

Doesn't "readily" cross the BBB .  
- Causes nonselective blockade of Muscarinic receptors .

- ❖ Therapeutic use
- 1) Treatment of bradycardia .
  - 2) Mydriasis and cycloplegia
  - 3) GI spasm
  - 4) Decrease urgency
  - 5) Organophosphate poisoning .

\*Toxic effect :  
**Dry as a Bone<sup>1</sup> , Red as a Beat<sup>2</sup> , Hot as a Hare<sup>3</sup> , Blind as a Bat<sup>4</sup> , Mad as a Hater<sup>5</sup> .**  
All these effects are covered by Antidote :  
**Physostigmine**

A selective M<sub>1</sub> muscarinic receptors .  
Use for :  
Treating the Gastric ulcer .

**Parkinsonism :**  
Treated by :  
*Benztropine .*  
*Benzhexol .*

**Ach Receptor Antagonist**  
**" Muscarinic Blockers "**

*Atropine . MCQ*

*Pirenzepine*

*Hyoscine*  
*" Scopolamine "*

*Cyclopentolate , Homatropine and Tropicamide*

**Asthma :**  
Treated by  
*Ipratropium .*  
Taken by Inhalation .



Therapeutic use :  
**Lotion for Motion = Motion sickness**  
- Absorbed transdermally .  
- Longer duration of action and more potent on CNS .  
- Has a similar toxic effect to that of Atropine .

In Ophthalmology , mydriasis and cycloplasia .

Toxic effect :  
<sup>1</sup>Dry Mouth , <sup>2</sup>Tachycardia & Cutaneous vasodilation ,  
<sup>3</sup>Inhibition of sweating , <sup>4</sup>Blurring of vision ,  
<sup>5</sup>Hallucinations & delirium .

*Nail Funnis*