

Drug name/Brand	Active ingredients	Dosage	Application	Uses	Complications/Precautions
Bactrovet silver AM	Silver Sulfadiazine 0.1g%, Aluminum 5.0g%, Dimethyl Dichlorovynil Phosphate 1.5g%, Cypermethrin 0.4g%, Excipient 100g	Sprayed around crushed sites of scrotum.	Shake container several times, place 10 cm from area to be treated, uniformly spraying product into the wound. It is applied around wound forming halo of 5 cm.	Preventative and curative treatment of all types of maggots in wounds in bovine, equine, ovine, caprine, porcine and canine. It has larvicidal, antimicrobial, hemostatic and healing properties. It can be used for any ages and prevents myiasis or bleeding.	Could cause poisoning, this is a toxic product, do not smoke, drink or eat during usage. Avoid contact with eyes or wash thoroughly.
Xylazine	Xylazine hydrochloride	Dosage=0.05mg/kg	IM	Sedative used in sheep, goats, primates, cats and horses.	Goats are more sensitive to the effects of xylazine than other ruminants which are also sensitive.
Lidocaine	Lidocaine hydrochloride	10mg/kg	Intratesticular 4ml(on each side), interspermatoc(2ml x 2), Around testis inject at level of vestigial nipple(1ml x 2).	Local anesthetic used to reduce pain or discomfort by numbing a particular region of the body for surgical procedures.	This drug is toxic and has low therapeutic value. The toxic dose 10mg/kg is halved then given.
Banamine	Flunixin meglumine	1.1mg/kg	IM	It is a non-steroidal anti-inflammatory drug and cyclooxygenase inhibitor hence it relieves pain. It is also an analgesic and	Side effects include GI ulcers, rare side effects include kidney damage, bleeding disorders and allergies. 4-day pre slaughter withdrawal time. 36 hours withdrawal

				antipyretic. It inhibits the production of prostaglandin that stimulate an inflammatory response.	time for milk consumption.
Tolazoline	Tolazoline hydrochloride	0.1mg/kg	IV or IM	Non-selective alpha 2 adrenergic antagonists that is used as a reversal agent for xylazine. It is a vasodilator used to reverse vasoconstriction.	Tolazoline use in cattle, sheep, and goats is extra-label. The Food Animal Residue Avoidance Databank (FARAD) recommends 8 days for meat withdrawal when tolazoline is administered IV at doses between 2 – 4 mg/kg in cattle and 48hrs for milk withdrawal in dairy cattle.
Penstrep	Procaine Penicillin and Dihydrostreptomycin	20,000units/kg	IM	The active ingredients produce a synergistic effect. This product has bactericidal action against gram positive and negative bacteria. It is used to prevent or treat infections of the urinary , respiratory or gastrointestinal tracts, mastitis and arthritis.	This drug should not be given to animals with renal dysfunction. Abortions could be caused in sows, nephrotoxicity, ototoxicity, and neurotoxicity can occur. Withdrawal times for kidney is 45 days, for meat is 21 days and for milk is 3 days.

Table showing the drugs used to perform closed castration on a goat.