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| Drug Name | Class | Usage | Route of Administration | Dosage | Adverse Reaction |
| 2% Xylazine | Alpha-2 adrenoceptor stimulant | * Sedation * Pre-anaesthetic medication * general anaesthetic in combination with ketamine. | * IM * IV (IV is more recommended) | * 2.2 mg/kg (1 mg/lb) IM injection. * 0.25-1.1 mg/kg (0.5 mg/lb) IV injection | * Cardiac arrhythmias. * Bradycardia. * Polyuria. * Hypoxemia. * Transient hyperglycaemia. * Sweating. |
| 10% Ketamine | Dissociative anaesthetic. | * Induction of general anesthesia, in combination with detomidine, romifidine or xylazine. * Maintenance of general anaesthesia as part of a Total Intravenous Anaesthetic protocol. | * IV or IM (SC and even PO but NOT recommended). | * Detomidine hydrochloride 20µg/kg followed 5 min later by 2.2 mg/kg ketamine, IV injection. * Romifidine 100 µg/kg followed 5-10 min later by 2.2 mg/kg ketamine, IV injection. * Xylazine 1.1 mg/kg, slow IV injection, followed 2 min later by 2.2 mg/kg ketamine, IV injection. | * Hypotension. * Increased cardiac output * Tachycardia |
| 2% Lidocaine | Local anaesthetic | * Epidural. * Field block (with epinephrine). * Perineural anaesthesia (with epinephrine). * Arryhthmias | * Field block * Epidural | * Field block injection, maximum 200 ml of lidocaine (2%:20 mg/ml). * Epidural, including caudal epidural injection, 6-10 ml of lidocaine (2%:20 mg/ml). | * Signs of toxicity are convulsions followed by CNS depression |
| 2% Mepivacaine Hydrochloride | Local anaesthetic | * Field block * Perineural anaesthesia * Epidural | * Intra-articular * Perineural | * 2-5 ml of mepivacaine hydrochloride (2%: 20 mg/ml) by field block injection; 4-10 ml by intra-articular injection; and 2-10 ml by perineural injection (depending on size of nerve) | * Will cause systemic toxicity if excess amounts are used or if absorption is too rapid |
| 0.5% Bupivacaine | Local anaesthetic | * Epidural * Field block. * Perineural anaesthesia | * Intra-articular * Perineural | * 1-2 ml/site of bupivacaine hydrochloride (0.5%; 5 mg/ml) | * Should not be used for IV regional anaesthesia * Intravenous or intra-arterial injections should be avoided |
| Detomidine Hydrochloride | Alpha-2 adrenoceptor stimulant | Sedation  Pre-anesthetic medication  general anesthetic in combination with ketamine. | * IV | * 10-80 µg/kg by IM or slow IV injection. | * Cardiac arrhythmias. * Sweating. * Ataxia. * Hyperglycemia. * Polyuria. |
| Phenylbutazone | NSAID | * Inflammation * Pain * Pyrexia | * Oral * IV | * 4.4 mg/kg PO BID on day one and then 2.2 mg/kg SID for 2-4 days, followed by 2.2 mg/kg EOD. * 4.4 mg/kg by slow IV injection as a single dose. | * Blood dyscrasias. * Delayed blood clotting. * Hepatotoxicity. * Renal papillary necrosis |