*Case 1 castration*

*\*4 month old goat kid living on pasture*

**Preoperative measures**

**Indications for castration**

* Recommended to alter sexual or aggressive behavior of the animal
* Considered when sexes are mixed in the pens to prevent any unwanted breeding
* If they are to be kept for meat for longer than 4 months- to promote weight gain
* Kept as pets
* Used as pack animals or harness goats
* Animal is easier to restrain and handle in the presence of females

**History**

* No history was obtained for this kid at the time of the procedure, but it is very important in routine operations that this is obtained. Some of the relevant information that is included in this is:
	+ Animal’s age, tag number and parity
	+ Present or past illnesses
	+ Vaccination history (if up to date or not) \*vaccination against tetanus necessary
	+ Current diet plan
	+ Any current or previous medication used
	+ Prior medical and surgical procedures underwent
	+ Any recent goat deaths on the farming operation

**Signalment**

* ID#: 82
* Nickname: -
* Age: 4 month old kid
* Breed: Saanen
* BCS: 3/5
* Weight: 62 pounds (28kg)

**Physical exam**

* A physical exam is always preceded by a distance exam. The environment is observed and assessed for factors such as cleanliness, proper and adequate bedding, airflow and presence of other pen mates. The animal’s appearance is then assessed by its ability to stand, gait and posture, any visible abnormalities (congenital eg. Cleft palate), signs of fecal staining and the respiration rate. After this, a 5-station physical exam is done, and all parameters are observed to check if they are within the normal ranges and systemically healthy. Ensure that both testicles have descended.

**Owner compliance**

* Inform the owner that a variable amount of time (3 to 6 weeks) is required for complete regression/atrophy of the testicle

**Equipment**

* Rectal thermometer
* Stethoscope
* Standing chute
* Knee bracket
* Sterile gloves
* Alcohol swabs
* Emasculatome (Burdizzo)

**Restraint and safety**

* Goat should remain in a standing chute with adequate tail restraint and application of a knee backet.
* Wash and clean your hands and surgical equipment using an antiseptic solution eg. Hibitane®.

**Calculations of drugs used**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Drug | Dose rate | Conc. | Volume to be given | Indications  | contraindications | Withdrawal time  |
| Tetanus antitoxin |  |  | 1ml | Tetanus prophylaxis |  |  |
| Penstrep 400 | 20,000 IU/kg | 200,000IU/ml | Dose x weight/concentration=2.8ml |  |  |  |
| Lidocaine 2% | 5mg/kg | 20mg/ml | Dose x weight/concentration=5mg/kg x 28kg / 20mg/ml= 7ml | Local anesthetic | Used with caution in patients with CHF, liver failure, shock, severe respiratory disease. |  |
| Butorphanol | 0.1mg/kg | 10mg/ml | Dose x weight/concentration=0.1mg/kg x 28kg / 10mg/ml=0.28ml 🡪 3ml | Analgesia | Should not be used if animal has a known hypersensitivity to the drug | 2 days |

\*For lidocaine- Inject 3ml in the scrotal sac and massage. The 2 spermatic cord sites are also injected (2ml each) to distribute the local anesthetic efficiently.