Parts of Speech

Dysarthria - Difficult articulation - mouth, tongue, face, nn, upper motor CNs, Extraparymidal, Cerebellar

Dysphonia – Abnormal quality – vocal cords

Dysphasia – Higher centre problem with the use of symbols of communication – speech, writing, reading

Expressive – Broca's area – Non fluent, halting, comprehension normal Receptive - Wernike's area - Fluent, disorganised, poor comprehension

Conductive – Arcurate fasiculus linking the two – fluent, disorganised, can follow command Nominal – Not localising. Present with all, and if lone finding may be recovering for any

Screening examination of speech

Introduce yourself. Shake hands. Are you left or right handed.

Generate free/propositional speech as a basic screen by asking them to describe the room, your tie, or the picture shown opposite. Based on this, decide if the patient has Dysarthria, Dysphonia, Dysphasia and if Dysphasia – whether it is fluent or non-fluent

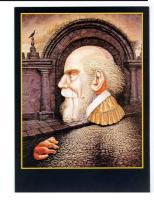
Comprehension Touch your chin, then your nose, then your ear

Do you put your shoes on before your socks?

Repetition pleas say "No Ifs, And or Buts"

Nomination Name two objects (either supply them, or from the picture)

Articulation Please say "British Constitution"



Dysarthria

Pseudobulbar palsy – UMN IX,X,XII±UL. emotion Bulbar Palsy - LMN IX,X,XII. Wasting, nasal Parkinsons - Monotonous. Parkinsons neuro Cerebellar - Slow, slurred, explosive, drunken or speech broken up into syllables = scanning

Progress to testing of CN and facial mms, Extra pyramidal disease and cerebellar depending on your findings, then onto likely causes vascular disease for infarcts, cancer for mets/space occupying lesions, rest of neuro exam etc.

Dysphonia

Laryngeal disease. Viral, cords or nerves

Progress to ENT exam, airway assessment, laryngoscopy, nerves

Non-fluent Dysphasia (expressive)

Progress to preserved speech – numbers, alphabet, songs, swears fluently when upset. Progress to reading, writing (may be impaired) and higher centre testing with all dysphasia

Fluent Dysphasia (receptive / conductive /

Receptive Dysphasia

Not able to understand/follow spoken or written commands. (reading impaired = dyslexia) Writing has abnormal content or if dominant frontal lesion have impaired writing (dysgraphia)

Conductive Dysphasia

Not able to repeat or name Able to follow commands well Reading impaired (Dyslexia) Writing is impaired (Dysgraphia)

Cerebellum

nominal)

Unlikely you will have "examine cerebellar function" as a short. More likely you will discover a cerebellar problem in a neuro exam and will progress to examine the cerebellum

Cerebellar disease is ipsilateral to lesion

Midline lesion = truncal ataxia, abn heel-toe, abn speech Rostral vermis = lower limbs (etoh) Other Cb signs decide unilateral or bilateral

Cerebellar Exam

Nystagmus – horizontal greatest when look to side of lesion

Speech - Jerky, explosive, loud, irregular rhythm

UL Extend arms - upper limb drift

Hypotonia

Finger nose – past pointing, intent tremor

Dysdiadochokinesia

Rebound - raise arms and suddenly stop

LL Hypotonia

Heel shin – drift on affected side(s)

Great toe-finger test – Intention tremor, past pointing

Foot tapping (dysdiadochokinesia)

Trunk Fold arms and sit up

Swing legs over side of bed – pendular knee jerk = hypotonia

Gait examination – stagger / falls to affected side.

Progress

Unilateral Cranial nerves for CP angle tumour or Bilateral MS

Lat medullary syndrome

Fundi for papilloedema

Peripheral signs of malignant disease

Midline Look for malignancy / paraneoplastic

Midline tumor

Vascular disease carotids / vertebrals

Look for UMN signs – spinocerebellar degen, MS, Arnold Chiari, Syphilis, Syrinx, Lesion at craniospinal in (meningioma), CVA

Friedreich's ataxia (pes cavus, kyphoscoliosis, peri neurop)

Hypothyroidism Etoh (LL disease >> UL)

