

City Research Online

City, University of London Institutional Repository

Citation: Caute, A., Woolf, C., Wilson, S., Stokes, C., Monnelly, K., Cruice, M., Bacon, K. & Marshall, J. (2019). Technology-Enhanced Reading Therapy for People With Aphasia: Findings From a Quasirandomized Waitlist Controlled Study.. Journal of Speech, Language, and Hearing Research, 62(12), pp. 4382-4416. doi: 10.1044/2019 jslhr-l-18-0484

This is the accepted version of the paper.

This version of the publication may differ from the final published version.

Permanent repository link: https://openaccess.city.ac.uk/id/eprint/23328/

Link to published version: https://doi.org/10.1044/2019 jslhr-l-18-0484

Copyright: City Research Online aims to make research outputs of City, University of London available to a wider audience. Copyright and Moral Rights remain with the author(s) and/or copyright holders. URLs from City Research Online may be freely distributed and linked to.

Reuse: Copies of full items can be used for personal research or study, educational, or not-for-profit purposes without prior permission or charge. Provided that the authors, title and full bibliographic details are credited, a hyperlink and/or URL is given for the original metadata page and the content is not changed in any way.

City Research Online: http://openaccess.city.ac.uk/

publications@city.ac.uk

Table 1: Participant Details, Mean (S.D.), CAT: Comprehensive Aphasia Test; CLQT: Cognitive Linguistic Quick Test composite severity rating; RCBA-2 Reading Comprehension Battery in Aphasia

	Immediate Group (N = 11)	Delayed Group (N = 10)	Total (N = 21)
Gender	8 men; 3 women	6 men; 4 women	14 men; 7 women
Age (years)	55.4 (10.5)	56.2 (13.9)	55.8 (11.9)
Years in education	14 (2.93)	13.6 (3.34)	13.8 (3.06)
Time Post Stroke (months)	73.9 (53.5)	47 (36.35)	61 (47)
CAT Screening Score*	123.18 (39.32)	140.44 (23.15)	130.95 (33.42)
CLQT Score	2.75 (.89)	2.60 (.84)	2.68 (.85)
Score range: 1.0-4.0			
RCBA-2 (Time 1)	74.55 (20.15)	76.90 (16.11)	75.67 (17.93)
Score range: 0-100			

^{*}The CAT screening score was used as an indicator of aphasia severity and was derived by adding participants' scores for subtests 7, 8, 12, 13, 17 & 19, which assessed single-word level auditory and reading comprehension, naming, spoken picture description and repetition. Subtest 19 (spoken picture description) had no maximum score. Mean score was 22.6, range 3-41. The total maximum score for the remaining subtests was 146.

Table 2: Gray's Oral Reading Test (GORT-4); Mean Scores (S.D.) at Times 1-4 on Form A (technology assisted) and Form B (technology unassisted). Maximum score= 70.

	Time 1		Time 2		Time 3*		Time 4#	
	Form A	Form B						
Immediate	16.64	15.82	26.45	16.64	29.70	16.56		
group	(15.81)	(17.40)	(18.63)	(17.48)	(15.32)	(18.34)		
Delayed	18.90	11.20	21.70	24.50	29.50	17.40	39.20	20.44
group	(17.77)	(7.45)	(18.80)	(21.23)	(17.61)	(15.55)	(18.38)	(19.93)

^{*}Immediate group N=9 at T3; #Delayed group N=9 at T4

N.B. Time 2 is post-therapy for Immediate group and 2nd pre-therapy baseline for Delayed group. Time 3 is follow-up for Immediate group and post-therapy for Delayed group. Time 4 is follow-up for Delayed group.

Table 3: Gray's Oral Reading Test (GORT-4); Mean Scores (S.D.) at Pre Therapy, Post Therapy and Follow up, on Form A (technology assisted) and Form B (technology unassisted) for Immediate and Delayed groups combined. Maximum score= 70.

Pre Therapy		Post Therapy		Follow Up	
Form A	Form B	Form A	Form B	Form A	Form B
17.67	19.72	28.83	15.94	33.50	18.50
(16.58)	(20.10)	(17.75)	(16.83)	(17.77)	(18.68)

N = 18 owing to missing follow up data for three participants

N.B. Pre therapy scores: T1 for Immediate group and T2 scores for Delayed. Post therapy scores: T2 for Immediate and T3 for Delayed. Follow up scores: T3 for Immediate and T4 for Delayed.

Table 4: Reading Comprehension Battery for Aphasia (subtests 7-9); Mean Scores (S.D.) at Times 1 - 4. Maximum score= 30.

	Time 1	Time 2	Time 3*	Time 4
Immediate	19.55 (8.69)	20.27 (7.90)	18.90 (8.61)	
Group				
Delayed	19.80 (7.86)	19.80 (7.35)	22.67 (6.48)	22.00 (6.39)
Group				

^{*}N=19, missing data for one participant in the immediate group and one in the delayed group N.B. Time 2 is post-therapy for Immediate group and 2nd pre-therapy baseline for Delayed group. Time 3 is follow-up for Immediate group and post-therapy for Delayed group. Time 4 is follow-up for Delayed group.