

EMERGENCY DRUGS

Drug	Concentration (mg/ml)	Dose/route (mg/kg)	Withdrawal time (Bovine)	Effect/Indication	Contraindication	Side effects
Tolazoline	100mg/ml	0.05mg/kg Slow IV	Milk: none Meat: 30 days	Reverse effects of xylazine (sedation and analgesia)	Animals with circulatory and cardiac issues. It stings on stress, debilitation, cardiac disease, sympathetic blockage, hypovolemia or shock.	Tachycardia, peripheral vasodilation, bright pink to dark red mucous membranes, hyperalgesia of lips (licking/flipping of lips seen)
Atropine	0.54mg/ml	0.04mg/kg ¼ IV and the rest IM/SC	Milk: 3 days Meat: 14days	-reduce secretions of resp tract -reverse sinus bradycardia (<30bpm), sinoatrial arrest, incomplete AV block	Narrow angle glaucoma, tachycardias, ileus, urinary obstruction	dry mouth (xerostomia), dysphagia, constipation, vomiting, and thirst. urinary retention or hesitancy stimulation, drowsiness, ataxia, seizures, respiratory depression, etc blurred vision, pupil dilation, cycloplegia, sinus tachycardia (at higher doses), bradycardia (initially or at very low doses), hypertension, hypotension, arrhythmias (ectopic complexes), and circulatory failure.
Epinephrine	1mg/ml	0.02mg/kg IV ¼-1/2 of IM dose if necessary	None	anaphylactic shock -cardiac resuscitation	Narrow angle glaucoma, tachycardias, ileus, urinary obstruction Narrow-angle glaucoma Hypersensitivity to epinephrine Shock due to non-anaphylactoid causes General anesthesia with halogenated hydrocarbons During labor (may delay the second stage) Cardiac dilatation or coronary insufficiency (cases where vasopressor drugs are contraindicated (e.g., thyrotoxicosis, diabetes, hypertension, toxemia of Should not be used in areas with end artery blood flow (e.g. ears, digits, tail)	Anxiety, tremor, excitability, vomiting, hypertension (overdosage), arrhythmias, hyperuricemia, & lactic acidosis (prolonged use or overdosage)
To calculate volume to administer = (WEIGHT X DOSE) / CONCENTRATION						

ANESTHETIC DRUGS

Drug	Concentration (mg/ml)	Dose (mg/kg)	Withdrawal time (Bovine)	Effect/Indications
Flunixin	50mg/ml	1.1mg/kg	Milk :72 hrs Meat:4 days	NSAID- Analgesia
Xylazine 2%	20mg/ml	0.025mg/kg	Milk:14 days Meat: 48hrs	Sedation
Lidocaine 2%	20mg/ml	0.2mg/kg Toxic dose: 10mg/kg	Milk: 24 hrs Meat : 1 day	Local anaesthetic

To calculate volume to administer = (WEIGHT X DOSE) / CONCENTRATION

ANTIBIOTIC DRUGS

Drug	Concentration (IU)	Dose (IU)	Withdrawal time (Bovine)	Effects/Indications
PenStrep	200 000IU	20 000IU	Milk: 60hrs Meat: 23days	Treatment of infections caused by or associated with organisms sensitive to Pencillin or Streptomycin Eg., Erysipelothrix rhusiopathiae, Arcanobacterium pyogenes Streptococcus spp and Listeria spp, Mannheimia haemolytica, Staphylococcus spp, Pasteurella multocida, Klebsiella pneumonia, Salmonella spp

To calculate volume to administer = (WEIGHT X DOSE) / CONCENTRATION