

Table 14. Mesenchymal Stem Cells Transplantation for Depression following SCI

<b>Author Year</b> <b>Country</b> <b>Research Design</b> <b>PEDro Score</b> <b>Total</b> <b>Sample Size</b>	<b>Methods</b>	<b>Outcome</b>
<a href="#">Yang et al. (2020)</a> China RCT Pedro=6 Level 1b N=68	<b>Population:</b> <i>Intervention group</i> (autologous Bone Marrow Mesenchymal Stem Cells (BMSCs) transplantation therapy; n=34): Mean age=35.29±8.04yr; Gender: males=27, females=7; Mean time post injury=Not reported; Level of injury: thoracic: 34; Severity of injury: AIS A= 22; AIS B= 7; AIS C=5; Depression status=moderate-severe as assessed by the Self rating Depression Scale	1. The SAS and SDS scores of BMSCs transplantation group after treatment were significantly lower than those of standard occupational therapy group (p<.001). 2. The SAS and SDS scores of BMSCs transplantation group and standard occupational therapy group post treatment were significantly lower than

	<p><i>Control group</i> (standard occupational therapy, n=34): Mean age=34.67±7.59yr; Gender: males=26, females=8; Mean time post injury=not reported; Level of injury: thoracic=34; Severity of injury: AIS A= 20; AIS B= 9; AIS C=5; Depression status=moderate-severe as assessed by the Self rating Depression Scale.</p> <p><b>Intervention:</b> Participants were randomized to receive Bone Marrow Mesenchymal Stem Cells (BMSCs) transplantation or standard occupational therapy. The BMSCs transplantation therapy group received 2x Bone Marrow Mesenchymal Stem Cells transplant 10d apart in addition to rehabilitation services for 1mo. The standard occupational therapy group received both physiotherapy and occupational therapy services for 1mo. Outcome measures were assessed before and after treatment.</p> <p><b>Outcome Measures:</b> American Spinal Injury Association (ASIA) scores, Motor and sensory function using the muscle strength grading standard and sense of pain and tactile sense, Self-rating Anxiety Scale (SAS), Self-rating Depression Scale (SDS)</p>	<p>those before treatment (p&lt;.001).</p>
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