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Desearchers have been exploring the brain structures involved in motor imagery for over two decades. Understanding brair plasticity a er stroke is important in developing rehab strategies. MI is a cognitive process in which a subject imagines that he/she performs a movement without actually performing the movement and without ever tensing the muscles. MI involves activation of neural system while a person imagines performing a task or body. A plethora of neuroimaging studies have demonstrated that the cortical and subcortical regions activated during MI tasks substantially overlap with those involved in movement execution. Generally portions of cerebral cortex considered to be involved with motor control include the primary motor cortex (M1), supplementary motor area (SMA) and pee motor cortex (PMC). MI induced brain activity typically involves premofor, SMAs and PMCs. Objective was to evaluate e ect of MI on gait and balance in stroke patients and the design wa RCT. A total of 30 patients with gait and balance dysfunction a er rst ever stroke were randomly allocated to a motor imagery training group and a conventional group. MI group relieved 5 days each in 3 weeks mental practice followed by conventional therapy and control group relieved 5 days each in 3 weeks only conventional therapy/exercises. MI group was shown a vide showing normal movements before each session. Each week had a separate video comprising normal movements. Patier viewed and imagined the same. Videos were shown and repeated to help patients imagine the right and speci c movement in uencing their gait and balance. Motor imagery was evaluated based on questionnaire KVIQ and gait and balance were assessed based on tinetti performance oriented mobility assessment scale. MI was found signi cantly useful improving gait an balance in post stroke hemiparetic population.

Aparna Gupta is a dedicated PT with over 9 years of acute care experience with history of exemplary ratings on performance reviews. Her solid credentials that LQFOXGH OLFHQVXUH RI 37\$ IRU 1HZ <RUN 86\$ %/6 DQG OLIHVDYLQJ VHUYLFHV FHUWL; FDWLRQV DQG \$PLW\ 8QLYHUVLW\ +DV ZRUNHG ZLWK 0DQLSDO KRVSLWDO %DQJDORUH +RO\ IDPLO\ KRVSLWDO 'HOK 8QLYHUVLW\ DV DQ \$VVLVWDQW 3URIHVVRU LQ IDFXOW\ RI SK\VLRWKHUDS\ +HU DUHD RI ZRUN LQFOXGH versed in broad range of PT programs, treatments and modalities, restoring function and mitigating disability in diseased and injured patients.

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