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NEUROLOGY AND SLP Cheat Sheet by aoife via cheatography.com/165126/cs/34581/

What are SLF	s interested in?	Nervous	system (cont)	Anatomy and	Function	Anatomy and	Function (cont)
where is the damage?	- anatomy		Peripheral nervous system (PNS) - Nerves outside of the brain & spinal cord •	Brain	➢ Grey matter (nerve cell bodies)	OCCIPITAL	> Body orient- ation> Processing of
What is the function of the	- Areas important for speech and language proces-		Connects CNS to limbs & organs		 > Wrinkly appearance > Bumps – gyri 	LOBE – Function	visual inform- ation e.g., in reading, recogn-
damaged area?	sing, swallowing	Contra lateral innerv	one side of the brain essentially controls the opposite side of the		 > Grooves – sulci and fissures 		ising faces/ objects
what has caused the brain	- Sudden incident (potential to improve) or	ation	body	Divided lengthways into two	≫left & right	LANGUAGE AREAS IN THE BRAIN	➢ Left hemisphere
damage?	progressive disease (symptoms getting	WERNIG	'S AREA & CKE'S AREA 'S AREA	hemisp- heres			➢ Frontal lobe (and Broca's area) vital for
What are the	worse over time) - What are the signs and charac-	Paul Broca patients who lost the ability to speak		FRONTAL LOBE – Function	≫Attention		language and speech production
language/ speech/	teristics of abnormalities ;	Most ha	d lesions in posterior eft frontal lobe		➢ Language production		 Temporal lobe (and Wernicke's
swallowing symptoms?	Severity	lobe of l	osterior part of the frontal eft hemisphere		> Voluntary movement		area) vital for language
- Different methods for the assessment and investigation of		region for expressive language WERNICKE'S AREA Karl Wernicke			➢ Behaviour and Personality	Grey is the su	comprehension rface – cerebral
neurologically ication disord	/-based commun- ers		with fluent speech but comprehension		 Planning of movement Reasoning 	cortex Children with s brains will hav	soft non wrinkly
Nervous syste	em that transmit	part of th	d lesions in the superior ne left temporal lobe		and problem solving	issues	
collection of nerve cells (billions)	signals between different parts of the body - allows	tempora	iperior part of the I lobe of left hemisphere or receptive language	TEMPORAL LOBE – Function	 Hearing e.g., words, laughing, baby crying 	common caus communicatio Sudden incide	n disorders
	you to do things like walking, speaking,				≻ Languagecomprehension	> Stroke> Traumatic B	Brain Injury (TBI)
Structurally	swallowing Central nervous				> Interpret other people's emotions	Progressive d ≫ Alzheimer's ≫ Parkinson's	disease
– NS has TWO	system (CNS) - Brain (incl.			PARIETAL LOBE –	 Processing of sensory inform- 	>> Multiple Sc	erosis (MS)
components	cerebellum & brain stem → image) ▪ Spinal			Function	ation e.g., touch, pressure, pain, temperature,		
	Cord				taste, position		

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Nervous sy	stem requires a high	Brain lesion	s (cont)	Brain lesion	s (cont)	Brain lesion	ns (cont)
blood flow ≫ Brain m cells)	ade up of cells (nerve		Blood flow is suddenly interr- upted to an area of		Damage is typically widespread or	Swallowing disorders Speech and language problems	
,	e the key players BUT properly;		brain (↓ oxygen & ↓ glucose) →		diffuse to an area or areas within the	Progressive	
 Nerve ce adequate s oxygen and glucose) 	ells depend on	Symptoms and	and HEAD impacts the head	Results when an outside force impacts the head	ALZHEI- MER'S DISEASE Dementia	Most common type of dementia in older adults progressive deteri- oration in cognitive	
blood vess Brain lesio	els	effects depend on the lesion site		INJURY	BUT the skull is not broken, fractured, or penetrated		functions (e.g., thinking, commun- ication)
Stroke	Rapid loss of brain function due to an injury to blood		Change of behaviour Sensory deficits		shaking of the brain inside the bony skull results		Significant loss of brain volume (nerve cell death)
Risk	vessels in the brain Overweight -		memory loss speech/language		in bruising and tearing of brain		Incidence rising with ageing population
factors -	Physical inactivity - Heavy drinking - Use of illegal drugs - High blood pressure - Cigarette smoking	Paraly- sis/hemip- legia	problems complete paralysis of half of the body		tissue and blood vessels Damage is typically widespread or	Clients with Alzhei- mer's	Inappropriate social behaviour
	- High cholesterol - Diabetes	hemipa- resis	weakness of one entire side of the		diffuse to an area or areas within the	Disease	Poor memory
Blood supply disturbed	A clot (Infarct/ Ischemic stroke) - 80%		body occurs in the left orain, the right side of	TBI – Symptoms	brain Effects largely dependent upon		Problems performing routine tasks
due to	Bleeding (Haemo-	vice versa	I be affected, and		location and extent of the brain injury		Problems with abstract thinking
	rrhage/ Haemor- rhagic stroke) - 20%	Traumatic Brain	Sudden damage to the brain caused		Change of behaviour		and judgement Confusion
		Injury (TBI) - OPEN	when the scalp/ skull is broken, fractured, or		Vision impairments Sensory deficits		Speech, language and swallowing
		HEAD INJURY	penetrated		Paralysis, movement diffic- ulties	PARKIN- SON'S	difficulties Degeneration/ death of nerve cells
			Damage to brain tissue and blood vessels		uiii65	DISEASE	leads to movement & cognitive impair- ments

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Progressive di	seases (cont)	
	Occurs in	
	around 1% of the	
	population aged over 60	
Symptoms	Tremor (can affect limbs + jaw, tongue, face in some	
	cases)	
	Absence of/ Reduced movement	
	Muscle rigidity	
	Stooped posture	
	Dementia (40% cases)	
MULTIPLE SCLEROSIS	Demyelinating disease	
	• in which the protective cover (Myelin) of nerve cells in the brain and spinal cord are damaged	
	Disrupts the ability of the nervous system to communicate properly (i.e. information transfer affected)	
	➢ More common in women 20-40 years old	
	 Cause not known (genetics environmental factors such as infections proposed) 	
Symptoms	vary depending on the lesion sites	

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