#### Cheatography

## 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?	Thought or Consciousness      The mental events or processes that allow you to acquire and work with information or	<ul> <li>Perceptual function (allows you to take in information through senses, then utilise this information to respond &amp; interact with the world)</li> </ul>	<ul> <li>It is NOT normal for age-re- lated</li> <li>cognitive decline to interfere with activities of daily living!</li> <li>If the cognitive decline does interfere with activities of daily</li> <li>living then it is a cognitive impairment</li> </ul>		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
		<ul> <li>Motor function (voluntary movements: dialing the phone, un/buttoning clothes etc)</li> </ul>			
Cognition: what "proce- sses"?	knowledge • Memory, working (short-term) — temporary storage & long-term — persistent storage I	<ul> <li>Social cognition (recognising emotion of others, how you deal with others, imagine what someone else might be thinking or feeling etc)</li> </ul>	Age-related cognitive decline		
			Evidence:> began in 1956Seattlefocusing upon ageLongit-changes inudinalcognitive abilities		
	<ul> <li>Language (ability to understand &amp; express thoughts)</li> <li>Attention (conce- ntration, allows you</li> </ul>	Cognitive impairment Terms	Study:		
		Dementia		➢ on multiple measures – • 80% of participants	not reversible, you can train them but they won't get better. Progressive the client gets worse
		Alzheimer's			
		Major neuro-cognitive disorder (NCD)	showed little decline – 60 y.o. •	showed little	
	to focus on) <ul> <li>Executive</li> </ul>	Alzheimer's is the most common dementia			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 behaviour, problem solving, planning & strategy)	Many people use major neuroc- ognitive disorder instead of saying dementia	Memory: decreases		
				<ul> <li>substantial, beginning in early adulthood and affecting everyone?</li> </ul>	
			Speed: decreases	<ul> <li>learning, proces- sing, problem-s-</li> </ul>	

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

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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 commun-
- ication 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