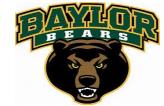


The results from other descriptive and outcome variables were

compared across three tests (Pre vs. Post-Treatment 1 and 2).

## A feasibility study of Story Retelling Therapy

## Hyunsoo Yoo, Taylor Graves, Annalyn Harrington



Story Retelling Therapy (SRT) improved discourse informativeness and aphasia severity in an individual with mild aphasia, with effects sustained and enhanced at

recovery, warranting further validation in larger, controlled studies.

follow-up. These findings suggest that SRT may support both linguistic and cognitive

Department of Communication Science and Disorders, Baylor University, Waco, TX, US

Introduction	Method				Results
poken discourse is essential for daily communication but	<u>Structures of Story Retelling Therapy (SRT)</u> SR treatment was				Figure 1. Total Information Units (IUs)
ften remains impaired in individuals with post-stroke aphasial xisting treatments (e.g., CIAT, TUF, SFA, ORLA, Script Therapy)	provided for one hour per session. Each session utilized each				140 .20 120
nainly target word/sentence-level skills and show limited	story out of nine stories (SRP B/C/D categories: three stories				5 100 00 80
eneralization to real-life discourse (Goral & Kempler, 2009;	each; <a href="https://computerizedrevisedtokentest.com/srp-">https://computerizedrevisedtokentest.com/srp-</a>				00 00 00 00 00 00 00 00 00 00 00 00 00
Aurray et al., 2007; Peach & Reuter, 2010; Cherney et al.,	stories/). The overall procedures and structure of the 1-hour				15 20 0
008).	Story Retelling Therapy (SRT) sessions are presented in Tables				Pre Post1 Post2  ■Total 91 102 116
Discourse Therapy in Aphasia Research: Script Therapy (Chemey	2 and 3.				Figure 2. Within Session Pre-Post Information Units (IUs)
t al., 2008; Chemey & Halper, 2008; Lee et al., 2009), Modified	Table 1. Participant Information				120
ET (Wambaugh et al., 2013), Personal Narrative Treatment	Age 70			70	100
Hoover et al., 2015), NARNIA (Whitworth et al., 2015)	Gender			Female	80
These therapies promote naturalistic communication,	Years of Education		17	60 40 20	
increasing real-world applicability. However, most impose low	Post-Onset Time (POT)		34 months	20	
verbal working memory demands due to structured, visually	Post-Onset Time (POT) 34 months			34 1110111113	0 1 2 3 4 5 6 7 8 9
supported tasks.	Table 2. Treatment Timeline and Assessment Schedule				Figure 3. Story Percentage and %IU/Min
raditional therapies often overlook verbal working memory, a	Test1: Pre-	SRP Treatment	Test2: Post-	Test2: Post-test2	1 1 0.9
ey factor in discourse production (Cahana-Amitay & Jenkins,	test		test1		0.8
018; Yoo et al., 2019).	SRP-A (Main	1 hour of story retelling therapy	SRP-A (Main Variable)	SRP-A (Main Variable)	0.6
Story Retelling Therapy (SRT) engages verbal working	(Maiii Variable)	using SRP B/C/D	MOCA	MOCA	0.4
memory by requiring participants to listen to a story and	WAB-R	(9 stories)	WAB-R	WAB-R	0.1
retell it from memory.	MOCA	Total 9 sessions	WM	WM	Pre Post1 Post2  Story Percentage 0.61 0.69 0.8    % Us/Min 0.48 0.87 0.66
Compared to visually supported tasks (e.g., picture	WM				
description), SRT imposes higher cognitive load, better	1 day	About 3 weeks	1 day	1 day	Figure 4. Working Memory Spans
simulating natural communication (Brodsky et al., 2003).				(After 7 weeks from Test2)	4.2
hus, SRT uniquely stimulates verbal working memory, making		_		Hom restzy	4.1
t cognitively distinct among discourse-level interventions.	Results				3.9
he purpose of the current study was twofold:	☐ Information Units (IUs): +12.00% increase from pre-test to post-test 1 (SRP-A) Additional +13.73% increase from post-test				3.8
to assess the feasibility of story-retelling therapy (SRT) in					3.6
individuals with very mild aphasia, and		t 2, +78.4% averag	e IU increase acr	oss 9 treated	Pre Post1 Post2
to preliminarily explore changes in verbal working memory	stories (SRP-B/C/D) (Figure 1)  Changes in the total number of Information Units (IUs) produced before (Pre) and after (Post) each treatment session				Figure 5. Pre- and post-test comparisons of Aphasia Quotient (AQ) sco
performance following SRT and their possible relation to					97
discourse improvements.	•	efore (Pre) and afto	er (Post) each tre	atment session	95
Method	(Figure 2) ☐ %IUs per minute (informativeness + efficiency):Increased				Q 93
					92
ticipants One individual with anomic aphasia participated	81.25% from 0.48 to 0.87 (pre-test → post-test 1)Decreased 24.14% to 0.66 by post-test 2 (Figure 3)  ☐ Working Memory (composite score):Slight dip: 4.13 → 3.75, then rebound to 4.25 (Figure 4)				90 Pre Post1 Post2
his study (Table 1). The participant met the study's inclusion					■AQ 92.7 94.8 96.4
exclusion criteria. <i>Outcome Variables</i> The main outcome					Discussion and Conclusion
riable (Table 2) is the results of the Story Retelling WAB-R Aphasia Quotient (AQ): $92.7 \rightarrow 94.8 \rightarrow 96.4$ (Pre-				3 → 96.4 (Pre →	
cedures (SRP)-A type (Information Units/minutes: IUs/min).	Post1→Post 2) => Reached normal range by post-test 1 (Figure 5)				Story Retelling Therapy (SRT) improved discourse informativeness and aphasia

 $\square$  MoCA (cognitive screening): Modest improvement:  $20 \rightarrow 21$ ,

then stable