

Preliminary Program

## AOTrauma Course – Pediatric

**November 14 – 15, 2014**

Hilton San Diego Resort & Spa  
San Diego, California



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**AOTrauma**

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AO North America  
1700 Russell Road  
Paoli, PA 19301

[www.aona.org](http://www.aona.org)

## A letter from the President of AO North America



As President of AO North America (AONA®), I would like to share with you the overall mission of our organization and specifically our focus on education. Since 1958, the AO has been the worldwide leader in musculoskeletal trauma education. AONA provides comprehensive multidisciplinary education to surgeons, fellows and residents in the specialties of orthopedic, craniomaxillofacial, spine and veterinary surgery in the areas of trauma, specifically, operative reduction and fixation as well as degenerative disorders, deformities, tumors and reconstruction.

AONA, established as a regional entity of the AO Foundation in 1992, continues the long tradition of teaching excellence. As an independent, surgeon-driven, nonprofit specialty society, AONA is dedicated to the advancement of patient care. Our mission is to improve the care of patients with musculoskeletal injuries and their sequelae in North America through education and research in the principles, practice and results of treatment.

AONA offers a wide spectrum of educational activities to meet the life-long learning needs of surgeons. Whether as a resident, fellow or attending surgeon, AONA offers modern teaching techniques and state-of-the-art courses that are tailored for today's learner.

Our educational activities include annual courses, symposia and regional summits and workshops. As evidenced by AO North America's Systematic approach to education, course offerings begin at basic principles and techniques levels through complex care in a variety of musculoskeletal disorders. Specialty courses are intensive and focus on specific anatomical areas of the musculoskeletal system. Each educational offering has its own unique structure encompassing a mix of didactic sessions, hands-on laboratory experience (some with human or animal anatomic specimens), small group discussions, expert panels and live surgery transmissions, depending on the objectives and content of the program presented.

AO North America is recognized for the excellent surgical education it provides. Attendance at an AO North America educational activity can be both valuable and beneficial as you strive to improve patient care throughout your career.

Sincerely,

A handwritten signature in black ink, which appears to read "Michael R. Baumgaertner, MD". The signature is fluid and cursive, written over a white background.

Michael R. Baumgaertner, MD  
President, AO North America

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## CME Mission Statement

The Continuing Medical Education (CME) mission of AO North America (AONA®) is to provide comprehensive multidisciplinary needs based education to surgeons, fellows, and residents in the specialties of orthopedic, hand, craniomaxillofacial, spine, and veterinary surgery in the areas of trauma (i.e., operative reduction and fixation), degenerative disorders, deformities, tumors, and reconstruction.

Expected results of AONA's CME activities for surgeons, fellows, and residents are to:

- Increase their knowledge base and surgical skill level
- Apply and document competencies in areas of relevant advances in knowledge in the areas of trauma, degenerative disorders, deformities, tumors, and reconstructive surgical techniques into patient care resulting in improved competence
- Address practice performance gaps by improving management of all aspects of musculoskeletal injuries and disorders (i.e., pre-operative planning to post-operative care)





## Course Description

This Course aims to create a clinically centered learning environment where the current principles and techniques of fracture management in children and adolescents are demonstrated, applied, and discussed. In this Course, modern concepts in pediatric fracture care are covered. During the practical exercises, participants will practice the methods presented and discussed in this Course.

## Target Audience

The AOTrauma Course – Pediatric Fracture Management is targeted at traumatologists, orthopedic surgeons and other surgeons who are actively engaged in pediatric fracture care and who want to enhance this level of expertise in the field of pediatric trauma management. Ideally, participants will have completed an AOTrauma Course of Fracture Management.

## Learner Objectives

At the end of this Course, the participant will be able to:

- Recognize how bone characteristics and fracture classification are different in children and adolescents compared to adults, and describe how this affects bone healing and fracture management
- Evaluate a range of nonoperative and surgical options for the treatment of common pediatric fractures
- Manage pediatric fractures according to biological and mechanical principles, and apply appropriate techniques and technologies
- Apply treatment strategies for pediatric fractures based on available evidence
- Develop strategies for the prevention and management of complications associated with pediatric fractures

## Accreditation



AO North America is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

## Designation Statement

AO North America designates this **live** educational activity for a maximum of 17 *AMA PRA Category 1 Credits*.™ Physicians should only claim credit commensurate with the extent of their participation in the activity.

### For Canadian Based Physicians Attending AONA Courses

All live conferences or live courses held outside of Canada can be reported as accredited group learning activities under Section 1 of the MOC Program if they are developed by a university, academy, college, academic institution or physician organization.

Courses sponsored by AO North America meet the criteria of the Royal College of Physicians and Surgeons for accredited group learning activities.

## Faculty

The faculty of this course is composed of surgeons distinguished in the field of operative fracture care.

## Course Co-Chairmen

Daniel Green, MS, MD, FACS, FAAP

Associate Professor

Cornell University Medical College

Pediatric Orthopaedic Surgery

Hospital For Special Surgery

New York, New York

Richard A. K. Reynolds, MD, FRCS, FACS

Surgeon In Chief

Chief of Pediatric Orthopaedic Surgery

Childrens Hospital of Michigan

Wayne State University

Detroit, Michigan

## Course Evaluator

Mark Reilly, MD

Associate Professor of Orthopaedic Surgery

Chief, Orthopaedic Trauma Service

Department of Orthopaedics

Rutgers – New Jersey Medical School

Newark, New Jersey



## Invited Faculty

Emily Dodwell, BSc, MD, MPH  
Pediatric Orthopedic Surgeon  
Hospital for Special Surgery  
New York, New York

Bernard David Horn, MD  
Assistant Professor of Clinical  
Orthopaedic Surgery  
The Children's Hospital of Philadelphia  
Philadelphia, Pennsylvania

Harish Hosalkar, MBMS(Ortho), FCPS,  
MD, DNB (Ortho)  
Medical Director  
Center for Hip Preservation and  
Children's Orthopaedics  
Joint Preservation & Reconstruction, Limb  
Lengthening, Deformity Correction and Trauma  
Specialist (Peds and Adults)  
Scripps Mercy Hospitals, Scripps Encinitas  
Hospital, Sharp Grossmont Hospital, Paradise  
Valley Hospital, Tri-City Medical Center.  
San Diego, California

Andrew Howard, MD, MSc, FRCSC  
Hospital for Sick Children  
Toronto, Ontario

James Hunter, BA, FRCSEd(Orth)  
Consultant Trauma and Paediatric  
Orthopaedic Surgeon  
Nottingham University Hospital  
Queens Medical Centre  
Nottingham, United Kingdom

Joseph Janicki, MD  
Assistant Professor of Orthopaedics  
Northwestern University  
Lurie Children's Hospital  
Chicago, Illinois

Travis Matheney, MD  
Assistant Professor  
Harvard Medical School  
Childrens Hospital Boston  
Boston, Massachusetts

Theddy Slongo, MD  
Chief of Pediatric Orthopaedics and  
Traumatology  
University of Bern  
Bern, Switzerland

David S. Weisman, MD  
Clinical Assistant Professor  
Pediatric Orthopaedics  
Department of Orthopaedic Surgery  
Rutgers – Robert Wood Johnson Medical School  
New Brunswick, New Jersey

Lawrence Wells, MD  
Associate Professor of Orthopaedic Surgery  
Division of Orthopaedic Surgery  
The Children's Hospital of Philadelphia  
The Perelman School of Medicine at the  
University of Pennsylvania  
Philadelphia, Pennsylvania

*Faculty list subject to change.*

# Preliminary Program

## Friday, November 14, 2014

Time	Agenda Item
<b>08:00 – 08:50</b>	<b>Module 1: Introduction / History</b>
08:00 – 08:10	Introduction / Welcome
08:10 – 08:20	Brief History of AO and Review of AO Resources
08:20 – 08:35	Growth Remodeling and Limits of Acceptability in Children’s Fractures
08:35 – 08:50	The History Scientific Basis and Application of Elastic Nailing
<b>08:50 – 10:30</b>	<b>Module 2: Femur Fractures</b>
08:50 – 09:00	Femur Fractures in Children Less than 3 Years: Spica Cast Technique
09:00 – 09:15	Elastic Nails – Evidence Based Review
09:15 – 09:25	Open Reduction Internal Fixation (ORIF)
09:25 – 09:35	External Fixation
09:35 – 09:45	Lateral Entry Nail
09:45 – 09:55	Proximal Femur Fractures: Femoral Neck and Peri-trochanteric Fractures
09:55 – 10:15	Slipped Upper Femoral Epiphysis: What the Trauma Surgeon Needs to Know
10:15 – 10:30	Distal Femur Fractures
<b>10:30 – 10:45</b>	<b>Coffee Break</b>
10:45 – 11:35	Case Based Discussion I (Small Group): Femur Fractures
<b>11:35 – 11:45</b>	<b>Travel to Lab</b>
<b>11:45 – 12:45</b>	<b>Practical Exercise I:</b> Elastic Nailing of the Femur
<b>12:45 – 13:45</b>	<b>Lunch</b>
<b>13:45 – 14:45</b>	<b>Module 2: (continued) Femur Fractures</b>
<b>13:45 – 14:45</b>	<b>Practical Exercise II:</b> Plating, Conventional Nailing: Pediatric Hip Plate; Adolescent Femoral Nail
<b>14:45 – 15:00</b>	<b>Travel to Lecture</b>

## Preliminary Program

### Friday, November 14, 2014 (continued)

Time	Agenda Item
<b>15:00 – 16:15</b>	<b>Module 3: Tibia / Patella and Ankle Fractures</b>
15:00 – 15:10	Patellar Fractures
15:10 – 15:20	Tibia Spine Fractures
15:20 – 15:35	Proximal Tibia Fractures
15:35 – 15:50	Tibia Shaft Fractures
15:50 – 16:05	Tillaux and Triplane
16:05 – 16:15	Ankle
<b>16:15 – 16:35</b>	<b>Coffee Break and Travel to Lab</b>
<b>16:35 – 17:45</b>	<b>Practical Exercise III:</b> Tibia: Tibia Shaft; ORIF Triplane; Demonstration – Tibia Spine Fractures
<b>17:45 – 18:00</b>	<b>Travel to Lecture Hall</b>
18:00 – 19:00	Case Based Discussion II (Small Group with Snacks): Lower Extremity Fractures



## Preliminary Program

### Saturday, November 15, 2014

Time	Agenda Item
<b>08:00 – 11:55</b>	<b>Module 4: Upper Extremity Fractures</b>
08:00 – 08:10	Review of Day 1 / Overview of Day 2
08:10 – 08:25	Distal Radius
08:25 – 08:40	Diaphyseal Radius and Ulna
08:40 – 08:55	Radial Neck Fracture – Monteggia Fracture
08:55 – 09:15	Introduction to Supracondylar Fractures and Review of the Historic Approach Blount Method (Closed Treatment) and Traction
09:15 – 09:25	CRPCP of Supracondylar Humerus Fractures
09:25 – 09:40	Current Concepts – Supracondylar Humerus Fractures
	Management of Nerve and Vascular Injuries
09:40 – 10:25	Case Based Discussion III (Small Group): Supracondylar Fractures
<b>10:25 – 10:40</b>	<b>Coffee Break</b>
10:40 – 10:55	Lateral Condyle
10:55 – 11:10	Medial Epicondyle Fractures
11:10 – 11:25	Humeral Shaft and Proximal Humerus Fractures
11:25 – 11:40	AO Technique – Humerus Fracture / Elastic Stable Intramedullary Nail (ESIN) Principles
11:40 – 11:55	Clavicle Fracture
11:55 – 12:45	Case Based Discussion IV (Small Group): Upper Limb (Non-Supracondylar)
<b>12:45 – 13:45</b>	<b>Lunch</b>

<b>13:45 – 15:00</b>	<b>Practical Exercise IV:</b> Forearm Nailing; Radial Neck ESIN
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<b>15:00 – 16:15</b>	<b>Practical Exercise V:</b> Elbow Fractures: Supracondylar Fractures; Crossed Pins; Lateral Pins; Demonstration – Radial External Fixator (Demo Only); Elastic Nails Humerus
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## Preliminary Program

### Saturday, November 15, 2014 (continued)

Time	Agenda Item
16:15 – 16:35	<b>Break and Travel to Lecture Hall</b>
16:35 – 17:35	Case Based Discussion V (Small Group): Participants and Faculty Difficult Cases
17:35 – 17:45	Closing Comments

*AO North America gratefully acknowledges in-kind support for equipment and/or technical staff from DePuy Synthes.*



## Presentation Information

### Faculty Disclosure

It is the policy of AO North America to abide by the Accreditation Council for Continuing Medical Education Standards for Commercial Support. Standard 2: “Disclosures Relevant to Potential Commercial Bias and Relevant Financial Relationships of Those with Control over CME Content,” requires all planners, including course directors, chairs, and faculty, involved in the development of CME content to disclose their relevant financial relationships prior to participating in the activity. Relevant financial relationships will be disclosed to the activity audience. The intent of the disclosure is not to prevent a faculty with a relevant financial or other relationship from teaching, but to provide participants with information that might be of importance to their evaluation of content. All potential conflicts of interest have been resolved prior to the commencement of this activity.

### Conflict of Interest Resolution Statement

When individuals in a position to control or influence the development of the content have reported financial relationships with one or more commercial interests, AO North America utilizes a process to identify and resolve potential conflicts to ensure that the content presented is free of commercial bias.

### Off-Label / Experimental Discussions

Some medical devices used for teaching purposes and / or discussed in AO North America’s educational activities may have been cleared by the FDA for specific uses only or may not yet be approved for any purpose. Faculty may discuss off-label, investigational, or experimental uses of products / devices in CME certified educational activities. Faculty have been advised that all recommendations involving clinical medicine in this CME activity are based on evidence that is accepted within the profession of medicine as adequate justification for their indications and contraindications in the care of patients. All scientific research referred to, reported or used in this CME activity in support or justification of a patient care recommendation conforms to the generally accepted standards of experimental design, data collection and analysis.

### Liability Statement

AO North America faculty and staff assume no personal liability for the techniques or the use of any equipment and accessories used for teaching purposes in the laboratory. The certificate provided pertains only to the participants’ completion of the course and does not, in any way, attest to the proficiency of the participants’ clinical experience.

### Disclaimer

AONA does not endorse nor promote the use of any product / device of commercial entities. Equipment used in this course is for teaching purposes only with the intent to enhance the learning experience.

## General Information

**Tuition:** \$395.00 (US funds)

**Tuition Includes:** Registration, laboratory materials, breakfast, lunch and break refreshments.

Registration is available online only at [www.aona.org](http://www.aona.org)

**We encourage early registration, as seating is limited.**

Upon receipt of your registration and payment, you will receive an email confirmation of your registration in the Course, along with hotel and travel information to assist you in making your arrangements.

**PLEASE NOTE:** Registration deadline is October 13, 2014.

Full refunds will be made only if written notice of cancellation is received by registration deadline date. Cancellations received after the deadline date will be subject to a 10% cancellation fee. No tuition refund will be issued for cancellations after the start of the date of the course.

### ADA Statement

AO North America fully intends to comply with the legal requirements of the Americans with Disabilities Act. If any registrant is in need of accommodation, please do not hesitate to submit a written request at least one month prior to this activity.

Until an email confirmation is received, please do not consider yourself registered in this Course.

### For Information:

Contact AONA Customer Service Department

Phone: (800) 769-1391

(610) 695-2459

Fax: (610) 695-2420

Email: [customerservice@aona.org](mailto:customerservice@aona.org)

## Hotel and Travel

### Hotel Accommodations

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

Hilton San Diego Resort & Spa

1775 E. Mission Bay Drive

San Diego, CA 92109

619-276-4010

<http://www.sandiegohilton.com>

### Hotel Concessions:

- Complimentary parking for day attendees
- Complimentary local and toll phone use in guestroom
- Reduced guestroom wireless rate
- Complimentary use of hotel fitness center

### Room Rate

\$179.00 single / double occupancy rooms will be held until October 13, 2014, or until room block is filled, whichever comes first. After this date, rooms will be on an as-available basis.

### Reservations Procedure – Book by October 13, 2014

To make your hotel reservation, please call the Hilton San Diego Resort & Spa 619-276-4010 and ask to book a room for the “AONorth America Course.”

**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 October 13, 2014.

### Travel

Hilton San Diego Resort & Spa is six miles from the San Diego International Airport.

	<b>Typical Minimum Charge</b>
Super Shuttle	\$13.00
Taxi	\$25.00

Please visit our website: [www.aona.org](http://www.aona.org) to register and for other course offerings.

# one **AO**

**CMF Spine Trauma Vet**

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**Abstract Submission Site | <http://abstracts123.com/aona1>**

**Deadline for Abstract Submissions | July 15, 2014. At 12:00 a.m. (midnight), EDT**

**For more information, visit [www.oneao.org](http://www.oneao.org)**

Sponsored by  **AO North America**

AO North America is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

This *live* educational activity has been approved for *AMA PRA Category 1 Credit™*.

AO Trauma membership  
Join us and share your passion



As a member of AO Trauma  
you enjoy the following benefits:

- Direct access to the  
AO Trauma member network
- Fellowship opportunities
- AO Trauma News & quarterly AO Trauma newsletter
- Primal Pictures 3D human anatomy
- Online journals  
– Ovid, Injury and Journal of Perioperative Practice
- Case Forum, AO Surgery Reference,  
AO Traumaline™, online lectures/videos
- Special member offers



[www.aotrauma.org](http://www.aotrauma.org)







Preliminary Program

AOTrauma Course – Pediatrics

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Paoli, PA 19301

Registration is available only online: [www.aona.org](http://www.aona.org)  
Hotel Deadline: October 13, 2014