

Locating Injection Sites: Cattle and Sheep



Disclaimer

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Year Group: BVSc1 +

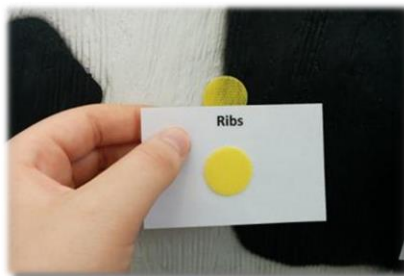
Clinical Skills: Matching Injection Sites and Routes of Administration

The task is to match all the injection card labels with the velcro dots on the model i.e.

- Site location
- 'Route' of administration e.g.
 - Subcutaneous (SC)
 - Intramuscular (IM)
 - Intravenous (IV)



For each injection site, there is an injection site card (label) and a route of administration card (label).



Match the injection site label to the correct locations on the calf.



Match the correct route of administration (SC, IM, IV or nerve block).

Resetting the station ready for the next student:

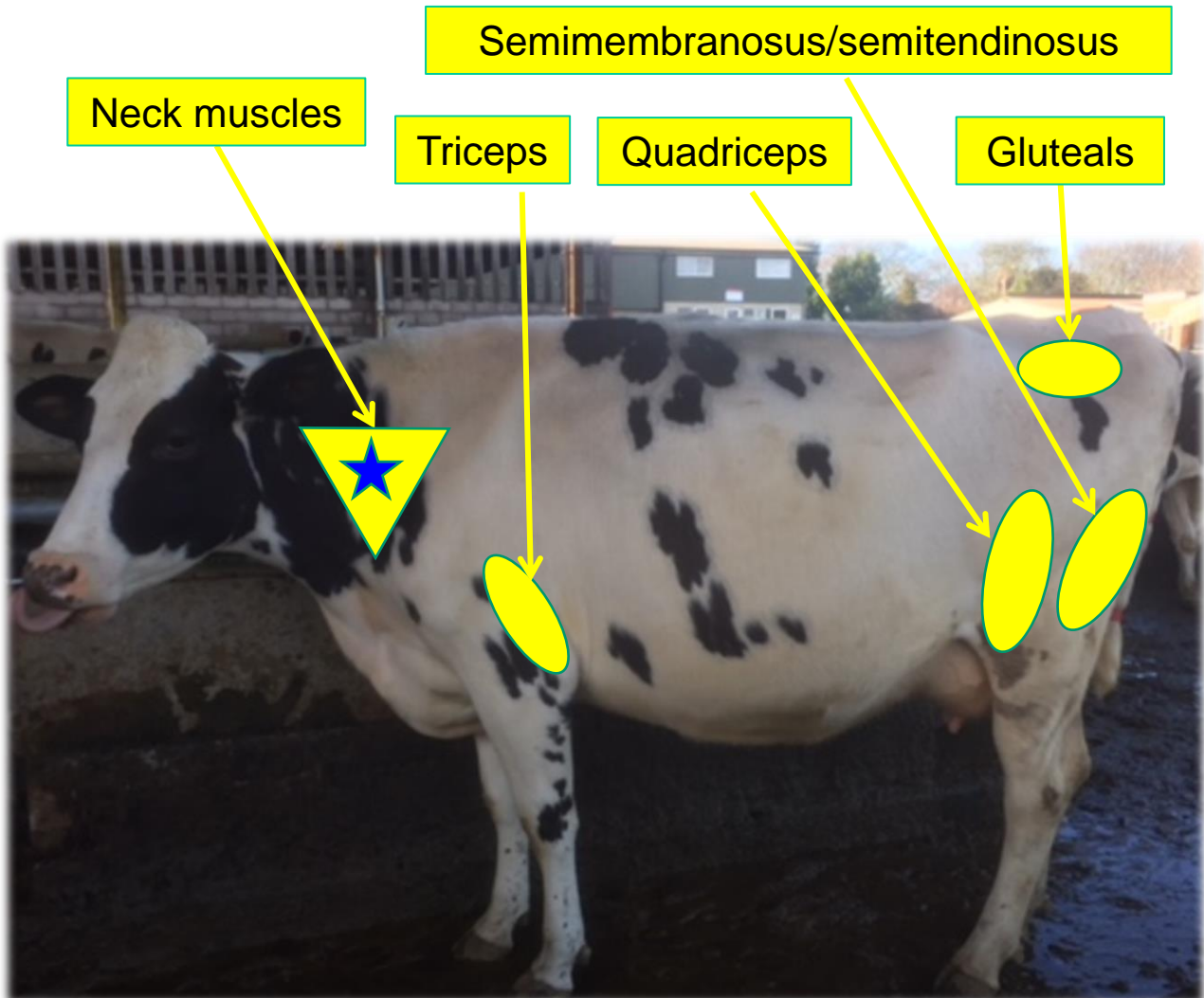
- Remove all the labels
- Separate the injection site label from the administration route label
- Return the labels to the box/container

The following pages in the booklet provide labelled pictures of injection sites for the cow, calf and sheep. There is also information about the techniques including illustrations, descriptions and tips.

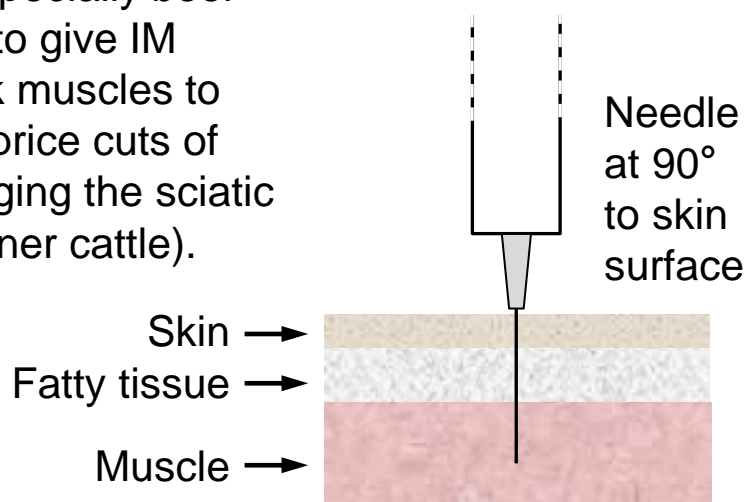
Anyone working in the Clinical Skills Lab must read the 'CSL_I01 Induction' and agree to abide by the 'CSL_I00 House Rules' & 'CSL_I02 Lab Area Rules'
Please inform a member of staff if equipment is damaged or about to run out.

Intramuscular (IM) injection sites in cattle

Arrows point to approximate locations of the injection sites

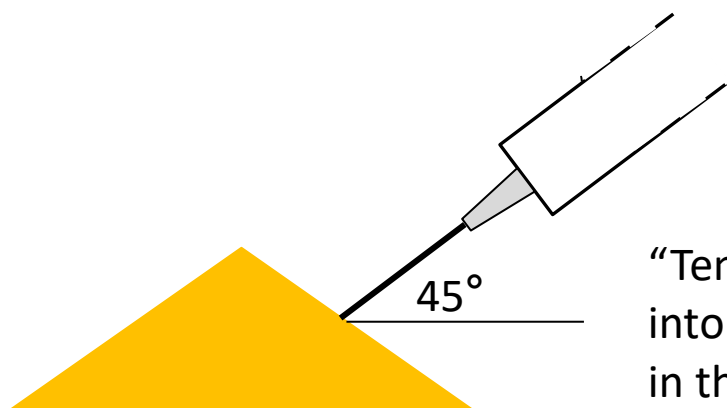
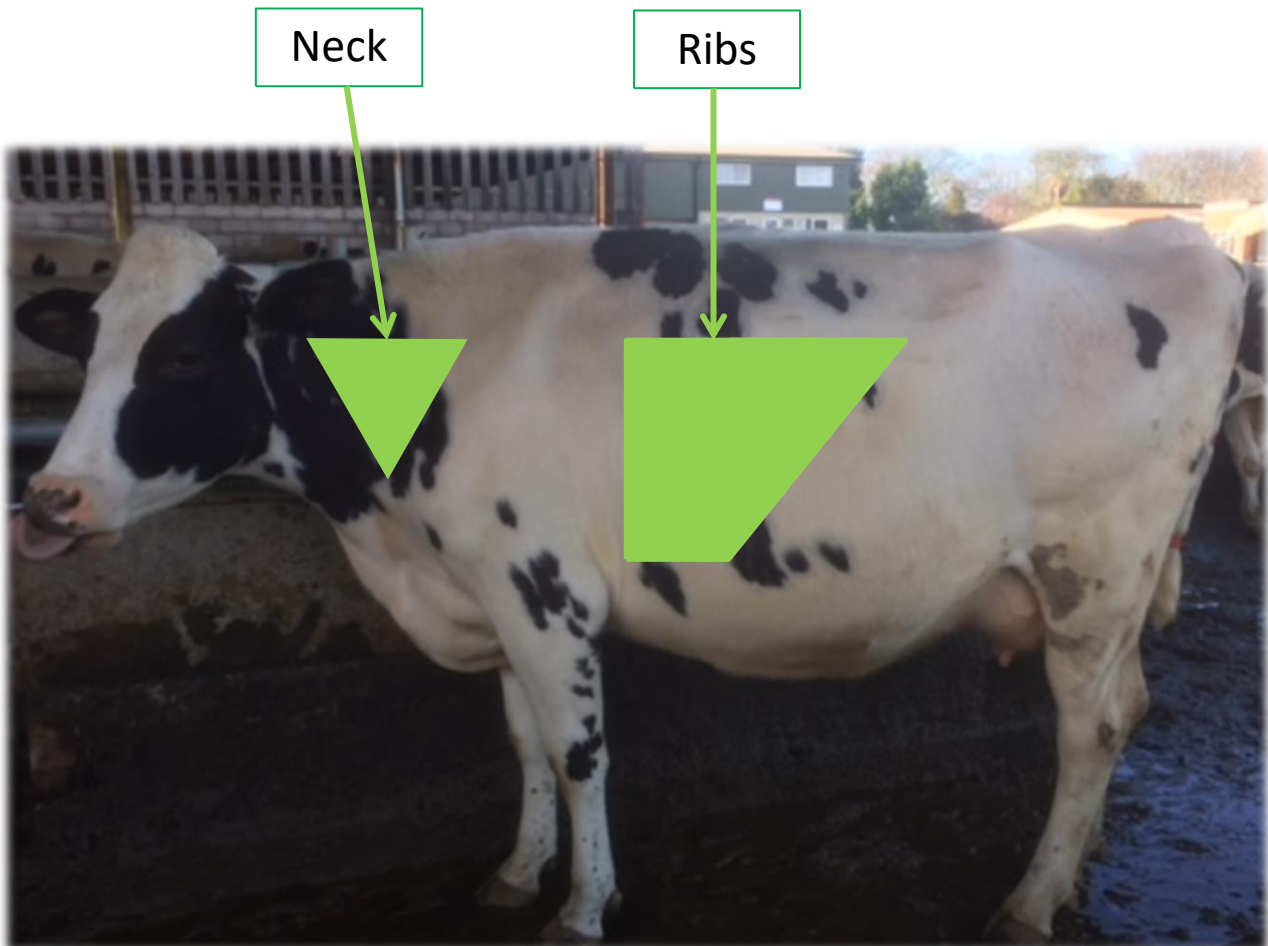


★ NB: For all cattle, and especially beef cattle, the preferred site to give IM injections is into the neck muscles to avoid damage to higher price cuts of meat or the risk of damaging the sciatic nerve (particularly in thinner cattle).



Subcutaneous (SC) injection sites in cattle

Arrows point to approximate locations of the injection sites



“Tent” the skin and inject into the base of the “tent” in the neck or rib regions at an approximately 45° angle

Intravenous (IV) injection site in cattle

Arrow points to approximate location of groove

Jugular groove

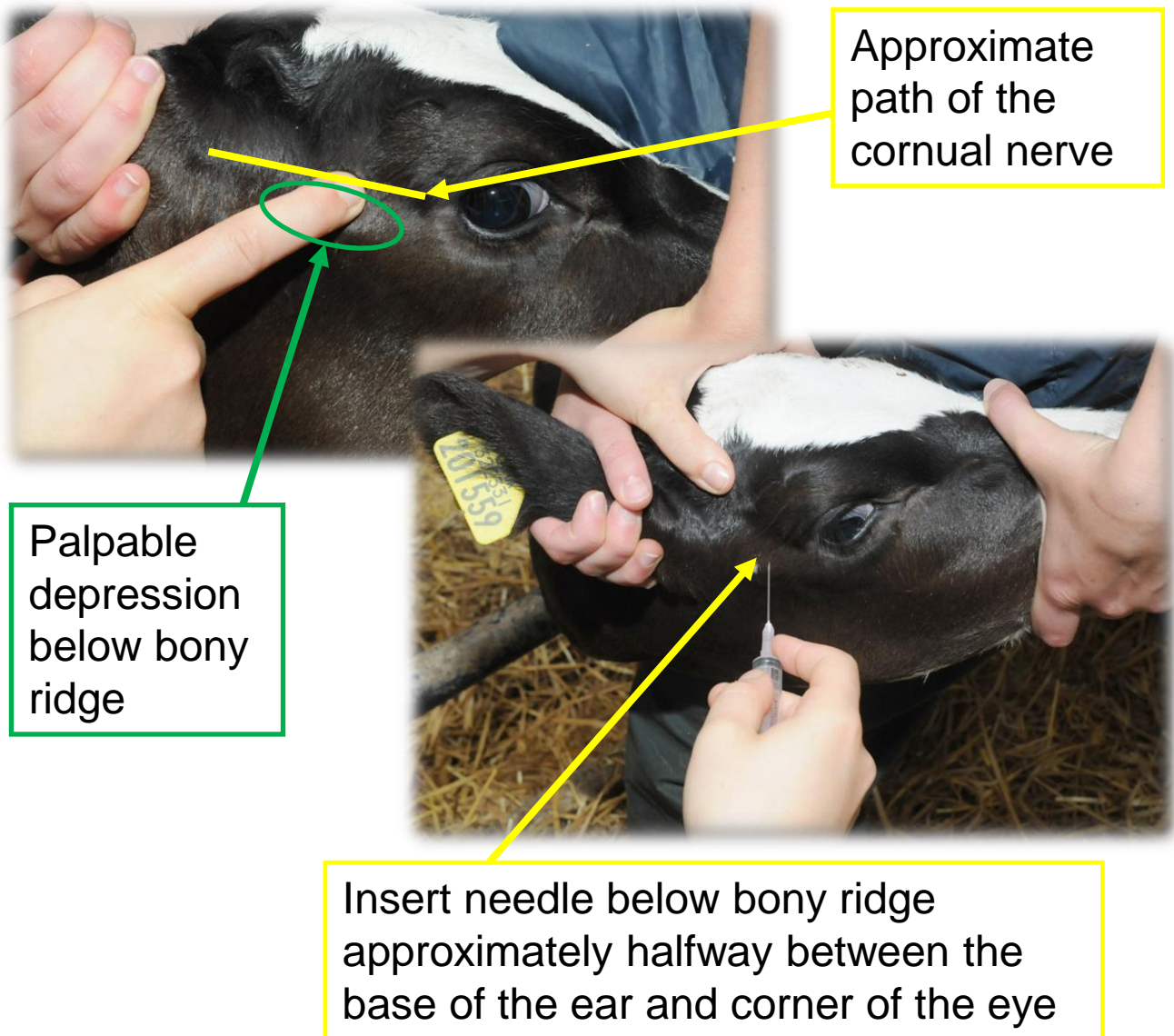


Raise the vein by pressing in the jugular groove with your thumb. Insert the needle at 30-45° to the skin and wait for drips of blood from the needle hub before attaching the syringe. This confirms the needle is in the jugular vein. If there is a fast stream of bright red blood the needle may be in the carotid artery. Remove the needle immediately and apply pressure.



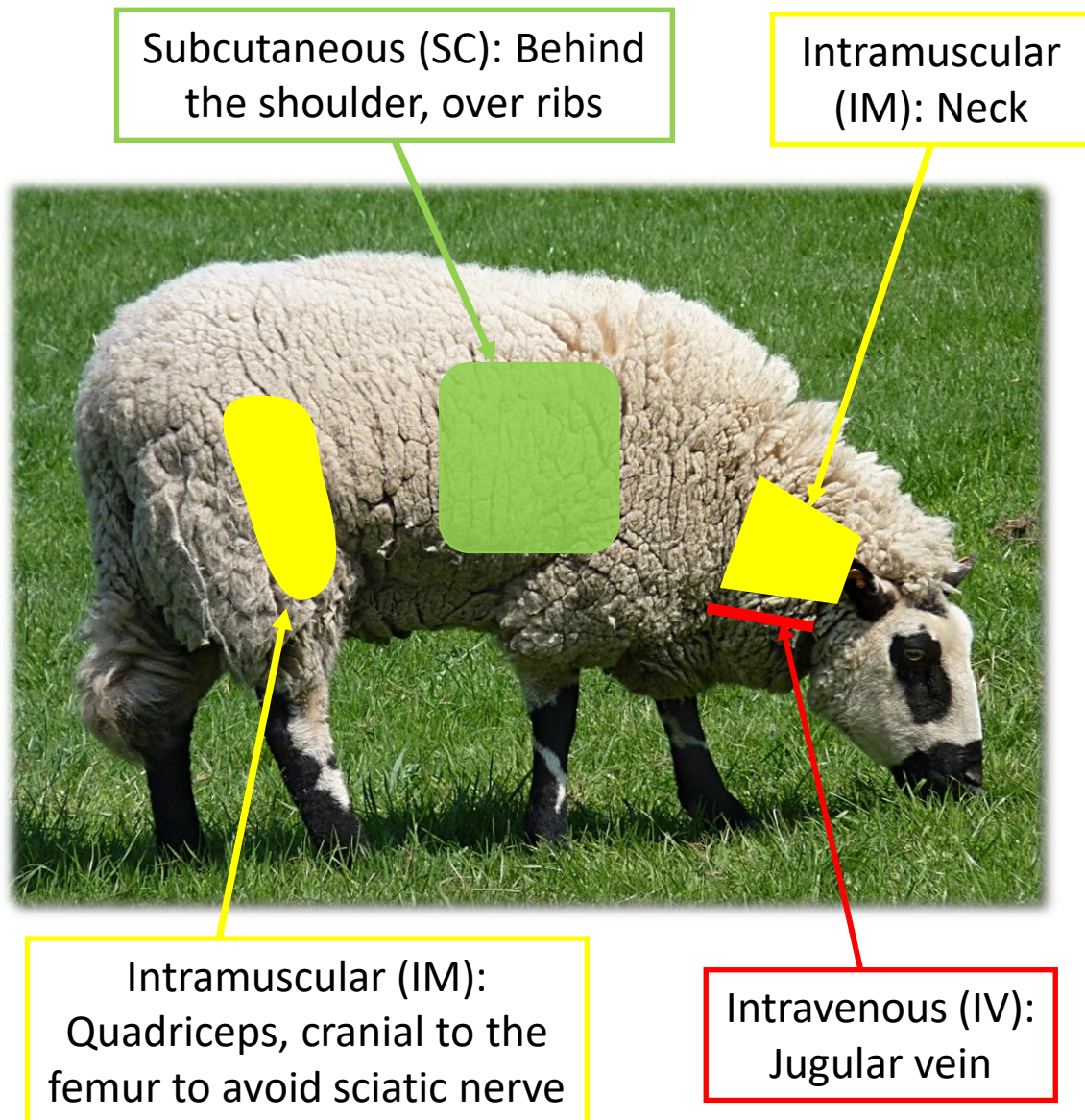
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Cornual nerve block in the calf



- The corneal nerve runs between the lateral canthus of the eye and the ear base, under the lateral ridge of the frontal bone. The nerve supplies the horn corium and the skin around the base of the horn.
- Draw back before injecting local anaesthetic to check the needle is not in a blood vessel.

Injection sites in the sheep



- Techniques for IM, SC and IV injections are similar to cattle - see previous pages of this booklet for details.