Overview

A Anatomy

A Assessment

A Aphasic Syndromes

A A Theoretic Model

A Related Syndromes

A A Case Report

Anatomy

- Anterior - Posterior
- Rostral - Caudal
- Right - Left
- Connectivity

Anatomy - Brodmann Areas

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Anatomy - Principles
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Anatomy - Principles

- Cortex
- Basal Ganglia
- Pyramidal tract
- Cranial nerves, Phrenic nerve
- Muscles (Larynx, pharynx, vocal cords)

Anterior - Posterior Gradient

- Anterior
  - Efferent
  - Motor
  - Output
  - Expressive

- Posterior
  - Afferent
  - Sensory
  - Input
  - Receptive

Anterior <-> Posterior

- Left Hemisphere –
  - Aphasia – Broca versus Wernicke
  - Apraxia
- Right Hemisphere –
  - Aprosodia – Expressive versus Receptive
  - Neglect – Motor versus Sensory

Pragmatics
Discourse
Lexicon / Semantics
Syntax
Morphology
Phonology
Anatomy - Principles

- Anterior - Posterior
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- Connectivity

Linear
Logical
Happy
Sequential
Verbal

Holistic
Intuitive
Sad
Random
Non-Verbal

Arcuate Fasciculus

Brain Atlas
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Language Assessment

- Spontaneous Speech
- Comprehension
- Naming
- Repetition
- Reading
- Writing
  - Articulation Prosody Semantics

Comprehension – Token Test

Show me the small red circle
Put the green square over the yellow square
Aphasic Syndromes

- Spontaneous Speech
- Comprehension
- Naming
- Repetition
- Reading
- Writing
- Articulation, Prosody, Semantics

Aphasic Syndromes

- Can be differentiated by:
  - Repetition
  - Fluency
  - Comprehension

Language Assessment

- Spontaneous Speech
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Aphasic Syndromes

Can be differentiated by:
- Repetition
- Fluency ----> no of items per saying / ant-post
- Comprehension

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Models - Lichtheim

Aphasic Syndromes

Can be differentiated by:
- Repetition
- Fluency
- Comprehension
  - Simple <-> complex
  - Body parts?
  - Grammatic
  - Anterior <-> posterior
Models - Lichtheim

A = Auditory
M = Motor
B = Concepts

“The reflex arc consists in an afferent branch aA, which transmits the acoustic impressions to A; and an efferent branch Mm, which conducts the impulses from M to the organs of speech; and is completed by the commissure binding together A and M. When intelligence of the imitated sounds is superimposed, a connection is established between the auditory centre A, and the part where concepts are elaborated, B.” (Lichtheim, 1885.)

Related Syndromes
- Subcortical Aphasic Syndromes
- Mutism
- Aprosody
- Dysarthria
- Alexia
- Agraphia
- Schizophrenic Speech

Related Syndromes
- Subcortical Aphasic Syndromes
- Mutism
- Aprosody
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Alexia without Agraphia

Related Syndromes

- Subcortical Aphasic Syndromes
- Mutism
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- Dysarthria
- Alexia
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Related Syndromes

- Subcortical Aphasic Syndromes
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A bun, bun (BULL) is chasing (CHASING) a boy or skert (SCOUT). A sk- boy sket (SKOUT) is by a bone post (POST) of pine. A... post... pine (POST) with a, er, tone toe (LINE?) with washing (WASHING) hanging on including his socks saiz (?). A... a risk (IENT?) is by the washing. A bi-boy is swinging (SWINGING) on the bank with his hand (FEET) in the strings (STREAM).

Where was I / Answer: In the greatest temple to the Trinity in Mil-wau-kee, Wis-con-sin. And what is the time? My discovery was of monumental importance. It was important not just for a few moment or days or even years. My discover was of cosmological importance. I was at a point in evolution (evil-ution). If I continue to go forward I will be going with evil-ution. I could not go that way. On the other hand, If I went back, I would be going with devolution (devil-ution). I would not go with the devil either. I was at a balance point for the universe. I could not move without moving with evil or the devil.