Pediatric Spinal Deformity
On the Cutting Edge VI
A comprehensive pediatric spine course with CME credit

March 31–April 1, 2017 | THE WESTIN COLONNADE | CORAL GABLES, FLORIDA

Course Chairman:
Harry Shufflebarger, MD
Randal Betz, MD
Peter Newton, MD
Dear Colleague:

We are so pleased to invite you to Pediatric Spinal Deformity: On the Cutting Edge VI. Featuring an internationally recognized faculty of spine surgeons, this CME-accredited course highlights the latest developments in the treatment of such challenges as adolescent idiopathic scoliosis, neuromuscular deformity, early onset scoliosis, spondylolisthesis, and more. We’ll review the latest research and instrumentation, discuss our most complicated cases, and debate new techniques and approaches.

You are certain to complete this two-day program with fresh insights that you can apply to your practice. And we hope that you find your time at the course to be personally rewarding as well.

We look forward to seeing you in Miami!

Harry L. Shufflebarger, MD
Randal Betz, MD
Peter Newton, MD

Course Objectives
Following this activity, the participants should be able to:

1. Describe AIS 3D evaluation systems and their relevance to clinical practice, and discuss the various surgical techniques currently used in the management of AIS.

2. Demonstrate comprehensive understanding of the decision making processes and the surgical intervention options for neuromuscular deformity, early onset deformity, and pediatric cervical deformity.

3. Discuss classification, decision making, and surgical treatment for spondylolisthesis and kyphosis.

Who Should Attend
This course is for orthopaedic and neurological surgeons, fellows and residents who include spine surgery in their practices.

Accreditation Statement
Miami Children’s Health System is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Designation Statement
Miami Children’s Health System designates this educational activity for a maximum of 12.0 AMA PRA Category 1 Credit(s)™. Physicians should only claim credit commensurate with the extent of their participation in the activity.
Distinguished Faculty

CHAIRMEN:
Harry L. Shufflebarger, MD
Nicklaus Children’s Hospital
MIAMI, FL | USA

Randal R. Betz, MD
Institute for Spine and Scoliosis
LAWRENCEVILLE, NJ | USA

Peter O. Newton, MD
Rady Children’s Hospital
SAN DIEGO, CA | USA

FACULTY:

Behrooz A. Akbarnia, MD
San Diego Center for Spinal Disorders
SAN DIEGO, CA | USA

John B. Emans, MD
Children’s Orthopaedic Surgery Foundation
BOSTON, MA | USA

Lawrence G. Lenke, MD
Columbia University Medical Center
NEW YORK, NY | USA

Ronald Lehman, MD
Columbia University Medical Center
NEW YORK, NY | USA

Stefan Parent, MD
Ste. Justine’s Hospital
MONTREAL | CANADA

Amer Samdani, MD
Shriners Hospital for Children
PHILADELPHIA, PA | USA

Suken A. Shah, MD
Alfred I. duPont Hospital for Children
WILMINGTON, DE | USA

David L. Skaggs, MD
Children’s Hospital of Los Angeles
LOS ANGELES, CA | USA

Paul Sponseller, MD
Johns Hopkins Medical Institutions
BALTIMORE, MD | USA

Daniel Sucato, MD
Texas Scottish Rite Hospital for Children
DALLAS, TX | USA

Faculty/Planner Disclosure Policy
In accordance with the Accreditation Council for Continuing Medical Education’s Standards for Commercial Support, all planners, teachers, and authors involved in the development of CME content are required to disclose to the accredited provider their relevant financial relationships. Relevant financial relationships will be disclosed to the activity audience.

Faculty Subject to Change
## Program

### Friday, March 31, 2017

**AM 7:50** Welcome & Announcements

### SESSION 1: AIS
**MODERATOR: J. EMANS, MD**

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>8:00</td>
<td>Progression Risk is Best Evaluated by Conventional Means</td>
<td>S. SHAH, MD</td>
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<tr>
<td>8:07</td>
<td>3D Evaluation is the Best Predictor of Progression</td>
<td>S. PARENT, MD</td>
</tr>
<tr>
<td>8:14</td>
<td>Moderator’s Comments and Discussion</td>
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<tr>
<td>8:20</td>
<td>EOS-3D Evaluation in 2017</td>
<td>P. NEWTON, MD</td>
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<tr>
<td>8:30</td>
<td>Sagittal Plane in AIS</td>
<td>S. SHAH, MD</td>
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<tr>
<td>8:40</td>
<td>Fusionless Spinal Surgery in Idiopathic Deformity</td>
<td>R. BETZ, MD</td>
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<tr>
<td>8:50</td>
<td>Discussion</td>
<td></td>
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<tr>
<td>9:00</td>
<td>Time Saving Tips and Techniques in Deformity Surgery</td>
<td>D. SUCATO, MD</td>
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<td>9:10</td>
<td>Blood Loss in Deformity Surgery</td>
<td>P. SPONSELLER, MD</td>
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<tr>
<td>9:20</td>
<td>Selective Thoracic Fusion in 2017</td>
<td>L. LENKE, MD</td>
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<td>9:35</td>
<td>Discussion</td>
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<tr>
<td>9:50</td>
<td>Lessons Learned from My Most Challenging AIS Case</td>
<td>J. EMANS, MD</td>
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<tr>
<td>9:57</td>
<td>Discussion</td>
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<td>10:05</td>
<td>Break</td>
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### SESION 2: Neuromuscular Deformity
**MODERATOR: B. AKBARNIA, MD**

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<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenter(s)</th>
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</thead>
<tbody>
<tr>
<td>10:30</td>
<td>Neuromuscular Deformity: Indications/Timing and Technique</td>
<td>D. SKAGGS, MD</td>
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<tr>
<td>10:40</td>
<td>Ilio-sacral Fixation and Correction Techniques</td>
<td>A. SAMDANI, MD</td>
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### SESSION 3: Unique Pediatric Cervical Challenges
**MODERATOR: R. BETZ, MD**

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<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>1:15</td>
<td>C0-C2 Challenges</td>
<td>S. SHAH, MD</td>
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<tr>
<td>1:25</td>
<td>Sub-axial Challenges</td>
<td>A. SAMDANI, MD</td>
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<tr>
<td>1:35</td>
<td>Discussion</td>
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### SESSION 4: Spondylolisthesis
**MODERATOR: P. NEWTON, MD**

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<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>1:45</td>
<td>Classification and Treatment Guidelines</td>
<td>S. PARENT, MD</td>
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<tr>
<td>1:55</td>
<td>High Grade Spondylolisthesis: Technique and Mistakes</td>
<td>H. SHUFFLEBARGER, MD</td>
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**17 year old Athlete with Refractory Low Back Pain and Chronic Pars Defect: Debate**

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<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenter(s)</th>
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</thead>
<tbody>
<tr>
<td>2:10</td>
<td>Pars Repair Offers Best Long Term Outcome</td>
<td>A. SAMDANI, MD</td>
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<tr>
<td>2:20</td>
<td>Fusion Offers Best Long Term Outcome</td>
<td>D. SUCATO, MD</td>
</tr>
<tr>
<td>2:25</td>
<td>Summation by Moderator</td>
<td>P. NEWTON, MD</td>
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<tr>
<td>2:28</td>
<td>Discussion</td>
<td></td>
</tr>
<tr>
<td>2:40</td>
<td>Break</td>
<td></td>
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**PM 12:15 Luncheon**
SESSION 5: Techniques
MODERATOR: L. LENKE, MD

3:10 Placement of Hooks, Wires, Tapes  J. EMANS, MD
3:20 Facetectomy and Ponte Osteotomy  S. SHAH, MD
3:25 Facetectomy and Ponte Osteotomy  H. SHUFFLEBARGER, MD
3:30 Discussion

3:40 Thoracic Lenke 1 Curve  P. NEWTON, MD
3:47 Lenke V Curve  H. SHUFFLEBARGER, MD
4:04 Discussion

4:10 Restoration of Thoracic Kyphosis  D. SUCATO, MD
4:17 Restoration of Thoracic Kyphosis  S. PARENTH, MD
4:24 Discussion

4:30 Panel Discussion: Congenital Spinal Deformity
Panelists: Drs. Emans, Samdani, Skaggs, Lenke  MODERATOR: S. SHAH, MD

5:30 Adjourn to Reception

Saturday, April 1, 2017

7:00 Breakout Session 2
A. Level Selection in AIS
Panelists: Drs. Emans, Shufflebarger, Sucato  MODERATOR: P. NEWTON, MD
B. Peri-operative Neurological Events
Panelists: Drs. Lenke, Parent, Sponseller  MODERATOR: A. SAMDANI, MD
C. Early Onset Deformity
Panelists: Drs. Akbarnia, Betz, Shah  MODERATOR: D. SKAGGS, MD

10:20 Walking Break

Session 6: Early Onset Deformity
MODERATOR: P. SPO NSELLE, MD

10:30 Treatment Options at Increasing Ages  B. AKBARNIA, MD
10:40 Traditional vs Non-invasive Devices  D. SKAGGS, MD
10:50 Growth Friendly Graduates  J. EMANS, MD
11:10 Lessons Learned from My Most Challenging EOS Case  B. AKBARNIA, MD

Session 7: Miscellaneous
MODERATOR: D. SUCATO, MD

11:20 Three Column Osteotomies in Deformity  L. LENKE, MD
11:30 Minimizing Neurological Risk in Deformity Surgery  J. EMANS, MD
11:40 Discussion
11:50 Development of Performance Improvement Modules  P. NEWTON, MD

PM 12:00 Surgical Practice Management, Team Development and Retention: Minimize Risk, Complications, and Improve Performance  H. SHUFFLEBARGER, MD
12:10 Perspective of Adult Deformity Surgeon on Treatment of Pediatric Deformity  R. LEHMAN, MD
12:25 Discussion
12:40 Course Summary and Adjourn

Program subject to change
General Information

Fast, Easy & Secure Registration Online at RegOnline.com/CuttingEdgeVI

Registration Fees

<table>
<thead>
<tr>
<th>Surgeons:</th>
<th>$845.00</th>
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<tbody>
<tr>
<td>Residents / Fellows:</td>
<td>$645.00</td>
</tr>
<tr>
<td>Corporate:</td>
<td>$1,025.00</td>
</tr>
</tbody>
</table>

Registration includes two breakfasts, refreshments, one lunch, course reception, scientific sessions, and course materials.

Late Registration Fee: $50 (after March 3)

Registration Procedure

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

Refund Policy

A full refund will be provided dependent upon written notice being received by March 3, 2017. Refunds will not be made after this date. Substitutions are allowed at any time but must be submitted in writing.

Cancellation Policy

In the unlikely event of insufficient enrollment, we reserve the right to cancel the course up to 21 days prior to the course. Registrants will be notified by certified mail 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 chairmen 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.

For additional information or to request a mail-in registration form please contact:

BroadWater, LLC
301 S. County Farm Rd.
Suite L
Wheaton, IL 60187 USA
Tel: (630) 681-1040
Fax: (630) 682-5811
E-mail: ddelong@broad-water.com

Sponsorship

This activity is sponsored by Miami Children’s Health System (MCHS). The mission of MCHS’s Continuing Medical Education program is to provide superlative, evidence-based, high quality continuing medical education that helps fill gaps in knowledge, skills or performance of the physicians it serves, that presents the latest scientific knowledge available to MCHS and to support the educational mission of the institution.

Support

This course is organized by BroadWater, LLC., a medical education company offering meeting planning and consulting services. For more information about BroadWater, visit www.broad-water.com or call (630) 681-1040.

Commercial Support

Various medical companies will be invited to provide restricted and unrestricted grants in support of this CME activity. Full disclosure of any grants provided will be made in the course syllabus materials.
Hotel Accommodations

The program, related activities, and accommodations will be held at:

The Westin Colonnade
180 Aragon Avenue
Coral Gables, FL 33134

The Westin features oversized guest rooms, complimentary high-speed internet access, outdoor pool, jacuzzi, and fitness center.

Room Rate
$259.00—single or double adult occupancy

Reservations Procedure—Book by March 8, 2017
To make your hotel reservation, please call the Westin at (305) 441-2600 and ask to book a room for the “BroadWater” group.

Online reservations are also available via https://www.starwoodmeeting.com/Book/broadwaterinc

Deadline
It is strongly 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 March 8, 2017.

Reservations Policies
A credit card number or 1 night’s advance deposit is required to guarantee each hotel reservation. Reservations can be cancelled without penalty until 24 hours prior to the scheduled arrival. Reservations cancelled within 24 hours will incur a penalty equal to 1 night’s room and tax.
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