A service of the <u>U.S. National Library of Medicine</u> and the National Institutes of Health

My NCBI
[Sign In] [Regis

Al	Databases	PubMed	Nucleotide	Protein	Genome	Structure	OMIM	PMC	Journal	
Search	PubMed	for				Go	Clear	Advanced Se	earch (beta	
Limits	Preview/Indo	ex History	Clipboard	Details						
Display	AbstractPlus		Show	20 Sort By	Send to					
All: 1	Review: 0									
1: Stud Health Technol Inform. 2008; 140: 307-9.										

Do imbalance situations stimulate a spinal straightening reflex in patient with adolescent idiopathic scoliosis?

Romano M, Ziliani V, Atanasio S, Zaina F, Negrini S.

Italian Scientific Spine Institute, Via Bellarmino 13/1, 20141 Milan, Italy.

Correlation between balance and Adolescent Idiopathic Scoliosis (AIS) is still unclear. To identify the most useful type of physical exercises to be proposed for conservative treatment, is interesting to explore better this field. Our aim was to evaluate the changes of scoliosis curves in a group AIS patients while submitted to an unbalancing situation. We considered in a pre-post trial 14 AIS patients (46 curves), 12 to 15 years old, with 19.3+/-9.9 degrees Cobb curves. Assessment has been made using GOALS (Global Optoelectronic Approach for Locomotion and Spine), a non-ionising instrument that allow a 3D reconstruction of the spine. We evaluated the patients twice in a standardised standing position: on the floor, and on a sway bench. On the sway bench there was a statistically (but not clinically) significant reduction of the curves. This was confirmed considering the average of the curves of each patient, but not when considering the worst curve. Looking at the curves, 13% worsened and 33% improved, versus 14% and 43% respectively looking at the patients. We did not find similar reactions in all patients, but in general a spinal straightening reflex while on a sway bench appears. In any case these variations are of low degree.

PMID: 18810042 [PubMed - in process]

Display AbstractPlus Show 20 Sort By Send to

Write to the Help Desk

NCBI | NLM | NIH

Department of Health & Human Services

Privacy Statement | Freedom of Information Act | Disclaimer

Related Articles

End-growth results of bracing and exercises for adolescent it [Stud Health Technol Inform. 200

Assessment of curve flexibility in adolescent idiopathic scoliosis. [Spine. 200

Use of the scoliosis research society outcomes instrument to evaluate patient outco [Spine. 200]

Correlation of radiographic, clinical, and patient assessment of shoulder balance fc [Spine. 200

Lumbar pedicle screws versus hooks. Results ir double major curves in adolescent [Spine. 199

» See all Related Article: