Drugs for Peppy

Drugs	Dose/ Concentration	Calculations	Volume per site	Withdrawal Time	Route &Comments
Anaesthetic/ Sedative		$\frac{Weight\ x\ Dose}{Concentration}$			
Lidocaine	Toxic dose: 2% of 10 mg/kg Recommended dose for cow: 2% of 5 mg/kg	**Toxic Dose** $\frac{90\ x\ 10}{20}$ = 45 ml **Maximum Vol can be administered**: $\frac{90\ x\ 5}{20}$ = 22.5ml	5 ml .	4 days for meat 3 days for milk	IM/SC **Note**: it was decided to administer 5 ml per site, which equals 10 ml administered in total to create a safe margin to re- administer more Lidocaine, if it was deduced that the first block was not successful
Xylazine	2% of 0.025 mg/kg	$\frac{90\ x\ 0.025}{20}$ = 0.1 ml	0.1 ml	4 days for meat 1 days for milk	IM
Ketamine	10 % of 0.5 mg/ kg	$\frac{90\ x\ 0.5}{100}$ = 0.45ml	0.45 ml	3 days for meat 3 day for milk	IM
NSAID					
Flunixin meglumine	5% of 1.1 mg/kg	$\frac{90\ x\ 1.1}{50}$ = 2 ml	2ml	4 days for meat 1.5 days for milk	IV, must be given first due to its technicality.
Antibiotic					
Penicillin Streptomycin	200,000 IU/ml of 10,000 IU	$\frac{10{,}000\ x\ 90}{200{,}000}$ = 4.5 ml	4.5ml	30 days for meat 10 days for milk	IM

Reversal Drugs

Drugs	Dose/Concentration	Calculations	Volume	Route & Comments
Atropine	0.54 mg/ml of 0.04 mg/kg	$\frac{0.04\ x\ 90}{0.54}$ = 6.7 ml	6.7 ml	IV/IM For Bradycardia
Epinephrine	1 % of 0.02 mg/kg	$\frac{0.02\ x\ 90}{1}$ = 1.8 ml	1.8 ml	IM For anaphylactic shock
Tolazoline	10 % of Recommended 2-4 times xylazine dose (0.05 mg/kg – 0.1 mg/kg)	$\frac{0.05\times90}{100}$ = 0.045 ml $\frac{0.1\times90}{100}$ = 0.09 ml	0.045 ml Lower limit 0.09 ml Upper limit	IV slowly To reverse xylazine Note: Start with the lower limit and only if signs of xylazine toxicity (bradycardia, hypotension) are still severe after some time add 0.045 ml or less to reach the upper limit.