***Drugs used in Emergencies***

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| **DRUG** | **WHEN TO USE** | **WHY USE IT** | **HOW TO USE IT** |
| Epinephrine | Anaphylaxis: an acute allergic reaction (dyspnea, rapid heart rate, seizure or paddling, fainting) | Epinephrine causes vaso-constriction which counteracts the rapid vaso-dilation caused by anaphylaxis, returning blood volume to normal. No withdrawal period required. | 0.2mg/kg of a 1mg/ml solution given IM. Onset in 5 mins. |
| Tolazoline | Reversal of xylazine needed. | Tolazoline is an alpha-adrenergic antagonist developed to reverse the sedative and analgesic effects of xylazine. | Give 2-4x the dose of xylazine slowly by IV. Onset in 5 min. |
| Atropine | Bradycardia induced by xylazine.  (abnormally low heart rate and blood pressure) | Atropine, an anticholinegic agent, reverses decrease in heart rate mediated by cholinergic agents. | 0.04-0.07mg/kg of a 1.5% solution IM.  Can be given pre-anesthesia (IV).  WDI: 3 days (milk) 14 days (meat) for single dose. |