuta minimum volume extension sets (25cm) and attached 10ml syringe with heparinised-saline solution (1U/ml)
Luer lock injection port
Suture material; and 22g needle
Short acting anesthetic
Injectable cephalixin solution
Elastoplast, vet wrap and gauze bandages
- PROCEDURE:**
1. Anaesthetise cat (specify dose, route and volume)
 2. Clip the area over the jugular vein
 3. Aseptically prepare the area around the right or left jugular vein.
 4. Make a small incision of approximately 1 cm in length in the skin.
 5. Localise the jugular vein and a 22 gauge IV peripheral catheter is inserted into the vein towards the heart.
 6. Pass the flexible guide wire through the IV catheter.
 7. Remove the catheter over the guide wire.
 8. Pass a small dilator over the guide wire and then remove.
 9. Use the guide wire to direct the central venous catheter into the vessel. Once the catheter is in place, the guide wire is removed.
 10. Leave the central venous catheter in place and secure with 2 skin sutures.

- 11. Apply a light bandage around the neck, flush the catheter twice daily with 3mL of 0.9% saline solution and lock with 1mL of heparinised saline solution at a concentration of 10 IU/mL, until removal.**

Change the bandages daily and inspect the catheter site.

RECOMMENDATIONS:

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CHAIR OF AEC

REFERENCES

1. Martin GJW, Rand JS (1999) Evaluation of polyurethane jugular catheter in cats placed using a modified Seldinger technique. *Aust Vet Journal*, 77:13-17.