

## 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	$(2\text{mg/kg} \times 500\text{kg}) / 20\text{mg/ml} = 50\text{ml}$ $50\text{ml}/4 = 12.5\text{ml}$	IV, SC, Epidural, Topical	<ul style="list-style-type: none"> <li>• 100% nerve block.</li> <li>• Short acting local anesthetic.</li> <li>• Effective for 45 to 90 minutes</li> </ul>	<ul style="list-style-type: none"> <li>• Use with caution in animals that are pregnant and those with cardiac or hepatic impairment</li> </ul>	Meat - 28 days Milk - 15 days
Flunixin meglumine (NSAID)	50mg/ml	2.2mg/kg	$(2.2\text{mg/kg} \times 500\text{kg}) / 50\text{mg/ml} = 22\text{ml}$	IV, IM, Orally	<ul style="list-style-type: none"> <li>• Treatment of pain and inflammation</li> </ul>	<ul style="list-style-type: none"> <li>• Not for use in breeding bulls as effects have not been studied.</li> <li>• Use with caution in animals with cardiac or hepatic impairment.</li> <li>• Do not use in cow if parturition is expected within 48 hours</li> </ul>	Meat - 5-14 d Milk - 12-48 hrs

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"> <li>Prevents infection from Gram negative bacteria such as <i>Streptococci</i>, <i>Pasteurella multocida</i> and <i>Mannheimia haemolytica</i></li> </ul>	<ul style="list-style-type: none"> <li>Avoid injection volumes greater than 30 mL per site.</li> </ul>	30 d
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**Volume (mL) = (dose (mg/kg) × weight (kg) ) ÷ concentration (mg/mL)**

## **References**

- 1) Ezproxy Login [Internet]. Www-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) Greenough PR, By, Greenough PR, Last full review/revision Sep 2015 | Content last modified Sep 2015. Distal Digital Anesthesia for Diagnostic and Surgical Procedures in Cattle - Musculoskeletal System [Internet]. Veterinary Manual. MSD Veterinary Manual; [cited 2020Nov2]. Available from: <https://www.msdevetmanual.com/musculoskeletal-system/lameness-in-cattle/distal-digital-anesthesia-for-diagnostic-and-surgical-procedures-in-cattle>
- 3) Penicillin Injectable for Animal Use [Internet]. Drugs.com. [cited 2020Nov2]. Available from: <https://www.drugs.com/vet/penicillin-injectable.html>