Validation of an IPAD based therapy for language and cognitive rehabilitation in individuals with brain damage
Swathi Kiran, Carrie Des Roches, Isabel Balachandran, Elsa Ascenso
Department of Speech, Language, and Hearing Sciences, Boston University

INTRODUCTION
Individuals with language and cognitive deficits following brain damage likely require long-term rehabilitation. Consequently, it is a huge practical problem to provide the continued communication therapy that these individuals require. In the present project, a large scale phase I clinical efficacy study was conducted to examine rehabilitation outcomes in patients who received continuous and self-paced rehabilitation language and cognitive program using iPads.

RESEARCH QUESTIONS
Question: Does a structured therapy program that includes homework practice delivered through an IPAD result in significant gains in overall communication? We used Constant Therapy (www.constanttherapy.com) as the software platform.

TASK WORKFLOW

Overall patient performance on accuracy and latency relative to population mean

RESULT 1: Experimental patients practiced therapy an average of 4.2 hr. week. Control patients practiced approximately 1 hr. week.

RESULT 2: Mixed logistical regression models show significant improvements over time for 13/25 therapy tasks even when the effect of language severity (WAB AQ) and cognitive severity (CLQT composite) are taken into account.

REFERENCES AND EVIDENCE FOR TREATMENT

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