

Pelvic and Acetabular Fracture Management Course

A Hands-On Course Including Cadaveric Dissection

May 19 – 22, 2011

The Doral Golf Resort and Spa

The Miami Anatomical Research Center M.A.R.C.

Miami, Florida



A letter from the President of AO North America



As President of AO North America, 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 for disorders and trauma of the musculoskeletal system. 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 in orthopaedic, craniomaxillofacial, spine, and veterinary surgery. 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 spectrum of educational activities beginning with residents, and then progresses to the practicing surgeon. AONA allows the surgeon to be a lifelong learner by offering 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 targeted to practicing surgeons and residents specializing in the management of musculoskeletal injuries. As evidenced by AO North America's Systematic Education approach, course offerings begin with the basic principles and techniques and move to addressing complex care in a variety of educational sessions. Specialty courses are intensive and focus on skeletal fixation of specific anatomical areas. Each educational offering has its own unique structure encompassing a mix of didactic sessions, hands-on laboratory experience (some with cadaver 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 that reads "John H. Wilber MD". The signature is written in a cursive, flowing style.

John H. Wilber, MD
President, AO North America

CME Mission Statement

The Continuing Medical Education (CME) mission of AO North America is to provide comprehensive multidisciplinary education relative to fracture care and reconstructive surgery for surgeons, fellows and residents.

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

- increase their knowledge base and surgical skill level;
- apply advances in knowledge of fracture fixation and reconstructive surgical techniques into patient care resulting in improved competence; and
- address practice performance gaps by improving management of all aspects of musculoskeletal injuries (i.e., pre-operative planning to post-operative care).

Course Description

This intensive hands-on course will provide comprehensive information on all aspects of pelvic and acetabular trauma. Topics will include basic science, classification, diagnosis, management and complications, as well as determining if there is a role for immediate total hip arthroplasty following acetabular fractures. A unique feature of this course is the session devoted to cadaver dissection in the labs at Miami Anatomical Research Center (M.A.R.C.). The participants will have the opportunity to learn the different surgical approaches, including the indications, techniques, advantages and disadvantages. In the manual skills laboratory, the participant will perform internal and external fixation techniques on various pelvic and acetabular fractures through demonstration and actual stabilization techniques on artificial bones. There will be a high faculty-to-participant ratio, which will facilitate opportunity for personal interaction and discussion.

Target Audience

Enrollment in this course is open to Orthopaedic surgeons with pelvic and acetabular surgery in their current or planned practice. This course is not designed for junior residents.

Discussion Groups

During the Course small group discussions will be held to allow a unique opportunity for both the participants and Faculty to present cases for discussion. **Please plan to participate actively in the discussions by bringing your HIPAA-compliant difficult problem or interesting cases on a USB or CD.**

Learner Objectives

At the conclusion of this course, the participant should be able to:

- demonstrate the management of the polytraumatized patient, with a specific emphasis on those patients with pelvic and acetabular trauma;
- comprehend the complex surgical anatomy of the pelvis, including all surgical approaches by cadaver dissection;
- demonstrate the manual skills in external and internal fixation techniques for pelvic ring and acetabular trauma;
- identify the expected outcome of these patients;
- recognize the ongoing controversies that exist in the care of pelvic and acetabular fractures.

Accreditation



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

Designation Statement

The AO North America designates this educational activity for a maximum of 29 *AMA PRA Category 1 Credits™*. Physicians should only claim credit commensurate with the extent of their participation in the activity.

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 this disclosure is not to prevent a speaker with a significant financial or other relationship from making a presentation, but to provide participants with information that might be of potential importance to their evaluation of a presentation. Any conflicts 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. The content of this presentation was vetted through AONA's process of peer review and content validation and modified as required to meet this standard.

Off-Label / Experimental Discussions

Some medical devices discussed or demonstrated in AO North America's educational activities may not have been cleared by the FDA or may have been cleared by the FDA for specific uses only. AO North America requires the Faculty for this Course to disclose unlabeled uses of products. It is the Faculty's responsibility to disclose when an unlabeled use of a commercial product, or an investigational use not yet approved for any purpose will be discussed during an education activity.

Liability Statement

AONA, the Faculty, and the education committee members assume no personal liability for the techniques or the use of any equipment and accessories demonstrated 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 expertise.

Laboratory Waiver

By registering for this course you electronically agree to the terms and conditions waiving liability in the cadaver lab. In order to participate, AONA's policy mandates that every individual must wear appropriate protective garments provided by AONA during the lab sessions. Participants who do not agree to the laboratory waiver and wear protective garments will not be allowed to participate in the laboratory sessions.

Disclaimer

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

Support for this Course has been made possible through an educational grant and in-kind equipment support from Synthes, USA

Faculty

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

Chairmen

Philip J. Kregor, MD

Vanderbilt University Medical Center
Nashville, Tennessee

Stephen H. Sims, MD

Carolinas Medical Center
Charlotte, North Carolina

Course Evaluator

Mark C. Reilly, MD

UMDNJ - New Jersey Medical School
Newark, New Jersey

Invited Faculty

Jorge E. Alonso, MD

University of Southern Alabama
Mobile, Alabama

Tania A. Ferguson, MD

University of California- Davis
Sacramento, California

Michael J. Bellino, MD

Stanford University
Redwood City, California

Pierre Guy, MD

University of British Columbia
Vancouver, British Columbia

Gregory Berry, MD, FRCSC

McGill University
Montreal, Quebec

David L. Helfet, MD

Weill Medical College of Cornell University
New York, New York

Kyle F. Dickson, MD

University of Texas - Houston
Houston, Texas

Matthew L. Jimenez, MD

University of Illinois at Chicago
Chicago, Illinois

Alan L. Jones, MD

University of Texas Southwestern
Dallas, Texas

**James F. Kellam, BSc, MD, FACS,
FRCS**

Carolinas Medical Center
Charlotte, North Carolina

Hans J. Kreder, MD, FRCS

University of Toronto
Toronto, Ontario

Jeffrey W. Mast, MD

Northern Nevada Medical Center
Reno, Nevada

Joel M. Matta, MD

Director
Good Samaritan Hospital
Hip and Pelvis Institute
Santa Monica, California

Keith A. Mayo, MD

Tacoma Regional Trauma Center
Tacoma, Washington

Erika J. Mitchell, MD

Loyola University Medical Center
Chicago, Illinois

Steven J. Morgan, MD

University of Colorado Health
Science Center
Denver, Colorado

Jason W. Nascone, MD

R Adams Cowley Shock Trauma Center
Baltimore, Maryland

Sean E. Nork, MD

University of Washington
Seattle, Washington

Steven A. Olson, MD

Duke University Medical Center
Durham, North Carolina

Chip Rountt, MD

University of Washington
Seattle, Washington

H. Claude Sagi, MD

University of South Florida
Tampa, Florida

David J. G. Stephen, MD, FRCS

University of Toronto
Toronto, Ontario

Michael D. Stover, MD

Loyola University Medical Center
Maywood, Illinois

Mark S. Vrahas, MD

Massachusetts General Hospital
Boston, Massachusetts

Roger G. Wilber, MD

MetroHealth Medical Center
Cleveland, Ohio

Faculty list subject to modification.

Preliminary Program – Thursday, May 19, 2011

Each day will begin at approximately 8:00 a.m. and finish at approximately 5:30 p.m.

Course evaluation and adjournment will be approximately 12:00 noon on Sunday.

Registration Thursday, 7:00 – 8:00 a.m.

Course Opening Thursday, 8:00 a.m.

Course Reception Thursday Evening

Time

Agenda Title

08:00 – 09:00 Session 1: General Concepts

08:00 – 08:10 Opening Remarks and Introduction

08:10 – 08:25 Introduction to the Surgical Anatomy of the Pelvis

08:25 – 08:40 Radiology of the Intact Pelvis

08:40 – 08:50 Biomechanics of the Pelvis

08:50 – 09:00 AIRS / Discussion

09:00 – 10:00 Session 2: Acute Management of High Energy Pelvic Trauma

09:00 – 09:15 Assessment and Classification of Pelvic Disruption

09:15 – 09:30 Acute Management of Pelvic Ring Disruption:

Hemorrhage Control and Soft Tissue Management

09:30 – 09:45 Decision Making of Pelvic Ring Disruption:

Indications for Surgery; Choice and Location of Fixation / Approaches

09:45 – 10:00 AIRS / Discussion

10:00 – 10:20 Coffee Break

10:20 – 11:30 Case Presentations: The Acute Injury

11:30 – 12:30 Session 3: Internal Fixation of the Pelvic Ring

11:30 – 11:45 Anterior Pelvic Ring Fixation

11:45 – 12:00 Sacroiliac Dislocation and Fracture/Dislocation

12:00 – 12:15 Sacral Fracture (Including H / U Fractures)

12:15 – 12:30 AIRS / Discussion

12:30 – 13:30 Lunch

13:30 – 14:15 Practical Exercise I:

A. External Fixation – Pelvis

B. Binder Demonstration

C. Pelvic Clamp Demonstration

14:15 – 15:15 Practical Exercise II:

A. Symphysis

B. Sacroiliac Joint Plate

15:15 – 15:30 Coffee Break

15:30 – 16:30 Practical Exercise III:

A. Tension Band Plates

B. Iliosacral Screws

16:30 – 18:00 Small Group Discussions 1

18:00 – 19:00 Reception

Preliminary Program – Friday, May 20, 2011

Time

Agenda Title

08:00 – 10:40 **Session 4: Acetabulum**

- 08:00 – 08:15 Radiology
08:15 – 08:30 Classification
08:30 – 08:45 Decision Making
08:45 – 09:00 Choice of Approach
09:00 – 09:15 Radiology of Posterior Wall, Posterior Column, and Posterior Column plus Posterior Wall
09:15 – 09:30 Radiology of Transverse, Transverse plus Posterior Wall Fractures, and T-Shaped Fractures
09:30 – 09:45 Reduction, Fixation and Choice of Approach for Posterior Wall, Posterior Column, and Posterior Column plus Posterior Wall Fractures
09:45 – 10:00 Reduction, Fixation and Choice of Approach for Transverse and Transverse Plus Posterior Wall Fractures
10:00 – 10:15 Reduction, Fixation and Choice of Approach for T-Shaped Fractures
10:15 – 10:25 Concurrent Pelvic Ring Injury: Effect on Acetabular Approach
10:25 – 10:40 AIRS and Discussion

10:40 – 11:00 **Coffee Break and Travel to Lab**

11:00 – 13:00

Practical Exercise IV:

- A. Posterior Wall; Transverse plus Posterior Wall
B. T-Shaped Fracture Through Kocher-Lagenbech Approach

13:00 – 14:00 **Lunch**

14:00 – 15:30 **Session 5: Acetabulum**

- 14:00 – 14:15 Radiology of Anterior Wall / Column Fractures
14:15 – 14:30 Radiology of Anterior Column / Posterior Hemitransverse Fractures and Both Column Fractures
14:30 – 14:45 Reduction and Fixation of Anterior Wall and Anterior Column Fractures
14:45 – 15:00 Choice of Approach for Both Column Fractures
15:00 – 15:15 Reduction and Fixation of Both Column and Anterior Plus Posterior Hemitransverse Fractures through Iliioinguinal Approach
15:15 – 15:30 Reduction and Fixation through the Extended iliofemoral Approach
15:30 – 15:45 AIRS / Discussion

15:45 – 16:05 **Coffee Break & Travel to Lab**

16:05 – 17:15

Practical Exercise V:

- Associated Both Column (ABC)

- 17:15 – 18:45 Small Group Discussions 2

Preliminary Program – Saturday, May 21, 2011

| Time | Agenda Title |
|----------------------|----------------------------------|
| 07:30 – 09:00 | Small Group Discussions |
| 09:00 – 12:00 | Cadaveric Dissection at M.A.R.C. |
| 12:00 – 13:00 | Lunch |
| 13:00 – 16:30 | Cadaveric Dissection at M.A.R.C. |

Cadaver Dissection:

Held at Miami Anatomical Research Center. Transportation from the hotel to the Miami Anatomical Research Center will be provided by AONA.

Preliminary Program – Sunday, May 22, 2011

| Time | Agenda Title |
|----------------------|--|
| 08:00 – 09:15 | Small Group Discussion with Breakfast |
| 09:15 – 11:20 | Session 6: Alternative Approaches and Special Problems |
| 09:15 – 09:25 | Trochanteric Flip |
| 09:25 – 09:35 | Stoppa Intra-Pelvic Approach |
| 09:35 – 09:45 | The Case for Two Approaches |
| 09:45 – 10:00 | AIRS / Discussion – Delayed Treatment of Acetabular Fractures |
| 10:00 – 10:15 | Early and Long Term Results of Surgical Treatment of Acetabular Fractures |
| 10:15 – 10:30 | Delayed Reconstruction of Acetabular Fractures |
| 10:30 – 10:45 | Open Treatment of Acetabular Fractures in the Elderly / Osteoporotic Patient |
| 10:45 – 11:00 | Acute Total Hip Arthroplasty for Acetabular Fractures |
| 11:00 – 11:10 | Total Hip Arthroplasty for Post Traumatic Injury |
| 11:10 – 11:20 | AIRS/Discussion |
| 11:20 – 11:30 | Closing Comments |

Preliminary Program subject to modification.

Course Tuition and Registration

Tuition \$1740.00

Tuition Includes:

Course and laboratory materials, breakfasts, lunches, reception and refreshments.

Registration is available only online at www.aona.org

We encourage early registration, as seating is limited.

Upon receipt of your online registration and payment, you will be sent via email a 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 April 18, 2011.

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 \$100 cancellation fee. No tuition refund will be issued for cancellations after May 5, 2011.

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 confirmation is received, do not consider yourself registered in this Course.

For Information:

Contact the Orthopaedic Summit Registrar

Phone: (800) 769-1391 Extension x5123

(610) 695-2459 Extension x5123

Fax: (610) 695-2420

Email: customerservice@aona.org

Hotel Information and Travel

Hotel Accommodations

Room reservations are the responsibility of the individual registrant. A block of rooms has been reserved at a rate of \$169.00 per night, plus tax, single/double occupancy, at The Doral Golf Resort and Spa. **Rooms will be held until April 18, 2011, or until room block is filled, whichever comes first.** After this date, rooms will be on an as-available basis.

Travel

The Doral Golf Resort & Spa is located approximately seven (7) miles from the Miami International Airport (MIA). Taxis and shuttles are available. Complete information will be provided in the confirmation email.



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A Hands-On Course Including Cadaveric Dissection**

AO North America
Department of Continuing Medical Education
1700 Russell Road
Paoli, PA 19301

Registration is available only online: **www.aona.org**

Registration and hotel deadline:
April 18, 2011

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