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FULL DETAILS (Read-only)

CTRI Number		CTRI/2019/09/021270 [Registered on: 17/09/2019] Trial Registered Prospectively						
Last Modified On:	14/09/2019							
Post Graduate Thesis	Νο							
Type of Trial	Interventional							
Type of Study	Physiother	Physiotherapy (Not Including YOGA)						
Study Design	Randomized, Parallel Group, Active Controlled Trial							
Public Title of Study	Electrical brain stimulation along with physical therapy effect on improving function in patients with sub-acute stroke							
Scientific Title of Study	Transcranial direct current stimulation combined with trunk targeted proprioceptive neuromuscular facilitation and its effects on impairments, activity limitations and participation restrictions of subjects with sub-acute stroke: A randomized controlled trial							
	Seconda	y ID	Registry					
Secondary IDs if Any	NIL	-	NIL					
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	Name	Ajay Kumar Midde						
Details of Principal Investigator or overall Trial Coordinator	Address	Department of Physiotherapy, Krishna Institute of medical Sciences, Ministers road, Secunderabad						
(multi-center study)	Phone	00919908167776						
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	Phone	00919908167776						
	Fax							
	Email	ajaymidde85@gmail.com						
Details Contact Person Public Query Modification(s)	Name	Ajay Kumar Midde						
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		Hyderabad TELANGANA						

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Agent	Comparate Agent	F	r Conventional Physical Therapy		In this group, the total intervention will be for one and a half hour. Muscle elongation exercises for tight muscles, strengthening exercises for weak muscles, weight-bearing and shifting in sitting and standing,				
/ Problems Studied Intervention / Comparator	Туре	Name			Details				
	Patients Cerebral infarction, unspecified								
Health Condition	Health Type				ndition				
Clearance Status rom DCGI	Not Applicable								
Committee Regulatory	Status								
	Ethics Committee for Scientific Research Approved						oved		
Details of Ethics	No of Ethics Committees= 1 Name of Committee Approval Status						roval Status		
				No	of Ethics Committees= 1				
Sites of Study Modification(s)	Dr Jaya Shanker Tedla			Department of Physiotherapy, 2nd floor, New Building, Minis Road, Secunderabad Hyderabad			7674897379 jtedla@kku.edu.sa		
	Contact Person	Nar	ne of Site	Si	Site Address		Phone/Fax/Email		
	No of Sites = 1								
Countries of Recruitment	India Saudi Arabia								
Sponsor	NIL								
Details of Secondary	Name Address								
	Type of Government medical college								
Primary Sponsor	Address		C/3/108, Building C, Guraiger, King Khalid University, Abha, Kingdom of Saudi Arabia						
	Name		King Khalic	d Ur	niversity				
Source of Monetary or Material Support Modification(s)					litation Sciences, College o d University, Abha, 61421,				
		ajaymidde85@gmail.com							
	Fax Email								
	Phone 00919908167776								
	500003 India								

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			range of motion exercises and gait training activities.	
	Intervention	Conventional Physical Therapy, Trunk targeted proprioceptive neuromuscular facilitation (PNF)	commands, vision, traction/approximation, stretch, timing, and repetitions. Trunk chopping and lifting	
	Intervention	Trans Cranial Direct Current Conventional Physical therapy , Stimulation with Trunk targeted and Proprioceptive Neuro muscular facilitation	In this group, the total intervention will be for one and a half hour. It includes 40 minutes of Conventional Physical Therapy, 30 minutes trunk targeted PNF and 20 minutes tDCS. Details of tDCS are provided below. tDCS treatment parameters Machine used Neuro-Conn DC stimulator plus or Sotirex tDCS machine Montage basis International EEG 10 – 20 system Software used to test montage Bonsai—Model Solution Analyzer Montage used Bicephalic Montage Anode on affected side C3-C4 Cathode on unaffected side C3-C4 Pad size 5X5 cm The intensity of the current 2 mA Duration of treatment 20 min Number of sessions per week 4 Total number of treatment weeks 6 Total number of session 24	
	Age From	18.00 Year(s)		
	Age To	75.00 Year(s)		
Inclusion Criteria	Gender Both			
	Details	 Age range 18 First-time su Between 7 d 	8-75 years pratentorial stroke diagnosed by MRI/CT scan ays to 6 months post-stroke rstand and follow the commands	
ExclusionCriteria	2. H Details 3. A neu	Any metals in the cranium/ cochlear implants/ cardiac pacemakers Having an unstable epileptic disorder Associated comorbid diseases like cancer/ HIV/Hepatitis or any other euromuscular disorders which affect the subjects capability to do cercise		
Method of Generating Random Sequence	Stratified block randomization			
Method of	Sequentially numbered, sealed, opaque envelopes			
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CTRI Concealment Blinding/Masking Participant, Investigator and Outcome Assessor Blinded Outcome **TimePoints** 1. Trunk impairment scale measures trunk activity and measured as a clinical test 2. Fugl-Meyer Assessment of Motor Recovery after stroke (FMA) measures upper and lower limb activity and measured as a clinical test 3. 10 Meter Walk Test (10mWT) measures gait Baseline and **Primary Outcome** speed and measured as a clinical test 4. Timed up and go test after 6 measures balance and gait activity weeks 5. Wolf Motor Function Test measures upper limb activity and measured as a clinical test Stroke Specific Quality of life **TimePoints** Outcome Secondary 1. Age 2. Gender 3. Stroke Onset 4. These secondary outcomes required only Outcome Type of Stroke 5. Severity of Stroke 6. for doing correlations they are obtained Modification(s) Type of Treatme on week one. **Target Sample** Total Sample Size="54" Size Sample Size from India="27" Modification(s) Phase of Trial Phase 1/ Phase 2 **Date of First** 17/09/2019 Enrollment (India) **Date of First** 17/09/2019 Enrollment (Global) Years="0" **Estimated** Months="10" **Duration of Trial Days=**"0" Recruitment Status of Trial Not Yet Recruiting (Global) Modification(s) Recruitment Status of Trial Not Yet Recruiting (India) **Publication** Nil Details Modification(s) **Brief Summary** Background and study aim: Stroke is the foremost cause of death and disability throughout the world. Combining the neuromodulation capability of Transcranial Direct Current Stimulation (tDCS) with a strong clinical treatment tool like Proprioceptive Neuromuscular Facilitation (PNF) could make excellent improvements in the lives of stroke population. tDCS is a non-invasive, painless brain stimulation treatment that uses direct electrical currents to stimulate specific parts of the brain. A constant, low-intensity current is passed through two electrodes placed over the head which modulates brain cell activity. PNF stretching is an advanced form of flexibility training. It involves the contraction and stretching

of muscles. Currently, there is dearth of literature pertaining to this combination of

tDCS with PNF in improving function and quality of life in subjects with subacute stroke. The aim of this study is to find the effect of tDCS combined with trunk targeted PNF on impairments, activity limitations and participation restrictions of subjects with sub-acute stroke Who can participate? Stroke patients aged between 18-75 years who meet the inclusion criteria What does the study involve? The participants undergo some evaluations, tDCS, and physical exercise treatments over a six week period. What are the possible benefits and risks of participating? There is a possibility that the patient functional capacity will improve and there is no critical risk of participating in the study Some subjects can feel some fatigue after the exercise Where is the study run from? King Khalid University, Saudi Arabia When is the study starting and how long is it expected to run for? May 2019 to May 2020 Who is funding the study? Investigator-initiated and funded
Who is funding the study? Investigator-initiated and funded Who is the main contact? Dr. Jaya Shanker Tedla jtedla@kku.edu.sa