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Cognition and Communication Disorders Cheat Sheet by aoife via cheatography.com/165126/cs/34588/

Cognition		Cognition (cont)	Cognitive in	npairment	Major NCD
Cognition: what is it?	 Consciousness The mental events or processes that allow you to acquire and work with information or knowledge Memory, working (short-term) — temporary storage & long-term — 	 Perceptual function (allows you to take in information through senses, then utilise this information to respond & interact with the world) 	 It is NOT normal for age-re- lated cognitive decline to interfere with activities of daily living! If the cognitive decline does interfere with activities of daily living then it is a cognitive impairment 		 Diagnosis: decline in one or more cognitive abilities (based on concerns and confirmed in testing) significant enough to interfere with activities of daily living decline is not reversible Age-related changes Physiological, age-related changes, when the elderly are trained, there is the ability to improve before the decline. Reversible If it is a cognitive impairment is
		 Motor function (voluntary movements: dialing the phone, un/buttoning clothes etc) 			
		 Social cognition (recognising emotion of others, how you deal with others, imagine what someone else might be thinking or feeling etc) 	Age-related cognitive decline		
Cognition: what "proce- sses"?			Evidence:> began in 1956Seattlefocusing upon ageLongit-changes inudinalcognitive abilitiesStudy:Study:		
	 Persistent storage I Language (ability to understand & express thoughts) Attention (concentration, allows you 	Cognitive impairment Terms			
		Dementia	 > on multiple measures – • 80% of participants showed little decline – 60 y.o. • 67% showed little decline – 81 y.o. 	> on multiple	not reversible, you can train them but they won't get better. Progressive the client gets
		Alzheimer's			
		Major neuro-cognitive disorder (NCD)		worse	
	to focus on) Executive 	Alzheimer's is the most common		-	Irreversible NCD "irreversible"—progressive; no recovery, worsening symptoms Statistics • 50 million people worldwide • ~70,000 Kiwis living with dementia today (1.4% of the total population) • triple by 2050 Contributing factors: life expectancy
	functions (control of	dementia		decline – 81 y.o.	
	behaviour, problem solving, planning & strategy)	Many people use major neuroc- ognitive disorder instead of saying dementia	Memory: decreases	 moderate and not experienced by everyon? 	
				 substantial, beginning in early adulthood and affecting everyone? 	
			Speed: decreases	• learning, proces- sing, problem-s-	

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Irreversible cognitive impairment	Subcortical: Parkinson's (cont)	early (mild) AD	Language issues in AD
Damage to nerve cells in the brain Area of the brain affected — Subcortical damage • Cause: e.g., Parkinson's (PD) Cortical damage • Cause: e.g., Alzheimer's (AD) • No point in training because	Dysarthria (speech problems) progre cognitive issues ssion: executive function, memory, processing speed 40% cases develop	 early (mild) AD noticeable decline, especially new memories affects task performance—inc- reasing difficulty with ADL increasing language difficulty vagueness independent living with support 	Language issues in AD Sentence comprehension • multiple verbs in a sentence • multiple nouns that can perform the action Grammar • preference for simple structures in sentence production • difficulty with irregular past tense forms Discourse • vagueness; less information given • reliance on simple words, esp. verbs Language in AD diagnosis Montreal Cognitive Assessment (MoCA) • 3 items confrontation naming • repetition of two complex sentences • say all the words you can think of beginning with the letter Mini Mental State Exam (MMSE) • naming and repetition • follow spoken and written commands • write a sentence
nerves are dying, this isn't happening with the physiological effect of aging as the neurons are just separated and not connecting so with the training	dementia When this issue progresses it has cognitive issues	 middle-stage (moderate) AD much support needed even easier ADL becomes 	
they can reconnect again. When nerve cells are dying they cannot reconnect so it is irreversible. • Depends where the nerve cells are dying so if it's in the subcor- tical damage then it's dementia due to Parkinson's whereas if it	Cortical: Alzheimer's Stats > the most common type of dementia → 50-80% of all dementia diagnoses > in 5-15% of all people aged 65+ > in 15-50% of all people aged 80+ > more common in women than men	difficult decreasing vocabulary and communicative participation behavioural issues—e.g., aggression, hallucination Iate-stage (severe) AD	
is cortical damage it is Alzhei- mer's. • Can have both at the same time Subcortical: Parkinson's		 professional support—living outside the home issues remembering essential life information loss of function— e.g., muteness, motor function 	
early motor impairments stages: resting tremor immobility/rigidity → slow movement	MCI and Stages of AD Mild cognitive impairment (MCI) • mild NCD (DSM-5) • affects especially new memories	Diagnosis of AD Interviews (person, family) Medical imaging (brain scans) Medical and cognitive tests 	
difficulty walking	 little effect on activities of daily living (ADL) → independence in everyday activities 		

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• not all MCI becomes AD

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Communicative interventions for early AD (cont)

- e.g., encourage, give time to organise thoughts or ask partner to speak slowly
- Facilitative
- prevent or repair communication breakdown
- e.g., description in place of word
- Scripting
- practicing spoken discourse

Communicative interventions for mid-to-late AD

Focus on communicative participation

- communication vs. isolation
 SLP trains the caregiver as a communication partner
- monitor, advise, encourage, and modify
- Changes to caregiver's communication habits
- short sentences
- simple, familiar words
- slower speech rate
- repetition
- signalling of topic changes
 Caregiver attitude toward the

person with AD

- respect
- encourage participation

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Communicative interventions for AD: Broad points

Egan et al. (2010) review, Collins & Hunt (2022) memory aids can help with specific topic maintenance e.g., memory books, personalized images (e.g., family members, previous occupation) - caregiver training, positive relationships and shared activity can help with increasing utterances or non-verbal expressions divided attention has negative effects Williams, Theys, and McAuliffe targeting verbs may improve

the production of both verbs and

nouns