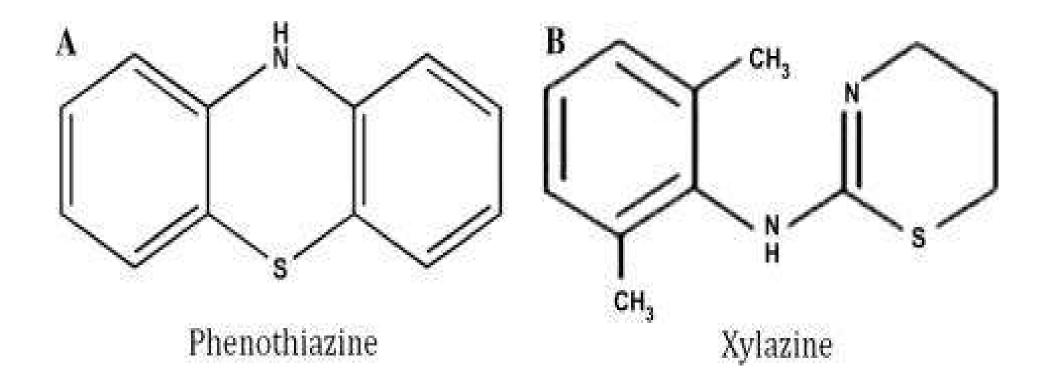
Xylazine

- Xylazine is a drug used in veterinary medicine as a
- sedative with analgesic and muscle relaxant properties. It is
- used on many different animal species such as cattle,
- sheep, horses, dogs, cats, deer, rats, and elk to calm and
- facilitate handling, perform diagnostic and surgical
- procedures, relieve pain, or act as a local anesthetic.
- This non-narcotic agent was first synthesized in 1962 by the Bayer Company.

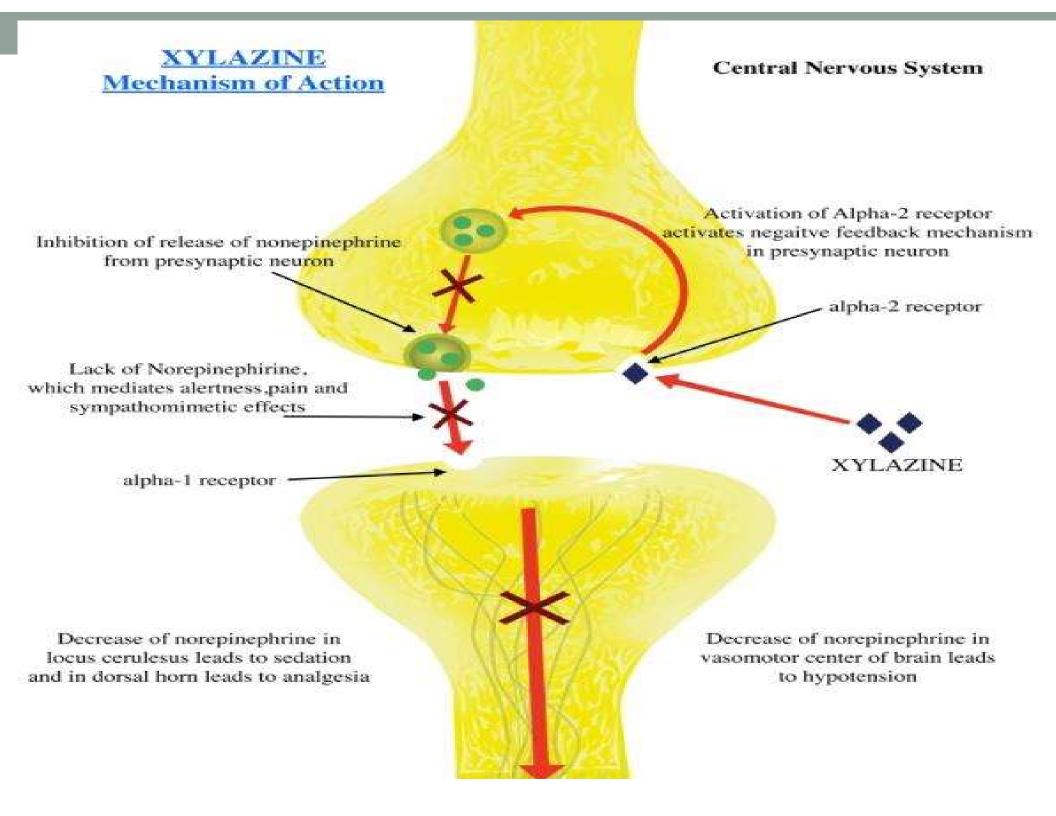
Chemistry

 Xylazine is structurally similar to the class of compounds known as phenothiazines



Pharmacology

- Xylazine, acting as an agonist at alpha-2 adrenergic receptors, decreases the release of norepinephrine and dopamine in the central nervous system resulting in effects such as analgesia, sedation and muscle relaxation. Also, xylazine may have cholinergic, serotonergic, dopaminergic, alpha-1 adrenergic, histaminergic or opiate receptor mechanisms.
- Xylazine typically has an onset of effects within a few minutes and lasts up to four hours in animals.



Side effects of xylazine

- Drowsiness.
- Low blood pressure.
- Memory problems.
- Open wounds on the skin that may become severe.
- Slow breathing.
- Slow heart rate