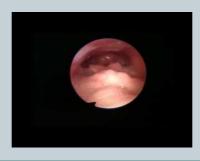




June 29 - July 1, 2010 AIX EN PROVENCE

- Laryngologist may be questionned about dysarthria in different circumstances:
 - When first symptoms of neurologic disease are voice or speech disorders (Amyotrophic Lateral Sclerosis (ALS), myasthenia gravis, skull base tumors, Parkinson's disease ...)
 - When diagnosis is not certain, laryngologic examination provides some contributions to the neurologic diagnosis, especially in parkinsonian syndroms.

- Dysarthria is a speech disorder without morphologic abnormalities which could explain the speech disorder:
 - o A congenital defect
 - o A tumor, an inflammation of oral cavity, larynx or pharynx
 - A post-operative defect



- Dysarthria may be due to abnormality of cranial nerves involved in speech production
 - o Facial (VIIth) nerve

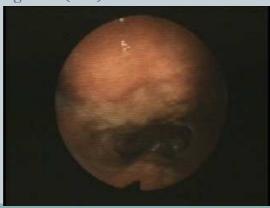


- Dysarthria may be due to abnormality of cranial nerves involved in speech production
 - o Hypoglossal (XIIth) nerve





- Dysarthria is due to abnormality of cranial nerves involved in speech production
 - o Pneumogastric (Xth) nerve



- Not palsy but paresy
 - o Lips in ALS



- Not palsy but paresy
 - o Tongue in ALS



- Not palsy but paresy
 - o Soft palate in ALS



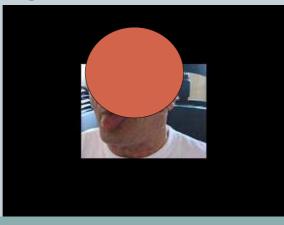
- Not palsy but paresy
 - o Larynx in ALS



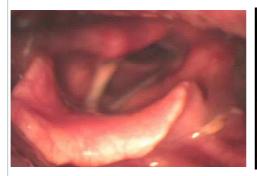
- Not palsy by hypokinesy
 - o Lips in Parkinson's disease patient



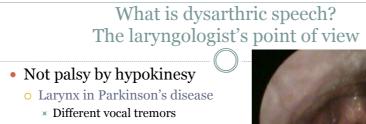
- Not palsy by hypokinesy
 - o Tongue in parkinson's disease



- Not palsy by hypokinesy
 - o Larynx in Parkinson's disease













• Spasticity of vocal folds



Progressive Supranuclear Palsy (PSP)

What is dysarthric speech? The laryngologist's point of view

Abnormal reflexs

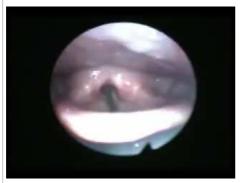


Jaw jerk reflex



Palm-chin reflex

• Abnormal movements of larynx





Multi System Atrophy (P)

- Abnormal movements of larynx
 - o Myoclonus of larynx and soft palate



After cerebellar infarct

• Focal dystonia



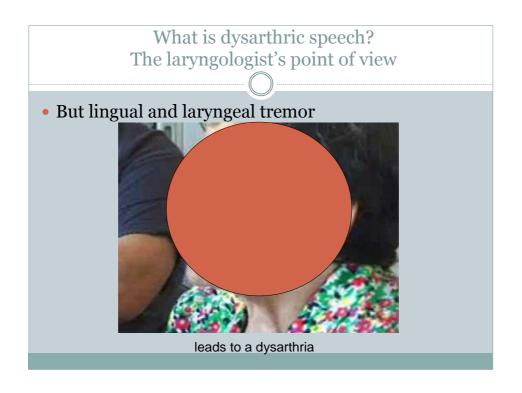
Spasmodic dysphonia: is it a dysarthria?

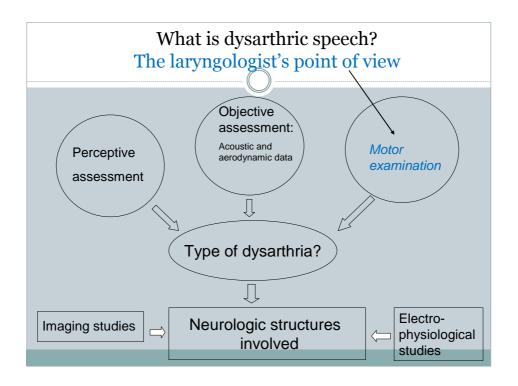
What is dysarthric speech? The laryngologist's point of view

Vocal tremor



Essential vocal tremor is rather a neurologic dysphonia...





• Thanks!