



18TH INTERNATIONAL CONGRESS ON

Early Onset Scoliosis and the Growing Spine

SCOTTSDALE, AZ



The Scottsdale Resort at McCormick Ranch

NOVEMBER
13-15, 2024



Ron El-Hawary, MD
PROGRAM CHAIR



Ying Li, MD
PROGRAM CO-CHAIR

ABSTRACT DEADLINE

July 15, 2024

REGISTRATION DEADLINE

October 14, 2024

JOINTLY PROVIDED BY:



ENDORSED BY:



Program Chair Ron El-Hawary, MD and Program Co-chair Ying Li, MD invite you to join us in Scottsdale for the 18th International Congress on Early Onset Scoliosis and the Growing Spine (ICEOS), the world's leading conference addressing complex scoliosis in the growing child. Known for its highly interactive and collegial atmosphere, the meeting will attract approximately 175 surgeons and allied health professionals from around the world. The program will include outstanding free papers, expert lectures, panel discussions, and workshops.



HIGHLIGHTS INCLUDE:

- Informative sessions with ICEOS leaders sharing their own clinical cases, debating hot topics, and showing master techniques A–Z
- Engaging lectures on the past, present, and future of treating Early Onset Scoliosis
- In-depth round table case discussions on cervical spine trauma, pediatric back pain, and growth guidance surgery
- A keynote lecture from Dr. Ferran Pellisé of the Barcelona Spine Institute, “Artificial Intelligence in the Evaluation and Treatment of Spine Deformity”
- More than 40 Free Papers of the most current and innovative abstracts in EOS and the growing spine
- Numerous breakout sessions on new technology
- An international faculty of the “who’s who” in the pediatric spine surgery field



Call for Abstracts

The 18th Annual ICEOS is designed to enable surgeons, scientists, and researchers to present original clinical research results related to current or emerging techniques and technologies in Early Onset Scoliosis and the growing spine.

The Program Committee invites authors to submit abstracts for presentation within any of these categories:

- Early Onset Scoliosis—General
- Non-Operative Care
- Distraction Based Surgery
- Growth Guidance Surgery
- Fusionless Surgery
- Complications
- Quality/Safety
- Cervical Spine
- Spondylolisthesis
- Enabling Technologies



2024 DATES AND DEADLINES	
Call for Abstracts Opens	April 15
Call for Abstracts Closes	July 15
Authors Notified of Results	August 26
Presenter Registration Deadline	September 30

View full details in the submission portal. **Only online submissions will be considered.**

Smith Family Lecture: Stephen Murphy



JOIN US AT the opening session of ICEOS to hear the story of Stephen Murphy's career as a Special Agent with the Drug Enforcement Administration (DEA) and how he and his partner, Javier Pena, targeted the world's first narco-terrorist, Pablo Escobar, and the Medellin Cartel. Living and working alongside their Colombian National Police counterparts in Medellin, Colombia, as well as with elite U.S. military units, their efforts resulted in the dismantlement of the largest and most violent international drug trafficking organization of its time.

Steve and Javier continue their efforts to bring awareness to current drug related issues including the opioid/heroin/fentanyl epidemic, and deadly counterfeit medications illegally entering the U.S. Steve is a husband and a father of four, including one pediatric spinal surgeon!

ENJOY ARIZONA!



Between sessions, enjoy desert beauty while swimming, hiking, shopping, or visiting museums and restaurants in Scottsdale. Check out the official visitor's **website here.**

Faculty

Program Chair



**Ron El-Hawary, MD,
MSc, FRCS(c)**

IWK Health Centre
Halifax, NS | Canada

Program Co-Chair



Ying Li, MD

University of Michigan
Ann Arbor, MI | USA

Keynote Speaker

Ferran Pellisé

Barcelona Spine Institute
Barcelona | Spain

Invited Faculty

Behrooz Akbarnia, MD

San Diego Spine Foundation
San Diego, CA | USA

Jason Anari, MD

The Children's Hospital
of Philadelphia
Philadelphia, PA | USA

Richard Anderson, MD

NYU Grossman School
of Medicine
Hassenfeld Children's Hospital
New York, NY | USA

Lindsay Andras, MD

Children's Hospital
of Los Angeles
Los Angeles, CA | USA

Carl-Éric Aubin, MD

Polytechnique Montréal
Montréal, QC | Canada

David F. Bauer, MD

Texas Children's Hospital
Houston, TX | USA

Randal Betz, MD

Institute for Spine and Scoliosis
New Brunswick, NJ | USA

Laurel Blakemore, MD

Pediatric Specialists of Virginia
Fairfax, VA | USA

Christopher Bonfield, MD

Vanderbilt University
Medical Center
Nashville, TN | USA

Douglas Brockmeyer, MD

Primary Children's Hospital
University of Utah
Salt Lake City, UT | USA

Patrick Cahill, MD

The Children's Hospital
of Philadelphia
Philadelphia, PA | USA

Rene Castelein, MD, PhD

UMC Utrecht
Utrecht | Netherlands

Robert Cho, MD,

FAAOS, FAOA

Shriners Children's
Southern California
Pasadena, CA | USA

John Emans, MD

Boston Children's Hospital
Boston, MA | USA

Mark Erickson, MD

Children's Hospital of Colorado
Aurora, CO | USA

Ryan Fitzgerald, MD

Johns Hopkins
All Children's Hospital
St. Petersburg, FL | USA

John Flynn, MD

The Children's Hospital
of Philadelphia
Philadelphia, PA | USA

Sumeet Garg, MD

Children's Hospital of Colorado
Aurora, CO | USA

Michael Glotzbecker, MD

Rainbow Babies & Children's
Hospital Cleveland
Cleveland, OH | USA

Jaime Gomez, MD

The Children's Hospital
at Montefiore
Bronx, NY | USA

Pawel Grabala, MD, PhD

University Children's Hospital
Bialystok | Poland

Mari L. A. Groves, MD

University of Maryland
Baltimore, MD | USA

Christina Hardesty, MD

Rainbow Babies & Children's
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Cleveland, OH | USA

Daniel Hedequist, MD

Boston Children's Hospital
Boston, MA | USA

Daniel

Hoernschemeyer, MD

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Columbia, MO | USA

Grant Hogue, MD

Boston Children's Hospital
Boston, MA | USA

Rajiv Iyer, MD

Univ. of Utah Health
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Andrew Jea, MD

Oklahoma Univ. Health
Oklahoma City, OK | USA

Charles Johnston, MD

Texas Scottish Rite Hospital
Dallas, TX | USA

Michael Kelly, MD

Rady Children's Hospital
San Diego, CA | USA

Scott Luhmann, MD

Washington University
St. Louis, MO | USA

Jonathan Martin, MD,

FAANS

Connecticut Children's Hospital
West Simsbury, CT | USA

Amy McIntosh, MD

Texas Scottish Rite Hospital
Dallas, TX | USA

Nancy Hadley-Miller, MD

Children's Hospital of Colorado
Aurora, CO | USA

Firoz Miyanji, MD, FRCS

British Columbia
Children's Hospital
Vancouver, BC | CA

Joshua Murphy, MD

Children's Healthcare of Atlanta
Atlanta, GA | USA



Robert Murphy, MD

Medical Univ. of South Carolina
Charleston, SC | USA

Colin Nnadi, MD

Oxford University Hospitals
Oxford, England | UK

Matthew Oetgen, MD, MBA

Children's National
Medical Center
Washington, DC | USA

Jean Ouellet, MD, FRCS

McGill University Health Centre
Montréal, QC | Canada

Joshua Pahys, MD

Shriners Hospital for Children
Philadelphia, PA | USA

Stefan Parent, MD

Hopital Ste-Justine
Montréal, QC | Canada

Brandon Ramo, MD

Texas Scottish Rite Hospital
Dallas, TX | USA

Gregory Redding, MD

Seattle Children's Hospital
Seattle, WA | USA

Amer Samdani, MD

Shriners Hospital for Children
Philadelphia, PA | USA

Faculty

Invited Faculty

David Skaggs, MD

Cedars Sinai Medical Center
Los Angeles, CA | USA

Kevin Smit, MD

Children's Hospital
of Eastern Ontario
Ottawa, ON | Canada

John Smith, MD

Intermountain Health
Park City, UT | USA

Brian Snyder, MD, PhD

Boston Children's Hospital
Boston, MA | USA

Paul Sponseller, MD

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Baltimore, MD | USA

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Dallas, TX | USA

George Thompson, MD

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Cleveland, OH | USA

V. Salil Upasani, MD

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San Diego, CA | USA

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Gillette Children's Hospital
Minneapolis, MN | USA

Michael Vitale, MD, MPH

NewYork-Presbyterian Morgan
Stanley Children's Hospital
New York, NY | USA

Michelle Welborn, MD

Portland Shriners Hospital
Portland, OR | USA

Klane White, MD

Children's Hospital of Colorado
Aurora, CO | USA

Carol Wise, PhD

Texas Scottish Rite Hospital
Dallas, TX | USA

Burt Yaszay, MD

Seattle Children's Hospital
Seattle, WA | USA

Terry Jianguo Zhang, MD

Peking Union Medical
College Hospital
Peking | China

Faculty Subject to Change

Keynote Highlight: Dr. Ferran Pellisé



Dr. Ferran Pellisé

Barcelona Spine Institute
Barcelona | Spain

ICEOS is delighted to welcome our 2024 Keynote Speaker Dr. Ferran Pellisé, a veteran surgeon with more than 25 years of dedication to the surgical treatment of spinal pathologies. Dr. Pellisé is a founding member and the director of the Barcelona Spine Institute, and one of the earliest surgeons to apply artificial intelligence to spine surgery. In 2011 he founded the European Spine Study Group (ESSG) together with other renowned researchers and today the ESSG is considered the main platform for the analysis and evaluation of adult scoliosis in Europe. Join us at ICEOS to hear Dr. Pellisé's Keynote Address on ***Artificial Intelligence in the Evaluation and Treatment of Spine Deformity.***

Program

WEDNESDAY, NOVEMBER 13

2:00–
5:00 PM Registration Opens

SESSION 1: ICEOS Opening Session—The Past

4:40 The Past—Introduction
The History of Early Onset Scoliosis Treatment
My Experience with Traditional Growing Rods
My Experience with VEPTR
European Experience with Growth Friendly Treatment
Asian Experience with Early Onset Scoliosis
Round Table Discussion
Corporate Recognition and Thank You to Top Supporters
Introduction to Smith Family Lecture

Smith Family Lecture | Stephen Murphy

6:30 Welcome Reception

THURSDAY, NOVEMBER 14

6:45 AM Registration Opens

7:00 Continental Breakfast and Exhibit Viewing

SESSION 2: EOS—The Present (Best Evidence)

7:30 Tethered Spinal Cords
Spinal Tumor Classification (Intramedullary and Extramedullary)
Managing the Cervical Spine in Young Children
Better Together—Neurosurgery and Orthopaedic Surgery (Spondylolisthesis)

Better Together—Intra-Operative Mentorship
Genetics Primer on Bone Dysplasias
Genetics of Scoliosis and Personalized Medicine
Genetics of Early Onset Scoliosis
Disc Biomechanics as an Etiology of Scoliosis
Biologic Solutions and Tissue Engineering

9:15 Refreshment Break & Exhibit Viewing

Program continued on next page



Program *continued*

THURSDAY, NOVEMBER 14, *CONTINUED*

9:45 **SESSION 3: Scientific Papers**

12:00 PM Lunch with Non-CME Workshops

1:05 **SESSION 4: Scientific Papers**

2:40 Refreshment Break and Exhibit Viewing

3:10 **Concurrent Breakout Sessions**

Breakout One: Pediatric Back Pain / Spondylolisthesis

Breakout Two: Cervical Spine Trauma

5:30 **PSSG New Member Reception—by Invitation Only**

FRIDAY, NOVEMBER 15

7:00 AM **Registration Opens, Continental Breakfast and Exhibit Viewing**

7:25 **SESSION 5: Master Techniques—How I Do It from A to Z**

How I Treat a Severe Congenital EOS Patient

How I Treat an EOS Traditional Growing Rods Graduate

How I Treat an EOS VEPTR Graduate

Traction for Cervical Spine Deformity

Traction for Thoracolumbar Spine Deformity

How to Set Up a Home Traction Program

Percutaneous Robotic Treatment for Spondylolisthesis

Robotic Assisted PSFI

Intra-operative Education with the Use of Enabling Technologies

9:00 **SESSION 6: The Future of Pediatric Spine Surgery—
An Industry Perspective**

Round Table Question and Answer

9:25 Refreshment Break and Exhibit Viewing

9:55 **SESSION 7: Scientific Papers, Akbarnia Best Paper Award,
PSF Presidential Address, Keynote Address**

Free Papers

Behrooz Akbarnia Best Paper

Discussion and Akbarnia Award Presentation

Campbell Award Announcement

Campbell Award Acceptance

PSF Presidential Address

ICEOS 2025

Keynote Address: Ferran Pellisé

Artificial Intelligence in the Evaluation and Treatment of Spine Deformity

12:25 PM Lunch with Non-CME Workshops



Program *continued*

FRIDAY, NOVEMBER 15, *CONTINUED*

1:20 Concurrent Breakout Sessions

Breakout Three: The Role of Social Media in the Spine Surgeon's Practice

Breakout Four: Growth Guidance Surgery

Breakout Five: The Future of Pediatric Spine Deformity Education

2:10 SESSION 8: Debates

Debate #1—Vertebral Body Tethering

VBT—We Have the Ability to Predict the Results of VBT

VBT—It's a Shot in the Dark

Debate #2—Enabling Technologies

Enabling Technologies Improve Intra-Operative Education

Enabling Technologies Impede Intra-Operative Education

Debate #3—100 Years from Now—Casting for EOS

2124—We Will Still Be Casting for EOS

2124—We Will Not Still Be Casting for EOS

Debate #4—100 Years from Now—Spinal Fusion?

2124—We Will Still Be Performing Spinal Fusion Surgery

2124—We Will Not Still Be Performing Spinal Fusion Surgery

Closing Remarks

3:30 18th Annual ICEOS Adjourns



General Information

Course Objectives

As a result of this activity, participants should be better able to:

- Describe the indications and rationale for the surgical management of various pediatric spinal deformity and related disorders, including the role of early surgery to treat growing spine deformities.
- Discuss the latest surgical techniques used to manage various pediatric spinal deformities in the growing child, including master's tips and tricks for EOS care.
- Discuss approaches to preventing and managing complications in early onset scoliosis.



Who Should Attend

This course is designed for orthopedic and neurological surgeons, fellows, and residents who include pediatric spinal deformity surgery in their practices. Nurses, nurse practitioners, physician assistants, and physicians providing non-operative care of spinal deformities may also benefit from the course.

Accreditation Statement

In support of improving patient care, this activity has been planned and implemented by Medical Education Resources (MER) and the Pediatric Spine Foundation (PSF). MER is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.



Physician Credit

Medical Education Resources designates this live activity for a maximum of 13.5 *AMA PRA Category 1 Credits*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Joint Providership

This program is jointly provided by Pediatric Spine Foundation, Medical Education Resources, Inc. and BroadWater, LLC.

Commercial Support

Various medical companies have been invited to exhibit at this course. Full disclosure of financial and other support will be disclosed in the course syllabus materials.

Disclosure of Conflicts of Interest

Medical Education Resources insures balance, independence, objectivity, and scientific rigor in all our educational activities. In accordance with this policy, MER identifies conflicts of interest with its instructors, content managers, and other individuals who are in a position to control the content of an activity. Conflicts are resolved by MER to ensure that all scientific research referred to, reported, or used in a CME activity conforms to the generally accepted standards of experimental design, data collection, and analysis. MER is committed to providing its learners with high-quality CME activities that promote improvements or quality in health care and not the business interest of a commercial interest.

Registration



Fast, Easy, & Secure Registration Online

[Click Here to Register](#)



Meeting Registration Fees

Surgeon	\$975
PA/APN/Allied Health	\$750
Fellows/Residents/Coordinators	\$675
Abstract Presenter Discount	-\$100

** prices in USD*

Late Registration Fee: Additional \$150 fee applies for registrations received after October 14 and on-site.

Registration Procedure

Meeting registration includes all program sessions, course materials, and meals listed in the program.

Register early as the space may fill rapidly. Individuals who register after the course is full will be placed on a wait list and contacted if space becomes available.

Registration Policies

- Cancellations received in writing on or before October 14 will receive a full refund less a \$100 administrative fee. Cancellations received after October 14 will not be refunded. Contact Alison Matta at amatta@broad-water.com to cancel.
- Corporate / industry representative registration must go through an exhibiting company. For details, contact Carly Franzen at cfranzen@broad-water.com or (630) 681-1040 ex. 308.

MEETING CANCELLATION POLICY

In the unlikely event of insufficient enrollment, we reserve the right to cancel the course up to October 14. Registrants will be notified by email and registration fees will be refunded. Airline and other costs incurred by the registrant are the responsibility of the registrant and will not be refunded.

ATTENDANCE

The course chairs reserve the right to refuse admission to anyone whose presence is considered to be incompatible with the course objectives.

LANGUAGE

The program will be presented in English.

Images used with permission.

Location & Accommodations

For Additional
Information Please
Contact

ICEOS Meeting Planning Office
c/o BroadWater
Alison Matta
Coordinator, Medical Meetings
+1 (630) 681-1040 x300
amatta@broad-water.com

Meeting Location & Hotel

The Scottsdale Resort at McCormick Ranch

7700 East McCormick Parkway | Scottsdale, AZ 85258

www.thescottsdaleresort.com | [@ Instagram](#)



About the Hotel

The Scottsdale Resort & Spa is a desert oasis with award-winning golf, refreshing pools, and engaging dining outlets that help highlight the beauty of the Sonoran Desert that surrounds you. Sunny skies, autumn flowers, and fresh culinary experiences await you this fall at The Scottsdale.

Room Rate: \$285.00*

*Plus local taxes

Deadline: It is recommended that participants book their hotel rooms as soon as possible, as space will fill rapidly. Reservations at the group rate may not be available after **October 22, 2024** or if the room block is full.

Reservations Procedure

- [Book Online Here](#)
- **Call:** 888-446-6677

To book at the group rate over the phone, provide group code **ICEOS 2024** and the meeting dates of **November 13-15, 2024**.

Deposit & Cancellation: Valid credit card required on booking. Fee applies if cancelled less than 5 days prior to arrival. An early departure fee of one night will be assessed unless the hotel is provided 24-hour advance notice of an earlier departure.

[Book Here](#)

