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| --- | --- | --- | --- |
| Drug | Onset of action | Duration of action | Contraindications |
| 2% lidocaine  Toxic dose8mg/kg | Rapid with maximum effect at 15-25 minutes | 30-45 min | Toxic effects are usually related to central nervous system effects. Excitability, muscle tremors, and convulsions have been noted. Weakness and recumbency occur, but quickly disappear after discontinuation of the infusion. |
| 2% mepivacaine Toxic dose >400mg/kg within 24 hours | Rapid with maximum effect at 12-20 minutes | 90-120 minutes | Cannot be used in food horses, can cause weak or shallow breathing, tremors, muscle twitching or convulsions |
| 0.5% bupivacaine  Toxic dose 5.5mg/kg | Rapid with maximum effect at 15 minutes | 4-6 hours | Severe hemorrhage,  severe hypotension or shock and arrhythmias, such as complete heart block, which severely restrict cardiac output.Chondrocyte toxicity |

Lameness tests are done 3 minutes after injection of analgesia, then every 3 minutes after up to 15 minutes to ensure maximum effect of analgesia is achieved

If horses are uncompliant, sedatives can be used. These include

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| --- | --- | --- | --- | --- |
| **Drug** | | **Dose** | | **contraindications** |
| **Xylazine** | | **0.2mg/kg**  **Given IV** | | Can cause slight muscle tremors, bradycardia with partial A-V heart block and a reduced respiratory rate. Movement in response to sharp auditory stimuli may be observed. sweating, rarely profuse, has been reported following administration |
| **Detomidine** | | **10mcg/kg**  **Given IV** | | should not be used in horses with pre-existing AV or SA block, with severe coronary insufficiency, cerebrovascular disease, respiratory disease, or chronic renal failure. Intravenous potentiated sulfonamides should not be used in anesthetized or sedated horses as potentially fatal dysrhythmias may occur.  Information on the possible effects of detomidine hydrochloride in breeding horses is limited to uncontrolled clinical reports; therefore, this drug is not recommended for use in breeding animal |
| **Acepromozine** | | 0.05 mg/kg or 0.125 ml/50 kg I.V.  0.05 - 0.1 mg/kg or 0.125 - 0.25 ml/50 kg b.w. I.M. | | Cardiac disease, hypovolemia, hypotension or shock. Coagulopathies or thrombocytopenia. Acepromazine has no analgesic effect and, therefore, is less likely to ameliorate lameness than is a sedative |
| **Tolazoline**  Reverses the effects of sedation and analgesia induced by Xylazine in horses | | Horses: 4mg/kg or 1 ml/25kg IV to reverse Xylazine effects | | Stressed, debilitated, cardiac disease, sympathetic blockage, hypovolemia or shock. Hypersensitivity |
| Atropine  Antidote for Cholinergic drug overdoses | Bradyarrhythmias: 0.01 -0.02mg/kg IV.  Bronchodilator: 5mg/450kg IV | | Hypersensitive patients. Patients that have myasthenia gravis | |