	DRUG	CONCENTRATION	DOSE RATE	CALCULATION	WITHDRAWAL TIMES	INDICATIONS FOR USE
	Penstrep (antibiotic)	200,000IU/ml	20,000IU/kg	V= (375kg x 20,000) / 200,000= 37.5mls IM	30 days	Antibiotic 5mls Q3d x2
SEDATION	Xylazine	20mg/ml	0.05mg/kg	V= (375 x 0.05) / 20= 0.94mls IV (Make up to 2mls using saline)	14 days meat 48 hours milk	1/10 the equine dose =/- 45 mins of anaesthesia
	Xyalizine- CRI	20mg/ml	0.05mg/kg/hr	(0.05*1000)/5= 10mg 10/20=0.5mls	14 days meat 48 hours milk	Continuous analgesia for 2 hours of surgery
	Ketamine (induction)	100mg/ml	5mg/kg	(375 x 5)= 18.75mls	3 days meat 24 hours milk	Balanced anaesthesia
	Ketamine CRI	100mg/ml	5mg/kg/hr	(5 x 1000) / 100= 1000mg 1000/100= 10mls	3 days meat 24 hours milk	Continuous analgesia for the surgery

	Flunixin (analgesic)	50mg/ml	2.2mg/kg	V= (375 x 2.2)/ 50= 16.5mls IV	4 days meat	Pre-emptive analgesia and post-op care for 3 days
	Tetanus anti-toxin	300IU/ml		600IU (2mls)		
	Lidocaine (induction)	20mg/ml	1.0mg/kg	V= (375 x 1) / 20= 18.75mls IV	24 hours milk and meat	Toxic dose- 10mg/kg
	Lidocaine CRI	20mg/ml	1.0mg/ml	V= (1 x 1000)/ 5= 200mg 200/20=10mls		
	Lidocaine (Paravertebral block)	20mg/ml	4-5mls			
	Lidocaine (epidural)	20mg/ml	4-5mls			
	Fluids 0.9% saline	Drip rate: (ml/min x drip factor)/60= drops/sec	500 x 20/ 60= 2.7 Therefore: 3 drops per second			

	Tolazoline	100mg/ml	0.1mg/kg	(375 x 0.1) / 100= 0.375mls 0.38 mls	None for food animals	Xylazine reversal
	Atropine	0.54mg/ml	0.04mg/kg	V= (375 x 0.04) / 0.54 = 27.8mls	14 days meat 3 days milk	Bradycardia <30bpm
	Epinephrine	1mg/ml	0.02mg/kg	V= (375 x 0.02) / 1= 7.5mls	NO withdrawal time	Anaphylactic reactions