

Drug Chart for Hoof Trimming

Drug	Concentration (mg/ml)	Dose (mg/kg)	Example Calculation (Cow is 500 kg)	Route of Administration	Indication	Contraindications	Withdrawal Time
Lidocaine hydrochloride (Local anesthetic)	20mg/ ml (2%)	2mg/kg	(2mg/kg x 500kg) / 20mg/ml = 50ml 50ml/4 = 12.5ml	IV, SC, Epidural, Topical	<ul style="list-style-type: none"> • 100% nerve block. • Short acting local anesthetic. • Effective for 45 to 90 minutes 	<ul style="list-style-type: none"> • Use with caution in animals that are pregnant and those with cardiac or hepatic impairment 	Meat - 28 days Milk - 15 days
Xylazine (Alpha 2 agonist)	20mg/ml (2%)	0.2mg/kg	(0.2mg/kg x 500kg) / 20mg/ml = 5ml	IV, IM	<ul style="list-style-type: none"> • Preanesthetic • Analgesia for a few hours 	<ul style="list-style-type: none"> • Cardiac or respiratory disease • Hypotensive animals • Maintain in sternal recumbency to avoid bloat 	Meat - 14 d Milk - 48hr
Flunixin meglumine (NSAID)	50mg/ml	2.2mg/kg	(2.2mg/kg x 500kg) / 50mg/ml = 22ml	IV, IM, Orally	<ul style="list-style-type: none"> • Treatment of pain and inflammation 	<ul style="list-style-type: none"> • Not for use in breeding bulls as effects have not been studied. • Use with caution 	Meat - 5-14 d Milk - 12-48 hrs

						<p>in animals with cardiac or hepatic impairment.</p> <ul style="list-style-type: none"> Do not use in cow if parturition is expected within 48 hours 	
Procaine Penicillin G (Antibiotic)	200,000IU	20,000IU	$(2\text{mg/kg} \times 500\text{kg}) / 20 = 50\text{ml}$	IM	<ul style="list-style-type: none"> Prevents infection from Gram negative bacteria such as <i>Streptococci</i>, <i>Pasteurella multocida</i> and <i>Mannheimia haemolytica</i> 	<ul style="list-style-type: none"> Avoid injection volumes greater than 30 mL per site. 	30 d

Volume (mL) = $(\text{dose (mg/kg)} \times \text{weight (kg)}) \div \text{concentration (mg/mL)}$

References

- 1) Ezproxy Login [Internet]. Wwv-vetstream-com.ezproxy.sastudents.uwi.tt. 2020 [cited 2 November 2020]. Available from: <https://www-vetstream-com.ezproxy.sastudents.uwi.tt/treat/bovis/generics/lidocaine>
- 2) Penicillin Injectable for Animal Use [Internet]. Drugs.com. [cited 2020Nov2]. Available from: <https://www.drugs.com/vet/penicillin-injectable.html>