

Free Papers and ePosters to be Presented at ICEOS 2023

Free Papers

Paper #1

3D Analysis on Changes in Spine Morphology of Early Onset Scoliosis Patients After Spring Distraction System Treatment

Presenting Author: Rene Castelein

Paper #2

Lessons Learned from 20 Years of History Using Vertical Expandable Prosthetic Titanium Rib (VEPTR) in Early Onset Scoliosis (EOS) Patients

Presenting Author: Norman Ramirez Lluch

Paper #3

Risk of Proximal Junctional Kyphosis After Revision of Growing Rod Constructs

Presenting Author: Chidebelum Nnake

Paper #4

Increased Thoracic Sagittal Spine Length Improves Pulmonary Function in Early-Onset Scoliosis

Presenting Author: Matt Holloway

Paper #5

Activity Capacity in Children with Early Onset Scoliosis Compared to Pulmonary Function (Spirometry) and Patient Reported Outcomes

Presenting Author: James Sanders

Paper #6

Documenting the Variation of Proximal Foundation Construct and Their Correlation with Unplanned Return to the Operating Room in Children with Magnetically Controlled Growing Rods

Presenting Author: Fernando Rios

Paper #7

To Crosslink or Not, That Is the Question

Presenting Author: Robert Lark

Paper #8

Why Do Some Magnetically Controlled Growing Rods (MCGR) Lengthen While Others Stall? A Clinical and Nano-CT Cross-Tabulation Analysis of MCGR Explants

Presenting Author: Conor Shea Locke

Paper #9

Growing Construct Forces in Early Onset Scoliosis: How Do TGR and VEPTR Compare to MCGR?

Presenting Author: Jason Anari

Paper #10

Preserving Pulmonary Function in Mini Open Thoracoscopic Assisted Vertebral Body Tethering

Presenting Author: Juan Carlos Rodriguez Olaverri

Paper #11

Have We Improved Anterior Vertebral Body Tethering Outcomes over Time? An Examination of Survivorship Trends

Presenting Author: Joshua Tadlock

Paper #12

Impact of Tether Breakage on Successful Outcomes in Anterior Vertebral Body Tethering for Adolescent Idiopathic Scoliosis

Presenting Author: Brett Lullo

Paper #13

Growth Modulation Response in Thoracic VBT Depends on Magnitude of Concave Vertebral Body Growth

Presenting Author: Craig Louer

Paper #14

Risk of Unplanned Return to the Operating Room Following MCGR Treatment in Ambulatory Patients Is Equivalent Across C-EOS Etiologies

Presenting Author: Sumeet Garg

Paper #15

Lateral Atlanto-axial Dislocation as a Compensatory Mechanism for Congenital Cervicothoracic Scoliosis

Presenting Author: Michael Ruf

Paper #16

Range of Motion After Occipitocervical and C1-2 Posterior Spinal Instrumentation and Fusion in Children

Presenting Author: Hammad Khan

Paper #17

Cervicothoracic Kyphosis in Patients with Hurler's Syndrome

Presenting Author: Viral Jain

Paper #18

Safety and Efficacy of Growth Friendly Instrumentation in Patients with SMA Type 1 in the Disease-Modifying Treatment Era

Presenting Author: Muhreem Yazici

Paper #19

Case-Matched Comparison of Spinal Fusion versus Growing Rods for NF1 Scoliosis in 8-11 Years of Age

Presenting Author: Dong Guo

Paper #20

Impact of Co-morbidities on Mortality in Neuromuscular Rods for NF1 Scoliosis in 8-11 Years of Age

Presenting Author: Brian Snyder

Paper #21

Scoliosis in Osteogenesis Imperfecta: Identifying the Factors Affecting Severity and Progression from Longitudinal Radiographic Data

Presenting Author: Michael Kai-Tsun To

Paper #22

Screening MRI in Congenital EOS; Is It Safe to Delay Advanced Imaging to Decrease Early Anesthesia?

Presenting Author: Evan Mostafa

Paper #23

Etiology Remains King: Health-Related Quality of Life Outcome at 5 Years Following Growth Friendly Instrumentation for EOS

Presenting Author: Kenneth Shaw

Paper #24

Smaller Curves Improve with Part-Time Bracing in Juvenile Idiopathic Scoliosis

Presenting Author: Benjamin Roye

Paper #25

A Comparative Study of Protocols for Spinal Casting in Severe Early Onset Scoliosis: A 4-year Progression-free Survival Analysis

Presenting Author: Jennifer Dermott

Paper #26

The Time and Travel Burden to Families of Children with Early Onset Scoliosis

Presenting Author: Ryan McFadden

Paper #27

The Rise and Stumble of Magnetically Controlled Growing Rods: How Have Indications Changed over Time?

Presenting Author: Kate Sborov

Paper #28

The Application of Apical Control Techniques in Traditional Dual Growing Rods in the Treatment of Early-onset Scoliosis: A Comparative Study with a Minimum 3-year Follow-up

Presenting Author: Shengru Wang

Paper #29

Risk Factors Associated with Magnetically Controlled Growth Rod (MCGR) Complications: A Single Center Experience

Presenting Author: Lucas Hauth

Paper #30

Failure to Replace Removed Growth Friendly Implants Results in Deteriorating Radiographic and HRQoL Outcomes

Presenting Author: Matan Malka

Paper #31

Predictors of Best Candidates for Shilla Growth Guidance in Early Onset Scoliosis

Presenting Author: William Gabriel ElNemer

Paper #32

Serum Titanium Levels Remain Elevated but Urine Titanium Is Undetectable in Children with Early Onset Scoliosis Undergoing Growth-Friendly Surgical Treatment: A Prospective Study

Presenting Author: Ying Li

Paper #33

Core Planar Cell Polarity Genes VANGL1 and VANGL2 in Predisposition to Congenital Scoliosis

Presenting Author: Nan Wu

Paper #34

Limited Fusion for Congenital Scoliosis: Is It Truly One and Done?

Presenting Author: Michael Heffernan

Paper #35

The Long-Term Impact of Short Segment Fusion in Congenital Scoliosis

Presenting Author: Craig Louer

Paper #36

Ten-year Trends in Surgical Management of 1207 Congenital Scoliosis and Appropriately Surgical Strategies for CS Worthy of Promotion

Presenting Author: Guanfeng Lin

Paper #37

Comparison of Perioperative Complication Rates in Congenital Scoliosis Patients with Tethered Cord

Presenting Author: Jamie Gomez

Paper #38

Long-term Results from in Situ Fusion for Congenital Early Onset Scoliosis

Presenting Author: Jim Kennedy

Paper #39

Surgical Treatment of Neuromuscular Early Onset Scoliosis with a Bilateral Posterior One-Way Rod Compared to the Spring Distraction System: A Randomized Controlled Trial (BiPOWR)

Presenting Author: Rene Castelein

ePosters

ePoster #1

Magnetically Controlled Growing Rods Increase 3D True Spine Length in Idiopathic Early Onset Scoliosis Patients

Author: Ron El-Hawary

ePoster #3

Dual Growing Rods Combined with the Apical Convex Control Pedicle Screw Technique versus Traditional Dual Growing Rods for the Surgical Treatment of Early-Onset Scoliosis: A Case-Matched 2-Year Study

Author: Shengru Wang

ePoster #5

Dissect the Genetic Architecture of Congenital Vertebral Malformation in the Context of the Developing Spine

Author: Nan Wu

ePoster #6

How Does the VEPTR Interval Lengthening Affect the Clinical Outcome in EOS Patients with a Minimum of Five Years of Follow-up?

Author: Norman Ramirez Lluch

ePoster #7

Analysis of the Risk Factors for Tether Breakage After Two Row Vertebral Body Tethering (2RVBT) in Adolescent Idiopathic Scoliosis (AIS)

Author: Juan Carlos Rodriguez Olaverri

ePoster #8

Unplanned Return to the Operating Room (UPROR) in Early Onset Scoliosis (EOS) Patients Treated with Magnetic Controlled Growth Rods (MCGR) Is Not Different in Patients with 7cm Actuators versus 9cm Actuators

Author: Sumeet Garg

ePoster #9

Severe, Progressive Infantile Scoliosis Treated with Staged Unilateral Magnetically Controlled Growing Rod with Later Conversion to Shilla Guided Growth Surgery

Author: Scott Luhmann

ePoster #10

Surgical Timing for Posterior-only Hemivertebra Resection in Children Younger Than 10 Years

Author: Ziming Yao

ePoster #11

Utility of Routine Postoperative Laboratory Testing After Posterior Spinal Fusion for Adolescent Idiopathic Scoliosis

Author: Alexander Farid

ePoster #12

Factors Associated with Lumbar Curve Add-On Following Selective Thoracic Tethering

Author: Ritt Givens

ePoster #13

Vertebral Body Tethering for Lenke 1A Curves: The Lumbar Modifier Predicts Lumbar Deformity Progression

Author: Joshua Murphy

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How Do Implants Overlying the Spine Influence "The Law of Diminishing Returns" in Early-Onset Scoliosis Patients?

Author: Stuart Mitchell

ePoster #16

Three-Dimensional Spine Growth Is Maintained 5 Years Post-Operative Thoracic Vertebral Body Tethering Surgery in Idiopathic Scoliosis

Author: Mathieu Boulet

ePoster #17

Who Gets a Break? Predicting Brace Holiday Eligibility in Juvenile Idiopathic Scoliosis

Author: Lucas Hauth

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Does MCGR Exchange or Definitive Fusion Lead to Better HRQoL?

Author: Ali Asma

ePoster #19

Validation of Early Onset Scoliosis 24-Item Questionnaire in Patients with Spinal Muscular Atrophy in the Era of Gene Therapy

Author: Hiroko Matsumoto

ePoster #20

Apical Gliding Screws Improve Correction Index in the Management of EOS

Author: Jean Ouellet

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Translating Genomics into Early Onset Scoliosis Clinical Care

Author: Carol Wise

ePoster #22

Titanium vs Cobalt Chrome: What Is the Impact on MRI Metal Artifact?

Author: Lindsay Andras

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Early Results from a Prospective Study on a Posterior Dynamic Distraction Device for Adolescent Idiopathic Scoliosis (NCT04296903)

Author: Kevin Neal

ePoster #24

Do Caregivers and Patients with Early Onset Scoliosis Share the Same Perspective on Health-Related Quality of Life? A Comparison of EOSQ-24 and SRS-22 Scores

Author: Ying Li

ePoster #25

A Prospective Multicenter ≥ 2 Years Clinical Study of the Active Apex Correction (APC) Technique in Early Onset Scoliosis (EOS) Patients

Author: Alaa Ahmad

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Lumbar Vertebral Body Tethering: Single Center Outcomes and Reoperations in a Consecutive Series of 106 Patients

Author: Amer Samdani

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Complications in VBT: What Are the Effects on Patient Reported Outcomes (PRO)?

Author: Kate Sborov

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LIV Selection in 'Tweeners' Patients Treated with Magnetically Controlled Growing Rods vs. Posterior Spinal Fusion

Author: Michael Heffernan

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Incidence of Neural Axis Abnormality and Curve Progression Post Neurosurgical Intervention in Early-onset Scoliosis

Author: Kenny Kwan

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Surgery for Deformities in Pediatric Spinal Tuberculosis — Single Centre Review of 51 Cases

Author: Saumyajit Basu

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Quality of Life Assessment in Early-onset Scoliosis: A Comparison Between the EOSQ-24 and EOSQ-SELF Questionnaires on the Same Patients with Two Different Respondents and Time Points

Author: Muhreem Yazici

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Sagittal Alignment After Vertebral Body Tethering for Thoracolumbar/Lumbar Curves in Idiopathic Scoliosis

Author: Joshua Murphy

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A Patient-specific Model for Simulating Growth Modulation During the Brace Treatment of Adolescent Idiopathic Scoliosis

Author: Aymeric Guy

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Long in the Tooth? Molar Root Development Predicts Likelihood of Success with Metha Casting in Infantile Idiopathic Scoliosis

Author: Michael O'Sullivan

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Lessons Learned from Graduates of Dual Growing Rods with or Without Apical Control Technique for the Treatment of Congenital Early-onset Scoliosis

Author: Shengru Wang

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Distraction Force Effects in the Growing Spine: Investigation of Differential Spring Distraction in a Göttingen Minipig Model

Author: Casper Tabeling

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Robot Related Complications Have Not Improved with Newer Generation Robots

Author: Daniel Farivar

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Cessation of Bracing in Idiopathic Scoliosis: Significant Equipose Remains

Author: Michelle Welborn

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Impact of COVID-19 on Surgical Outcomes in Pediatric Patients with Adolescent Idiopathic Scoliosis: A Rigorous Cohort Analysis with 1.5 Year Follow-up

Author: David Momtaz

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The Price of Another Centimeter: Reimplantation with a Second Set of Magnetic Growing Rods Yields Diminishing Returns

Author: Brett Shannon

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TGR Lengthening Without IONM: 20-year Experience with No Neurologic Deficits

Author: Tyler Metcalf

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Pelvic Asymmetry and Spinal Fixation in Myelomeningocele

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Author: Thomas Schaer

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Author: john smith

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Anterior Scoliosis Correction for the Treatment of Patients with Early Onset Scoliosis

Author: Randal Betz

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Body Mass Index Adjustments in Children with Early Onset Scoliosis

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Author: Miranda Guzman

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Author: M. Bryant Transtrum

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Does Initial Correction in Brace Predict Bracing Success in Juvenile Idiopathic Scoliosis?

Author: Lindsay Schultz

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Is Rib on Pelvis Deformity Associated with Reported Pain in Neuromuscular Early-Onset Scoliosis?

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Which Lenke Type Curve Is Most Appropriate for Vertebral Body Tethering in Adolescent Idiopathic Scoliosis?

Author: Juan Carlos Rodriguez Olaverri

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Chronic Absenteeism in Scoliosis Care: An Analysis of Missed Work and School

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Vertebral Body Tethering for Idiopathic Scoliosis: Outcomes of a Large Single Surgeon Cohort Including Chest Tube Placement, Preoperative Block, and Surgeon Learning Curve

Author: Ryan Goodwin

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Impact of Patient Characteristics on Successful Lengthening of Magnetically Controlled Growing Rods in Early Onset Scoliosis

Author: Zachary Crawford

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Preliminary Clinical Results of a Multi-Segment Growth Guidance Rod (MSGGR) : 80% Correction of Deformity

Author: Kai Li

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Compensatory Mechanisms to Obtain an Upright Head Position in Congenital Cervicothoracic Scoliosis

Author: Michael Ruf

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Long-term Surgical Outcomes of TBX6-associated Congenital Scoliosis (TACS): A Propensity-score Matching Study

Author: Guanfeng Lin

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One Is Not Like the Other: Significant Variation in Health Quality of Life Scores in Neuromuscular Scoliosis by Diagnosis

Author: Kenneth Shaw

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Growth Stimulation Effect of Distraction on Vertebral Body in Magnetically Controlled Growing Rods in Skeletal Dysplasia and Idiopathic-Neuromuscular Early Onset Scoliotic Patients

Author: Burak Kaymaz

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Non-operative Management of Traumatic Injuries of the Craniocervical Junction. a Single-institution Retrospective Study

Author: Jonathan Martin

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Does Marijuana Use Affect Perioperative Outcomes in Adolescent Idiopathic Scoliosis Patients: A Pilot Study

Author: Gabriel Linden

ePoster #63

Five-Year Follow-Up Results of Spinal Muscular Atrophy Patients Treated for Early-Onset Scoliosis with Magnetic Controlled Growing Rods System: Cobb Correction and Complications Analysis

Author: Luca Labianca

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Crossing the Cervicothoracic Junction in Complex Pediatric Deformity Using Subaxial Cervical Pedicle Screws: An International Multicenter Study

Author: David Kurland

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Development of Best Practice Guidelines for the Peri- and Post-operative Care of Patients with Surgically Treated Scoliosis and Implanted Programmable Devices

Author: Sara Morgan

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Is It the Diagnosis or the Intervention That Results in Scoliosis for Children with down Syndrome and Prior Cardiothoracic Surgery

Author: Jason Anari

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Author: Lindsay Andras

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Intraoperative Radiation Exposure in Adolescent Idiopathic and Neuromuscular Scoliosis

Author: Thomas Geiger

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Four-year Review of Patients Operated for Idiopathic Scoliosis with the Thoracoscopic Vertebral Body Tethering Technique

Author: Luca Colombo