

Target Area: Sensory/ Perceptual/ Visiospatial > Neglect/ Inattention

<p>Koch, Bonni, Giacobbe et al. (2011). <i>Neurology</i> 78: 24-30.</p>	<p>PEDro score: 8/10</p>
<p>Method/Results</p>	<p>Rehabilitation Program</p>
<p>Design</p> <ul style="list-style-type: none"> ➤ Study Design: RCT ➤ Population: Subacute ischemic stroke patients ➤ Groups: <ol style="list-style-type: none"> 1. Treatment (n=9) – received cTBS over left PPC, along with standard cognitive rehabilitation 2. Control (n=9) – received sham cTBS over left PPC, along with standard cognitive rehabilitation ➤ Setting: Neurorehabilitation unit <p>Primary outcome measure:</p> <ul style="list-style-type: none"> ➤ Behavioral Inattention Test (BIT) <p>Secondary outcome measure:</p> <ul style="list-style-type: none"> ➤ Paired-pulse TMS technique to measure MEP amplitude before and after cTBS intervention (measure of changes in functional connectivity/excitability between PPC and M1). <p>Results:</p> <ol style="list-style-type: none"> 1) cTBS intervention produced improvements in visuospatial neglect, both immediately after the 2 week treatment period, and at follow-up a further 2 weeks later. 2) cTBS intervention reduced PPC-M1 functional connectivity/excitability, both immediately after the 2 week treatment period, and at follow-up a further 2 weeks later. 	<p>Aim: To investigate whether continuous theta-burst stimulation aids recovery from visuospatial neglect in subacute stroke patients</p> <p>Materials: Magnetic stimulators.</p> <p>Treatment Plan:</p> <ul style="list-style-type: none"> ➤ Duration: 10 days (Mon-Fri for 2 weeks); 20 sessions in total. ➤ Procedure: <ul style="list-style-type: none"> ○ 2 sessions per day, with interval of 15mins. ➤ Content: <ul style="list-style-type: none"> = Treatment: Received 3-pulse bursts at 50Hz, every 200ms, for 40s (600 pulses in total). Delivered at 80% of active motor threshold, over left PPC. = Sham: As above, except that coil was angled at 90°, so that stimulation was directed away from scalp whilst still ensuring “the same acoustic sensation as for real TBS”.