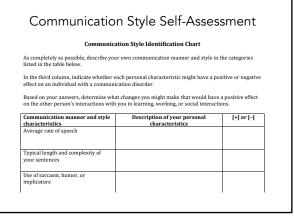




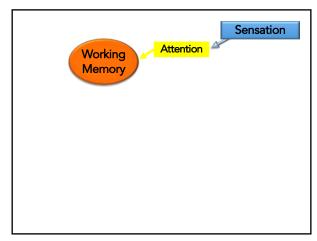
- Summarize common cognitive impairments in individuals with stroke/acquired brain injury (ABI), across severity levels and stages of recovery.
- Identify practical strategies to work effectively with patients with stroke/ABI-related cognitive impairments.
- Critique your own style of interacting with patients with cognitive impairments, and generate one personal interaction goal to attempt on your next work day.





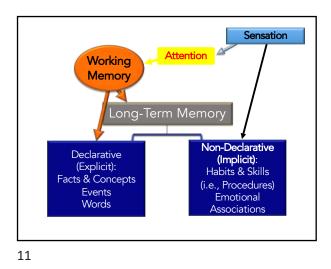


- Memory
- Executive functions
- Social cognition

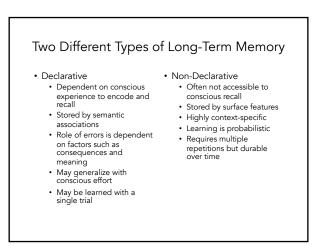


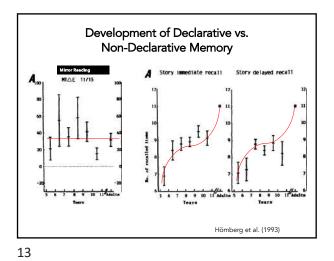
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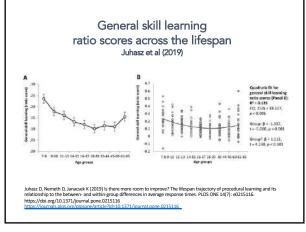








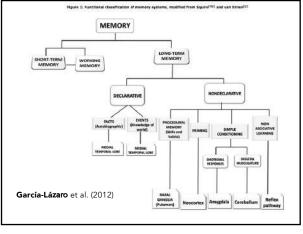




In everyday cognition, LTM types are difficult to dissociate...

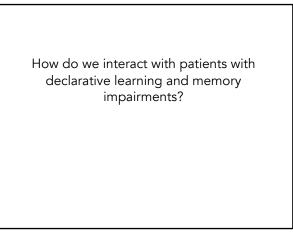
Task	Learn it?	Know it?
Saying "please"		
Knowing that "How's it going?" is an acceptable greeting		
Answering a phone and taking messages		
Behaving appropriately in a zoom webinar		

15



17

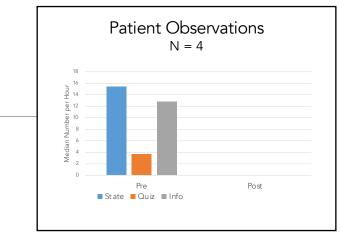
## In patients with stroke and other etiologies of ABI... • *Declarative* learning often impaired • *Non-declarative* learning mostly preserved Why?



Seminars		och an	Valitchka & Turkstra Seminars in Speech and Language (2014)					
	x	в	Participants	- D-	- E			
Questions asked	46	31	21	48	47			
Questions with verifiable	28	17	13	29	34			
answers	(60.9%)	(33.3%)	(61.9%)	(60.4%)	(72.3%)			
Answers verified as correct	17	H.	1	19	24			
	(60.71%)	(61.1%)	(7.7%)	(65.5%)	(70.6%			
Answers verified as	11	6	12	10	10			
incorrect, questions with no	(39.3%)	(35.3%)	(92.3%)	(34.5%)	(29.4%			
response, or "I don't know"								
answers								
Incorrect answers	7	3	9	5	4			
immediately corrected by	(63.6%)	(50%)	(75%)	(50%)	(40%)			
communication partner								

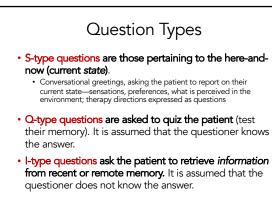


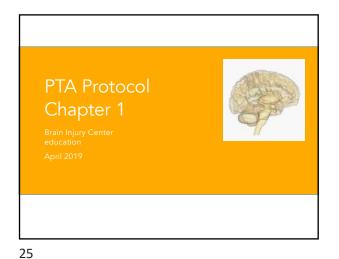






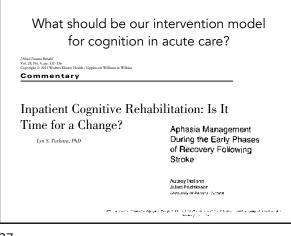
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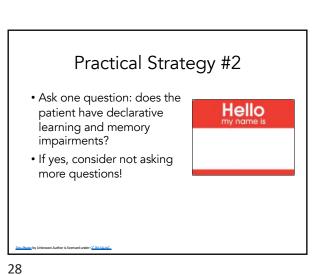


Patient Observations N = 4JnoH 14 ່ອ 12 10 Number 8 Andian Pre Post State Quiz Info

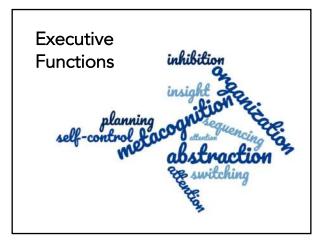
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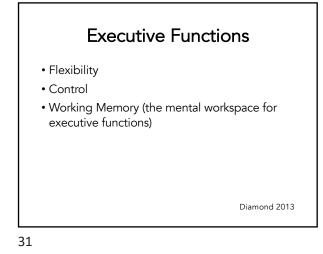


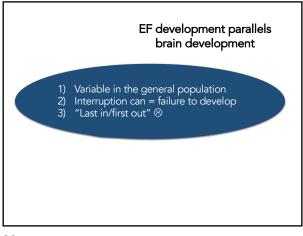


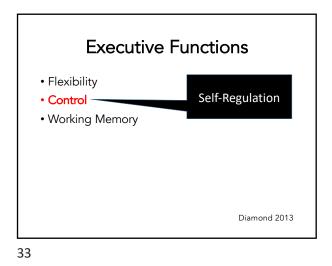
Practical Strategy #3 If the patient has declarative learning and memory impairments and is having "a bad day", consider non-declarative emotional associations: How did the patient form them, and how can you form positive emotional associations?



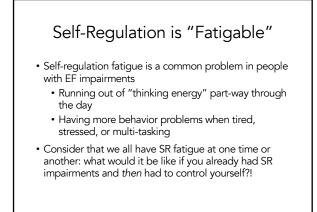
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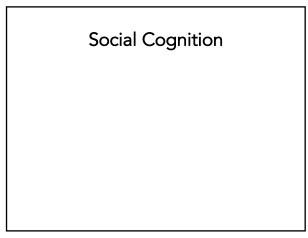


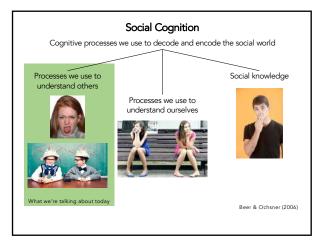


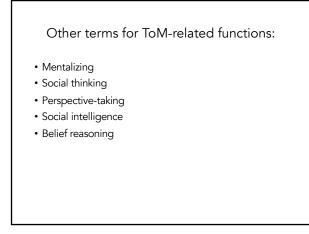




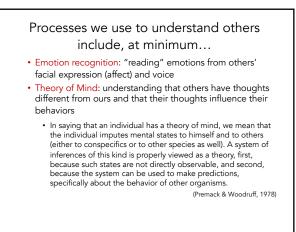


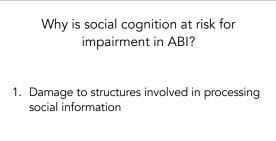












## Why is social cognition at risk for impairment in ABI?

2. Damage to structures that support information processing in general, including social information

How Do We Test Emotion Recognition? The Karolinska Directed Emotional Faces (KDEF). Lundquist D, Flykk A, Ohman A. Stockholm Sweden: Department of Clinical Neuroscience, Psychology section, Karolinska Institute; 1998.

Emotion Recognition in TBI

TD -TBI

100

80

• Estimated that about 30% of adults with moderatesevere TBI have impairments in emotion recognition

60

Rigon, Turkstra, Mutlu, & Duff (2017) N = 102

More information ≠ better performance

40

20

16 12

8

4 0

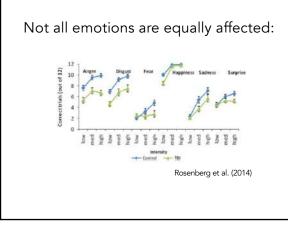
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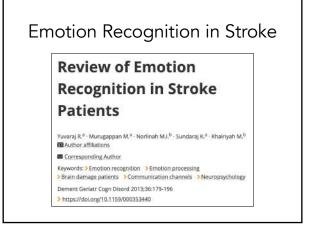
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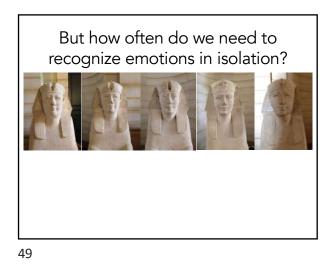


Happy, Sad, Surprised, Angry, Fearful, Disgusted

45

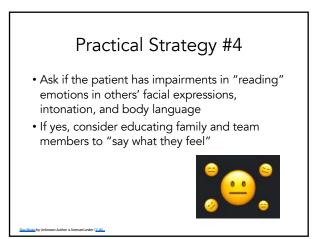




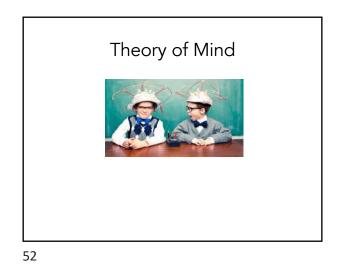


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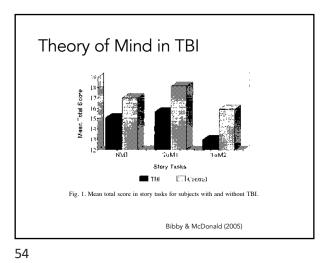
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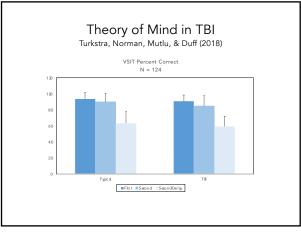


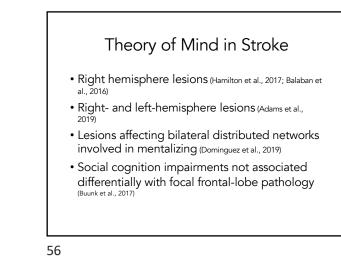
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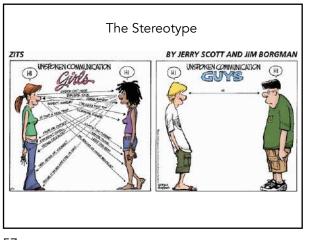


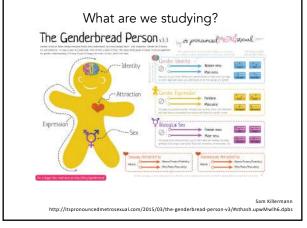
Prototypical ToM Task is False Belief Sally-Ann Story Baron-Cohen (2001)

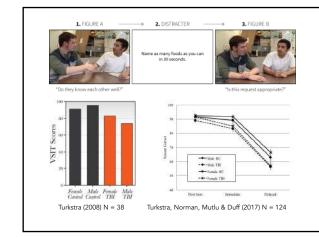




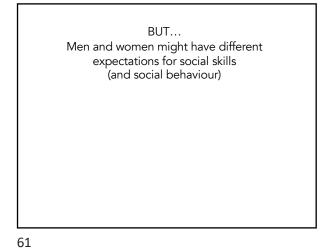






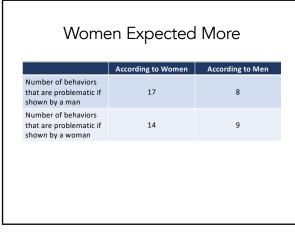


5e≭ The Data (so far) 

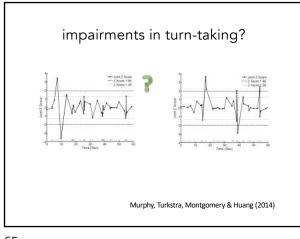


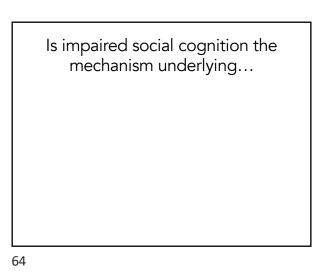
La Trobe Communication Questionnaire Please answer the following questions about \_ behaviors <u>before</u> the TBI and <u>now.</u> 's communication Before the TBI Rarely/Never 2=Some Now =Sometimes =Usually/Always When talking to others, how often does you child: eave out important detai Use a lot of vague or empty words such as 'you know what I mean' instead of the right word Go over and over the same ground in conve Switch to a different topic of conversation too quickly ng time to think before an other person Find it hard to look at the other speake Have difficulty thinking of the particular word Douglas, J., O'Flaherty, C., & Snow, P. (2000)

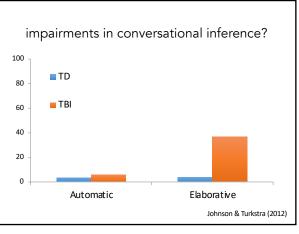
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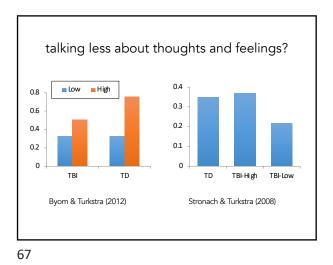


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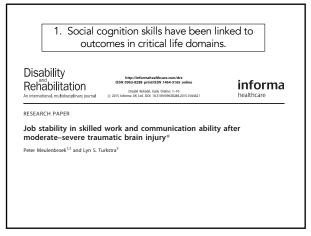




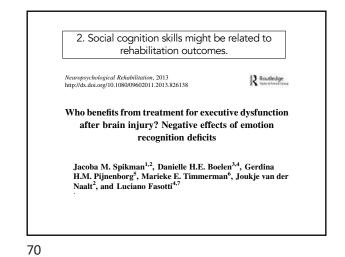


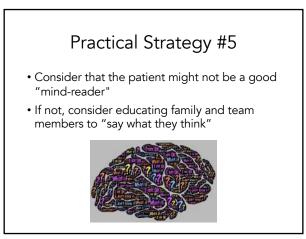
Why does social cognition matter in TBI rehabilitation and beyond?

68

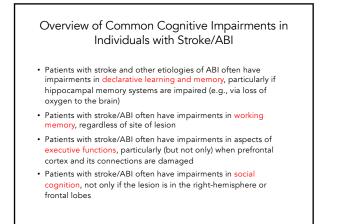


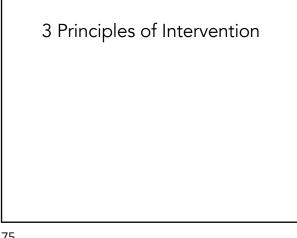


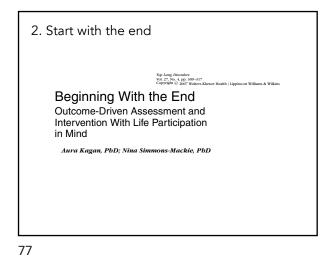


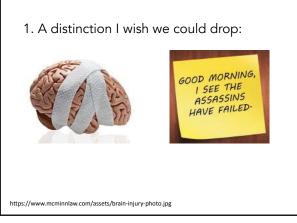








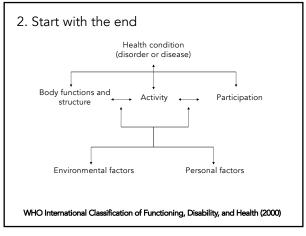


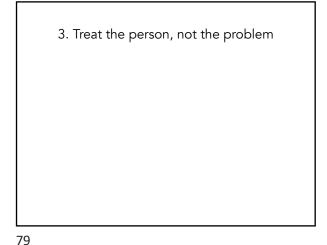


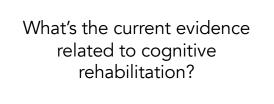
So what are we going

to do about it?



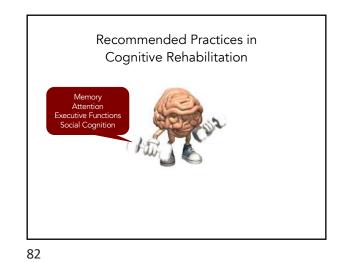






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Recommended Practices in Cognitive Rehabilitation Amazing, with the caveat that learning is probabilistic and context specific

