## Anti-parkinson drugs toxicity

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#### What is Parkinson disease

Parkinson's disease, it is a degenerative disorder that affects the basal ganglia associated with a loss of dopaminergic neurons and degeneration of nerve terminals in the striatum. DRUG managment OF PD

Muscarinic acetylcholine receptor antagonist, benztropine, benzhexol, procyclidine & trihexyphenidyl benztropine- mechanism Benzotropines a centrally acting anticholinergic/antihistamine agent. Benzotrpoine – clinical feature

## Peripherally: mydriasis, blurred vision

# Benzotrpoine – toxicity treatment AC within first two hours

### Amantadine

Amantadine as antiparkison drug is weak.

In overdose and acute toxicity, it has anticholinergic action Bromocriptine

 Bromocriptine is a non-hormonal, nonestrogenic agent Symptoms of bromocriptine overdose

It's derivative from ergot alkaloid, which share some of properties of ergot overdose toxicity, ergotism.

## managment of bromocriptine overdose

Emesis, gastric lavage & AC for the early hours of ingestion

#### levodopa

L-dopa is an amino acid found naturally in the body, A precursor of the neurotransmitter dopamine.

### Managment

Supportive measures should be used, with gastric lavage if the patient presents within 1-2 h of ingestion of a large amount of levodopa.

#### References

Gossel TA, Bricker TD, (Eds.); Principles of Clinical Toxicology; latest edition.
Viccellio P, (Ed.); Handbook of Medicinal Toxicology; latest edition.
journals of pharmacology and toxicology