Cheatography

Aphasia Cheat Sheet by aoife via cheatography.com/165126/cs/34584/

Language ar	nd Hearing Centre
Broca's Area	Major region for expressive language - i.e. formulation & production
Heschl's Gyrus	primary auditory cortex - i.e. hearing
Wernicke's Area	Major region for receptive language - i.e. compre- hension

Neurogenic communication

different types of communication disorders, depending on which areas of the nervous system are damaged.

- > Acquired Language Disorders
- Aphasia
- Cognitive-Communication Disorders
- difficult to understand language
- ➤ Motor Speech Disorders
- Dysarthria
- Apraxia
- Know what they want to say but difficult to physically produce speech

Stroke	Foremost caus
	of neurological
	damage
Injury to	Thrombosis
blood	
vessels in	
the brain	

Neurogenic of disorders in A	communication Adults (cont)	
embolism		
haemorrhage		
stroke occurs your blood flo > The blood and oxygen t nutrients whit functions > No blood t > Block could narrowing of bosis) > Blood clot	s when a part of ow is blocked provides glucose to the brain and ch are vital for their to the brain tissue d be from the the artery (throm- (embolism) artery ruptures	
≫Brain tissue dies		
Aphasia		
Aphasia	>> Language	
	impairment caused by a brain damage	
	caused by a	
	caused by a brain damage >> Usually acquired in	
Language	caused by a brain damage > Usually acquired in adulthood > Site and size of the brain damage strongly associated with	
Language network in the brain has a complex	caused by a brain damage ➤ Usually acquired in adulthood ➤ Site and size of the brain damage strongly associated with aphasia severity	

Posterior language areas		
Posterior	Contains	
cortex	Wernicke's area	

Posterior language areas (cont)		Classification of Aphasia	
	Respon- sible for unders- tanding	> Type of aphasia depends primarily on location and ex of damage - BUT not clear cut	n location and extent
Damage effects on language comprehension	Difficulty compre- hending speech	 BUT need to consider entire range of language problems 	
		Classificati	on of Aphasia
	Possible reading	Fluent Aphasia	Wernicke's Aphasia
	problems		Anomic Aphasia
	fluent aphasia		Conduction Aphasia
Wernicke's area is responsible for understanding language		Non-fluent Aphasia	Broca's Aphasia
Posterior language areas, temporal lobe			Global Aphasia
		Wernicke's	Aphasia
Anterior language	areas	Salient features:	➤ Impaired spoken and written compre-

temporal lobe		W
Anterior language areas		Sa
Frontal lobe	Contains Broca's area	
	Responsible for speaking	
Damage effects on language production:	Slow, laboured speech	St CL SE
	Word retrieval difficulties	La
	Lacks flow and intonation	Ar Ar
	causes non fluent aphasia	
Broca's area is resp	onsible for	

Putting sounds together to

create speech

	оросон		
	Possible reading	Fluent Aphasia	Wernicke's Aphasia
	problems		Anomic Aphasia
	fluent aphasia		Conduction Aphasia
Wernicke's area is responsible for understanding language		Non-fluent Aphasia	t Broca's Aphasia
Posterior language areas,			Global Aphasia
temporal lobe		Wernicke's	s Aphasia
Anterior language a		Salient features:	> Impaired spoken and written compre-
Frontal lobe	Contains Broca's		hension ➤ Fluent speech:
Re	Respon-		➤ Speech lacks content
	sible for speaking		➢ Paraphasias
Damage effects on language production:	Slow, laboured speech	culated bu	fluent and well-arti- ut it doesn't make uking up words
Word retrieval	Lack of co	ontent and meaning	
	difficulties	Anomic Ap	ohasia
	Lacks flow and intonation	Acomic Aphasia	damage to a variety of brain regions in the language network
	causes non fluent aphasia		
Broca's area is res	oonsible for		



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Anomic Aphasia (cont)

includes regions in the frontal, temporal and parietal cortex

Speech is typically fluent and produced with seeming ease

words

· will typically speak in complete, grammatically correct sentences

However, the individual might have trouble retrieving specific

· especially nouns and verbs, often able to successfully communicate using strategies to work around their wordfinding difficulties

usually have good comprehension; can understand spoken messages, They usually are able to read

There is content an meaning but just cannot find the right words sometimes

Conduction Aphasia

lesion is assumed to be in the tracts connecting Wernicke's area to Broca's area

>> Fluent conversational speech

Conduction Aphasia (cont)

- > Relatively intact comprehension
- >> Significant impairment in repetition
- > Conversational speech frequently marked by paraph-
- >> Have good comprehension & awareness of mistakes

Recovery

- > Neurological dysfunction at its worst immediately post-stroke
- > Recovery begins within a few days
- · Some injured cells begin to function more normally again "Penumbra" = Areas of the brain that were damaged but not yet
- → possible to rescue brain tissue with appropriate therapies (→ increasing oxygen transport & delivery to cells in the danger zone → limiting cell death)
- >> We cannot predict exact course or nature of recovery

Broca's Aphasia

- > Relatively intact auditory and reading comprehension
- → often able to understand most of what is said to them, but they have trouble responding
- > person knows what they want to say but is unable to produce the words or sentence
- > Non-fluent aphasia because speech is effortful Salient features:
- · Paucity of speech
- Agrammatism
- = usually missing function words and word endings
- small words like prepositions, articles and conjunctions are especially difficult and often left
- = sentences produced often have incorrect syntax, or word order and grammar
- · Word retrieval deficits
- · Substitutions can occur
- · Slow, laboured speech
- · Writing abilities often mirror speech (see slide: Writing)
- · Single words non-fluent sentences

Broca's Aphasia (cont)

· Not full sentence

Global Aphasia

Most severe form of aphasia

- >> All language modalities are affected
- = speaking, comprehension, reading, and writing
- > Results from lesions in both anterior and posterior language areas
- > Mixed effects of Broca's and Wernicke's aphasias
- · Severe comprehension and production deficits
- Impaired naming and repetition
- >> People with global aphasia usually have a limited number of utterances
- Very few or no spoken words
- · If words are spoken, it is likely to be a single word and might contain errors, such as paraphasias (word & sound substitutions)
- · Difficulty repeating words
- · Understanding language is very difficult



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The person with aphasia: Other issues

- ➤ Sensory and motor problems
- Impaired hearing, balance
- Impaired mobility, eating, dressing, writing
- ➤ May be subtle personality changes

Frequent Family Problems

- ➤ Non-aphasic spouse has no time alone
- >> Financial difficulties
- > New spousal roles as a result of aphasia
- ➤ Dealing with issues of dependence/ independence for the aphasic spouse
- >> Rehabilitation is important to the whole family, not just person who has aphasia



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