

Author Year Country PEDro Score Research Design Total Sample Size	Methods	Outcome
Middaugh et al. 2013 USA RCT PEDro=5 N=15	<p>Population: Mean age=38yr; Gender: males=12, females=3; Level of injury: paraplegia=13, quadriplegia=2; Mean time post injury=16yr; Type of pain: musculoskeletal (cervical and shoulder).</p> <p>Treatment: Individuals using wheelchairs were randomized to an exercise program alone (control, n=7) or with EMG biofeedback (treatment, n=8). Exercise programs were taught in two 90min sessions and were to be performed at home (1x/d, 5d/wk, 10wk). EMG biofeedback training was provided in 4 sessions (90min). Outcomes were assessed at baseline, 10wk, and 6mo.</p> <p>Outcome Measures: Wheelchair User Shoulder Pain Index (WUSPI).</p>	<ol style="list-style-type: none"> 1. The treatment group had a significant reduction in WUSPI score at 10wk ($\Delta=64\%$, $p=0.02$) while the control group did not ($\Delta=27\%$, $p=0.42$). 2. There were significant reductions in WUSPI score at 6mo in both the control group ($\Delta=63\%$, $p=0.03$) and treatment group ($\Delta=82\%$, $p=0.004$).
Jensen et al. 2009 USA RCT PEDro=5 N=37	<p>Population: Mean Age=49.6yrs; Sex: males=28, females=9. Type of pain=neuropathic</p> <p>Intervention: Participants were randomized to receive either hypnosis or biofeedback. Individuals receiving hypnosis underwent 10 sessions of training daily or weekly. While the biofeedback group received 10 sessions of Electromyography biofeedback.</p> <p>Outcome Measures: Numeric Rating Scale (NRS)</p>	<ol style="list-style-type: none"> 1. Individuals with neuropathic pain a significant decrease in daily pain intensity was seen in the hypnosis group post-session ($p<0.01$) but not the biofeedback group. 2. Neither treatment was effective in reducing pain for individuals without neuropathic pain.
Jensen et al. 2013 USA Pre-Post N=10	<p>Population: Mean Age=46.1yrs; Sex: males=7, females=3; Time since injury=12.3yrs Type of pain=neuropathic and musculoskeletal.</p> <p>Intervention: SCI individuals with chronic pain were provided with 4 sessions of electroencephalography (EEG) Biofeedback for pain management.</p> <p>Outcome Measures: Numeric Rating Scale (NRS)</p>	<ol style="list-style-type: none"> 1. Significant improvement in worst pain intensity ($p=0.01$) and pain unpleasantness ($p=0.026$) was seen post treatment and at 3 month follow up. 2. No significant improvement in average pain intensity or sleep was seen.