



Safety and Tolerability of Transcranial Direct Current Stimulation for Persons

With Aphasia: A Randomized Controlled Pilot Trial

Swathi Chinnasamy¹, Satyapal Puri Goswami²



INTRODUCTION	METHOD	
Aphasia- a neurogenic communication disorder	Design: Double- blinded RCT Participants: 10 PWA: Group I Active; Group II	
tDCS- An adjunct technique for SLT	pilot Sham)	
RCT shows efficacy of tDCS for PWA	Screening for tES; Sensation measures (Antal et al., 2017); tDCS + SLT (1 hour): 1mA; 20 minutes; Anode:	
NEED FOR THE STUDY	Wong Baker pain Left IFG; Cathode: CSOR; 15 days	
Lack of quantitative measures for safety (Han et al., 2024) No RCTs specifically on safety and tolerability	Analysis: Average, descriptive statistics; effect size and sample estimation	
No studies in the Indian context (Sun	RESULTS & DISCUSSION	
et al., 2024) AIM	Tests Active Sham Cohens d	

	•
e:	
	•
	•
	•
	•
1	•
	CO
	• t]
	W
	• T

Tests	Active	Sham	Cohens of
Sens ation	M=0.18 SD = 0.10	M=0.10 SD = 0.68	d=0.88 (large)

- No significant difference in WB, p =.756
- No significant difference between groups across sensations (all p > .05)
- Mild symptoms with no serious adverse events.
- Tingling and pricking = more common in both groups
- Sensation -anode electrode
- Sensation at the beginning
- Sample size:44 (22 per Group)

NCLUSION REFERENCES

- DCS-Safe and vell-tolerable
- To plan larger RCT

- To find the safety and tolerability of tDCS combined with SLT in PWA
- Wong M=1.49M=1.77d=-0.20Baker SD= SD=1.78(small) (WB) 1.04