

RECTAL PROLAPSE IN A PIG WITH 6cm AREA OF NECROSIS

Drug	Concentration	Dose	Type of Drug/ Purpose	Duration of effect	Route of Administration	Calculation* (using a 220kg pig)	Withdrawal period	Complications, Contraindications/ Comments
Penstrep	200,000 IU/ml	20,000 IU/kg	Antibiotic	3 days	IM, SQ	$V = (220\text{kg} \times 20,000 \text{ IU/kg}) \div 200,000 \text{ IU/ml} = 22 \text{ mls}$	21 Days	Administration of products containing procaine penicillin in sucking and fattening pigs, may cause a transient pyrexia, vomiting, shivering, listlessness and incoordination.
Tetanus antitoxin	15,000 IU/ml	3,000 IU /kg	Tetanus Prophylaxis	7 days	IM, SQ	$V = (220\text{kg} \times 3,000 \text{ IU/kg}) \div 15,000 \text{ IU/ml} = 44 \text{ mls}$	21 Days	
Ketamine	100mg/ml	4.4mg/kg	analgesia		IM, IV	$V = (220\text{kg} \times 4.4\text{mg/kg}) \div 100\text{mg/ml} = 9.68\text{mls}$	2 days	
Lidocaine	20mg/ml	4 mg/kg		2 hours	SQ	$V = (220\text{kg} \times 4\text{mg/kg}) \div 20\text{mg/ml} = 44\text{mls}$	8 Days	
Lidocaine CRI	20mg/ml	4 mg/kg				$M = \frac{DV}{IR} \quad \& \quad V = \frac{M}{C}$ $V = \frac{4 \times 1000}{5}$ $= 800\text{mg} \dots 800/20 = 40\text{mls}$	8 Day	
Ketamine CRI	100mg/ml	4.4mg/kg	analgesia			$V = \frac{4.4 \times 1000}{5}$ $= 880\text{mg} \dots 880/100 = 8.8\text{mls}$	2 Days	Continuous analgesia (X)-extra label use

Xylazine CRI	20 mg/ml	4mg/kg	Anaesthetic			$V = \frac{4 \times 1000}{5}$ = 800mg 800/20 = 40mls	----	
Flunixin	50mg/ml	2.2mg/kg	NSAID	36 hours	IM, neck	$V = (220\text{kg} \times 2.2\text{mg/kg}) \div 50\text{mg/ml} = 9.68 \text{ ml}$	12 Days	Pre-emptive analgesia and post-op for three days Not for use in breeding pigs
Tolazoline	100mg/ml	4× xylazine dose (16 mg/kg)	xylazine reversal		IV	$V = (220\text{kg} \times 16\text{mg/kg}) \div 100\text{mg/ml} = 35.2\text{mls}$	----	Extra label use

■ Administer sedation or analgesia to all pigs

Preferred anaesthetic options:

- General anaesthesia (Mask induction & Injectable anaesthesia)
- Standing restraint (Sedation plus sub-sacral paravertebral lidocaine block in adults/Sedation plus lumbosacral epidural in adults)