

























PARIETO-OCCIPITOTEMPORAL ASSOCIATION AREAS					
AREA	SITE	FUNCTION			
Analysis of the Spatial Coordinates of the Body.	beginning in the posterior parietal cortex and extending into the superior occipital cortex	computes the coordinates of the visual, auditory, and body surroundings.			
Area for Language Comprehension	Wernicke's area, lies behind the primary auditory cortex in the posterior part of the superior gyrus of the temporal lobe.	higher intellectual function			
Area for Initial Processing of Visual Language (Reading).	angular gyrus area	make meaning out of the visually perceived words (Dyslexia or Word Blindess)			
Area for Naming Objects.	In the most lateral portions of the anterior occipital lobe and posterior temporal lobe	naming objects.			







AREA	LESION FAETURES	
Auditory association areas	Word deafness	
Visual association areas	Word blindness called dyslexia	
Wernicke's Aphasia Global Aphasia	Unable to interpret the thought	
Broca's Area Causes	Motor Aphasia	































RESTING TREMORS
RIGIDITY LEAD PIPE & COG WHEEL
MONOTONUS SLURRED ANARTHRIA
ABSENCE OF ASSOCIATED UNCONCIOUS MOVEMENTS(SWINGING OF ARMS DURING WALKING .
FACIAL EXPRESSION IS MASKED
SIMIAN POSTURE
SWEATING

APHASIA

CATEGORICAL HEMISPHERE

APHASIA IS LOSS OF OR DEFECTIVE LANGUAGE FROM DAMAGE TO THE SPEECH CENTRES WITHIN THE LEFT HEMISPHERE.

DYSARTHRIA

DYSARTHRIA SIMPLY MEANS DISORDERED ARTICULATION - SLURRED SPEECH. LANGUAGE IS INTACT, CF. APHASIA.



APHASIAS

ARE ABNORMALITIES OF LANGUAGE FUNCTIONS THAT ARE NOT DUE TO DEFECTS OF VISION OR HEARING OR TO MOTOR PARALYSIS. THEY ARE CAUSED BY LESIONS IN THE CATEGORICAL HEMISPHERE

APHASIA				
EXPRESSIVE	RECEPTIVE			
	BROCA'S AREA			
FLUENT	WERNICK'S AREA CONDUCTION APHASIA			
	→ ANGULAR GYRUS			
GLOBAL	WIDESPREAD DAMAGE TO SPEECH AREAS			

BROCA'S APHASIA

(EXPRESSIVE APHASIA, ANTERIOR APHASIA)

Damage in the left frontal lobe causes reduced speech fluency with comprehension preserved. The patient makes great efforts to initiate language, which becomes reduced to a few disjointed words. There is failure to construct sentences.

Patients who recover from this form of aphasia say they knew what they wanted to say, but 'could not get the words out'.

WERNICKE'S APHASIA (RECEPTIVE APHASIA, POSTERIOR APHASIA)

Left temporo-parietal damage leaves language that is fluent but the words themselves are incorrect. This varies from insertion of a few incorrect or nonexistent words into fluent speech to a profuse outpouring of jargon (that is, rubbish with wholly nonexistent words). Severe jargon aphasia may be bizarre - and confused with psychotic behaviour.

Patients who have recovered from Wernicke's aphasia say that when aphasic they found speech, both their own and others', like a wholly unintelligible foreign language. They could neither stop themselves, nor understand themselves and others.

GLOBAL APHASIA

(CENTRAL APHASIA)

This means the combination of the expressive problems of Broca's aphasia and the loss of comprehension of Wernicke's. The patient can neither speak nor understand language. It is due to widespread damage to speech areas and is the commonest aphasia after a severe left hemisphere infarct. Writing and reading are also affected.



Table 16–3. Aphasias. Lesions in Various Areas When Shown a Picture of a Chair.					
Type of Aphasia and Site of Lesion	Features	Characteristic Naming Errors			
Nonfluent (Broca's area)	slow, and words are hard to come	"Tssair"			
Fluent (Wernicke's area)	fails to comprehend the meaning of spoken or written words	"Stool" or "choss" (neologism)			
Fluent (areas 40, 41, and 42; conduction aphasia)	speak well good auditory comprehension cannot put parts of words together	"Flair no, swair . tair."			
Anomic (angular gyrus)	auditory ok Prob in written w or pictures, visual is not processed	"I know what it is . I have a lot of them."			







Terms to Remember

- Dysarthria
- Broca's aphasia
- Wernicke's aphasia
- conduction aphasia
- Anomic aphasia
- global aphasia
- Dyslexia
- Acalculia
- Prosopagnosia
- Achromatopsia
- Stuttering