

Drug	Concentration	Dose Rate	CALCULATIONS	Withdrawal	Indication for use
Penstrep (antibiotic)	200,000 IU/ml	20,000 IU/kg	$V = 28\text{kg} \times 20,000 \text{ IU/kg} / 200,000 \text{ IU/ml} = 2.8\text{mls IM}$	30 DAYS	Antibiotics 5mls q3d x 2
Xylazine (Sedative/ Anaesthetic) Induction	20 mg/ml	0.025 mg/kg	$V = (0.025 \times 28) / 20 = 0.035\text{mls IV}$ Make up to 2 mls with saline	14 days meat 48 hrs milk	1/10 the equine dose +/- 45 min of anaes- thesia
Xylazine (Anaesthetic) CRI	20 mg/ml	0.04 <sub>mg/kg/hr</sub> OR 0.66 mcg/kg/min	$M = \frac{DWV}{16.67R}$ $\frac{0.66 \times 28 \times 1000}{16.67 \times 500}$ = 2.2mg ..... 2.2/20 = 0.11ml	14 days meat 48 hrs milk	Contin- uous analge- sia for the 2 hrs of surger- y
Ketamine (Anaesthetic - Induction)	100mg/ml	4mg/kg	$V = (4 \times 28) / 100 = 1.12 \text{ mls IV}$	3 days meat 24 hrs milk	Balanced anaesthes- ia with xylazine
Ketamine (CRI)	100mg/ml	4mg/kg/hr OR 66mcg/kg/min	$M = \frac{DWV}{16.67R}$ $\frac{66 \times 28 \times 1000}{16.67 \times 500}$ = 221mg ....221/100 = 2.2ml	3 days meat 24 hrs milk	Contin- uous analge- sia for the 2 hrs of surger- y

Flunixin (analgesic)	50mg/ml	2mg/kg	$V = (2 \times 28)/50 =$ 1.12 mls IV - Slow IV admin - 1 ml/second	Meat 4 days	preem ptive analge sia & post-o p for three days.
Lidocaine (local anaesthetic) Proximal parav block	20mg/ml	5mg/kg = half toxic dose	$V = (5 \times 28)/20 =$ 7ml (4ml lidocaine + 6 ml saline) X 3	1 day meat 24 hrs milk	.Toxic dose 10 mg/kg
Lidocaine (Anaesthetic - Induction)	20mg/ml	0.5 mg/kg	$V = (0.5 \times 28)/20$ = 0.7mls IV	1 day meat 24 hrs milk	.Toxic dose 10 mg/kg
Lidocaine (CRI)	20mg/ml	10 mcg/kg/ min	$M = \frac{DWV}{16.67R}$ $\frac{10 \times 28 \times 1000}{16.67 \times 500}$ = 33.6 mg ....33.6/20 = 1.7ml	1 day meat 24 hrs milk	.Toxic dose 10 mg/kg
Intra-op Fluids 0.9%Saline	Calculated of Drip Rate in drops per sec - (ml/min x drip factor)/60 = drops/sec $\frac{500 \times 20}{60} = 167$ drops/sec 33.6				
Tolazoline (xylaxine reversal)	100mg/ml	2 x xylazine dose i.e. 0.1 mg/kg	$V = (0.1 \times 28)/100$ = 0.028mls	None for food animals	Xylaxi ne revers al
Atropine	0.54 mg/ml	0.04 mg/kg	$V = (0.04$	14 days	Use if

			$\text{mg/kg}(28 \text{ kg}) /$ $0.54 \text{ mg/ml}$ $V = 2.07\text{ml}$	meat 3 days milk	brady cardia $< 30$ bpm
Epinephrine	$1\text{mg/ml}$ $(1:1000)$	$0.02$ $\text{mg/kg}$	$V = (0.02$ $\text{mg/kg})(28 \text{ kg}) / 1$ $\text{mg/ml}$ $V = 0.56 \text{ ml}$	No WDT	Anaphyla xic reactions