

Threedimensional Ysis Of Spinal Deformities Studies In Health Technology And Informatics

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Adolescent idiopathic scoliosis (AIS) is one of the most common childhood deformities worldwide, characterized by a 3D spinal deformity with unknown cause, and represents both an immediate medical ...

Towards a Comprehensive Diagnostic Assay for Scoliosis

The complex three-dimensional anatomy ... of a variety of other spinal operations. Case presentation. A patient with a severe lateral lumbar spine translational deformity. AP and lateral ...

Holographic Imaging in Spine Surgery: Overview and Clinical Applications

It really is advantageous when we are operating on complex problems and scoliosis deformity surgery ... better when we have three-dimensional O-arm® technology combined with the minimally invasive ...

Spinal Conditions: Which Procedure Can Benefit From O-arm® Imaging? - Dr. Kim

SeaSpine Holdings Corporation (NASDAQ: SPNE), a global medical technology company focused on surgical solutions for the treatment of spinal disorders, today announced the FDA 510 (k) clearance of its ...

SeaSpine Announces FDA 510(k) Clearance of 7D Surgical Percutaneous Spine Module for Minimally Invasive Surgery

Most spinal conditions don't require surgery ... Our spine surgeons are the first on the West Coast to use a form of augmented reality during surgery. The three-dimensional navigation system and ...

Orthopedic Spine Care

This system creates a three-dimensional model from a large number of two-dimensional X-ray images taken around a single axis of rotation. The high-resolution scanner can capture detail at 6 microns, ...

MicroCT Lab

Following serotonergic cell body quantitation and image acquisition of individual embryos, sequential 1 micron sections were captured and three-dimensional analyses were used to reconstruct and rotate ...

Polychlorinated Biphenyls (PCBs) Disrupt Development of the Serotonergic Nervous System in the Surf Clam Embryo

According to the latest study on "Pediatric Orthopedic Implants Market Forecast to 2027 - COVID-19 Impact and Global Analysis - by Type, Application, and End User," the market was valued ...

Pediatric Orthopedic Implants Market

The 7D FLASH Navigation System uses visible light to create a three-dimensional ... facilitate spinal fusion in degenerative, minimally invasive surgery (MIS), and complex spinal deformity procedures.

SeaSpine Announces FDA 510(k) Clearance of 7D Surgical Percutaneous Spine Module for Minimally Invasive Surgery

The 7D FLASH Navigation System uses visible light to create a three-dimensional ... spinal implants portfolio consists of an extensive line of products to facilitate spinal fusion in degenerative, ...

SeaSpine Announces FDA 510(k) Clearance of 7D Surgical Percutaneous Spine Module for Minimally Invasive Surgery

The 7D FLASH Navigation System uses visible light to create a three-dimensional ... spinal implants portfolio consists of an extensive line of products to facilitate spinal fusion in degenerative, ...

Current clinical orthopedic practice requires practitioners to have extensive knowledge of a wide range of disciplines from molecular biology to bioengineering and from the application of new methods to the evaluation of outcome. The biomechanics of and biomaterials used in orthopedics have become increasingly important as the possibilities have increased to treat patients with foreign material introduced both as optimized osteosynthesis after trauma and as arthroplasties for joint diseases, sequelae of trauma or for tumor treatment. Furthermore, biomaterial substitutes are constantly being developed to replace missing tissue. Biomechanics and Biomaterials in Orthopedics provides an important update within this highly important field. Professor Dominique Poitout has collected a series of high-quality chapters by globally renowned researchers and clinicians. Under the auspices of the International Society of Orthopaedic Surgery and Traumatology (SICOT) and International Society of Orthopaedic and Traumatology Research (SIROT), this book now provides permanent and specific access to the considerable international knowledge in the field of locomotor system trauma and disease treatment using the novel bioengineering solutions. This book covers both basic concepts concerning biomaterials and biomechanics as well as their clinical application and the experience from everyday practical use. This book will be of great value to specialists in orthopedics and traumatology, while also provide an important basis for graduate and postgraduate learning.

This edition covers both the adult and pediatric spine, provides more complete and detailed information on surgical techniques, and includes eminent neurosurgeons as section editors and contributors. (Midwest).

Written by an international, multidisciplinary group of experts, this volume is a definitive reference on all nonoperative aspects of the pediatric spine. Coverage begins with developmental anatomy, biomechanics, an in-depth review of imaging, and a detailed guide to patient evaluation. Subsequent sections cover all disorders affecting the pediatric spine--congenital and developmental abnormalities, traumatic injuries, inflammatory and infectious conditions, neoplasms and malformations, metabolic disease, and neuromuscular diseases. The contributors offer authoritative advice on the medical and/or surgical treatment options for each condition. Each chapter includes a comprehensive bibliography. Also included is a detailed appendix of radiographic measurements, classifications, and definitions. A Brandon-Hill recommended title.

This exciting new edition is a single-volume resource that spine surgeons can consult for a clear, comprehensive view of current options in instrumentation. The book presents in-depth discussions of all the systems used in spine surgery, by the authorities who developed these systems. The organization includes surgical anatomy, fusion techniques, and surgical indications. Biomechanics, surgical techniques, clinical outcomes and complications are also included.

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