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Threedimensional Analysis Of Spinal Deformities

To compare 3D postoperative deformity correction using two distinct commonly utilized techniques for the treatment of adolescent idiopathic scoliosis (AIS). AIS patients with major thoracic (Lenke 1-2) curves at two sites who underwent deformity correction via posterior spinal instrumented fusion

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using one of two distinct techniques were retrospectively reviewed.

Three-dimensional analysis of spinal deformity correction

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Threedimensional Analysis of Spinal Deformities, (Studies in Health Technology and Informatics) [D'Amico, M., Merolli, A., Santambrogio, G.C.] on Amazon.com. *FREE* shipping on qualifying offers. Threedimensional Analysis of Spinal Deformities, (Studies in Health Technology and Informatics)

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Ebook: Three Dimensional Analysis of Spinal Deformities Front Matter and Contents. Spinal deformities have a long history that scientifically begins in Hippocrates time even... An Example of 3D Imaging for Clinical Support " Bouclier Program ". B.

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Three Dimensional Analysis of Spinal Deformities

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Order Threedimensional Analysis of Spinal Deformities ISBN @ €143.00 Qty: Order Ebook Specific 3-D measurement techniques, based on optical or opto-electronic principles of image capture, can today provide a complete set of results to quantify, without any risk for the patient, the actual state of the rachis and the effects induced by the disease on the whole postural performance.

IOS Press

Purpose: Understanding how to classify and quantify three-dimensional (3D) spinal deformities remains an open question in adolescent idiopathic scoliosis. The objective of this study was to perform a 3D manifold characterization of scoliotic spines demonstrating thoracic deformations using a novel geometric and intuitive statistical tool to determine patterns in pathological cases.

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Classification of three-dimensional thoracic deformities

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In this study, we used 3-dimensional (3D) computed tomography (CT)-based imaging analysis to calculate the change in spinal canal length resulting from spinal deformity correction.

Three-Dimensional Computed Tomography Analysis of Spinal ...

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Introduction Scoliosis is a multifactorial three-dimensional (3D)

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spinal deformity that always involves elemental deformities in the three main planes: lateral curvature in frontal, anteroposterior (mainly lordotic) deviation in sagittal, and (very characteristically) vertebral axial rotation in the horizontal plane.

Breakthrough in three-dimensional scoliosis diagnosis ...

This volume covers the proceedings of the 2nd international symposium on three-dimensional scoliotic deformities. It covers topics such as: 3-D acquisition; reconstruction and modelling techniques; 3-D biomechanical analysis; and 3-D treatment of scoliosis.

Three dimensional analysis of spinal deformities (Book ...

The Pearson χ^2 test and Spearman analysis were used to determine the incidence of rib anomalies and spinal deformities, as well as the interaction between microtia and thoracic deformities. The differences with a P -value <0.05 were

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considered as statistically significant.

Three-dimensional chest computed tomography analysis of ...

Get this from a library! Three dimensional analysis of spinal deformities. [Michael D'Amico; A Merolli; G C Santambrogio; International Symposium on Three Dimensional Scoliotic Deformities\$ (2e); International Symposium on Surface Topography and Spinal Deformity\$ (8e : 1994 : Pescara, Italie);]

Three dimensional analysis of spinal deformities (Book ...

Abstract Current two-dimensional methods for quantifying scoliosis are inadequate. A radiographic method has been developed which determines the three-dimensional location and rotation of each vertebra. Posteroanterior and posterior oblique radiographs of the spine are obtained with the patient standing within a reference frame.

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A radiographic method for three-dimensional analysis of

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The standard clinical radiographs do not demonstrate the 3-D spinal shape, but a new self-calibration method recently proposed by Kadoury et al. , enables 3-D reconstruction from uncalibrated frontal and lateral X-rays, making it now possible to perform retrospective 3-D analysis. The basis of this new self-calibration employs identified anatomical landmarks on the patient's spine, in order to calibrate and subsequently reconstruct the spine in 3-D without the need of a calibration apparatus.

A three-dimensional retrospective analysis of the ...

It has been argued that use of these terms is misleading, since spinal deformity leads to a truly 3-D shape of the vertebral body line, and even a part of it cannot be adequately represented by a

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2-D plane.

Three-Dimensional Terminology of Spinal Deformity ...

Three-dimensional findings in congenital-deformed vertebrae included several types of laminae and clearer definitions of each type of anomalous vertebrae.

PubMed

Pearson $\chi(2)$ test and Spearman analysis were used to analyze the interaction between microtia and thoracic deformities.

RESULTS: With the 3-D chest CT images, a total of 68 cases (28.5%) were documented with thoracic deformities including 60 cases (25.1%) with rib anomalies, 20 cases (8.4%) with spinal deformities, and 12 cases (5.0%) with ...

Three-dimensional chest computed tomography analysis of ...

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Peter O Newton's 360 research works with 8,035 citations and 2,434 reads, including: Restoration of Thoracic Kyphosis in Adolescent Idiopathic Scoliosis over a Twenty-Year Period: Are We Getting ...

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