Cheatography

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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
Nouragania	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

blood vessels in the brain

- Know what they want to say but difficult to physically produce speech

disorders in Adults Stroke Foremost cause of neurological damage Injury to Thrombosis

	communication Adults (cont)
embolism	
haemorrha	ge
your blood fl > The blood and oxygen nutrients wh functions > No blood >Block coul narrowing of bosis) > Blood clot	artery ruptures
Anhacia	
Aphasia	
Aphasia	➤ Language impairment caused by a brain damage
	➤ Usually acquired in adulthood
	≫ Site and size

Aphasia	
Aphasia	➤ Language impairment caused by a brain damage
	➤ Usually acquired in adulthood
	➤ Site and size of the brain damage strongly associated with aphasia severity
Language network in the brain has a complex organisation	it is not restricted to one area, it is interconnected

Posterior language areas		
Posterior	Contains	
cortex	Wernicke's area	

Posterior language	areas (cont)
	Respon-
	sible for
	unders-
	tanding
Damage effects	Difficulty
on language	compre-
comprehension	hending
	speech
	Possible
	reading
	problems
	causes
	fluent
	aphasia
Wernicke's area is	responsible
for understanding la	anguage

Posterior language areas,
temporal lobe

temporal lobe	
Anterior language areas	
Frontal lobe	Contains Broca's area
	Respon- sible for speaking
Damage effects on language production:	Slow, laboured speech
	Word retrieval difficulties
	Lacks flow and intonation
	causes non fluent aphasia
Broca's area is res	nonsible for

Broca's area is responsible for	
speaking	

Putting sounds together to create speech

Classification of	of Aphasia
➤ Type of aph	asia depends
primarily on loc	ation and extent
of damage	
- BUT not clea	r cut
– BUT need to	consider entire
range of langua	age problems
Classification of	of Aphasia
Fluent	Wernicke's
Aphasia	Anhasia

	Global Aphasia
Aphasia	Aphasia
Non-fluent	Broca's
	Conduction Aphasia
	Anomic Aphasia
Fluent Aphasia	Wernicke's Aphasia

Wernicke's	s Aphasia	
Salient	➤ Impaired spoken	
features:	and written compre-	
	hension	
	➤ Fluent speech:	
	➤ Speech lacks	
	content	
	➤ Paraphasias	
Speech is fluent and well-arti-		
culated but it doesn't make		
sense, making up words		
Lack of content and meaning		
Anomic Ap	ohasia	

74101111071	priadia
Acomic	damage to a variety
Aphasia	of brain regions in the
	language network



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Anomic Anhasia (cont)

includes regions in the frontal, temporal and parietal cortex

Speech is typically fluent and produced with seeming ease

• will typically speak in complete, grammatically correct sentences

However, especi the and vert individual able to s might commur have strategie trouble around to retrieving nding directions

words

• 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

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

➤ Fluent conversational speech

Conduction Anhasia (cont)

- > Relatively intact comprehension
- >> Significant impairment in repetition
- >> Conversational speech frequently marked by paraphasias
- ➤ 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 dead
- → 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 out
- = 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

- ➤ 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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