

Diseases

➤ Parkinson's disease (also known as shaking palsy)

This condition occurs usually in late middle age due to degeneration of dopaminergic nigrostriatal tract. Therefore; concentration of dopamine in this region is reduced.

Characteristic features are:-

- Rigidity
- Tremors
- Akinesia and bradykinesia

Diseases

➤ Chorea and Athetosis

These two disorders are characterized by spontaneous involuntary movements due to interruption of the inhibitory pathway from area 4s via the caudate nucleus to the thalamus

- *Chorea* is mainly involvement of caudate nucleus and is characterized by rapid, irregular involuntary movements of short duration.
- *Athetosis* is due to lesion of the lenticular nucleus and is characterized by continuous, slow twisting movement.
- **Huntingson's disease** :It is an autosomal dominant inherited disorder. It is due to damage of GABA-ergic and cholinergic neurons that project to putamen, resulting in hyperkinetic features: