

Neitelbaum, H. A. 1943 An analysis of the disturbances of the higher cortical functions, agnosia, apraxia, and aphasia. J. Nerv. Ment. Dis., 97: 44-61.

	Sensory	Motor
Simple	Sensory Anesthesia	Vol. contr. - Paralysis
More complex	Recognit. Agnosia	Prep. movt - Apraxia
Most complex	Understandg. aphasia	Meaningful speech - Mut. Aphasia

6 modalities of cerebral function which lesions may affect and more or less individually.

Dominant cortex has complete control of the more complex functions

may retain a few simple words, - or garbled unintelligible-utterances  
 Some understand everything said to em but can't reply  
 In others both " int. & expression are gone - like deaf-mutes  
 " " only understanding lost while expression retained & get  
 irrelevant chatter.  
 Some recog & repeat a word, but then forget in a few minutes  
 = amnesic aphasia.

Poems, prayers, & songs sometimes retained

Divides agnosia: - cites example cases

- |                 |                     |
|-----------------|---------------------|
| 1) body agnosia | 5) symbolic agnosia |
| 2) spatial "    | a. lang.            |
| 3) temporal "   | b. no. b            |
| 4) object "     | c. music            |
|                 | 6) picture "        |
|                 | 7) color "          |

languages learned earliest persist best in aphasias

Secondary aphasia, language aph, number aph, acalculia,

"no precise centers for higher cortical functions" rather involve complex integrative pathways, highly organized association systems. some parts of system = more vital than others, local lesions may hit a vital part of the assoc. system. Can get effects from several lesions near the vital area, or diffuse lesions in less vital areas of system. Thus have primary & associated disturbances of the higher cortical functions

Reitelbaum, H. A. 1942 The principle of primary and associated disturbances of the higher cortical functions as applied to temporal lobe lesions. J. Nerv. Ment. Dis. 96: 261-273.

Post hypnotic suggestio - forget names of body parts  
body image = a higher cortical function.

Along w. the suggest disturbances (primary), the were found assoc " in readg, writg, calculat, recog, orientation, sensation

Suggest we have these 2<sup>nd</sup> or "assoc" disturbances ffg psychogenic trauma and organic damage also.

[Little in addition to ideas expressed in other<sup>'43</sup> articles]