NERVE BLOCK OF THE CORNUAL BRANCH OF THE LACRIMAL NERVE



**Uses:** Used for disbudding or dehorning of cattle.

**Materials Used:** 20 gauge 1.5 inch needle, 20mL

**Procedure:**

* Palpate the **frontal ridge** of the animal (**palpate between the lateral canthus of the eye and the base of the horn)**
* Insert a needle into the upper third of the frontal ridge (area demonstrated in the picture), immediately behind the ridge and about 2.5 cm below the base of the horn, to a depth of 0. 5 to 0.75 inch deep)



* Draw back on the plunger to check that the needle is not placed intravascularly.
* Inject **5 to10 ml of 2%** [**lidocaine**](http://wildpro.twycrosszoo.org/S/00Chem/ChComplex/Lignocaine.htm) **hydrochloride** (the amount required depends on the size of the animal)
* After approximately 10 minutes use a needle and lightly stick the skin around the base of the horn to test cow reaction.
	+ **If the block worked:** cow should not react to the stick of the needle.
	+ **If the block did not work**: Cow will react to the stick of the needle. In this case the block can be repeated **(as long as this does not cross the toxic dose of lidocaine calculated!)**

**Something to Note:**

In individuals with well-developed horns an additional injection may be required, caudal to the horn or as an elliptical ring block around the horn base.