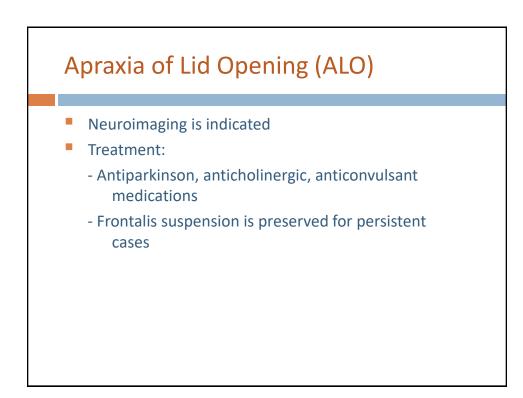
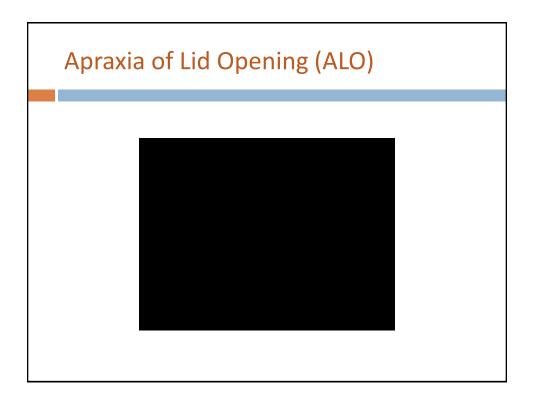


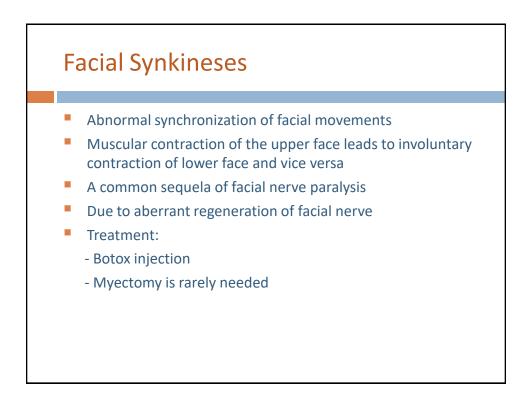


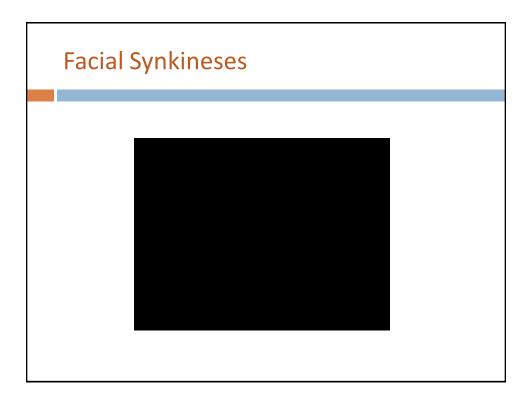
## Apraxia of Lid Opening (ALO)

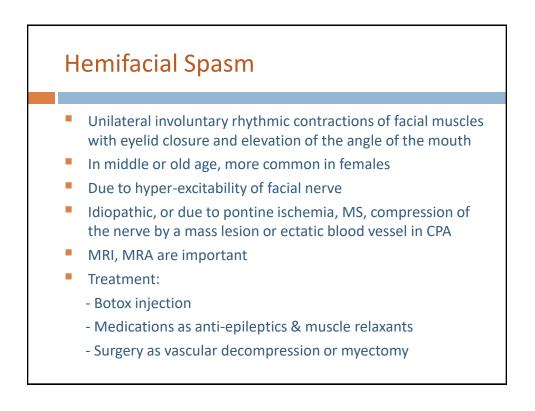
- Difficult voluntary lid elevation after lid closure
- Onset: 55-65 ys, more in females
- Due to persistent levator inhibition or orbicularis activity or both
- The exact cause is unknown.
  (? dysfunction of supranuclear control of eyelid movement)
- DD: benign essential blepharospasm (BEB)
- Occurs in association with many CNS diseases or intoxication as progressive supranuclear palsy, Parkinson disease, hydrocephalus, motor neuron disease, Huntington chorea or lithium intoxication

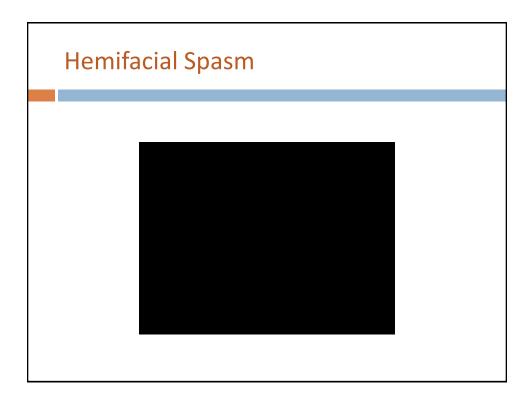


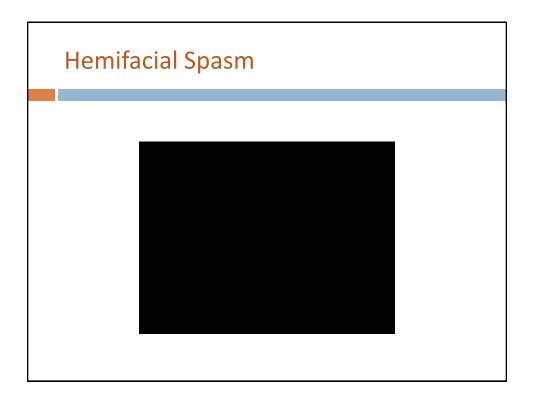




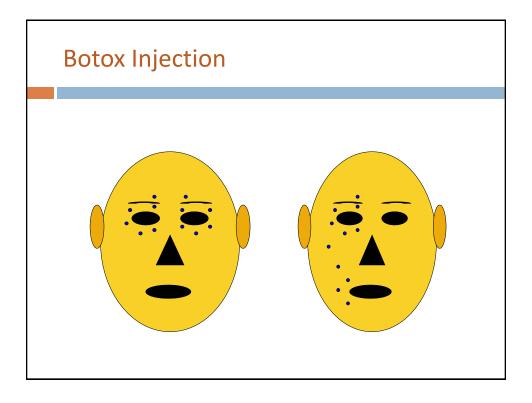










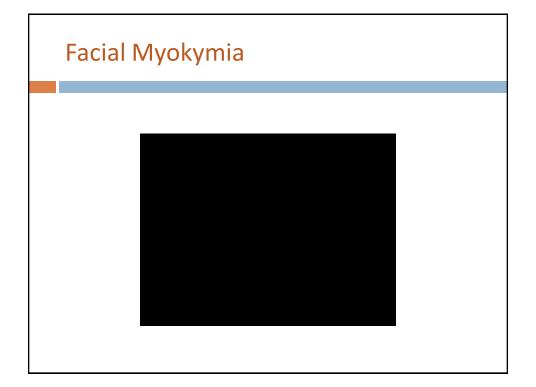


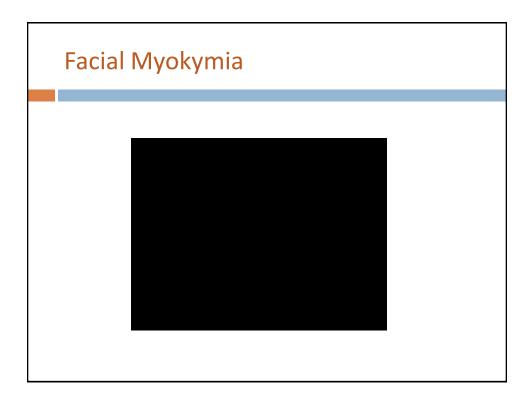
## Facial Myokymia

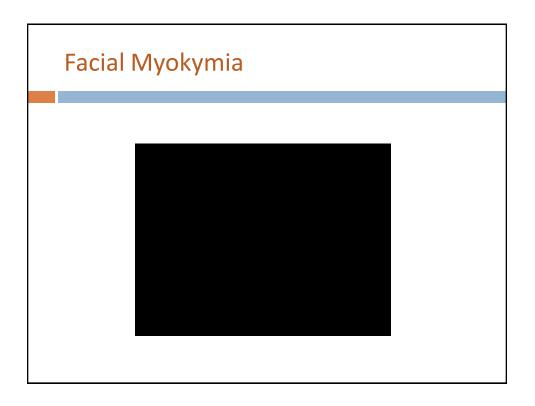
- Continuous, undulating, involuntary movement of the facial muscles (bag of worms appearance)
- The exact mechanism is unknown.

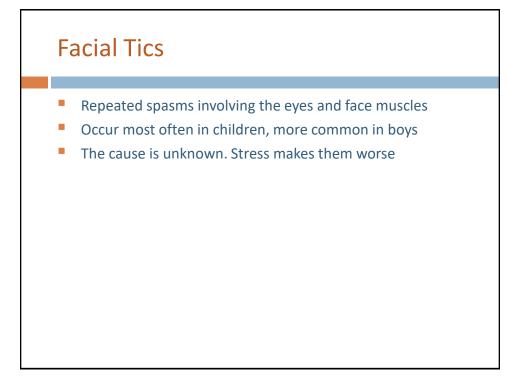
(? abnormal nuclear or supranuclear input to the facial nerve)

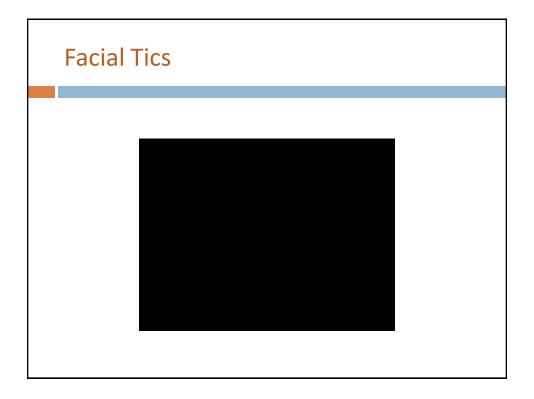
- Benign or associated with inflammatory demyelinating diseases, brainstem neoplasms, Guillain-Barré syndrome or post radiation therapy
- Neuroimaging rules out brainstem pathology
- Treatment:
  - Antiepileptic agents
  - Botox











## **Facial Tics**

## Tourette's syndrome:

- The most severe tic disorder
- Onset between 7-10 ys
- Presents with motor and vocal tics
- Improves as the child gets older
- Treatment options include behavioral therapy, medications or both

