Pre-Meeting Courses

October 13, 2010

International Orthopaedic Trauma Care Forum
William G. DeLong, Jr., MD, Andrew H. Schmidt, MD, and Wade R. Smith, MD, Co-Chairs
5.5 AMA PRA Category I Credits™

Masters Level Trauma Coding Course
William R. Creevy, MD, MBA, Chair
Margaret Maley, KarenZupko & Associates, Inc.
6 AMA PRA Category I Credits™

October 13 - 14, 2010

Basic Science Focus Forum
Theodore Miclau, III, MD, Chair
12.25 AMA PRA Category I Credits™

October 14, 2010

Young Practitioners Forum
Lisa K. Cannada, MD, Chair
3.75 AMA PRA Category I Credits™
Target Audience
The Orthopaedic Trauma Association (OTA) Annual Meeting is for the benefit of orthopaedic trauma surgeons and related allied health care professionals.

Objectives
The OTA is an organization dedicated to the discovery and dissemination of knowledge and information regarding the prevention, diagnosis, and treatment of musculoskeletal injuries. The 26th Annual Meeting of the OTA will provide all registrants the opportunity to witness presentations of peer-reviewed original basic science and clinical research papers, posters and symposia that present current concepts for topics of general interest. A multitude of mini-symposia, bio-skills labs, informal case presentations, and technical exhibits, each with specific focus, will enable a customized educational experience.

Ample opportunity will be available for expression of common concerns, sharing of relevant experiences and discussion of alternative treatment approaches.

After attending the Annual Meeting of the OTA, participants will be able to:
• Discuss the most up-to-date clinical and basic science advancements related to orthopaedic trauma
• Improve technical abilities to treat both simple and complex fractures
• Identify strategies to successfully interface with hospital administrators regarding orthopaedic trauma call issues
• Understand the attributes of various available bone grafts and bone graft substitutes and their relative indications for use
• Incorporate effective strategies for infection prophylaxis and treatment into their daily practice
• Understand pertinent issues regarding disaster management planning
• Understand basic principles of nonunion treatment

2010 Annual Meeting Program Committee
William M. Ricci, MD - Program Chair
James A. Goulet, MD - Program Co-Chair
Committee: Victor A. de Ridder, MD; Michael J. Gardner, MD; Pierre Guy, MD;
Shepard R. Hurwitz, MD; Theodore Miclau, III, MD; William T. Obremskey, MD;
and John T. Ruth, MD
Local Host: Andrew N. Pollak, MD

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Dear Colleagues:

Please accept our invitation to the 26th Annual Meeting of the Orthopaedic Trauma Association (OTA) to be held in Baltimore, Maryland from October 13 – 16, 2010. The meeting will provide the most comprehensive and up-to-date program related to treatment of musculoskeletal injury available anywhere. A diverse spectrum of topics and the opportunity to attend a wide range of sessions including scientific presentations of original research, didactic lectures, small group discussions, and hands-on labs provide learning opportunities that will meet needs of all musculoskeletal health care professionals.

This year’s meeting will highlight main symposia on topics with broad appeal and with relevance to recent international events: "Controversies in Everyday Orthopaedic Care;" "Disaster Preparedness: What We Learned from Haiti;” and "Orthopaedic Trauma Call: Opportunity or Obligation?” Break-out sessions in the form of mini-symposia, case presentations, and skills labs that include other general interest as well as more focused topics will allow customization of the meeting experience.

The Scientific Program will include the most relevant and scientifically sound research. Over sixty podium presentations and nearly 130 posters were selected by the Program Committee from over 700 abstract submissions. The Basic Science Focus Forum (BSFF), chaired by Ted Miclau, MD, is one of four pre-meeting events. The BSFF is a 1 ½ day event beginning Wednesday October 13th that will provide an additional in-depth program designed to augment and expand upon the science presented and discussed at the main meeting.

Additionally, two single day pre-meeting events will take place on Wednesday October 13th. The ever popular Masters Coding Course will once again be organized by KarenZupko & Associates, Inc. Last year’s new and highly successful International Forum will continue under the direction of Bill DeLong, MD, Andrew Schmidt, MD, and Wade Smith, MD to discuss advances and unique aspects of orthopaedic care in emerging regions.

The half-day Young Practitioners Forum led by Lisa Cannada, MD on Thursday morning rounds out the pre-meeting events. We encourage all to arrive early to the Annual Meeting and take full advantage of these OTA offerings.

The common feature of each of the wide range of program events is the commitment to providing the highest quality, most interesting and clinically relevant material related to musculoskeletal trauma by world-class faculty and experts. We truly believe that anyone involved in the field will benefit from this year’s OTA Annual Meeting. Please consider joining us in Baltimore!

Sincerely,

William M. Ricci, MD

Program Chair

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William M. Ricci, MD, Program Chair
Dear Colleagues:

We are very excited that Baltimore has been selected as the host city for the 26th Annual Meeting of the Orthopaedic Trauma Association. The meeting venue will be the Convention Center located in Baltimore’s magnificent Inner Harbor area. The pre-meeting events will be held at the Hilton Hotel, across the street from the center. The area immediately around the hotel and convention center is renowned for outstanding restaurants, entertainment, and outdoor activities.

We hope that you will make time during this visit to enjoy the many outstanding attractions that Baltimore and the rest of the state of Maryland have to offer. If you can make it in to town a few days early, the Baltimore Ravens football team will be hosting the Denver Broncos at M&T Bank Stadium, in what promises to be an important game in the upcoming season, at what we believe to be one of the best venues in the United States for professional football. Both Oriole Park and M&T Bank Stadium are located in Camden Yards just a few blocks from the Hilton and the Convention Center. Although the season is young, it is probably safe to say that there will be no baseball in Camden Yards in October this year.

Baltimore’s famous aquarium is located within the Inner Harbor just a short walk from the hotel. In addition, the Babe Ruth Museum, the Visionary Arts Museum, the Walters Art Gallery, the Baltimore Museum of Art, and Fort McHenry where Francis Scott Key first penned the national anthem are all easily accessible from the hotel by foot or cab. If you are feeling more adventurous, the United States Naval Academy is located in Annapolis, Maryland just a short drive from downtown Baltimore.

Baltimore is also home to the R Adams Cowley Shock Trauma Center, the legislatively designated Primary Adult Resource Center for Trauma for the State of Maryland. As many of you are aware, Dr. R Adams Cowley was a pioneer in the development of trauma networks and his work led to one of the most robust trauma systems in the country linking EMS providers, helicopter systems operated by the Maryland State Police, a network of trauma centers, and rehabilitation hospitals. We plan to have tours of Shock Trauma available for those interested Wednesday - Thursday.

The USNS Comfort is anchored in Baltimore. Tours of this vessel, which played a critical role in the recent Haitian earthquake relief effort, are tentatively planned, based on availability. Please visit the OTA website (www.ota.org) for details.

October weather in Baltimore can be highly unpredictable. The typical daily temperature is in the mid 60’s, but some variation is possible.

We are very grateful that the OTA has chosen to visit Baltimore for this outstanding event. We hope you enjoy your time in Charm City.

Regards,

Trish & Andrew Pollak, MD
Local Host, Baltimore, Maryland

The heart of the USNS Comfort is her twelve operating rooms and 1,000 beds that support the many different required levels of care. Five hundred beds are designated for minimal case needs, a further four hundred are for intermediate cases and twenty reserved for surgical recovery and a further eighty for intensive care patients. The Comfort, who’s home port is Baltimore, was specifically designed with a large rounded hull some 894 feet long, 106 feet wide and weighing 69,360 tons to create a stable platform for most medical procedures.
2010 OTA Pre-Meeting Course

Basic Science Focus Forum

Theodore Miclau, III, MD, Chair

Attendees of this activity can earn up to 12.25 AMA PRA Category I Credits™.

Hilton Baltimore Hotel, Holiday Ballroom 6 (Level 2)

Wednesday – Thursday, October 13 – 14, 2010

Target Audience
Attendees of the 26th Annual Meeting of the Orthopaedic Trauma Association, orthopaedic trauma surgeons, fellows and residents, basic scientists, bioengineers and biologists.

Forum Objectives
• Develop a greater understanding of biomechanics models and how to choose the most appropriate model
• Become well versed in bone defect repair and healing
• Learn how best to choose a pre-clinical model in orthopaedic trauma research
• Review advances in imaging and its implications
• Learn the latest issues and trends in funding orthopaedic trauma research

Program
Wednesday, October 13, 2010

6:30 AM Registration
7:25 AM Introduction:
Theodore Miclau, III, MD, Program Chair

7:30 – 8:50 AM SYMPOSIUM I:
BIOMECHANICS:
CHOOSING THE RIGHT MODEL
Moderators: Steven A. Olson, MD
Thomas (Toney) A. Russell, MD

7:30 AM Introduction
Steven A. Olson, MD

7:35 AM Choosing the Right Specimen
Steven A. Olson, MD

7:45 AM Plate Fixation – A Clinician’s Perspective
Philip J. Kregor, MD

8:00 AM Plate Fixation – An Engineer’s Perspective
Michael Bushelow, MS

8:10 AM IM Nail Fixation – A Clinician’s Perspective
Thomas (Toney) A. Russell, MD

8:20 AM IM Nail Fixation – An Engineer’s Perspective
Loren L. Latta, MD, PhD

8:50 AM Discussion
Symposium Panel

8:50 – 10:12 AM SYMPOSIUM I, continued

8:50 AM Paper #1
Can We Trust Ex Vivo Mechanical Testing of Fresh Frozen Cadaveric Specimens? The Effect of Post-Freezing Delays
Paul Tornetta, III, MD; Jacob L. Gartner, PhD; Zane Hartsell, PhD; William M. Ricci, MD; 1Boston University Medical Center,
Boston, Massachusetts, USA; 2Smith and Nephew, Inc,
Memphis, Tennessee, USA; 3Washington University,
St Louis, Missouri, USA

9:06 AM Paper #2
A Biomechanical Comparison of Standard Screw and Hybrid Fixation of Unstable Humeral Shaft Fractures
Robert F. Ostrum, MD; Jason Nydick, DO; Matthew Boardman, DO; 1Cooper University Hospital,
Camden, New Jersey, USA; 2Philadelphia College of Osteopathic Medicine,
Philadelphia, Pennsylvania, USA

9:12 AM  
**Paper #3**  
**Biomechanics of Distal Radioulnar Repair: Ligament Reconstruction versus Capsulorrhaphy**  
Christopher Dy, MD; Elizabeth Anne Ouellette, MD; Anna-Lena Makowski; Ali Malik; Edward L. Milne, BS; Loren L. Latta, PhD;  
1 Hospital for Special Surgery, New York, New York, USA;  
2 Miami International Hand Surgery Service, North Miami Beach, Florida, USA;  
3 University of Florida, School of Medicine, Gainesville, Florida, USA;  
4 University of Miami, Department of Orthopedics, Miami Beach, Florida, USA;  
5 Max Biedermeier Institute for Biomechanics, Miami Beach, Florida, USA

9:18 AM  
**Discussion**

9:24 AM  
**Paper #4**  
**Biomechanical Evaluation of Transsacral, Transalar, and Iliosacral Screw Fixation for Comminuted Transforaminal Sacral Fractures**  
Brett D. Crist, MD; Ferris Pfeiffer, PhD; Michael Khazzam, MD; Yvonne M. Murtha, MD; Gregory J. Della Rocca, MD; William Carson, PhD;  
University of Missouri, Columbia, Missouri, USA

9:30 AM  
**Paper #5**  
**Quantifying the Load Sharing Capabilities of Distal Femur Plating through Strain Analyses in Healthy and Osteoporotic Bone in Different Fracture Types**  
Jacob L. Cartner; Zane Hartsell, BS; Bob Jones, III, BS; William M. Ricci, MD;  
1 Smith & Nephew, Memphis, Tennessee, USA;  
2 Washington University Medical School, St. Louis, Missouri, USA

9:36 AM  
**Paper #6**  
**Does Screw Orientation Influence Construct Stiffness in Vertical Shear Fractures of the Medial Malleolus?**  
Safdar N. Khan, MD; Derek Amanatullah, MD; Shane Curtiss, AS; Philip R. Wolinsky, MD;  
University of California at Davis Medical Center, Sacramento, California, USA

9:42 AM  
**Discussion**

9:48 AM  
**Paper #7**  
**The Mechanical Effect of Targeted Blocking Screws in Distal Femur Fractures**  
Sagar J. Desai, MD; David W. Sanders, MD; Louis Ferreira, MD; Josh Giles, BESc; James Johnson, PhD;  
University of Western Ontario, London, Ontario, Canada

9:54 AM  
**Paper #8**  
**Does Insertion Torque Affect the Mechanics of Locking Hole Inserts and Fatigue Performance of Bridge Plate Constructs?**  
Jacob L. Cartner; Adam Messina, BS; Charlie Baker; Thomas (Toney) A. Russell, MD; Paul Tornetta III, MD; William M. Ricci, MD;  
1 Smith & Nephew, Memphis, Tennessee, USA;  
2 Regional Medical Center, Memphis, Tennessee, USA;  
3 Boston University Medical School, Boston, Massachusetts, USA;  
4 Washington University Medical School, St Louis, Missouri, USA

10:00 AM  
**Paper #9**  
**Biomechanical Investigation of Plate Working Length on Fatigue Characteristics of Locking Plate Constructs in Cadaveric Distal Metaphyseal Femoral Fracture Models**  
William M. Ricci, MD; Paul Tornetta, III, MD; Yanming Zheng, PhD; Ramona Soileau; Jacob Cartner, PhD;  
1 Washington University School of Medicine, St. Louis, Missouri, USA;  
2 Boston University Medical School, Boston, Massachusetts, USA;  
3 Smith and Nephew, Inc., Memphis, Tennessee, USA

10:06 AM  
**Discussion**

10:12 AM  
**Break**

Pre-registration deadline September 13 — Registration form on page 35 of Booklet.
**Basic Science Forum Program, cont’d**

10:30 –
11:40 AM  SYMPOSIUM II:  BONE DEFECT REPAIR
Moderators:  
Emil H. Schemitsch, MD
Thomas A. Einhorn, MD

10:30 AM  Selecting the Right Autograft
Aaron Nauth, MD

10:40 AM  Induced Membranes (Masquelet Technique): What Is the Evidence?
Hans-Christoph Pape, MD

10:50 AM  Subchondral Defects: What Is the Best Bone Void Filler?
William G. DeLong, Jr., MD

11:00 AM  The Use of Osteobiologics in Bone Defects
J. Tracy Watson, MD

11:10 AM  Large Diaphyseal Defects: What Is the Best Treatment?
Michael D. McKee, MD

11:20 AM  Discussion

11:40 AM –
12:38 PM  PAPER SESSION II:  BONE DEFECT REPAIR
Moderators:  
Emil H. Schemitsch, MD
Thomas A. Einhorn, MD

11:40 AM  Overview:  Thomas A. Einhorn, MD

11:50 AM  Endothelial Progenitor Cells for Healing of Segmental Bone Defects
Paper #10
Ru Li, PhD; Kivanc Atesok, MD;  
David Wright, BS; Aaron Nauth, MD;  
Cari M. Whyne, PhD;
St Michael’s Hospital, University of Toronto,  
Toronto, Ontario, Canada;
University of Toronto,  
Toronto, Ontario, Canada

11:56 AM  Increasing Vascularity to Improve Healing of a Segmental Defect of the Rat Femur
Paper #11
Rena L. Stewart, MD;  
Jessica B. Goldstein, RN; Eddie L. Hyatt, BS;  
Tien-Min G. Chu, PhD;  
Shawn R. Gilbert, MD;
University of Alabama at Birmingham,  
Birmingham, Alabama, USA;
Indiana University,  
Indianapolis, Indiana, USA

12:02 PM  Endothelial Progenitor Cells for Healing and Angiogenesis in a Segmental Bone Defect Model: A Comparison with Mesenchymal Stem Cells
Paper #12
Aaron Nauth, MD; Ru Li, MD;  
Emil H. Schemitsch, MD;  
St. Michael’s Hospital,  
Toronto, Ontario, Canada

12:08 PM  Discussion

12:14 PM  Decreasing Complications in Open Fractures with a Novel Bone Graft
Paper #13
Kate V. Brown, MD; Bing Li, PhD;  
Teja Guda, PhD; Daniel Perrien, PhD;  
Scott Guelcher, PhD;  
Josh C. Wenke, PhD;
United States Army Institute of Surgical Research, San Antonio, Texas, USA;
Vanderbilt University Medical Center,  
Nashville, Tennessee, USA

12:20 PM  Xenograft Bone Inclusion Improves Incorporation of Hydroxyapatite Cement into Cancellous Defects
Paper #14
Michael J. Voor, PhD; Eric M. Yoder, BS;  
Robert L. Burden, Jr., MEng;  
University of Louisville, Orthopaedic Bioengineering Laboratory  
Louisville, Kentucky, USA

12:26 PM  Evaluation of Histological and Mechanical Properties of Plexur M. Bone/Polymer Biocomposite in a Rabbit Defect Model
Paper #15
Christophe Nich, MD; Bertrand David, PhD;  
Karim Oudina, BS; Valentin Myrtil, BS;  
Herve Petite, PhD; Moussa Hamadouche, MD;
Orthopaedic Research Laboratory,  
Paris, France;
Ecole Central, Paris, France;
Department of Orthopaedics, Hopital Cochin,  
Paris, France

12:32 PM  Discussion

12:38–1:45 PM  Lunch
1:45 – SYMPOSIUM III:
3:05 PM
CHOOSING A PRE-CLINICAL
MODEL IN ORTHOPAEDIC
TRAUMA
Moderators: Edward J. Harvey, MD
R. Geoff Richards, PhD

1:45 PM
Osteoporotic Fractures
Peter V. Giannoudis, MD

2:00 PM
Bone Defects
Jennifer Lansdowne, AVCS

2:15 PM
Articular Injury
Paul A. Martineau, MD

2:30 PM
Osteomyelitis
R. Geoff Richards, PhD

2:45 PM
Discussion

3:05–
4:03 PM
PAPER SESSION III:
PRE-CLINICAL ANIMAL MODELS
Moderators: Edward J. Harvey, MD
Peter V. Giannoudis, MD

3:05 PM
Overview: Edward J. Harvey, MD

3:15 PM
Mesenchymal Stem Cell Transplantation
to Promote Fixation of Orthopaedic
Hardware
Chan Gao, MD1,2; Ailian Li, BMed1;
Huifen Wang, BMed1; Alison Butler, BSc1,3;
Geeta Nayak, MSc2; Bilal Elcharaani, BSc2;
Jan Seuntjens, PhD3; Ed J. Harvey, MD, MSc1,5;
Janet E. Henderson, PhD1,2,5;
1JTNN Wong Laboratories for Bone
Engineering, Research Institute,
McGill University Health Centre,
Montreal, Quebec, Canada;
2Department of Medicine, McGill University,
Montreal, Quebec, Canada;
3Department of Microbiology and
Immunology, University of British Columbia,
Vancouver, British Columbia, Canada;
4Department of Oncology, McGill University,
Montreal, Quebec, Canada;
5Department of Surgery, McGill University,
Montreal, Quebec, Canada

3:21 PM
Mechanical Stability Affects Angiogenesis
during Fracture Healing
Chuanyong Lu, MD; Xiaodong Wang, PhD;
Zhiqing Xing, MD; Ralph Marcucio, PhD;
University of California at San Francisco,
Department of Orthopaedic Surgery,
San Francisco, California, USA

3:27 PM
Paper #18
Murine Model of Oligotrophic Tibial
Nonunion
Calvin T. Hu, MD; Sarah C. Offley, MD;
Catherine A. Humphrey, MD;
Regis J. O’Keefe, MD;
Department of Orthopaedics, University of
Rochester School of Medicine,
Rochester, Minnesota, USA

3:33 PM
Discussion

3:39 PM
Heterotopic Ossification following
Extremity Blast Amputation: An Animal
Model in the Sprague-Dawley Rat
Oliver O. Tannous, MD; Cullen K. Griffith, MD;
Robert V. O’Toole, MD;
Vincent D. Pellegrini, Jr., MD;
1University of Maryland School of Medicine,
Baltimore, Maryland, USA;
2University of Maryland School of Medicine,
R Adams Cowley Shock Trauma Center,
Baltimore, Maryland, USA

3:45 PM
Paper #20
Androstenediol Exerts Protective Effects in
a Murine Two-Hit Model
Christian Zeckey, MD; Philipp Mommens, MD;
Michael Frink, MD; Ulf Brunnemer, MD;
Christian Krettek, MD; Tanja Barkhausen, MD;
Frank Hildebrand, MD;
Trauma Department, Hannover Medical
School, Hannover, Germany

3:51 PM
Paper #21
Effects of Binge Alcohol Consumption
and Anti-Oxidant Therapy on Healing of
Femur Fractures in a Rat Model
Dustin Volkmer, MD; Benjamin Sears, MD;
Ryan Himes, BS; Kristen Launing, BS;
Michael Stover, MD; Sherri Yong, MD;
John Callaci, PhD;
Loyola University Medical Center,
Maywood, Illinois, USA

3:57 PM
Discussion

4:03 PM
Adjourn

Pre-registration deadline September 13 — Registration form on page 35 of Booklet.
**Program**

**Thursday, October 14, 2010**

6:30 AM  
Registration

7:25 AM  
Introduction:  
*Theodore Miclau, III, MD, Program Chair*

7:30 –  
**SYMPOSIUM IV:**  
**ADVANCES IN IMAGING:**  
**ARTICULAR CARTILAGE**  
Moderators:  
*Joseph Borrelli, Jr., MD*  
*Todd O. McKinley, MD*

7:30 AM  
Can Non-Destructive MRI Provide a Measurement of Cartilage Function?  
The Role of Delayed Gadolinium-Enhanced MRI of Cartilage (dGEMRIC)  
*Deborah Burnstein, PhD*

7:45 AM  
T2 and Ultra-Short T2 Weighted Imaging: Research and Clinical Applications  
*Constance R. Chu, MD*

8:00 AM  
Imaging of the Acutely Injured Joint:  
What Do the Findings Mean?  
*Hollis G. Potter, MD*

8:15 AM  
Limiting Metallic Implant Artifacts  
*John A. Carrino, MD, MPH*  
*Laura M. Fayad, MD*

8:30 AM  
Discussion

8:50 –  
**PAPER SESSION IV:**  
**IMAGING**  
Moderators:  
*Joseph Borrelli, Jr., MD*  
*Todd O. McKinley, MD*

8:50 AM  
Overview:  
*Todd O. McKinley, MD*

9:01 AM  
Use of Two 3-Dimensional Fluoroscopic Systems for the Assessment of Articular Reduction: A Cadaveric Study  
*Yoram A. Weil, MD*;  
*Meir Liebergall, MD*;  
*Rami Mosheiff, MD*;  
*Syndie Singer, MD*;  
*Amal Khoury, MD*

9:07 AM  
Comparative Biomechanical and Micro CT Analysis of Osseointegration:  
Biodegradable Magnesium Alloy versus Titanium Control  
*Richard A. Lindtner, MD*;  
*Christoph Castellani, MD*;  
*Peter Hausbrandt, MD*;  
*Elmar Tschegg, PhD*;  
*Sefanie Tschegg, PhD*;  
*Annelie-Martina Weinberg, MD*

9:13 AM  
Discussion

9:19 AM  
**BREAK**

9:30 –  
**SYMPOSIUM V:**  
**FUNDING ORTHOPAEDIC TRAUMA RESEARCH**  
Moderators:  
*Theodore Miclau, III, MD*  
*Michael J. Bosse, MD*

9:30 AM  
Update from the National Institute of Arthritis and Musculoskeletal and Skin Diseases/National Institutes of Health  
*James S. Panagis, MD, MPH*

9:45 AM  
Opportunities through the Department of Defense: Basic Research  
*Joseph C. Wenke, PhD*

10:00 AM  
Opportunities through the Department of Defense: Clinical Research  
*LTC Romney C. Andersen, MD*

10:15 AM  
Funding through the Food and Drug Administration  
*Barbara D. Buch, MD*

10:30 AM  
Discussion

Basic Science Forum Program, cont’d

10:50 AM – SYMPOSIUM VI: BRINGING PRODUCTS TO MARKET

Moderators: Mohit Bhandari, PhD
Barbara D. Buch, MD

10:50 AM Re-thinking the 510K Mechanism for Devices: What Does the Future Hold?
Barbara D. Buch, MD

11:05 AM Getting Fracture Healing Biologics Approved: What Are the New Standards for Industry?
Ricardo Dent, PhD

11:20 AM Surgeon-Industry Collaborations in Implant Design: Are the Roadblocks Worth the Hassle?
Thomas (Toney) A. Russell, MD

11:35 AM Designing the Right Fracture Healing: If We Only Knew?
Thomas A. Einhorn, MD

11:50 AM Discussion

12:10 PM Adjourn

1:00 PM ANNUAL MEETING BEGINS
Welcome – Timothy J. Bray, MD,
OTA President

Enjoy the Baltimore waterfront.
Margaret Maley, Senior Consultant, KarenZupko & Associates, Inc.
William R. Creevy, MD, MBA, Chair

Attendees of this activity can earn up to 6 AMA PRA Category I Credits™.

Hilton Baltimore Hotel, Holiday Ballroom 2 & 3 (Level 2)

Wednesday, October 13, 2010

Course Description
Margaret Maley BSN, MS, consultant with KarenZupko & Associates, Inc., returns to OTA with a 2010 coding course tailor made for orthopaedic trauma surgeons. Your office manager and business office staff are also welcome to register. Don't miss the opportunity to attend a course focused on coding and reimbursement issues most important to the bottom line of orthopaedic trauma surgeons.

Learning Objectives
Upon successful completion of the Evaluation and Management (E&M) Section, you will be able to:
• List 3 coding mistakes frequently made by orthopaedic trauma surgeons reporting E&M services.
• Confidently report services in the ER that result in a hospital admission.
• Properly document consultation services.
• Understand how Medicare requires you to report consultation services and how this is different from other payers.
• Determine how modifiers are used to report E&M services.
• Define the categories of E&M services most often used by orthopaedic trauma surgeons.

Upon successful completion of the Orthopaedic Trauma Procedural Coding Course, you will be able to:
• List services included in the “global surgical package.”
• Discuss what is included in global fracture care.
• Correctly code bone grafting, external fixation, debridement, and fracture care.
• Use at least 6 surgical modifiers surgical modifiers correctly.
• Understand the difference between returning a patient to treat a surgical complication vs. a staged procedure.
• Correctly document and report procedures that are unrelated to surgeries done previously when you are in the “global period.
• Report the services of surgical assistants and PAs.
• Initiate a successful appeal when you are paid incorrectly.
• List 5 coding mistakes frequently made by orthopaedic trauma surgeons when reporting surgical services.
• You will not want to miss any of this information, so plan on attending the morning and afternoon sessions.

Course Program
6:30 AM Registration
8:00 AM – 11:00 AM Evaluation and Management Issues for Orthopaedic Trauma Surgeon
11:00 AM – 12:00 PM Lunch Break
12:00 PM – 3:00 PM Surgical Coding and Reimbursement for the Orthopaedic Trauma Surgeon

Margaret Maley brings over 25 years of experience in orthopaedics having held positions of increasing responsibility in both the clinical and business side of academic and private practices.

With a B.S.N. from The University of Illinois, Ms. Maley began her nursing career in Chicago at Rush-Presbyterian St. Luke's Medical Center. For five years she worked with Dr. Jorge Galante conducting clinical research, overseeing several FDA studies, and she earned her masters degree with a concentration in orthopaedic nursing from Rush University.

For over 15 years, Ms. Maley has concentrated on the business aspects of orthopaedics. With nine years of management experience she has a unique insight into the nuts and bolts of orthopaedic practice management. Her background on the “front line” makes her acutely aware of the importance of correct coding and accurate documentation for maximizing reimbursement. She is recognized by her peers for being able to solve difficult orthopaedic coding and reimbursement problems using strong clinical and business skills.

Known for her ability to relate to orthopaedic surgeons using “their language,” she is able to convince most administrators of the value of surgeon participation in the reimbursement process. This unique skill makes her an asset to staff and administrators alike.

Margaret has extensive experience speaking regularly to private and academic orthopaedic departments, state orthopaedic societies, and as a featured speaker for national organizations like AAOE, the Musculoskeletal Tumor Society, The American Association of Hip and Knee Surgeons, the Western Orthopaedic Association, Gait and Clinical Movement Analysis Society, and Pediatric Orthopaedic Society of North America.
2010 OTA Pre-Meeting Course
International Orthopaedic Trauma Care Forum
William G. DeLong, Jr., MD, Andrew H. Schmidt, MD, Wade R. Smith, MD, Co-Chairs

Attendees of this activity can earn up to 5.5 AMA PRA Category I Credits™.

Wednesday, October 13, 2010

Target Audience
Attendees of the 26th Annual Meeting of the Orthopaedic Trauma Association, orthopaedic trauma surgeons, fellows and residents, basic scientists, bioengineers and biologists.

Forum Objectives
1) Learn about methods to manage neglected fractures in resource-poor environments;
2) Increase understanding and knowledge of issues for orthopaedic trauma care in mass casualty response for disasters in developing countries.

Mission Statement
The mission of the International Relations Committee of the OTA is to assist in the global delivery of a high standard of trauma care by participating with our colleagues around the world in a collaborative effort to: develop an extensive network of orthopaedic traumatologists, provide international educational opportunities, and to increase access and opportunity to join the OTA and participate in its meetings and educational offerings.

International Relations Committee
William G. DeLong, Jr. MD, Chair
Jeffrey O. Anglen, MD Andrew H. Schmidt, MD
Peter V. Giannoudis, MD Wade R. Smith, MD
Steven J. Morgan, MD David C. Templeman, MD
Saqib Rehman, MD Lewis G. Zirkle, Jr., MD

International Membership Committee
Peter V. Giannoudis, MD, Chair (United Kingdom)
Ney Amaral, MD (Brazil)
Guenter C. Lob, MD (Germany)
Akira Oizumi, MD (Japan)
Hans-Christoph Pape, MD (Germany)
Thomas (Toney) A. Russell, MD (China Focus)

Program

Wednesday, October 13, 2010

7:00 AM Registration – Holiday Ballroom Foyer (West)
7:45 AM Introduction: William G. DeLong, Jr., MD
OTA International Committee Chair

7:55 AM SYMPOSIUM I:
Disasters in Developing Countries and Mass Casualty Response
Moderators: William G. DeLong, MD Lewis G. Zirkle, Jr., MD
Lewis G. Zirkle, Jr., MD – SIGN President
Jie Tao, MD – Shanghai First People’s Hospital, Shanghai, Jiao Tong University, Shanghai, China
TBA
Officers of Societie Haitian Orthopedie Traumatology (SHOT)
Dr. Hans Larsen – President
Dr. Bernard Nau – Secretary General
Dr. Andre – Chair, Research & Education
Discussion

9:05 AM – 10:33 AM Upper Extremity

PAPER SESSION I:

Hook Plating for the Treatment of Displaced Type 2 Lateral Clavicle Fractures
Yeming Wang, MD; Jianguo Zhang, MD; Tianjin Hospital, Tianjin, China

The Results of Open Reduction and Internal Fixation for Delayed Proximal Humeral Fractures
Manyi Wang, MD; Yi Lu, MD; Chunyan Jiang, MD; Beijing Ji Shui Tan Hospital, Beijing, China

Pre-registration deadline September 13 — Registration form on page 35 of Booklet.
9:21 AM  Clinical Management of Radial Nerve Palsy (RNP) Associated with Humeral Shaft Fracture
Bosong Zhang, MD; Manyi Wang, MD; Beijing Jishuitan Hospital, Beijing, China

9:29 AM  Discussion

9:45 AM  The Functional Outcome after Surgical Treatment of Capitellar Fractures: A Retrospective Review of Sixteen Cases
Yeming Wang, MD; Jianguo Zhang, MD; Tianjin Hospital, Tianjin, China

10:01 AM  New Distraction Device for Reduction of Distal Forearm Fractures
Ismail Mohamad Wardak, MD; SIGN Scholar, National Military Hospital, Kabul, Afghanistan

10:09 AM  Neglected /Unreduced Perilunate Dislocations: Is Late Surgical Reduction Justified?
Mandeep Dhillon, MD; Sameer Aggarwal, MD; Sharad Prabhakar, MD; Chandigarh, India

10:17 AM  Discussion

10:33 AM  Break

10:50 AM – 12:26 PM  PAPER SESSION II:
Lower Extremity
Moderators: Jeffrey O. Anglen, MD Peter V. Giannoudis, MD

10:50 AM  Evolution of a New External Fixation System in Afghanistan War and Its Use in Civilian Practice
Naresh Kumar Aggarwal; Adesh Institute of Medical Sciences & Research, Bhatinda and IOSTC, Gurdiev Hospital, Ludhiana, India

10:58 AM  Is the SIGN Nail Ideal for Open Fractures of the Lower Extremities?
Edmund Ndalama Eliezer, MD; Dar Es Salaam, Tanzania

11:06 AM  Pre Operative Assessment of Length of Nail Required in Patients with Bilateral Femoral Shaft Fractures
Naresh Kumar Aggarwal, MD; Adesh Institute of Medical Sciences & Research, Bhatinda and IOSTC, Gurdiev Hospital, Ludhiana, India

11:14 AM  Atrophic Distal Femur Nonunion
Bartolome Luis Allende, MD; Sanatorio Allende Hospital, Cordoba, Argentina

11:22 AM  Discussion

11:38 AM  Variation in Post Operative Rotational Alignment following Locked Intramedullary Nailing for Fracture Shaft Femur in Adults
Navendu Goyal; Arul K. Saran MD; Jeevan Singh Prakash, MD; Christian Medical College and Hospital, Ludhiana, India

11:46 AM  Functional Outcome of Grade IIIa and IIIb Open Fractures of Distal Femur
S. Rajasekaran, PhD; J. Dheenadhayalan, MD; Ganga Hospital, Coimbatore, India

11:54 AM  Proximal Tibial Fractures: A New Treatment Modality
Naresh Kumar Aggarwal, MD; Adesh Institute of Medical Sciences & Research, Bhatinda and IOSTC, Gurdiev Hospital, Ludhiana, India

12:02 PM  Fibular Head Osteotomy: A New Approach for the Treatment of Lateral or Posterolateral Tibial Plateau Fractures
Baoqing Yu, MD; Kaiwei Han, MD; Changhai Hospital, The Second Military Medical, Shanghai, China

12:26 PM  Lunch

1:30 PM – 2:18 PM  SYMPOSIUM II:
Cost Effective Novel Approaches to Fracture Management with Bone Loss or Defects
Moderators: Wade R. Smith, MD J. Tracey Watson, MD

1:32 PM  Masquelet Technique
Professor Ram Shab, MD Director, Nepal Medical College Hospital, Nepal, India
International Orthopaedic Trauma Care Forum Program, cont'd

1:40 PM  Lengthening on Nail  
          Ba Hyinh Linh, MD  
          Vietnam

1:48 PM  Ilizarov Technique for Bone Transport  
          Ismail Mohamad Wardak, MD  
          SIGN Scholar, Kabul, Afghanistan

1:56 PM  TBA –  
          Military Hospital in Bogota, Columbia

2:02 PM  Discussion

2:18 PM –  
3:40 PM  PAPER SESSION III:  
          Complications, Spine, Pelvis  
          Moderators: Steven J. Morgan, MD  
          David C. Templeman, MD

2:18 PM  Management of Infected Non-Union in  
          Long Bones: Our Experience with  
          Bone Cement  
          Mayank Agrawal, MD1;  
          Lalit Maini, MD2;  
          1University College of Medical Sciences,  
          Delhi, India;  
          2Maulana Azad Medical College,  
          New Delhi, India

2:26 PM  An Innovative, Cost Effective, Negative  
          Pressure Device for Management of  
          Bedsores in Traumatic Paraplegia  
          Rajeshwar Nath Srivastava, MD;  
          King Georges' Medical College,  
          CSM Medical University,  
          Lucknow, India

2:34 PM  Sequential Reduction Protocol Using  
          Vector Principle for Cervical Fracture  
          Dislocations - An Algorithm  
          Rajeshwar Nath Srivastava, MD;  
          King Georges' Medical College,  
          CSM Medical University,  
          Lucknow, India

2:42 PM  Discussion

2:58 PM  Break

3:15 PM  Both-Column Fractures of the Acetabulum  
          Treated by Simultaneous Ilioinguinal and  
          Kocher-Langenbeck Approaches  
          Carlos F. Sancineto, MD;  
          Guido Carabelli, MD;  
          Maria V. Gimenez, MD;  
          Hospital Italiano de Buenos Aires,  
          Buenos Aires, Argentina

3:23 PM  Delayed Management of Vertically  
          Unstable Pelvic Injuries  
          Jorge D. Barla, MD;  
          Carlos F. Sancineto, MD;  
          Griselda Schenonne, MD;  
          Hospital Italiano de Buenos Aires,  
          Buenos Aires, Argentina

3:31 PM  Treatment of Tile's B2-type Pelvic  
          Fractures with Posterior Locking  
          Compression Plates and Anterior Pelvic  
          External Fixation  
          Qiu-Gen Wang, MD;  
          Dong-Hua Hang, MD;  
          Shanghai First People's Hospital,  
          Shanghai, China

3:39 PM  Discussion

3:55 PM  Adjourn

International Reception  
All international attendees are welcome.  
(Hilton Baltimore, Level 2, Key Ballroom 9 - 10)

2009 International Orthopaedic Trauma Care Forum guests.
2010 OTA Pre-Meeting Course

Young Practitioners Forum

Lisa K. Cannada, MD, Chair

Attendees of this activity can earn up to 3.75 AMA PRA Category I Credits™.

Thursday, October 14, 2010

Target Audience
This course is designed for orthopaedic residents, fellows and young practitioners to promote career planning and development during residency and selection of best practice environment.

Forum Objectives
1) Increase knowledge and understanding of the fellowship, job interviewing and negotiating processes;
2) Learn important tips for young practitioners in different practice settings;
3) Identify successful strategies for financial management;
4) Increase awareness of opportunities outside the operating room including volunteer opportunities and health policy issues.

Program

Thursday, October 14, 2010

8:00 AM
Introduction and Welcome
Timothy J. Bray, MD
OTA President

8:08 AM
Overview
Lisa K. Cannada, MD
- Trauma Profile for Young Practitioners 2010

8:14 AM
Choosing a Fellowship
Sean M. Griffin, MD, U. Florida, Gainesville
- The Match Process:
  - An Experience from a Candidate's Perspective: The Trenches
  - Approaching the Match Process

Names in **Bold** = Presenter

8:21 AM
Top 10 Questions to Ask When Interviewing
Judith A. Siegel, MD

8:32 AM
Top 10 "Must Haves" for Your First Job
Bruce H. Ziran, MD

8:43 AM
Negotiating
Alan L. Jones, MD
- The Top 10 Questions to Get Answered before You Sign the Bottom Line

9:06 AM

9:16 AM
Top 10 Hints in Practice Set-up for the Community Trauma Surgeon
Aaron G. Osborne, DO
- Including How to Use Physician Extenders & Support Staff Effectively

9:37 AM
Top 10 Hints in Practice Set-up for the Academic Trauma Surgeon
Michael J. Gardner, MD

9:48 AM
My First Year in Practice
Frank A. Liporace, MD
- What I Learned
- What I Wish I Knew
- What I Would Do Differently

10:00 AM
QUESTIONS and BREAK

10:21 AM
Top 10 Things the OTA Has to Offer the Young Practitioner
Kathleen Caswell, OTA Executive Director

### Young Practitioners Forum Program, cont’d

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>10:32 AM</td>
<td>Things You Never Thought Of</td>
<td>J. Tracy Watson, MD</td>
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<td>- Resources</td>
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<td>- Consulting Agreements</td>
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<td>- Longevity in Your Career</td>
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<td>10:45 AM</td>
<td>Top 10 Hints When Searching for Another Job</td>
<td>Troy H. Caron, DO</td>
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<td>10:55 AM</td>
<td>Top 10 Hints for Personal Financial Management</td>
<td>Roy Sanders, MD</td>
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<td>11:16 AM</td>
<td>Outside of the Operating Room</td>
<td>Samir Mehta, MD</td>
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<td>- Health Care Policy: Why Should I Care?</td>
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<td>- Opportunities for Volunteering</td>
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<td>11:27 AM</td>
<td>QUESTIONS</td>
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<tr>
<td>11:34 AM</td>
<td>Keynote Address:</td>
<td>Mark S. Vrahas, MD</td>
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<td>Mistakes I Learned From During My First Five Years in Practice</td>
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<td>- As a Trauma Surgeon</td>
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<td>- As a Pelvic and Acetabular Surgeon</td>
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<td>11:56 AM</td>
<td>Wrap-up</td>
<td>Lisa K. Cannada, MD</td>
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<td>12:00 AM</td>
<td>Lunch with Faculty and Questions</td>
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<td>1:00 PM</td>
<td>26th ANNUAL MEETING BEGINS</td>
<td>(Baltimore Convention Center, Hall A)</td>
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### Scientific Posters

*Baltimore Convention Center Hall A/B Foyer*

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<tr>
<td>Saturday</td>
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### Technical Exhibits

*Baltimore Convention Center Hall B* will be open:

<table>
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<tr>
<th>Day</th>
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<tr>
<td>Thursday</td>
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<td>Friday</td>
<td>9:30 AM - 5:00 PM</td>
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<tr>
<td>Saturday</td>
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Pre-registration deadline September 13 — Registration form on page 35 of Booklet.
26th OTA Annual Meeting
Preliminary Program

Attendees of this activity can earn up to 20+ AMA PRA Category 1 Credits™.

Thursday – Saturday, October 14 – 16, 2010

Thursday, October 14, 2010

6:30 AM Registration
(Baltimore Convention Center Hall A/B Foyer)

1:00 PM Welcome
(Baltimore Convention Center, Hall A)
Timothy J. Bray, MD President
William M. Ricci, MD Program Chair
James A. Goulet, MD Program Co-Chair
Andrew N. Pollak, MD Local Host

1:10 – 2:45 PM

2:45 PM – 3:42 PM

Scientific Session I
Upper Extremity
Moderators: William T. Obremskey, MD
Margaret M. McQueen, MD

What Is the Outcome of a Protocol of Non-Operative Treatment of All Displaced Scapula Fractures?
Brent J. Bauer, MD; Robert V. O’Toule, MD; Andrew N. Pollak, MD; Mary Zadnik, OT; W. Andrew Eglseder, MD; R Adams Cowley Shock Trauma, University of Maryland Medical School, Baltimore, Maryland, USA

Surgical and Functional Outcomes after Operative Management of Extra-Articular Glenoid Neck and Scapula Body Fractures
Erich M. Gauger, MD; Peter A. Cole, MD; University of Minnesota, Regions Hospital, St. Paul, Minnesota, USA

Discussion

Electrophysiological Assessment after Minimally Invasive Fracture Treatment of the Proximal Humerus Using a Minimal Anterolateral Acromial Approach
Götz Röderer, MD¹; P. Hansen²; Anne-Dorte Sperfeld, MD²; Florian Gebhard, MD¹; Jan Kassubek, MD²; ¹University of Ulm, Orthopaedic Trauma, Ulm, Germany; ²University of Ulm, Neurology, Ulm, Germany

Fracture-Site Augmentation with Calcium Phosphate Cement Prevents Screw Penetration following ORIF of Proximal Humerus Fractures
Kenneth A. Egol, MD; Michelle Sugi, BS; Crispin Ong, MD; Roy I. Davidovitch, MD; Joseph D. Zuckerman, MD; NYU Hospital for Joint Diseases, New York, New York, USA
Thursday, October 14, 2010, continued

3:14 PM  Discussion

3:19 PM  Results of 70 Consecutive Ulnar Nightstick Fractures

Paper #29

Marlon O. Coulibaly, MD1; Clifford B. Jones, MD2; Debra L. Sietsema, PhD2; James R. Ringler, MD2; Terrence J. Endres, MD2

1Grand Rapids Medical Education and Research Center, Grand Rapids, Michigan, USA;
2Orthopaedic Associates of Michigan; Michigan State University, Grand Rapids, Michigan, USA

3:25 PM  Hand Stiffness following Distal Radius Fractures: Who Gets It and Is It a Functional Problem?

Paper #30

Steve K. Lee, MD1; Nader Paksima, DO1; Nikola Lekic, BA2; Allissa Zingman, BA3; Michael Walsh, PhD4; Kenneth A. Egol, MD1

1NYU Hospital for Joint Diseases, New York, New York, USA;
2Georgetown University, Washington, District of Columbia, USA;
3University of Maryland, College Park, Maryland, USA;
4SUNY Downstate, Brooklyn, New York, USA

3:31 PM  Corrective Osteotomy for Malunited Fractures of the Distal Radius: Do We Need to Use Bone Graft?

Paper #31

Kagan Ozer, MD; Ayhan Kilic, MD; Kyros Ipaktchi, MD; University of Colorado, Denver Health Medical Center, Department of Orthopaedics, Denver, Colorado, USA

3:37 PM  Discussion

3:42 PM  Break

Visit Scientific Posters
(Baltimore Convention Center Hall A/B Foyer)
& Technical Exhibits
(Baltimore Convention Center Hall B)

4:05 – 5:00 PM

Scientific Session II
Basic Science

Moderators: Theodore Mclau, III, MD
Victor A. de Ridder, MD

Immediate Weight Bearing after Fixation of Humeral Shaft Fractures with Small-Fragment Hybrid Plating: A Clinical and Biomechanical Study
Lisa K. Cannada, MD1; J. Tracy Watson, MD1; Courtney B. Farnhorst, BA2; Sean Owen, MD1; James Buchelt, MS2; J. Gary Bledsoe, PhD2

1St. Louis University Hospital, St. Louis, Missouri, USA;
2St. Louis University Medical School, St. Louis, Missouri, USA

Biomechanical Test Load Discrepancies in the Medical Literature
Jacob L. Cartner1; Andy Whitten1; Michael Day, BS2; William M. Ricci, MD3

1Smith & Nephew, Memphis, Tennessee, USA;
2University of Tennessee, Knoxville, Tennessee, USA;
3Washington University Medical School, St. Louis, Missouri, USA

A Comparison between the Use of Unicortical versus Bicortical Medial Malleolar Fixation with Lag Screws
Robert O. Crous, MD; Matthew P. Willis, MD; Timothy B. Ervin, BS; Peter J. Nowotarski, MD

University of Tennessee, College of Medicine Chattanooga, Dept. of Orthopaedic Surgery, Chattanooga, Tennessee, USA

The Effect of Pulsed Electromagnetic Field (PEMF) upon Diabetic Fracture Healing
Elan Goldwaser, BS; Ravi Verma, MD; David Paglia, PhD; Eric A. Breitbart, MD; Sharonda Meade, PhD; Siddhant Mehta, MD; Christopher Ojeda, BS; Anne Marie Simon, PhD; Ankur Gandhi, PhD; Sheldon S. Lin, MD; UMDNJ: New Jersey Medical School, Newark, New Jersey, USA

Discussion

Pre-registration deadline September 13 — Registration form on page 35 of Booklet.
Unfocused Extracorporeal Shock Waves Induce Anabolic Responses in Osteoporotic Bone
Olav P. van der Jagt, MD; J.H. Waarsing, PhD; Nicole Kops, BS; Wolfgang Schaden, MD; Victor A. De Ridder, MD; Jan Verhaar, MD; Harrie Weinans, PhD
1Erasmus MC, Rotterdam, The Netherlands; 2Traumacenter Meidling, Vienna, Austria; 3Sint Franciscus Hospital, Rotterdam, The Netherlands

Comparison of Osteogenic Potential of Different Bone Morphogenetic Proteins
Jessica C. Cross, MD; Christopher R. Rathbone, PhD; Joseph C. Wenke, PhD
1United State Army Institute of Surgical Research and Brooke Army Medical Center, San Antonio, Texas, USA; 2United States Army Institute of Surgical Research, Fort Sam Houston, Texas, USA

Altered Bone Quality in Bisphosphonate-Related Femoral Fractures of Postmenopausal Women
Brian J. Rebolledo, BA; Eve Donnelly, PhD; Dean G. Lorich, MD; Brian P. Gladnick, BA; Aasis Unnanuntana, MD; Adele L. Boskey, PhD; Joseph M. Lane, MD
1Weill Cornell Medical College, New York, New York, USA; 2Hospital for Special Surgery, New York, New York, USA

Discussion

Welcome Reception

Join the OTA for cocktails and a generous assortment of hors d’oeuvres at Oriole Park at Camden Yards.

Oriole Park at Camden Yards is home field of the Baltimore Orioles. Completed in 1992 to replace Memorial Stadium, it is the first of the “retro” major league ballparks constructed during the 1990s and early 2000s.
Friday, October 15, 2010

6:30 AM  Registration – (Baltimore Convention Center Hall A/B Foyer)

**CHOOSE TO ATTEND ONE:**

**Please Bring Difficult Cases for Consultation**

6:30 AM  Continental Breakfast

6:45 – 7:45 AM  

**Case Presentations**

**Proximal Humerus Fractures** (#F-1)
Moderator:  Michael J. Gardner, MD
Faculty:  Clifford B. Jones, MD and Samir Mehta, MD

**Nonunions and Malunions** (#F-2)
Moderator:  Stuart M. Gold, MD
Faculty:  Mark C. Reilly, MD; William M. Ricci, MD and J. Tracy Watson, MD

**The Not-So-Straightforward Ankle Fracture** (# F-3)
Moderator:  Justin K. Greisberg, MD
Faculty:  Stephen K. Benirschke, MD and David W. Sanders, MD

**Nailing Difficult Femur and Tibia Fractures** (# F-4)
Moderator:  Robert F. Ostrum, MD
Faculty:  Dolfi Herscovici, Jr., DO; Robert A. Probe, MD and Paul Tornetta, III, MD

**Fractures About the Knee** (# F-5)
Moderator:  David P. Barei, MD
Faculty:  Thomas F. Higgins, MD and James P. Stannard, MD

8:00 – 9:30 AM

**Symposium II:**

**Disaster Preparedness:**

**What We Learned from Haiti**

Moderator:  Christopher T. Born, MD
Andrew N. Pollak, MD
Mark P. McAndrew, MD
David D. Teuscher, MD
Michael J. Bosse, MD
Capt. Daniel V. Unger, MD
(Convention Center Hall A)

Pre-registration deadline September 13 — Registration form on page 35 of Booklet.
9:00 –
11:14 AM

Scientific Session III
Geriatrics

Moderators: Michael J. Gardner, MD
Kenneth A. Egol, MD

10:00 AM

Radiographic Evaluation of
Intertrochanteric Hip Fractures Treated
With or Without Distal Interlocking in a
Cephalomedullary Construct
George Karl Van Osten, III, MD;
Mark A. Lee, MD;
1North Mississippi Medical Center,
Tupelo, Mississippi, USA
2University of California, Davis,
Sacramento, California, USA

10:06 AM

Risk of Complications following Treatment
of Intertrochanteric Hip Fractures with
Intramedullary Nails and Plate Fixation in
the Medicare Population
Arthur L. Malkani, MD1; Colin Carroll1;
Craig S. Roberts, MD1; David Seligson, MD1;
Edmund Lau, PhD2; Steven Kurtz, PhD2;
Kevin Ong, PhD2;
1University of Louisville,
Louisville, Kentucky, USA;
2Exponent Inc,
Philadelphia, Pennsylvania, USA

10:12 AM

The Orthopaedic Traumatologist and the
Peritrochanteric Hip Fracture: Does
Experience Matter?
Paul Tornetta, III, MD;
T. William Axelrad, MD; Alex Dehaan, MD;
William R. Creevy, MD;
Boston University Medical Center,
Boston, Massachusetts, USA

10:18 AM

Discussion

10:23 AM

Bipolar Hemiarthroplasty Compared with
Total Hip Arthroplasty in Patients with
Displaced Femoral Neck Fractures:
A Four-Year Follow-Up of a Randomized
Controlled Trial
Carl Johan Hedbeck, MD1;
Anders Enocon, MD, PhD2;
Gunilla Lapidus, MD2;
Richard Blomfeldt, MD, PhD1;
Hans Törnkvist, MD, PhD1;
Sari Ponzer, PhD1; Jan Tidermark, MD, PhD1;
1Karolinska Institutet, Dept. of Clinical
Science and Education, Sodersjukhuset,
Stockholm, Sweden;
2Unilabs St. Goran Radiology,
Capio St. Goran Hospital,
Stockholm, Sweden

10:29 AM

Functional Status, Morbidity and Mortality
in Cemented versus Press-Fit
Hemiarthroplasty for Displaced Femoral
Neck Fractures: A Prospective
Randomized Trial
Joseph P. DeAngelis, MD1; Arben Ademi, BA2;
Courtland G. Lewis, MD2;
1BIDMC - Orthopaedics,
Boston, Massachusetts, USA;
2Hartford Hospital, University of Connecticut,
Hartford, Connecticut, USA

10:35 AM

Discussion

10:40 AM

Functional and Cardiac Outcomes
Comparing Symptomatic versus 10 g/dL
Transfusion Threshold: A Randomized
Trial in over 2000 Patients with
Hip Fracture
David W. Sanders, MD1;
Jeffrey L. Carson, MD2; Michael L. Terrin, MD1;
Jay L. Magaziner, MD1; Courtland Lewis, MD1;
Lauren Beaufre, MD1; William McAuley, MD5;
Kevin Hildebrand, MD6;
1University of Western Ontario,
London, Ontario, Canada;
2UMDNJ: New Jersey Medical School,
Newark, New Jersey, USA;
3University of Maryland,
College Park, Maryland, USA;
4University of Alberta,
Edmonton, Alberta, Canada;
5Columbia University,
Columbia, New York, USA;
6University of Calgary,
Calgary, Alberta, Canada

Friday, October 15, 2010, continued

10:52 AM  Discussion

10:57 AM  Mortality after Distal Femur Fractures in Elderly Patients
Paper #46

11:03 AM  Changes in Hip Fracture Rates in British Columbia Canada, 1990-2004
Paper #47

11:09 AM  Discussion

11:14 AM – 12:05 PM

Scientific Session IV
Foot and Ankle

Moderators:  Shepard R. Hurwitz, MD
Roy Sanders, MD

Operative versus Non-Operative Treatment of Unstable Lateral Malleolar Fractures:
Results of a Multi-Centre Randomized Trial
David W. Sanders, MD; Christina A. Tieszer;
Canadian Orthopedic Trauma Society;
University of Western Ontario,
London, Ontario, Canada

Treatment of the Stress-Positive Ligamentous SE4 Ankle Fracture:
Incidence of Syndesmotic Injury and Clinical Decision Making
Paul Tornetta, III, MD; T. William Axelrad, MD;
William R. Creevy, MD;
Boston University Medical Center,
Boston, Massachusetts, USA

Prospective Intraoperative Syndesmotic Evaluation during Treatment of Ankle Fractures: Stress External Rotation versus Lateral Fibular Stress
Derek G. Dombroski, MD; Paul E. Matuszewski, MD;
J. Todd Lawrence, MD; John Esterhai, MD;
University of Pennsylvania,
Department of Orthopaedic Surgery,
Philadelphia, Pennsylvania, USA

Staged Posterior Tibial Plating for the Treatment of OTA 43C2 & 43C3 Tibial Pilon Fractures
John Ketz, MD; Roy Sanders, MD;
Florida Orthopaedic Institute,
Tampa, Florida, USA

Intraoperative Stress Examination of the Lateral Midfoot for Lisfranc Injuries
Chris Steyn, MBChB, CCFP;
David Sanders, MD, MSc, FRCSC;
University of Western Ontario,
London, Ontario, Canada

Pre-registration deadline September 13 — Registration form on page 35 of Booklet.
11:54 AM  Summed Scores for Hindfoot and Ankle Trauma: What Do They Really Tell Us and How Many Do We Need?   
Paul Tormenta, III, MD; Rabah Qadir, MD;  
Roy Sanders, MD;  
1Boston University Medical Center,  
Boston, Massachusetts, USA;  
2Tampa General Hospital,  
Tampa, Florida, USA

12:00 PM  Discussion

12:05 – 1:00 PM  Lunch

1:00 – 2:30 PM  Concurrent Sessions  
Skills Labs and Mini Symposia

**Skills Labs**

**IM Nailing of Proximal Tibia Fractures with Semi-Extended Nailing Technique (#F-6)**  
Moderator:  Thomas (Toney) A. Russell, MD

**ORIF Distal Humerus Fractures (#F-7)**  
Moderator:  Michael D. McKee, MD

**ORIF Calcaneus (#F-8)**  
Moderator:  Roy Sanders, MD

**Mini Symposia**

**Management of Blast Injuries for Civilian Surgeons (#F-9)**  
Moderator:  LTC Romney C. Andersen, MD  
Faculty:  MAJ Wade T. Gordon, MD; MAJ Joseph R. Hsu, MD; MAJ B. Kyle Potter, MD and CDR Timothy Whitman, MD

**Bone Graft Options (#F-10)**  
Moderator:  Craig S. Roberts, MD, MBA  
Faculty:  Peter V. Giannoudis, MD and Bruce H. Ziran, MD

**Periprosthetic Fractures: Current Concepts (#F-11)**  
Moderator:  Emil H. Schemitsch, MD  
Faculty:  Jeremy A. Hall, MD; Richard J. Jenkinson, MD; Hans J. Kreder, MD; Markku Nousiainen, MD and David J. Stephen, MD

Pre-registration deadline September 13 — Registration form on page 35 of Booklet.
A Comparison of Locked versus Non-Locked Enders Rods for Length-Unstable Pediatric Femoral Shaft Fractures
Henry B. Ellis, MD¹; Christine A. Ho, MD¹; David A. Podeszwa, MD²; Philip L. Wilson, MD²;
¹University of Texas Southwestern, Dallas, Texas, USA;
²Texas Scottish Rite Hospital, Dallas, Texas, USA

Isolated Pediatric Tibial Shaft Fractures Do Not Need to be Treated in Above-Knee Cast
Joshua W.B. Klatt, MD; Alan K. Stotts, MD; John T. Smith, MD
University of Utah, Primary Children’s Medical Center, Salt Lake City, Utah, USA

Spica Casting in Pediatric Femur Fractures: A Prospective Randomized Controlled Study of 1-Leg versus 1.5-Leg Spica Casts
Dirk Leu, MD; Erkula Gurkan, MD; M. Catherine Sargent, MD; Michael C. Ain, MD; Arabella I. Leet, MD; John E. Tis, MD; Greg M. Osgood, MD; Paul D. Sponseller, MD; Johns Hopkins Hospital, Baltimore, Maryland, USA

Delay in Surgery for Displaced Supracondylar Humeral Fracture: Does It Matter?
Gunasekaran Kumar, FRCS; Antoni Otto, MBBS; Alfie Bass, FRCS; Royal Liverpool Children’s Hospital, Alder Hey Children’s NHS Foundation Trust, Liverpool, United Kingdom

Discussion

Adjourn
Saturday, October 16, 2010

6:30 AM  Registration – (Baltimore Convention Center Hall A/B Foyer)

CHOOSE TO ATTEND ONE:  Increase your chances for your first choice, register EARLY on-line at www.ota.org. Tickets are required.

Please Bring Difficult Cases for Consultation

6:30 AM  Continental Breakfast

6:45 – 7:45 AM  Case Presentations

Pelvis and Acetabulum (#S-1)
Moderator:  Paul Tornetta, III, MD
Faculty:  Tania A. Ferguson, MD; Charles M. Reinert, MD; Wade R. Smith, MD
and David C. Templeman, MD

The Difficult Proximal Femur Fracture (#S-2)
Moderator:  Lisa K. Cannada, MD
Faculty:  George J. Haidukewych, MD; Frank A. Liporace, MD and Simon C. Mears, MD, PhD

Cases from the Haiti Disaster (#S-3)
Moderator:  Andrew N. Pollak, MD
Faculty:  Michael J. Bosse, MD; John E. Herzenberg, MD; James C. Krieg, MD;
LCDR Christiaan N. Mamczak, DO; Marcus F. Sciadini, MD and R. Malcolm Smith, MD

Elbow Trauma (#S-4)
Moderator:  Michael D. McKee, MD
Faculty:  Jeremy A. Hall, FRCSC; Steven R. Papp, MD; Brad A. Petrisor, MD and Emil H. Schemitsch, MD

Grantsmanship 101: Writing an Effective Proposal (#S-5)
Moderator:  Theodore Miclau, III, MD
Faculty:  Joseph Borrelli, Jr., MD; Edward J. Harvey, MD and Ellen J. MacKenzie, PhD

Attendees are invited to bring x-rays/radiographs.

8:00 – 9:30 AM  Symposium III: Orthopaedic Trauma Call: Opportunity or Obligation?
Moderator:  Heather A. Vallier, MD
Faculty:  Timothy J. Bray, MD
Renn J. Crichlow, MD
Brendan M. Patterson, MD
Wade R. Smith, MD
(Convention Center Hall A)

9:30 AM  Break
Visit Scientific Posters
(Baltimore Convention Center Hall A/B Foyer)
& Technical Exhibits
(Baltimore Convention Center Hall B)
10:00 AM – 11:50 AM
Scientific Session VI
Polytrauma and Femur

Moderators:  William M. Ricci, MD
Joseph Borrelli, Jr., MD

10:00 AM
Early Appropriate Care: Definitive Stabilization of Femoral Fractures within 24 Hours of Injury Is Safe in Most Multiply-Injured Patients
Nickolas J. Nahm, BS; John J. Como, MD; John H. Wilber, MD; Heather A. Vallier, MD; MetroHealth Medical Center, Cleveland, Ohio, USA

10:06 AM
The Effect of Intramedullary Nailing on Cognitive Impairment following Multiple Trauma without Intracranial Hemorrhage
Justin E. Richards, MD;
Oscar D. Guillamondegui, MD;
E. Wesley Ely, MD; James C. Jackson, PsyD;
Kristin Archer-Suygart, PhD;
William T. Obremskey, MD, MPH;
Vanderbilt University Medical Center, Nashville, Tennessee, USA

10:12 AM
Do Patients with Multiple System Injury Benefit from Early Fixation of Unstable Axial Fractures? The Effects of Timing of Surgery on Initial Hospital Course
Heather A. Vallier, MD;
Dennis M. Super, MD, MPH;
Timothy A. Moor, MD; John H. Wilber, MD; MetroHealth Medical Center, Cleveland, Ohio, USA

10:18 AM
Discussion

10:23 AM
Surgical Stabilization of Flail Chest with Locked Plate Fixation
Peter L. Althausen, MD; Daniel Coll, PAC; Timothy O’Mara, MD; Timothy J. Bray, MD; 1Reno Orthopaedic Clinic, Reno, Nevada, USA;
2Renown Regional Medical Center, Reno, Nevada, USA

10:29 AM
A High Ratio of Fresh Frozen Plasma to Packed Red Blood Cells Significantly Decreases Mortality in Femur Fracture Patients Requiring Massive Transfusion
Justin Michael Broyles, BS; Gavin Wagenheim, BBA; Sartaj Alam, MS; Catherine Ambrose, PhD; Milan Sen, MD; The University of Texas Health Science Center at Houston, Houston, Texas, USA

10:35 AM
Is Septicemia a Contraindication to Internal Fixation in the Multiply Traumatized Patient?
Robert F. Ostrum, MD; Julieanne P. Sees, DO; Patrick Kane, MD; Robert Marburger, RN; 1Cooper University Hospital, Camden, New Jersey, USA;
2UMNDJ- School of Osteopathic Medicine, Newark, New Jersey, USA;
3Brown University Medical School, Providence, Rhode Island, USA

10:41 AM
Discussion

10:46 AM
Negative Pressure Wound Therapy (NPWT) Reduces Effectiveness of Antibiotic Beads
CPT Daniel J. Stinner, MD; MAJ(P) Joseph R. Hsu, MD; Joseph C. Wenke, MD; United States Army Institute of Surgical Research, Fort Sam Houston, Texas, USA

10:52 AM
Is Time to Flap Coverage an Independent Predictor of Flap Complication
Jean-Claude G. D’Alleyrand, MD; Lindsay Dancy, BS; Renan Castillo, PhD; J.B. Bertumen, BS; Theodore T. Manson, MD; 1R Adams Cowley Shock Trauma, Dept of Orthopaedics, University of Maryland School of Medicine, Baltimore, Maryland, USA; 2Center for Injury Research and Policy, Johns Hopkins Bloomberg School of Public Health, Baltimore, Maryland, USA

10:58 AM Paper #72
The Military Extremity Trauma
Amputation/Limb Salvage (METALS)
Study: Comparing Outcomes for Amputation versus Limb Salvage following Major Lower Extremity Trauma
William C. Doukas COL(Ret.), MD1
Romney C. Andersen, LTC, MD2
James R. Ficke, COL, MD3
Roman Hayda, COL(Ret), MD4
John J. Keeling, CDR, MD5
Anthony Carlini5
1 UHC Orthopaedics, Clarksburg, West Virginia, USA; 2Walter Reed National Military Medical Center, Washington, District of Columbia, USA; 3San Antonio Military Medical Center, San Antonio, Texas, USA; 4Brown University Medical School, Providence, Rhode Island, USA; 5Johns Hopkins University, Baltimore, Maryland, USA

11:09 AM Paper #73
The Fate of Patients with a ‘Surprise’ Positive Culture after Nonunion Surgery
Paul Tornetta, III, MD1; Dana Olszewski, MD1; Clifford Jones, MD2; Martin Hoffmann, MD2; Debra Sietsema, PhD2; Charlton Stucken, MD3; William R. Crewey, MD3; William M. Ricci, MD3; Michael Gardner, MD3; Philipp Streubel, MD3
1 Boston University Medical Center, Boston, Massachusetts, USA; 2Orthopaedic Associates of Michigan, Grand Rapids, Michigan, USA; 3Washington University Medical Center, St. Louis, Missouri, USA

11:15 AM Paper #74
Does Long Term Donor Site Morbidity after Anterior Iliac Crest Bone Graft Harvesting Exist?
Sangmin Ryan Shin, MD; Paul Tornetta, III, MD; Boston University Medical Center, Boston, Massachusetts, USA

11:43 AM – 12:50 PM Discussion

11:26 AM Paper #75
CT Scans Have a High Rate of Missed Femoral Neck Fractures
Robert V. O’Toole, MD1; Lindsay Dancy, BS1; Adam R. Dietz, MD1; Aaron J. Johnson, MD, MS1; Andrew N. Pollak, MD1; Gregory Osgood, MD1; Jason W. Nascone, MD2; Marcus F. Sciadini, MD1; Renan C. Castillo, PhD3
1 R Adams Cowley Shock Trauma Center, Department of Orthopaedics, University of Maryland Medical School, Baltimore, Maryland, USA; 2Center for Injury Research and Policy, Johns Hopkins Bloomberg School of Public Health, Baltimore, Maryland, USA

11:32 AM Paper #76
Radiation Exposure Has Increased in Trauma Patients over Time
Kasra Ahmadinia, MD; Ben Smucker, MD; Clyde L. Nash, MD; Heather A. Vallier, MD; MetroHealth Medical Center, Cleveland, Ohio, USA

11:38 AM Discussion

11:43 AM – Lunch

12:50 PM LAST OPPORTUNITY TO VISIT Technical Exhibits (Baltimore Convention Center Hall B)
1:00 – 2:30 PM
**Concurrent Sessions**

Skills Labs and Mini Symposia

**CHOOSE TO ATTEND ONE:** Increase your chances for your first choice, register EARLY on-line at www.ota.org.

*Tickets are required.*

### Skills Labs

**ORIF Distal Radius** (#S-6)
Moderator: David C. Ring, MD

**IM Nailing Trochanteric Fractures** (#S-7)
Moderator: Richard F. Kyle, MD

**SIGN Nailing** (#S-8)
Moderator: Lewis G. Zirkle, Jr., MD

### Mini Symposia

**2 Minutes/ 2 Slides: Technical Tips and Tricks (Rapid Fire Cases)** (#S-9)
Moderator: Pierre Guy, MD
Faculty: Richard E. Buckley, MD; Kelly A. Lefaivre, MD; Mark C. Reilly, MD; Emil H. Schemitsch, MD and Paul Tornetta, III, MD

**Infection Following Internal Fixation – What’s New?** (#S-10)
Moderator: Andrew H. Schmidt, MD
Faculty: Jeffrey O. Anglen, MD, William T. Obremskey, MD; Mark E. Shirkiff, PhD and Robert V. O’Toole, MD

**Soft Tissue Coverage for the Non-Microsurgeon** (#S-11)
Moderator: Gregory L. DeSilva, MD
Faculty: Michael T. Archdeacon, MD and Stephen D. DeSilva, MD

2:30 PM
Break
Visit Scientific Posters
(Baltimore Convention Center Hall A/B Foyer)

3:00 – 3:30 PM

**John Border Memorial Lecture**

(Convention Center Hall A)

**Introduction**

*John H. Wilber, MD, AONA President*
Lecture Co-sponsored by AONA

Sigvard T. Hansen, Jr., MD
Professor, Director of the Sigvard T. Hansen, Jr., MD Foot and Ankle Institute, University of Washington, Seattle, Washington, USA

Scientific Session VII
Pelvis and Spine

Moderators: James A. Goulet, MD
Clifford B. Jones, MD

3:30 PM
Paper #77
Defining the Role of Examination Under Anesthetic in Determining the Need for Surgical Stabilization after Traumatic Pelvic Ring Injuries
H. Claude Sagi, MD;
Franco M. Coniglione, DO;
Jason H. Stanford, DO;
Orthopedic Trauma Service, Tampa General Hospital, Tampa, Florida, USA

3:36 PM
Paper #78
Outcome of Posterior Wall Fractures of the Acetabulum Treated Nonoperatively after Diagnostic Screening by Dynamic Stress Examination under Anesthesia
Charles S. Grimshaw, MD;
Berton R. Moed, MD;
St. Louis University School of Medicine, St. Louis, Missouri, USA

3:42 PM
Paper #79
Operative Fixation versus Reconstruction with THA for Acute Acetabular Fractures in the Elderly Population
Michael J. Weaver, MD;1,2; Micah Miller, BS;1,2; David Lhote, MD; Malcolm Smith, MD;1,2;
Mark S. Vrahas, MD;1,2;
1Brigham and Women’s Hospital and Massachusetts General Hospital, Boston, Massachusetts, USA;
2Massachusetts General Hospital, Boston, Massachusetts, USA

3:48 PM
Discussion

3:53 PM
Paper #80
Sequential Duplex Ultrasound Screening for Deep Venous Thrombosis in Asymptomatic Patients with Acetabular and Pelvic Fractures Treated Operatively
Berton R. Moed, MD; John R. Miller, BS;
St. Louis University School of Medicine, St. Louis, Missouri, USA

3:59 PM
Paper #81
Use of Temporary Partial Intrailiac Balloon Occlusion for Decreasing Blood Loss during Open Reduction and Internal Fixation of Acetabular and Pelvic Fractures
Justin C. Siebler, MD;
Thomas DiPasquale, MD; H. Claude Sagi, MD;
Florida Orthopaedic Institute, University of South Florida, Tampa, Florida, USA

4:05 PM
Paper #82
Adaptive Prophylaxis Against Heterotopic Ossification Based on Body Habitus
Waleed F. Mourad, MD;1,2 Satya Packianathan, MD;1 Walid Waked, MD;1,2 Rania A. Shourbaji, BS;1 Zhen Zhang, MS;1 Majid A. Khan, MD;1 Matt Graves, MD;1 George V. Russell, MD;1 1University of Mississippi Medical Center, Jackson, Mississippi, USA;2Yale University School of Medicine, New Haven, Connecticut, USA

4:16 PM
Paper #83
Minimally Invasive Surgery (MIS) Reduction and Stabilization with Percutaneous Pedicle Screw and Rod Fixation without Arthrodesis for Unstable Spinal Fractures: Early Experience and Results
Sean Owen, MD; Dirk Alander, MD;
St. Louis University Hospital, St. Louis, Missouri, USA

4:22 PM
Paper #84
Percutaneous Posterior Instrumentation after Unstable Thoracolumbar Fractures: Prospective Analysis of Two Systems
Oliver Gonschorek, MD; Stefan Hauck, MD; Thomas Weiß, MD; Volker Bühren, MD; Department of Spine Surgery, BGU Murnau, Murnau, Germany

4:28 PM
Paper #85
Spine Damage Control: A Safe and Effective Treatment Modality for Unstable Spine Fractures in Multiply Injured Patients
Philip F. Stahel, MD; Michael A. Flierl, MD; Ernest E. Moore, MD; Kathryn M. Beuchamp, MD;
Denver Health Medical Center, Denver, Colorado, USA

Pre-registration deadline September 13 — Registration form on page 35 of Booklet.
Saturday, October 16, 2010, continued

Please share the following excellent educational opportunity with residents.

The OTA Comprehensive Fracture Course for Residents is offered
October 13 - 16, 2010
at Hyatt Regency Baltimore Hotel.
Co-chairs: Laura J. Prokuski, MD
Michael T. Archdeacon, MD

It would be difficult to match the collective knowledge, experience, and commitment to teaching of the outstanding faculty!
Visit www.ota.org for preliminary program and online registration.

Laura J. Prokuski, MD

Additional OTA Educational Opportunities

OTA Membership Application Deadline
(Sponsorship forms available at the Membership Booth at the Convention Center - Apply Online.)
November 1, 2010

Advanced Trauma Techniques Course for Residents (PGY 4-5)
January 14 - 15, 2011
Phoenix, Arizona

OTA Specialty Day
Saturday, February 19, 2011
San Diego, California

OTA Comprehensive Fracture Course for Residents
April, 2011
Rosemont, Illinois

11th Annual AAOS/OTA Joint Trauma Update Course
April, 2011

Orthopaedic Trauma Fellows Course (Registration limited to current trauma fellows.)
April 15 - 17, 2011
Boston, Massachusetts

Disclaimer
The material presented at the 26th Annual Meeting has been made available by the Orthopaedic Trauma Association for educational purposes only. The material is not intended to represent the only, nor necessarily best, method or procedure appropriate for the medical situations discussed, but rather is intended to present an approach, view, statement or opinion of the faculty which may be helpful to others who face similar situations.

The Orthopaedic Trauma Association disclaims any and all liability for injury or other damages resulting to any individual attending the Annual Meeting and for all claims which may arise out of the use of the techniques demonstrated therein by such individuals, whether these claims shall be asserted by physician or any other person.

Disclosure
Presenters are required to disclose whether or not they, or their department, received something of value from a commercial or other party which related directly or indirectly to the subject of their presentation. This disclosure is indicated in the final program. The OTA does not intend this identification to decrease the value of the presentation or to imply bias. It is intended solely for information.

FDA
All drugs and medical devices used in the United States are administered in accordance with Food and Drug Administration (FDA) regulations. These regulations vary depending on the risks associated with the drug or medical device, the similarity of the drug or medical device to products already on the market, and the quality and scope of clinical data available.

Some drugs or medical devices described or demonstrated in Orthopaedic Trauma Association educational materials or programs have not been cleared by the FDA or have been cleared by the FDA for specific uses only. The FDA has stated that it is the responsibility of the physician to determine the FDA clearance status of each drug or device he or she wishes to use in clinical practice.

CME Credit
The Orthopaedic Trauma Association and the American Academy of Orthopaedic Surgeons jointly sponsor the scientific presentations at this 26th Annual Meeting.

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education through the joint sponsorship of the American Academy of Orthopaedic Surgeons and the Orthopaedic Trauma Association. The American Academy of Orthopaedic Surgeons is accredited by the ACCME to provide continuing medical education for physicians.

The American Academy of Orthopaedic Surgeons designates this educational activity for a maximum of 20+ AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

The Basic Science Focus Forum offers a maximum of 12.25 AMA PRA Category 1 Credits™. The Masters Level Trauma Coding Course offers a maximum of 6 AMA PRA Category 1 Credits™. The International Orthopaedic Trauma Care Forum offers a maximum of 5.5 AMA PRA Category 1 Credits™ and The Young Practitioners Forum offers a maximum of 3.75 AMA PRA Category 1 Credits™.
Poster Presentations
Annual Meeting Scientific Posters will be available for viewing at all times during the meeting beginning at 11:00 am on Thursday until 5:00 pm on Saturday in the Baltimore Convention Center Hall A/B Foyer. Peer reviewed abstracts for both podium and poster presentations will be included in the final program book.

Registration Information

- Register on-line at www.ota.org using your OTA Customer ID #. Follow directions online to obtain or search for your OTA Customer ID #.
- Postmarked registrations after September 13 will not be processed; on-site registrations will require an additional $100 late fee. On-line registrations prior to September 20 will not incur the $100 late fee.
- Ensure your space in mini symposia, labs, and case presentations. REGISTER TODAY. Avoid on-site delays and an additional $100 late registration fee.
- All pre-registrations will receive confirmation by mail or e-mail. Badges will be mailed to those registered by September 13.
- The pre-registration form may be photocopied as needed.

Skills Labs, Mini Symposia and Case Presentations

- Ensure your space in Skills Labs, Mini Symposia, and Case Presentations - register early. Tickets are required.
- Skills Labs, Mini Symposia, and Case Presentations FILL EARLY and may be unavailable to on-site registrants.
- Choose the Friday and Saturday Skills Laboratory Sessions, Mini Symposia and Case Presentation Sessions in order of your preference.
- Bring radiographs/x-rays of problem cases for discussion with OTA members.

On-site Registration

- Registrations postmarked after September 13 or on-line registrations after September 20 will be accepted on-site plus an additional $100 late fee).
- On-site Registration for all Meeting Events will be available as follows:
  - Hilton-Holiday Ballroom Foyer:
    - Wednesday: 6:30 AM - 5:00 PM
  - Baltimore Convention Center Hall A/B Foyer:
    - Wednesday: 5:00 PM - 7:00 PM
    - Thursday, Friday & Saturday: 6:30 AM - 5:00 PM
- Exhibitors must register through the OTA office.

Payment

- All meeting registrations must be accompanied by payment.
- Indicate payment - Visa, MasterCard or AMEX with cardholder name, number, expiration date and signature and FAX form directly to: (847)823-0536
- Check made payable to OTA and drawn from a US bank in US dollars.

Cancellations & Refunds

NO REFUNDS AFTER September 27, 2010

- Submit cancellation in writing to OTA office via fax: (847)823-0536 or email: OTA@aaos.org
- Refunds less a $100.00 processing fee per registration will be made in a timely basis by OTA after the close of the OTA Annual Meeting.

Cameras may not be used in any portion of the meeting.
Accommodations

Deadline for reservations: September 11, 2010

The OTA has secured discounted room rates at the Hilton Baltimore. Hotel Reservations should be made no later than September 11th.

The Annual Meeting will take place at the Hilton Baltimore and Baltimore Convention Center.

Rates: Hilton Baltimore –
Single/Double = $217.00 + 13.5% tax

- Book your hotel reservations through Conference Direct, the OTA’s official housing company. Follow the hotel reservation link on the OTA website - http://www.ota.org, for easy, online booking. If you have any questions about your hotel reservations, you can reach Conference Direct at 877-632-8165. Monday - Friday, 8:30 am - 5:30 pm EST or via email: OTA@conferencedirect.com.

Hotel rooms may sell out quickly - don’t delay!

About Baltimore

Baltimore is an independent city and the largest city and cultural center of the U.S. state of Maryland. Founded in 1729, Baltimore is a major U.S. seaport and is situated closer to major Midwestern markets than any other major seaport on the East Coast. Baltimore’s Inner Harbor was once the second leading port of entry for immigrants to the United States and a major manufacturing center. The harbor is now home to Harborplace, a shopping, entertainment, and tourist center, and the National Aquarium in Baltimore. Johns Hopkins University and Johns Hopkins Hospital are now the city’s largest employers. The average temperature for October is 70° with a low of 52°.

POINTS OF INTEREST
- National Aquarium in Baltimore
- Maryland Science Center
- M&T Bank Stadium (home of Ravens football)
- Fells Point
- Walters Art Gallery
- B&O Railroad Museum
- Fort McHenry
- Port Discovery
- Top of the World Observation Center
- Baltimore Museum of Industry & Visionary Art Museum
- Hippodrome Theatre

Transportation

Transportation To/From Airports:
Baltimore Washington International (BWI) -
10 miles from hotel / 15 minute drive time.
Approx costs for airport transportation:
Limousine $35.00 / Super Shuttle $21.00 / Taxi $25.00

Reagan National Airport (DCA) -
41 miles from hotel / 50 minute drive time.
Approx costs for airport transportation:
Limousine $170 / Super Shuttle $115.00 / Taxi $140

Washington Dulles International Airport (IAD) -
70 miles from hotel / 75 minute drive time.
Approx costs for airport transportation:
Limousine $130 / Taxi $100

Rental Car / Hotel Parking:
Since the hotel is conveniently located within walking distance to many restaurants, shopping and entertainment venues and public transportation is readily available, car rental is not recommended. If you have decided to rent a car or will be driving to Baltimore, the following estimated rates apply for hotel parking: Self Parking $26/night, Valet Parking $36/night.

Airline Reservations

Airlines
Special meeting discounts available through United Airlines can be obtained by calling 1-800-521-4041, mention code 552KC or by calling CorpTrav Management Group at 1-800-318-3847. CorpTrav is one of the largest independent global travel management firms, proud to service some of the world’s most prestigious organizations since opening their doors in 1976. CorpTrav Management Group will append any discount related to your meeting, as applicable.

Service Fees:
$32 USD domestic

- Booking with a professional travel agent (via phone or email)
  In addition to your travel reservations, your service fee provides you with:
  • 24/7/365 travel assistance with a live travel agent
  • $200,000 USD in flight insurance
Case Presentations, Skills Labs and Mini Symposia Descriptions

**Friday, October 15, 2010**

**6:45 - 7:45 AM**

**Case Presentations**

*Proximal Humerus Fractures (#F-1)*

Proximal humeral fractures can be difficult to reduce, and to obtain and maintain stable fixation to achieve a good functional outcome. By way of case presentations, this session will highlight newer surgical approaches, reduction techniques, and implant applications to minimize complications. *(Gardner)*

*Nonunions and Malunions (#F-2)*

Case presentations will serve as an open forum for an interactive group discussion with regards to the treatment options for long bone malunions and nonunions. Participants are encouraged to be an active part of the discussion by providing opinions on different treatment avenues. *(Gold)*

*The Not-So-Straightforward Ankle Fracture (#F-3)*

The large posterior malleolus fracture, sometimes referred to as the posterior pilon, has been increasingly recognized as an injury with a poorer prognosis than conventional malleolar injuries. Participants in this symposium will be exposed to several case examples, focusing on how to recognize the more severe injury and how to approach and reduce the fracture. *(Greisberg)*

*Nailing Difficult Femur and Tibia Fractures (#F-4)*

This session will examine the decision making process and surgical techniques necessary to perform intramedullary nailing of juxta-articular fractures of the femur and tibia. Case presentations with in-depth discussions will be used to stress the important aspects for extending the indications of intramedullary nailing. *(Ostrum)*

*Fractures About the Knee (#F-5)*

See on-line registration form for description. *(Barei)*

**1:00 - 2:30 PM**

**Skills Labs**

*IM Nailing of Proximal Tibia Fractures with Semi-Extended Nailing Technique (#F-6)*

See on-line registration form for description. *(Russell)*

*ORIF Distal Humerus Fractures (#F-7)*

See on-line registration form for description. *(McKee)*

*ORIF Calcaneus (#F-8)*

See on-line registration form for description. *(Sanders)*

**Mini Symposia**

*Management of Blast Injuries for Civilian Surgeons (#F-9)*

As terrorist actions continue to be a threat to our civilian populations, it is becoming more likely that civilian orthopaedic surgeons will be required to treat these devastating injuries. Over the past eight years the military has gained experience in dealing with these blast injuries and learned many lessons with regards to managing blast type injuries which is often different from blunt trauma. A panel of active duty military surgeons who treat these injuries on a regular basis will share and review their lessons learned and the current state of knowledge of blast injuries. *(Andersen)*

*Bone Graft Options (#F-10)*

Contemporary approaches to autogenous bone grafting in orthopaedic traumatology require an understanding of basic science and clinical evidence. This symposium will provide an update on clinical evidence, basic science, best practices of autogenous bone grafting and the use of adjuncts, and future directions in basic science research. *(Roberts)*

*Periprosthetic Fractures: Current Concepts (#F-11)*

The increasing number of periprosthetic fractures has resulted in an increasing number of management problems. This symposium reviews the current state of the art techniques and evidence for the management of periprosthetic fractures of the upper and lower extremity. *(Schemitsch)*

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**Early Morning Case Presentations run concurrently.**

**Afternoon Skills Labs and Mini Symposia run concurrently.**

**Tickets are required.**

**Note your preference on page 35.**

**Increase your chances for first choice.**

**Register EARLY at www.ota.org.**

Case Presentations, Skills Labs and Mini Symposia Descriptions, continued

Saturday, October 16, 2010

6:45 - 7:45 AM

Case Presentations

Pelvis and Acetabulum (##S-1)
This case presentation will review the current management of pelvic and acetabular trauma from the initial resuscitation, through internal and external fixation, and finishing with the expected results after treatment. (Tornetta)

The Difficult Proximal Femur Fracture (##S-2)
Often times, a “proximal femur fracture” turns out to be much more than that. This interactive case session will cover three types of fractures about the proximal femur which may present challenges in terms of treatment choice, reduction, fixation and approaches. Three types include: “The Older Patient with a Displaced Femoral Neck Fracture: Is THA the Answer?” “The Unstable Proximal Femur Fractures: Optimizing Technique for Successful Treatment” and “Femoral Head Fractures.” (Cannada)

Cases from the Haiti Disaster (##S-3)
Challenging cases and treatment circumstances encountered during the disaster relief efforts that followed the Haitian earthquake will be reviewed. Subjects to be covered will include challenges related to difficult injuries, difficult circumstances and unprepared surgeons. (Pollak)

Elbow Trauma (##S-4)
Inadequate understanding of the pathoanatomy of complex elbow trauma can lead to serious complications. This mini symposium reviews the current state of the art techniques and evidence for the management of supracondylar elbow fractures. (McKee)

Grantsmanship 101: Writing an Effective Proposal (##S-5)
This seminar reviews strategies for successful grant writing, providing the attendee tips for creating and submitting competitive applications. (Miclau)

1:00 - 2:30 PM

Skills Labs

ORIF Distal Radius (##S-6)
See on-line registration form for description. (Ring)

IM Nailing Trochanteric Fracture (##S-7)
See on-line registration form for description. (Kyle)

SIGN Nailing (##S-8)
The SIGN IM nail interlocking screw system is designed for use in developing countries and for surgeons everywhere who would like to avoid radiation from use of C-arm. The distal interlocking screws can be placed consistently and quickly using a mechanical technique which has been used in 65,000 fractures of long bones. The goal of SIGN nail sawbones skills lab is to discuss techniques for stabilization of tibia, femur and humerus fractures. Table instructors will include surgeons from Dar es Salaam, Tanzania and Kabul, Afghanistan who are OTA-SIGN scholars. (Zirkle)

Mini Symposia

2 Minutes/ 2 Slides: Technical Tips and Tricks (Rapid Fire Cases) (##S-9)
See on-line registration form for description. (Guy)

Infection Following Internal Fixation – What’s New? (##S-10)
This symposium will provide the attendee with a fascinating overview of recent advances in our understanding of biomaterial – associated infection and new strategies to deal with the complicated problem of infection after internal fixation. (Schmidt)

Soft Tissue Coverage for the Non-Microsurgeon (##S-11)
In Orthopaedic Trauma care, one must often deal with open wounds from trauma and/or infection. This mini symposium will familiarize the orthopaedic surgeon with the reconstructive ladder for soft tissue coverage, while instructing on local flaps and modalities to microsurgery. A series of cases will also be presented and discussion of coverage options will be emphasized. (DeSilva)

Early Morning Case Presentations run concurrently.
Afternoon Skills Labs and Mini Symposia run concurrently.
Tickets are required.
Note your preference on page 35.
Increase your chances for first choice.
Register EARLY at www.ota.org.

Pre-registration deadline September 13 — Registration form on page 35 of Booklet.
MEETING REGISTRATION FORM

(Please Print)

Name ____________________________
Address ____________________________
City __________________ State _________ Country __________ Zip ______
Phone ( ______ ) __________ Fax ( ______ ) __________ E-mail ______

ANNUAL MEETING REGISTRATION FEES - U.S. Funds
OTA Member (includes Candidate Members in their Residency) $ 125.00 USD ❑
OTA International or Candidate (Post-Fellowship) Member $ 325.00 USD ❑
Non-member $ 725.00 USD ❑
Medical Resident Non-member or Allied Health (attach required letter of verification) $ 425.00 USD ❑

All company representatives must use Exhibitor Registration Form (available from OTA staff).

Wednesday, October 13 Pre-Meeting Opportunities

MASTERS LEVEL TRAUMA CODING COURSE I will attend ❑ $ 200.00
INTERNATIONAL TRAUMA CARE FORUM I will attend ❑ $ 50.00
BASIC SCIENCE FOCUS FORUM ONLY I will attend ❑ $ 250.00
BASIC SCIENCE FOCUS FORUM I will attend ❑ $ 200.00

Thursday, October 14

YOUNG PRACTITIONERS FORUM I will attend ❑ $ 50.00
WELCOME RECEPTION (Thursday) - Registrant I will attend ❑ $ 0.00 (on site $30)

Guest Reception Ticket(s) # of Guests: _______ @ $65.00 USD ea = $____

Friday, October 15

WOMEN IN ORTHOPAEDIC TRAUMA LUNCHEON I will attend ❑ $ 0.00 (on site $30)
MILITARY RECEPTION I will attend ❑ $ 0.00

Mini Symposia, Skills Labs, or Case Presentations (See www.ota.org for descriptions.)

Friday, October 15 1st Choice # ______
Friday 6:45 am: Case Presentations (#F-1 – F-5)
Concurrent Sessions: LIST TOP TWO CHOICES 1st Choice # ______
Friday 1:00 pm: Skills Labs or Mini Symposia (#F-6 – F-11) 2nd Choice # ______

Saturday, October 16 1st Choice # ______
Saturday 6:45 am: Case Presentations (#S-1 – S-5) 2nd Choice # ______
Concurrent Sessions: LIST TOP TWO CHOICES 1st Choice # ______
Saturday 1:00 pm: Skills Labs or Mini Symposia (#S-6 – S-11) 2nd Choice # ______

❑ Check Enclosed ❑ MasterCard ❑ Visa ❑ AMEX TOTAL FEES: $ ________ USD
Cardholder Name: ____________________________ Card Number: ____________________________
Expiration: __________ Signature: ____________________________ Amount: $ ________ USD

Don't forget to register online for Wed/Thurs. tours of the USNS Comfort vessel & the R Adams Cowley Shock Trauma Center.

REFUNDS:
OTA office must receive written notice of cancellation by September 27, 2010 for a refund less a $100.00 USD processing fee. Absolutely no refunds after September 27, 2010.

Make checks payable to: Orthopaedic Trauma Association, 6664 Eagle Way, Chicago, IL 60678-1066, USA

REGISTER ON-SITE AFTER SEPTEMBER 13, 2010 - AN ADDITIONAL $100 USD FEE WILL APPLY.
2010 Annual Meeting Checklist

Have you...

❑ Completed the Meeting Registration Form (page 35)?
❑ Indicated your preferences for Break-Out Sessions (page 35)?
❑ Included your Payment with the Registration Form?
❑ Made your hotel reservation with the Hilton Baltimore Hotel?
   ALL hotel reservations need to be made online thru ota@conferencedirect.com.
   Use the link on www.ota.org.

Secure on-line registration at www.ota.org

OR
Fax Registration Forms with Credit Card payment to:
   Fax: (847) 823-0536

OR
Mail Registration with USD Check Payment to:

Orthopaedic Trauma Association
6664 Eagle Way
Chicago, IL 60678-1066 USA

(Please note that the above address can only be used when sending via First Class Postage. Courier or Federal Express deliveries must be sent to the OTA staff office:
   6300 N. River Road, Suite 727, Rosemont, IL 60018.)

Registration faxed or post-marked by September 13, 2010.
Register on-line before September 20, 2010.

For More Information
Call (847)698-1631, E-mail ota@aaos.org
or visit the OTA web site, www.ota.org.
ARE YOU A MEMBER OF THE ORTHOPAEDIC TRAUMA ASSOCIATION?

If not, join OTA and enjoy the following benefits of belonging to this unique organization!

Benefits of OTA Membership

• **Professional Development** - the OTA consistently offers an array of specific trauma related educational sessions, case presentations, and hands-on workshops with an opportunity for candid discussions and consultations.

• **Networking Opportunities** - through the OTA mentoring program, newsletter, web site, Annual Meeting and Specialty Day, network with other traumatologists, participate in multi-center research opportunities and attain start-up funds for scientific research grants.

• **Leadership** - by becoming actively involved in OTA, you help shape the future of orthopaedic trauma research, education and health policy.

• **Member Discounts** - OTA Annual Meeting and OTA Specialty Day Meeting Registration.

• **Publications** - receive a complimentary or discounted subscription of the *Journal of Orthopaedic Trauma* and complimentary *Fracture Lines* Newsletter.

• **Research** - eligible to apply for orthopaedic trauma research grants.
  - Access to the *Trauma Registry Database* issued to members only to track patient outcomes and to participate in multi-center research studies.

• **Active Duty Military** - membership fees waived.

Membership Categories

<table>
<thead>
<tr>
<th>Active</th>
<th>Candidate (Residents &amp; Fellows)</th>
<th>International Community</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allied Health</td>
<td>Community</td>
<td>International Research</td>
</tr>
<tr>
<td>Associate</td>
<td>International</td>
<td>Research</td>
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</table>

For requirements and membership application, visit the OTA web site: www.ota.org.

**DEADLINE:** November 1, 2010