Comparison of the effect of two different spinal orthosis on respiratory movements in individuals with CP and scoliosis

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The Respiratory movement measurement instrument, ANDRI was used to compare the effect of two different spinal orthosis, a modified soft Boston orthosis (MBO) and a new type of thoracic-lumbar-sacral-orthosis (NTLSO), on respiratory movements in individuals with Cerebral palsy and scoliosis.

Results: Respiratory movements are severely restricted in MBO. In NTLSO, respiratory movements increased compared to MBO. Individuals wearing NTLSO showed less respiratory effort than in MBO.

Conclusion: There is a significant difference in respiratory movements between MBO and NTLSO.