**Intravenous Regional Anaesthesia (IVRA)**

**Intra-procedure**

**Method**

* The cow is restrained using a halter firmly secured to a stanchion.
* The area is cleaned with alcohol swabs in order to minimize the risk of infection during the procedure.
* The tourniquet is applied carefully yet firmly above the hock joint to allow for constriction of the superficial blood vessels in the distal limb. Upon completion of the tourniquet, the time must be recorded.

(**N.B.** The tourniquet can be left on the cow’s limb safely for **90 minutes at most**. However, for safety, our maximum time of use was set at **60 minutes**.)

* Palpate area in order to confirm the location of the desired blood vessel for use (dorsal common digital vein or cranial branch of the lateral saphenous vein).
* A 19-gauge, 1” needle or a 22-gauge butterfly catheter is inserted in the chosen blood vessel.
  + If the needle is used, once it is directly positioned in the blood vessel, blood will be seen in the hub of the needle. then, carefully attach syringe and administer drug.
  + If catheter is used, ensure that there is blood entering the catheter tube to confirm its position in the blood vessel. Then, attach syringe with drug and carefully inject drug.

Remove the needle or catheter and gently massage area to prevent haematoma formation.