



30th Anniversary Annual Meeting

October 15-18, 2014

Tampa Convention Center
Tampa, Florida, USA

Preliminary
Program

Pre-Meeting Courses:

- Basic Science Focus Forum
- International Orthopaedic Trauma Care Forum
- ICD-10 Coding for Trauma Surgeons
- Orthopaedic Trauma Boot Camp
- Orthopaedic Trauma for PAs & NPs
- Young Practitioners Forum



21+ CME

TAMPA 2014



Thank You



The Orthopaedic Trauma Association gratefully acknowledges 2013 Research and Education Donors. The continued success and increased impact of the Orthopaedic Trauma Association's research and education effort is dependent upon foundation and industry support. The OTA expresses sincere appreciation to these contributors for their generous financial support.

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Dear Colleagues,

On behalf of the OTA Program Committee and President Ross Leighton, MD, I am pleased to invite you to the 30th Annual Meeting of the Orthopaedic Trauma Association (OTA) to be held in Tampa, Florida, October 15 – 18, 2014. The committee has put a tremendous effort into planning a meeting which will provide the most comprehensive and up-to-date program on the treatment of musculoskeletal injury. The Annual Meeting will cover a diverse spectrum of topics and present the opportunity to attend a wide range of concomitant sessions. Offerings will include scientific presentations of original research, broad symposia, small group discussions, and hands-on labs in order to provide learning opportunities that meet the needs of all musculoskeletal health care professionals.

This year's meeting will highlight main symposia on three topics: a debate style presentation regarding a standardized approach to hip fracture care and the effect of the Affordable Care Act on orthopaedic trauma; the current state of scientific evidence on damage control orthopaedics; and the state-of-the-art treatment for tibial plateau fractures. Continued this year, attendees will have choices throughout the meeting to attend podium presentations or concurrent mini-symposia covering a wide range of topics. The mini-symposia, case presentations, and skills labs will each concentrate on a more focused topic, and these smaller sessions will allow attendees to truly customize their meeting experience.

The Scientific Program will include the most relevant and scientifically sound research submitted. More than 90 podium presentations and 150 posters were selected by the Program Committee from a record 812 abstracts submitted for consideration. Five pre-meetings precede the formal Annual Meeting, beginning with the Basic Science Focus Forum (BSFF), chaired by Ed Harvey, MD. Beginning Wednesday, October 15th, the BSFF is a one and one-half day event that will provide an additional in-depth program designed to augment and expand upon the basic science presented and discussed at the main meeting. Dan Horwitz, MD and Bob Ostrum, MD, will chair a one and one-half day Orthopaedic Trauma Boot Camp, designed for orthopaedic surgeons with busy practices outside of trauma who are called upon to solve difficult fracture problems in their communities. Dr. Horwitz will lead a select team of experienced OTA surgeon educators guiding participants through cases designed to highlight difficult injuries and the tips and tricks for successful treatment.

Two additional, single day pre-meeting events will take place on Wednesday, October 15th. The highly successful International Forum will continue under the direction of Peter V. Giannoudis, MD, William G. DeLong, MD, Saqib Rehman, MD and Amir M. Matityahu, MD. The ICD-10 Coding for Trauma Surgeons chaired by Scott Broderick, MD, and Karen Zupko & Associates will cover changes in orthopaedic trauma billing and coding that will affect everyone's practice. The half-day Young Practitioners Forum led by Lisa Cannada, MD, on Thursday morning will focus on the concerns of members in their first five years of practice. We encourage all to arrive early to the Annual Meeting and take full advantage of these OTA offerings.

A two and one-half day course specifically designed for Physician Assistants and Nurse Practitioners, chaired by Cliff Jones, MD, Cory Collinge, MD, Dan Coll, PA-C, and Dennis Gregory, PA-C, will run concurrent with the Annual Meeting from Thursday, October 16th to Saturday, October 18th. The OTA Residents Fracture Course, chaired by Kyle J. Jeray, MD, and Toni M. McLaurin, MD, will also run concomitant to the Annual Meeting.

The common feature of each program event 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 Tampa!

A handwritten signature in black ink that reads "Thomas F. Higgins".

Thomas F. Higgins, MD
Program Chair

Join Us!



Dear Colleagues,

I am pleased to welcome you to Tampa, Florida for the 30th Annual Meeting of the Orthopaedic Trauma Association!

The meeting will be held in downtown Tampa at the Convention Center. With the Embassy Suites, Westin, and Marriott all within walking distance, you won't have to go far to enjoy the conference. Located on the water, during a wonderful time of year weather-wise, the meeting should offer an opportunity to learn in a comfortable and relaxing environment.

Tampa Bay offers many amenities, should you have time to partake. A number of world class golf courses, and the beaches in Clearwater are just a short drive away. Our International Plaza Mall, close to the airport offers very high end shopping including Tiffany's, Louis Vuitton, Michael Kors, Nieman Marcus, Boss, Burberry, and more. For those of you that would rather lift than shop, close to the Convention Center are the Powerhouse Gym and Harbor Island Health Club. Or if you are into running or just walking, try it on our beautiful Bayshore Boulevard, the longest continuous sidewalk in America - six miles all on the water.

Restaurants and bars are everywhere. Howard Avenue features lots of great bars, and of course, Bern's Steak House, featuring the largest collection of wine and spirits (350,000 and counting) in the world. Next door is SideBern's and the newly opened Epicurean Hotel and Restaurant. If you want other fare, close to the mall we have Eddie V's, Capitol Grill, Fleming's, Ruth's Chris, Roy's, and Ocean Prime to name just a few. Make your reservations early!

The Buccaneers have a bye that weekend, but the USF Bulls Football will be in town for those of you die-hard college football fans. And for some of you, I have no doubt that Dale Mabry Avenue will call. Finally, for those of you with families, the Florida Aquarium is just down the road, and the Lowry Park Zoo and Busch Gardens, is a short ride from downtown.

I look forward to seeing you all in October. It's a time for education, getting together with friends and colleagues, and some fun. Trust me when I say, there is more to do than you have time for. Let me know if you have any questions regarding your upcoming visit. Enjoy!!

Sincerely,

A handwritten signature in black ink that reads "Roy Sanders". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Roy Sanders, MD
Annual Meeting Host

Welcome

Mission Statement

The mission of the Orthopaedic Trauma Association (OTA) is to promote excellence in care for the injured patient, through provision of scientific forums and support of musculoskeletal research and education of Orthopaedic Surgeons and the public.

Vision Statement

The OTA will be the authoritative source for the optimum treatment and prevention of musculoskeletal injury, will effectively communicate this information to the Orthopaedic and medical community and will seek to influence health care policy that affect care and prevention of injury.

Value Statement

The OTA is adaptable, forward thinking and fiscally responsible and is composed of a diverse world-wide membership who provide care and improve the knowledge base for the treatment of injured patients. OTA members provide worldwide leadership through education, research and patient advocacy.

CME Credits

The OTA Annual Meeting is approved for 21 AMA PRA Category 1 Credits™. Additional credits are also available for the following pre-meeting activities:

- ✦ Basic Science Focus Forum
(11.75 AMA PRA Category 1 Credits™)
- ✦ ICD-10 Coding for Trauma Surgeons
(6 AMA PRA Category 1 Credits™)
- ✦ International Trauma Care Forum
(7.5 AMA PRA Category 1 Credits™)
- ✦ Orthopaedic Trauma Boot Camp
(12 AMA PRA Category 1 Credits™)
- ✦ Young Practitioners Forum
(4 AMA PRA Category 1 Credits™)
- ✦ PA/NP Course
(19 AAPA Category 1 CME Credit)

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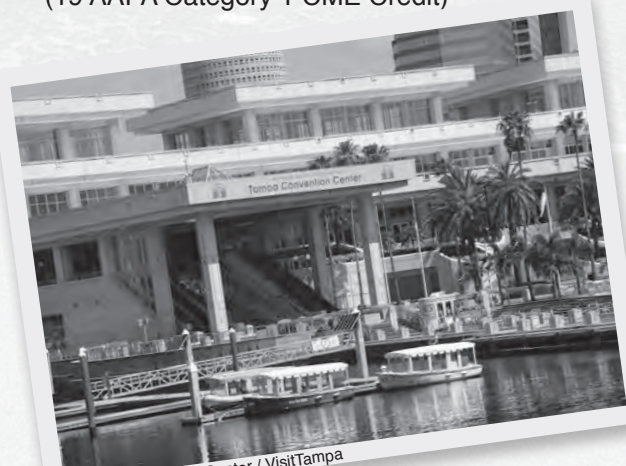
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Pre-Registration Deadline October 1, 2014;
On-site Registration - additional \$100. See Page 47.



MEETING and PRE-MEETING COURSES

2014 Program Committee

Thomas F. Higgins, MD, Program Chair
 Robert V. O'Toole, MD, Program Co-Chair
 Michael J. Gardner, MD
 Pierre Guy, MD, MBA
 David J. Hak, MD
 Stephen A. Kottmeier, MD
 Michael D. McKee, MD
 Gilbert R. Ortega, MD, MPH
 David W. Sanders, MD
 Edward J. Harvey, MD
 Basic Science
 Subcommittee Chair



- The OTA is an organization dedicated to the discovery and dissemination of knowledge and information regarding the prevention, diagnosis, and treatment of musculoskeletal injuries. This 30th Anniversary 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.

Target Audience

- The Orthopaedic Trauma Association (OTA) Annual Meeting is for the benefit of orthopaedic trauma surgeons and related allied health care professionals.

Objectives

- After attending the OTA Annual Meeting, participants will be able to:
 - ✗ Discuss and become familiar with the most up-to-date clinical and basic science advancements related to orthopaedic trauma
 - ✗ Understand the evidence and surgical techniques for the management of common types of tibial plateau fractures
 - ✗ Identify the current state of the art of damage control orthopaedics and how this affects your clinical practice
 - ✗ Understand the pros and cons of implementation of the Affordable Care Act and its impact on orthopaedic trauma



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BASIC SCIENCE FOCUS FORUM

Edward J. Harvey, MD – Program Chair

Target Audience

Academic orthopaedic surgeons, community surgeons with an interest in clinically relevant basic science, basic and clinical researchers, residents and fellows will benefit most from this Basic Science Focus Forum.

Attendees of this activity can earn up to **11.75 AMA PRA Category 1 Credits™**

Objectives

Upon successful completion of the Basic Science Focus Forum, you will be able to:

- ✗ Review clinical relevance for hot topics in biomechanically directed fixation
- ✗ Understand pertinence and efficacy of augmenting bone repair
- ✗ Better judge treatment modalities in the severely injured limb
- ✗ Know about the use of big data sets in trauma research
- ✗ Review chondroprotective treatment options
- ✗ Understand where we are in the treatment of osteoporosis and fragility fractures

Wednesday, October 15, 2014

6:30 am **Registration and Continental Breakfast**

7:25 am **Introduction**
Edward J. Harvey, MD, Program Chair

7:30 am - **Symposium 1**
8:35 am **Biomechanical Concepts for Fracture Fixation**

Moderators: *Emil H. Schemitsch, MD*
Michael Bottlang, PhD

7:30 am **Radial Head and Coronoid Fractures: Biomechanical Evidence for Modern Approaches**
TBD

7:40 am **Unstable Sacral Fractures: Is Standard Iliosacral Screw Fixation Adequate?**
TBD

7:50 am **Periprosthetic Femur Fractures: 90/90 Fixation Versus a Single Locking Plate?**
Emil H. Schemitsch, MD

8:00 am **Distal Femur Fractures: Far Cortical Versus Conventional Locking Screws: Is There a New Gold Standard?**
Michael Bottlang, PhD

8:10 am **Syndesmosis Injuries: What Is the Ideal Fixation Construct?**
Kenneth A. Egol, MD

8:20 am Discussion

8:35 am - **Paper Session 1**
9:15 am **Biomechanically-Directed Fixation**

Moderators: *Emil H. Schemitsch, MD*
Michael Bottlang, PhD

8:35 am **Overview**
Michael Bottlang, PhD

8:42 am **Paper 1**
How to Use Fluoroscopic Imaging to Prevent Intra-Articular Screw Perforation During Locked Plating of Proximal Humerus Fractures: A Cadaveric Study
Jason Allen Lowe, MD;
Shafagh Monazzam, MD; Blaine T. Walton, MD;
Elisha M. Nelson; Philip R. Wolinsky, MD

8:48 am **Paper 2**
Cortical Bone Drilling Induced Heat Production with Common Drill Devices
Andrew Palmisano, MD;
Bruce Li-Jung Tai, PhD; Barry Belmont, MS;
James R. Holmes, MD; Albert Shih, PhD

8:54 am **Paper 3**
Can Views of the Proximal Femur be Reliably Used to Predict Malrotation After Femoral Nailing? A Cadaveric Validation Study
Andrew Dubina;
Michael Robert Rozak, BA, BS;
Robert V. O'Toole, MD

9:00 am **Paper 4**
Polyether Ether Ketone Carbon Fiber Composites can Improve Healing of Fractures Stabilized with Intramedullary Nails
Matthew Cantwell

9:06 am Discussion

9:15 am - 9:35 am Break



BASIC SCIENCE FOCUS FORUM, continued

9:35 am - **Symposium 2**
10:30 am **Bone Graft Substitution and Augmentation**

Moderators: *Aaron Nauth, MD*
Peter V. Giannoudis, MD

9:35 am **Selecting the Right Bone Graft Substitute for Your Patient**
Aaron Nauth, MD

9:45 am **BMPs: Is There Still a Role in 2014?**
Peter V. Giannoudis, MD

9:55 am **Injectable Calcium Phosphates and Sulfates: When I Use Them and Which One I Use**
J. Tracy Watson, MD

10:05 am **Bone Marrow Aspirate and Autologous Stem Cells: Are They Effective?**
TBD

10:15 am Discussion

10:30 am - **Paper Session 2**
11:35 am **Inflammation and Bone Healing**

Moderators: *Aaron Nauth, MD*
J. Tracy Watson, MD

10:30 am **Overview**
Aaron Nauth, MD

10:36 am **Paper 5**
Montelukast Sodium Enhances Fracture Repair: Is There a Dose Response?
John J. Wixted, MD; Daniel Mandell, MD; Christopher Raskett, BS; Vivek Venugopal, BS; Jane B. Lian, PhD; Paul Joseph Fanning, PhD

10:42 am **Paper 6**
Possible Inhibitory Effect of Bone Marrow Derived Mesenchymal Stem Cell Application on BMP-2 Mediated Bone Healing in a Critical Size Defect Model
Motasem Refaat, MD; Mark A. Lee, MD; Joel C. Williams, MD; Dominik R. Haudenschild, PhD

10:48 am **Paper 7**
Analysis of Reamer-Irrigator-Aspirator Wastewater as an Osteogenic Factor for Bone Regeneration
Derek J. Klaus, MD; Douglas Crowder; Ethan Scott, BS; Stephen Fening, PhD; Fayez Safadi, PhD; Eric T. Miller, MD

10:54 am **Paper 8**
Is Impaired Fracture Healing in Cigarette Smokers Related to Carbon Monoxide Exposure?
John J. Wixted, MD; Vivek Venugopal, BS; Christopher Raskett, BS; Jane B. Lian, PhD; Paul Joseph Fanning, PhD

11:00 am Discussion

11:10 am **Paper 9**
The Development of Vascularity in a Healing Fracture
Nicholas Mignemi; Masato Yuasa, PhD; Joey Victor Barnett; Justin Cates, MD, PhD; Jeffrey Nyman, PhD, MS; Christopher M. Stutz, MD; William T. Obremsky, MD, MPH; Herbert S. Schwartz, MD; Jonathan G. Schoenecker, MD

11:16 am **Paper 10**
Modulating the Vasculature at a Fracture Through the Therapeutic Application of Placental Stem Cells
Chelsea S. Bahney, PhD; Aaron Taylor, BS; Ali Sadat, DDS; Kathryn Tormos, PhD; Theodore Miclau III, MD; Emin Maltepe, MD, MPH; Ralph Marcucio, PhD

11:22 am **Paper 11**
Osteogenic, Stem Cell and Molecular Characterization of the Human Biomembrane ("Induced Membrane") from Trauma Patients
Gabriella Ode, MD; Gretchen Hoelscher, MS; Jane Ingram; Synthia Bethea; James F. Kellam, MD; Madhav A. Karunakar, MD; Helen Elizabeth Gruber, PhD; Michael J. Bosse, MD

11:28 am Discussion

11:35 am Lunch

12:35 pm - **Symposium 3**
1:35 pm **The Mangled Extremity- Functionality through Mechanics or Biologics?**

Moderators: *Edward J. Harvey, MD; TBD*

12:35 pm **Current Concepts for Infection Management in High MESS Legs**
Phillip Wolinsky, MD

12:45 pm **Heterotopic Ossification in Trauma and Amputations**
Roman Hayda, MD

12:55 pm **New Concepts in Residual Limb Management and Rehabilitation**
Lisa K. Cannada, MD

1:05 pm **The Peg Leg or the Six Million Dollar Man- Where Are We?**
Danielle Melton, MD

1:15 pm Discussion



1:35 pm - 3:25 pm **Paper Session 3
MESS**

Moderators: *Edward J. Harvey, MD
Philip Wolinsky, MD*

1:35 pm **Overview**

Edward J. Harvey, MD

1:45 pm **Paper 12**

Pharmacological Treatment of Compartment Syndrome with Phenylephrine and Dobutamine Was Similar to Fasciotomy

Utku Kandemir, MD; Xuhui Liu, MD; James Moon Mok, MD; Heejae Kang; Erik Nathan Hansen, MD; Mark Rollins, MD, PhD; Hubert T. Kim, MD, PhD

1:51 pm **Paper 13**

Carbon Monoxide Releasing Molecule-3 (Corm-3) Diminishes the Oxidative Stress and Leukocyte Migration Across Human Endothelium in an In Vitro Model of Compartment Syndrome

Relka Bihari, MSc; Aurelia Bihari, MS; Gediminas Cepinskas, DVM, PhD; David Sanders, MD; Abdel-Rahman Lawendy, FRCS

1:57 pm **Paper 14**

Use of the Reamer/Irrigator/Aspirator During Intramedullary Nailing Decreases Carotid and Cranial Embolic Events

Anna N. Miller, MD; Dwight D. Deal, BS; James Green, BS; Tim Houle, PhD; William Roy Brown, PhD; Clara R. Thore, PhD; David Stump, PhD; Lawrence X. Webb, MD

2:03 pm Discussion

2:10 pm **Paper 15**

Superoxide Dismutase Mimetic Disrupts Bacterial Biofilms in an Infected Fracture Model

Elizabeth Anne Regan, MD, PhD; Sarah Elizabeth Lindsay; James Crapo, MD

2:18 pm **Paper 16**

Rifampin and Minocycline Containing Coating for Orthopaedic Implants with Potent In Vivo Activity

Mark Schallenberger, MS; Todd R. Meyer, PhD

2:26 pm **Paper 17**

In Vivo Chemistry and Implantable Biomaterial for Targeting Therapeutics

Jose Manuel Mejia Oneto, MD, PhD; Munish C. Gupta, MD; Kent Leach, PhD; Mark A. Lee, MD; Maksim Royzen, PhD

2:34 pm **Paper 18**

Sonication Has the Potential to Improve Culture Yield in Patients with Clinical Infection

Hemil Hasmukh Maniar, MD; Kristin McPhillips, MD, MPH; Jove Graham, PhD; Michael Foltzer, MD; Thomas R. Bowen, MD; Daniel S. Horwitz, MD

2:42 pm Discussion

2:52 pm **Paper 19**

Pulsatile Lavage of Open Musculoskeletal Wounds Causes Muscle Necrosis and Dystrophic Calcification

Astor Devon Robertson, MBBS; Stephen Zhao, BS; Thao Nguyen, MD; David E. Jaffe, MD; Carla Hebert, BS; William Lawrence Fourney, PhD; Joseph Stains, PhD; Vincent D. Pellegrini Jr, MD

2:58 pm **Paper 20**

Failure of Indomethacin and Radiation to Prevent Blast-Induced Heterotopic Ossification in an Animal Model

Astor Devon Robertson; Stephen Zhao; Thao Nguyen, MD; Robert E. Holmes, MD; David E. Jaffe, MD; Juong G. Rhee, PhD; William Lawrence Fourney; Joseph Stains, PhD; Vincent D. Pellegrini Jr, MD

3:04 pm **Paper 21**

The Surgeon's Catch-22: A Prospective Study On Inflammation, Wound Failure and Heterotopic Ossification in Combat Wounds

Donald Nicholas Hope, MD; Jonathan Agner Forsberg, MD; Benjamin Kyle Potter, MD; Elizabeth Polfer, MD; Eric Elster

3:10 pm Discussion

3:25 pm - 3:45 pm Break

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BASIC SCIENCE FOCUS FORUM, continued

- 3:45 pm - **Symposium 4**
 4:50 pm **Bigger Data-Bigger Problems?**
 Moderators: *Mohit Bhandari, MD, PhD, FRCSC*
Gerard P. Slobogean, MD, MPH, FRCSC
- 3:45 pm **What is Big Data?**
Gerard P. Slobogean, MD, MPH, FRCSC
- 4:00 pm **NHS Database- What it can and cannot Do**
TBD
- 4:10 pm **Scandinavian Data-Ongoing Challenges and Successes**
Frede Frihagen, MD, PhD
- 4:20 pm **Designing Studies That Utilize Large Databases: The Basics**
Mary L. Forte, PhD
- 4:30 pm **The Future of Large Scale Databases: Will They Replace the Clinical Trial?**
Saam Morshed, MD, PhD
- 4:40 pm Discussion

- 4:50 pm - **Paper Session 4**
 5:30 pm **International Research Studies**
 Moderators: *Mohit Bhandari, MD, PhD, FRCSC*
Gerard P. Slobogean, MD, MPH, FRCSC

- 4:50 pm **INORMUS Invited Paper - Trauma Worldwide Data Set**
Mohit Bhandari, MD, PhD, FRCSC
- 4:56 pm **Paper 22**
Changing the System: Improving Outcome from Major Trauma by Developing a National System of Regional Major Trauma Networks
Christopher G. Moran, MD;
Maralyn Woodford;
Fiona Lecky, FRCS, MSc, PhD;
Antoinette Edwards, BA; Tim Coates;
Keith Willett



- 5:02 pm **Paper 23**
Increased Systemic Complications in Open Femoral Shaft Fractures are Associated with the Degree of Soft-Tissue Injury Rather Than New Injury Severity Score (NISS) Values – A Nationwide Data Base Analysis
Chris David Weber, MD; Rolf Lefering, PhD;
Thomas Dienstknecht; Philipp Kobbe, MD;
Richard Martin Sellei, MD;
Frank Hildebrand, MD;
Hans-Christoph Pape, MD
- 5:08 pm **Paper 24**
Anatomic Region and the Risk of Adverse Events in Orthopaedic Trauma: An Analysis of 19,000 Patients
Cesar Sebastian Molina, MD;
Rachel V. Thakore, BS; Eduardo J. Burgos, MD;
William T. Obremskey, MD, MPH;
Manish K. Sethi, MD
- 5:14 pm Discussion
- 5:30 pm **ADJOURN TO INTERNATIONAL RECEPTION**

Thursday, October 16, 2014

- 7:00 am Continental Breakfast
- 7:25 am **Introduction**
Edward J. Harvey, MD
- 7:30 am - **Symposium 5**
 8:40 am **Advances in Articular Cartilage Injury and Treatment - Where We Are and Where We're Going**
 Moderators: *Joseph Borrelli Jr, MD*
Susanna Chubinskaya, PhD
- 7:30 am **Cartilage's Response to Injury**
Dominik Haudenschild, PhD
- 7:40 am **Current/Futures Chondroprotective Products**
Susanna Chubinskaya, PhD
- 7:50 am **Chondroplasty/Microfracture/Cells for Treatment of Cartilage Injuries**
Seth Gasser, MD
- 8:00 am **OsteoChondral Allografts in 2014**
James Stannard, MD
- 8:10 am **Joint Preservation: Treatment of Intra-articular Malunions**
Christian Krettek, MD, FRACS
- 8:20 am Discussion



8:40 am - **Paper Session 5**
9:09 am **Articular Pathology**

Moderators: *Joseph Borrelli Jr, MD*
Susanna Chubinskaya, PhD

8:40 am **Overview**

Joseph Borrelli Jr, MD

8:45 am **Paper 25**

The Dose-Response Effect of the Mast Cell Stabilizer, Ketotifen Fumarate, on Post-Traumatic Joint Contractures

Prism Schneider, MD, PhD;
Herman Johal, MD; Andrew Richard Buckley;
Kevin A. Hildebrand, MD

8:51 am **Paper 26**

Presence and Degree of Matrix Metalloproteinases and Aggrecan Breakdown Products in the Setting of Acute Intra-Articular Fracture

Justin Haller, MD; Molly McFadden, MS;
David Rothberg, MD; Erik Kubiak, MD;
Thomas F. Higgins, MD

8:57 am **Paper 27**

Pre-Injury Depletion of Macrophages Results in Increased Acute Joint Inflammation Following Articular Fracture

Steven A. Olson, MD; Karsyn N. Bailey;
Bridgette D. Furman, BS;
Kelly Ann Kimmerling, MS; Chia-Lung Wu, PhD;
Janet L. Huebner; Virginia Byers Kraus, PhD;
Farshid Guilak, PhD

9:03 am Discussion

9:09 am - 9:25 am Break

9:25 am - **Symposium 6**
10:30 am **Osteoporosis- Are We Closer to Gold Standards?**

Moderators: *Theodore Miclau III, MD*
J. Tracy Watson, MD

9:25 am **Fracture Models: Diaphyseal and Metaphyseal Healing**

Volker Alt, MD

9:35 am **Mechanical Testing: Selection of a Model**

Loren Latta, PhD

9:45 am **Medical Management**

Joseph Lane, MD

9:55 am **Atypical Femur Fractures – New Information**

Kenneth A. Egol, MD

10:05 am **Augmentation of Fixation: Selection of an Optimal Material**

J. Tracy Watson, MD

10:15 am Discussion

10:30 am - **Paper Session 6**
11:04 am **Bone Density and Modeling**

Moderators: *Theodore Miclau III, MD*
J. Tracy Watson, MD

10:30 am **Overview**

Theodore Miclau III, MD

10:40 am **Paper 28**

Is There a Future for Femoroplasty in Hip Fracture Prevention? Introducing Anisotropy Restoring Femoroplasty

Edward K. Rodriguez, MD, PhD;
Leandro Grimaldi, MD;
Aidin Masoudi, MD;
Ara Nazarian

10:46 am **Paper 29**

Comparison of Femoral Head Rotation and Varus Collapse Between a Single and Integrated Dual Screw Intertrochanteric Hip Fracture Fixation Device Using a Chair Rise Biomechanical Model

Aniruddh Nayak, MS; Ian Smithson, MD;
Seth Cooper, MD; Jacob Cox, MD;
Scott Marberry, MD;
Brandon Gerard Santoni, PhD;
Roy Sanders, MD

10:52 am **Paper 30**

Traumatic Fracture Healing in Geriatric Mice Shows Decreased Callus Formation with Associated Deficiencies in Cell Cycle and Immune Cell Function

Luke A. Lopas, BS;
Nicole Stephanie Belkin, MD;
Patricia Lorraine Mutyaba, BS;
Lee McDaniel Jr, MS;
Kurt D. Hankenson, DVM;
Jaimo Ahn, MD, PhD

10:58 am Discussion

11:04 am - **ADJOURN TO INDUSTRY SYMPOSIA**

12:45 pm **Registration Required**
(Boxed lunch available)



ORTHOPAEDIC TRAUMA BOOT CAMP

Daniel S. Horwitz, MD & Robert F. Ostrum, MD
Program Chairs

Attendees of this activity can earn up to **12.0 AMA PRA Category 1 Credits™**

Target Audience

This course is intended for the practicing orthopaedic surgeon who takes emergency room or trauma call. Current techniques in orthopaedic care will be stressed with attention to appropriate soft tissue management and up-to-date implant selection. Case discussions will be used for interactive learning and audience participation.

Objectives

Upon successful completion of this course, you will be able to:

- ✦ Understand current indications for operative and non-operative treatment of fractures and dislocations
- ✦ Comprehend appropriate surgical techniques, approaches, and implant selections for fracture care
- ✦ Recognize the importance of careful soft tissue techniques
- ✦ Analyze critically ill traumatized patients and practice appropriate temporary stabilization procedures and establish protocols for transfer

Wednesday, October 15, 2014

6:15 am **Registration and Continental Breakfast**
7:00 am **Welcome and Announcements**
Daniel S. Horwitz, MD

Moderator: **Daniel S. Horwitz, MD**

7:05 am **Clavicle Fractures**
Robert A. Probe, MD
7:25 am **Proximal Humerus Fractures**
William M. Ricci, MD
7:45 am **Distal Humerus Fractures**
James A. Goulet, MD
8:05 am **Distal Radius Fractures**
Thomas F. Varecka, MD
8:25 am Questions / Discussion
8:40 am **Case Presentations**
Daniel S. Horwitz, MD

Moderator: **Steven J. Morgan, MD**

8:55 am **Open Fractures**
Robert F. Ostrum, MD
9:15 am **Orthobiologics**
J. Tracy Watson, MD
9:35 am **Initial Management of the Polytrauma Patient**
Dolfi Herscovici Jr, DO
9:55 am Questions / Discussion
10:10 am **Case Presentations**
Steven J. Morgan, MD
10:25 am Break

10:45 am **Lab 1 – Proximal Humerus Locking Plate**
Lab Leader: **Steven J. Morgan, MD**
Lab 2 – Supracondylar Elbow Plating
Lab Leader: **James A. Goulet, MD**

Moderator: **Robert F. Ostrum, MD**

11:35 am **Femoral Neck Fractures in Younger Patients**
J. Tracy Watson, MD
11:55 am **Femoral Neck Fractures in Elderly: ORIF, Monopolar, or THR**
Kenneth A. Egol, MD
12:15 pm **Intertrochanteric Fractures: IMHS Versus DHS**
Jeffrey O. Anglen, MD
12:35 pm Questions / Discussion
12:50 pm Lunch with Case Presentations
Robert F. Ostrum, MD

Moderator: **Frank A. Liporace, MD**

1:30 pm **Posterior Wall Acetabulum Fractures**
Andrew H. Schmidt, MD
1:50 pm **Femoral Nailing: Antegrade Versus Retrograde**
Bruce H. Ziran, MD
2:10 pm **Supracondylar Femur Fractures**
Paul Tornetta III, MD
2:30 pm **Periprosthetic Fractures**
Clifford B. Jones, MD
2:50 pm Break



- 3:10 pm **Role and Technique for Spanning External Fixator**
Jeffrey O. Anglen, MD
- 3:30 pm **Patella Fractures**
Joshua Langford, MD
- 3:50 pm Questions / Discussion
- 4:05 pm **Case Presentations**
Frank A. Liporace, MD
- 4:30 pm ADJOURN

Thursday, October 16, 2014

Moderator: **Erik Kubiak, MD**

- 7:00 am **Tibial Plateau Fractures**
Steven J. Morgan, MD
- 7:20 am **Tibial Shaft Fractures**
Philip R. Wolinsky, MD
- 7:40 am **Tibial Nonunions**
Gerald J. Lang, MD
- 8:00 am **Pilon Fractures**
Gerald J. Lang, MD
- 8:20 am Questions / Discussion
- 8:35 am **Case Presentations**
Erik Kubiak, MD
- 8:50 am Break

9:00 am **Lab 1 –
Distal Femoral Plating**

Lab Leader: **Erik Kubiak, MD**

**Lab 2 –
Pilon Ankle Plating**

Lab Leader: **Dolfi Herscovici Jr, DO**

Moderator: **J. Tracy Watson, MD**

- 9:50 am **Talus Fractures**
Dolfi Herscovici Jr, MD
- 10:10 am **Calcaneus Fractures**
Erik Kubiak, MD
- 10:30 am Questions / Discussion
- 10:45 am **Case Presentations**
J. Tracy Watson, MD
- 11:00 am Adjourn
Robert F. Ostrum, MD
- 11:00 am - 12:45 pm **ADJOURN TO INDUSTRY
SYMPOSIA** *Registration Required*
(Boxed lunch available)



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TAMPA 2014



INTERNATIONAL ORTHOPAEDIC TRAUMA CARE FORUM

Wednesday,
October 15, 2014

Peter V. Giannoudis, MD, Program Chair
William G. DeLong Jr, MD, Saqib Rehman, MD,
Amir M. Matityahu, MD, Program Committee

Attendees of this activity can earn up to **7.5 AMA PRA Category 1 Credits™**

Target Audience

The Orthopaedic Trauma Association (OTA) International Orthopaedic Trauma Care Forum is for the benefit of orthopaedic trauma surgeons and related allied health care professionals with an interest in international trauma health care.

Objectives

Attendees of the International Orthopaedic Trauma Care Forum will:

- ✦ Learn about the varied methods of treating fracture and trauma complications from around the world
- ✦ Understand the pros and cons of getting involved in humanitarian orthopaedic care overseas
- ✦ Increase knowledge and understanding of global clinical research
- ✦ Become familiar with unique approaches to fractures around the knee joint treated in Brazil

Program

7:00 am **Registration and Continental Breakfast**

7:30 am **Introduction**
William G. DeLong Jr, MD
Peter V. Giannoudis, MD

7:35 am - 8:05 am **Symposium I
Trauma Care Systems-An Update**

Moderator: *Saqib Rehman, MD*
Panelists: *Christopher G. Moran, MD, FRCS*
João Antonio Matheus Guimarães, MD

8:05 am - 10:10 am **Paper Session 1
Femoral and Pelvic Injuries**

Moderators: *Saqib Rehman, MD*
Amir M. Matityahu, MD

8:05 am **Paper 1**
Outcome of Femoral Fractures in Post-Poliomyelitis Patients
Yoram A. Weil, MD;
Yechiel N. Gellman, MD;
Amal Khoury, MD; Rami Mosheiff, MD;
Meir Liebergall, MD
Israel

8:13 am **Paper 2**
Atypical Femoral Fractures Associated with Bisphosphonate Use: A Case Series and Discussion on Surgical Treatment
Andrew Riddick, FRCS (ORTHO), MBBS;
Tom Fleming;
Michael Kelly, MBBS, MD, FRCS (Ortho);
Mehool R. Acharya, MD
United Kingdom

8:21 am **Paper 3**
Periprosthetic Cortical Bone Remodeling in Patients with Osseo-Integrated Leg Prosthesis
Jan Paul M. Frolke, MD, PhD;
Lisanne M. Haket, MSc;
Nico Verdonschot, MSc;
Pavel K. Tomaszewski, MSc;
Henk Van de Meent, MD, PhD
Netherlands

8:29 am Discussion

8:44 am **Paper 4**
Predictors of Intra-Operative Fractures in Uncemented and Cemented Hip Hemiarthroplasty for the Treatment of Intra Capsular Neck of Femur Fractures
Nayef Aslam-Pervez Fahad Siddique Hossain, MBBS, MRCS;
Mohamed Altayeb Mussa;
Jan Luigi Marciniak; Shiva Gopal
United Kingdom

8:52 am **Paper 5**
Are Dislocations Following Hip Hemiarthroplasty a Predictor of Increased Mortality?
Michalis Panteli, MD; Michalis Panteli, MD;
Anastasios Lampropoulos;
Peter V. Giannoudis, MD
United Kingdom



9:00 am **Paper 6**
Do Proven Cemented Taper-Slip Femoral Stem Hemiarthroplasties Have a Low Complication Rates? The Largest and the Longest Exeter Trauma Stem Survival Study to Date
Salah Hammouche, MD; Catherine Holt, PhD; Jonathan Phillips, MBChB, BSc, MRCS; Brigitte Scammell, MD; Christopher G. Moran, MD, FRCS United Kingdom

9:08 am Discussion

9:13 am Break

9:33 am **Paper 7**
Time to Surgery is Not a Risk Factor for Complications in Garden 3 and 4 Femoral Neck Fractures Treated with Cannulated Screws
Dr. Koji Edson Kojima; Dr. Jorge dos Santos Silva; Marcos De Camargo Leonhardt, MD; Fernando Brandao, MD; Tales Guimaraes Brazil

9:41 am **Paper 8**
Microvascular Function Following Open (DHS) Versus Less Invasive (PCCP) Extramedullary Fixation of Intertrochanteric Hip Fractures
Matthias Knoke, MD; Gertraud Gradl, MD; Franziska Böhle; Hagen Andruszkow; Klemens Horst, MD; Frank Hildebrand, MD; Hans-Christoph Pape, MD Germany

9:49 am **Paper 9**
Low Energy Pelvic Fractures of the Elderly Population: Clinical - Radiological Outcome and Associated Prognostic Factors
Tess Greven, MSc; Jack H. Gilmore; Robert M. West, MSc; Arie Van Vugt, PhD; Peter V. Giannoudis, MD; Nikolaos K. Kanakaris, MD United Kingdom

9:57 am **Paper 10**
Outcome Following Fixation of Comminuted Quadrilateral Plate Fracture- Single Surgeon's Experience
Theodoros Tosounidis; Suribabu Gudipati, MBBS, MRCS; Nikolaos K Kanakaris, MD; Peter V. Giannoudis, MD United Kingdom

10:05 am Discussion

10:10 am - 10:30 am **Symposium II Orthopaedic Care Overseas: Get Involved!**

Moderator: *Lewis G. Zirkle Jr, MD; Christopher T. Born, MD*

Panelists: *Amir M. Matityahu, MD; TBD*

Humanitarian Efforts Abroad: Pearls and Pitfalls of Getting Involved in Humanitarian Orthopaedic Care Overseas

10:30 am - 11:36 am **Paper Session 2: Lower Extremity and Foot and Ankle Injuries**

Moderators: *Axel Ekkernkamp, MD; João Antonio Matheus Guimarães, MD*

10:30 am **Paper 11**
The Perceptions of Kenyan Orthopaedic Surgeons Regarding the Role of Visiting Foreign Orthopaedic Surgeons: A Qualitative Study
Luke Harmer, MD, MPH, FRCSC; Rachel Seymour, PhD; Jeff Mutisya Mailu, MB, ChB; United States

10:38 am **Paper 12**
Characterization of Lower Extremity Fracture Patients in Uganda
Jeff Potter, MD; Rodney Mugarura, MBChB, M.Med; Nathan O'Hara, MHA; Trina V. Stephens, MSc; Gerard Slobogean, MD, MPH, FRCSC; Piotr A. Blachut, MD Canada

10:46 am **Paper 13**
Knee Fusion Using the SIGN Nail
Duane R. Anderson, MD; Lucas Anderson, MD; Abebe Chala Soddo; Justin M. Haller, MD Ethiopia/United States

10:54 am Discussion

10:59 am **Paper 14**
Microcirculation of the Healthy Hindfoot. A Proband-Study from the Perspective of the Surgical Approach
Matthias Knoke, MD; John B. Carow; Gertraud Gradl, MD; Hagen Andruszkow; Klemens Horst, MD; Frank Hildebrand, MD; Hans-Christoph Pape, MD Germany



INTERNATIONAL ORTHOPAEDIC TRAUMA CARE FORUM, continued

- 11:07 am **Paper 15**
Inhaled and Oral Corticosteroids in Chronic Lung Disease Patients with Ankle Fractures: Effect on Fracture and Wound Healing
Waseem Jerjes, MD, PhD;
Peter V. Giannoudis, MD
United Kingdom
- 11:15 am **Paper 16**
Posterior Malleolar Fracture Patterns
Diederik T. Meijer; Lukas Mangnus;
Jos Mellema; Sjoerd Stufkens;
Ernst Philip Steller; Peter Kloen, MD;
Gino M. Kerkhoffs, MD, PhD;
Job N. Doornberg, MS
Netherlands
- 11:23 am **Paper 17**
Treatment of Deltoid Ligament Injuries in Ankle Fracture: Should it Be Repaired or Not?
Ting Li; Xie-yuan Jiang; Manyi Wang, MD
China
- 11:31 am Discussion
- 11:36 am Lunch

12:30 pm - 2:02 pm **Paper Session 3:
Basic Science and Fracture Healing
Complications**

Moderators: *William G. DeLong Jr, MD*
Hans-Christoph Pape, MD

- 12:30 pm **Paper 18**
What is the Cell Composition and Characteristics of Fibrous Tissue Harvested from the Nonunion Site of Long Bone Atrophic Nonunions?
Richard J. Cuthbert, BSc; Ahmed Lotfy;
Hiang Boon Tan, MBBS;
Elena Jones, PhD;
Peter V. Giannoudis, MD
United Kingdom
- 12:38 pm **Paper 19**
Predictors for Nonunion, Reoperation and Infection after Surgical Fixation of Patellar Fracture
Assaf Kadar, MD; Haggai Sherman, MD;
Ely Liviu Steinberg, MD
Israel

- 12:46 pm **Paper 20**
Multipotential Stromal Cell Abundance in Cellular Bone Allograft: Comparison with Fresh Age-Matched Iliac Crest Bone and Bone Marrow Aspirate
Thomas Baboolal, PhD; Sally Boxall, PhD;
Yasser M. El-Sherbiny, MBBS, MSc, PhD;
Timothy Moseley; Richard J. Cuthbert, BSc;
Peter V. Giannoudis, MD;
Elena Jones, PhD
United Kingdom
- 12:54 pm Discussion
- 12:59 pm **Paper 21**
Free Vascularized Medial Femoral Condyle Corticocancellous Graft in Treating Recalcitrant Upper Extremity Nonunions
Fei Wu
China
- 1:07 pm **Paper 22**
Long Bone Defects Managed with the Induced Membrane Technique: Treatment Protocol and Clinical Outcomes
Peter V. Giannoudis, MD;
Suribabu Gudipati, MBBS, MRCS;
Paul Harwood, MD; Nikolaos K. Kanakaris, MD
United Kingdom
- 1:15 pm **Paper 23**
Tibial Plateau Fractures: Will I Need a Knee Replacement?
Eleanor Davidson, MB, CHB;
William M. Oliver, MBBS;
Timothy O. White, MD, FRCS;
John F. Keating
United Kingdom
- 1:23 pm **Paper 24**
Hormone Replacement Therapy in Proximal Humerus Fracture Patients: Effect on Fracture Severity and Fracture Healing
Waseem Jerjes, MD, PhD;
Peter V. Giannoudis, MD
United Kingdom
- 1:31 pm **Paper 25**
Are Individuals with TNF-B NCO1 Polymorphism at a Higher Risk of Developing Postoperative Sepsis?
Professor Rajeshwar Nath Srivastava Sr.;
Kavita Baghel; Saloni Raj
India
- 1:39 pm **Paper 26**
Correction of Coxa Vara Deformity and Femur Neck Malunion with an IM SIGN Nail™
Henry Ndasi, MBBS, DS, FCS;
Levis Nguku, Kenya



INTERNATIONAL ORTHOPAEDIC TRAUMA CARE FORUM, continued

1:47 pm Discussion

2:02 pm - 3:20 pm **Guest Nation Symposium
Fractures Around the
Knee Joint**

Introduction *William G. DeLong Jr, MD*

2:05 pm **Brazil – Distal Femoral
Fractures: What to Do with the Difficult
Multifragmented Fracture Patterns**
Daniel Balbachevsky, MD

2:20 pm **US – Comminuted Patella Fractures:
Is There an Ideal Method of Treatment?**
Andrew H. Schmidt, MD

2:35 pm **Brazil – Posterior Shearing Tibial
Plateau Fractures: My Preferred
Method of Treatment**
Paulo Barbosa, MD

2:50 pm **Brazil – Floating Knee Injuries:
How Can We Optimize the Outcome?**
João Antonio Matheus Guimarães, MD

3:05 pm Discussion

3:20 pm Break



Combined Basic Science Focus Forum and International Symposia

Global Clinical Research: Bigger Data-Bigger Problems

3:45 pm - 4:50 pm **Symposium 4
Bigger Data-Bigger Problems?**

Moderators: *Mohit Bhandari, MD, PhD*
Gerard P. Slobogean, MD, MPH, FRCSC

3:45 pm **What is Big Data?**
Gerard P. Slobogean, MD, MPH, FRCSC

4:00 pm **NHS Database-What it can and
Cannot Do**
TBD

4:10 pm **Scandinavian Data-Ongoing Challenges
and Successes**
Frede Frihagen, MD, PhD

4:20 pm **Designing Studies That Utilize Large
Databases: The Basics**
Mary L. Forte, PhD

4:30 pm **The Future of Large Scale Databases-
Will They Replace the Clinical Trial?**
Saam Morshed, MD, PhD

4:40 pm Discussion

4:50 pm - 5:30 pm **Paper Session 4
International Research
Studies**

Moderators: *Mohit Bhandari, MD, PhD*
Gerard Slobogean, MD, MPH

4:50 pm **INORMUS Invited Paper
Trauma Worldwide Data Set**
Mohit Bhandari, MD, PhD

4:56 pm **OTA BSFF Paper 22**
**Changing the System: Improving
Outcome from Major Trauma by
Developing a National System of
Regional Major Trauma Networks**
Christopher G. Moran, MD;
Maralyn Woodford;
Fiona Lecky, FRCS, MSc, PhD;
Antoinette Edwards, BA; Tim Coates;
Keith Willett

5:02 pm **OTA BSFF Paper 23**
**Increased Systemic Complications in Open
Femoral Shaft Fractures Are Associated
with the Degree of Soft-Tissue Injury
Rather Than New Injury Severity Score
(NISS) Values – A Nationwide Database
Analysis**
Chris David Weber, MD; Rolf Lefering, PhD;
Thomas Dienstknecht; Philipp Kobbe, MD;
Richard Martin Sellei, MD;
Frank Hildebrand, MD;
Hans-Christoph Pape, MD

5:08 pm **OTA BSFF Paper 24**
**Anatomic Region and the Risk of Adverse
Events in Orthopaedic Trauma:
An Analysis of 19,000 Patients**
Cesar Sebastian Molina, MD;
Rachel V. Thakore, BS;
Eduardo J. Burgos, MD;
William T. Obremskey, MD, MPH;
Manish K. Sethi, MD

5:14 pm Discussion

5:30 pm **ADJOURN TO INTERNATIONAL
RECEPTION**

TAMPA
2014

International Orthopaedic Trauma Care Forum
Wednesday, October 15



ICD-10 CODING FOR TRAUMA SURGEONS

Wednesday,
October 15, 2014

Margaret Maley, BSN, MS, Senior Consultant,
KarenZupko & Associates, Inc.

J. Scott Broderick, MD, Course Chair

Attendees of this activity can earn up to **6 AMA PRA
Category 1 Credits™**

Course Description

Margaret Maley from KarenZupko & Associates, Inc. is back with a course you can't afford to miss! Take this opportunity to attend a coding and reimbursement course designed specifically for orthopaedic trauma surgeons and their staff. The increased focus on documentation audits and looming implementation of ICD-10 makes this a course you must attend.

In addition to a workbook filled with valuable key documentation tables for providers and anatomy illustrations for coding and billing staff, every workshop participant will receive the **IZD-10 Zupko Slim Guide to Orthopaedic ICD-10**, cheat sheet modified for common sense, condensed to the codes used most commonly to report musculoskeletal diseases, chronic problems and complications. The guide also includes the KZA "Injury Guy" offering a streamline method of identifying the category (first three characters) for any diagnosis from the injury chapter of ICD 10. In addition, the 7th character tables are handy and available for your convenience in the guide.

About the Speaker

Margaret Maley brings 30 years of orthopaedic experience to her clients working with KarenZupko & Associates as a consultant and speaker for 17 years. With a B.S.N. from The University of Illinois and Master's degree from Rush University, Ms. Maley began her career in Chicago as a clinical nurse specialist managing several FDA studies. Moving to Houston in 1986, she transitioned to the business side of orthopaedics. "Front-line" experience managing orthopaedic practices gives her unique insight into the challenges facing orthopaedic surgeons and their staff on a daily basis. She is acutely aware of the importance of correct coding and accurate documentation for proper reimbursement and to minimize the risk of audit. She is recognized by her peers as a skilled communicator and for being able to sort out difficult orthopaedic coding and reimbursement issues. Ms. Maley's fast paced humorous presentations make her a favorite of surgeons, non-physician providers, administrators and staff.



Areas of coding and reimbursement expertise:

- × Adult reconstruction
- × Trauma
- × Pediatric Orthopaedics
- × Operative report review
- × Evaluation & Management documentation and review
- × Teaching physician guidelines
- × ICD-10 CM
- × Sports Medicine
- × Arthroscopy
- × Tumor
- × Medical necessity
- × Individualized E&M education via the internet
- × EOB analysis

Published in:

AAOS Now!
Strategic Orthopaedics
American Academy of Orthopaedic Surgery Bulletin
Knee Society Newsletter
AAHKS Newsletter

Margaret is an instructor for the national coding and reimbursement workshops sponsored by the American Academy of Orthopaedic Surgeons with extensive experience working with private practices, employed physicians, academic orthopaedic departments, state orthopaedic societies, and as a featured speaker for:

AAOS Annual Meeting
Orthopaedic Trauma Association
Musculoskeletal Tumor Society
The American Association of Hip and Knee Surgeons
Pediatric Orthopaedic Society of North America
The Western Orthopaedic Association
Gait and Clinical Movement Analysis Society



ICD-10 Coding for Trauma Surgeons, continued

Learning Objectives

Upon successful completion of the Evaluation and Management (E&M) Section, participants will be able to:

- ✗ Identify the category (first 3 characters) of **ANY ICD-10 code to describe a traumatic injury** on a specific body area
- ✗ Describe what is required for proper coding of a traumatic fracture using the mnemonic Leo C. Far
- ✗ Describe when a 7th character would be required for an orthopaedic diagnosis code
- ✗ List 3 things you will do to review and improve your documentation

Course Agenda

8:00 am Registration

9:00 am - 12:00 pm ICD-10 For Orthopaedics

- Overview of ICD-10 Book
 - Comparing ICD-9 to ICD-10
 - What can we learn from the similarities
- Making the ICD-10 book more usable
- What about the chapter on External Causes?
 - Does it matter if the patient was bit by an Orca or hit by an Orca?
- ICD-10 Format and Structure
- Injury, Poisoning and Certain Other Consequences of External Causes
 - Architecture & Organization of the Injury Chapter
 - The “injury guy” coding aid to identify the “category” of any injury
- Using the 7th Character Extension for Injuries and Traumatic Fractures
- Technology Tips and Demo
- Classification of Fractures and Fracture Documentation
- Leo C. Far to master fracture documentation
 - Gustilio
 - Salter-Harris
 - Neer
 - Complications
- Dislocations
- Other Injuries for fractures

12:00 pm - 1:00 pm Lunch

1:00 pm - 4:00 pm Introduction to IZD-10: The Zupko slim guide to orthopaedic ICD-10 (see description)

- Diseases of the Musculoskeletal System
 - Architecture and Organization of the Musculoskeletal Chapter
- The “Musculoskeletal Block”
 - Complications- what’s new here
- Pathologic fractures and 7th characters
- In-depth look at
 - Arthritis
 - Pain
 - Using the IZD-10 slim guide

Technology Tips and Demo

- REVISED Implementation Guide: Making the Most of the Delay
 - Understanding what technology can do for you
 - Knowing what you should do next
- IZD-10 Zupko Slim Guide



TAMPA 2014

Pre-Registration Deadline October 1, 2014; On-site Registration - additional \$100. See Page 47.



YOUNG PRACTITIONERS FORUM

Thursday,
October 16, 2014

Lisa K. Cannada, MD
& Judith A. Siegel, MD, Program Chairs

Attendees of this activity can earn up to **4.0 AMA PRA Category 1 Credits™**

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.

Objectives

Attendees of the Young Practitioners Forum will:

- ✦ Increase knowledge and understanding of the fellowship application process and maximize the fellowship year experience
- ✦ Learn important strategies for building your career
- ✦ Identify successful time management approaches
- ✦ Increase awareness of the effective uses of social media

Program

Pocket Guide to a Successful Career Start

- 6:00 am **Registration and Continental Breakfast**
- 6:30 am **Trauma Profile for Young Practitioners**
Lisa K. Cannada, MD
- 6:36 am **Tips for Approaching the Fellowship Match**
John Hagedorn, MD
- 6:42 am **Expectations of a Fellow**
Milton L. "Chip" Routt Jr, MD
- 6:51 am **Job Searching Strategies: Do I Need to Start Now?**
Chad Corrigan, MD
Stephen L. Davis, MD
- 7:10 am **How Do I Get What I Need? (When I May Not Know All I Need)**
Clifford B. Jones, MD
- 7:21 am **What You Need to Know Before You Sign the Bottom Line**
M. Bradford Henley, MD
- 7:37 am **All of those Numbers: How Do I Learn Billing and Coding?**
J. Scott Broderick, MD

- 7:51 am **How to Make a Good First Impression/ How Not to Start Off On the Wrong Foot**
Craig C. Roberts, MD
- 8:02 am **Getting Started in Research: Academic Setting**
Hassan R. Mir, MD
Nonacademic Setting
Cory A. Collinge, MD
- 8:17 am Questions
- 8:28 am Break
- 8:41 am **Now That I am in Charge: What Do I Do? What Do I Need? What Matters?**
Scott P. Ryan, MD
Judith A. Siegel, MD
Brian H. Mullis, MD
- 8:59 am **Building Your Career After Your Fellowship**
Roy Sanders, MD
- 9:09 am **The Little Things that Matter**
J. Tracy Watson, MD
- 9:21 am **Advocacy: Why Should I Care?**
Samir Mehta, MD
- 9:27 am **If I Could Turn Back Time: What I Would Do Differently**
Frank Liporace, MD
- 9:40 am **Not Enough Time On My Hands: Finding Balance**
Nirmal C. Tejwani, MD
- 9:51 am Questions
- 10:00 am **I was Served: Now What?**
Michael Suk, MD, JD
- 10:13 am **Social Media: How to Use It Effectively**
Joshua L. Gary, MD
- 10:21 am **Keynote Address: What Really Matters**
Thomas "Toney" Russell, MD
- 10:52 am **Wrap Up**
- 11:00 am **ADJOURN TO INDUSTRY SYMPOSIA**
Registration Required
(Boxed lunch available)



2014 OTA ANNUAL MEETING

Thursday, October 16, 2014

1:00 pm **Welcome and Donor Awards**

1:20 pm - 2:50 pm **Symposium I
Contemporary Debates in
Orthopaedic Trauma**

Moderator: **Michael Suk, MD, JD**

Faculty: *Bruce H. Ziran, MD; Phillip R. Wolinsky, MD;
Clifford B. Jones, MD; Bruce D. Browner, MD;
Samir Mehta, MD; A. Alex Jahangir, MD;
Lisa K. Cannada, MD; Manish K. Sethi, MD*

"Contemporary Debates in Orthopaedic Trauma" will cover two critical propositions facing orthopaedic trauma today.

Proposition 1: "The US should adopt a standardize approach to hip fracture care."

Proposition 2: "Implementation of the Affordable Care Act is good for orthopaedic trauma."

This symposium will be presented in a Lincoln-Douglas style debate format –whereby teams of two will take a side either "Pro" or "Con" on an issue. The "Argument" stage is a 10-minute presentation designed to lay out the background, and compelling reasons why the position is chosen. The "Rebuttal" stage is a 5-minute statement designed to respond to the specifics of the "Argument" presentation.

2:50 pm - 3:20 pm **Break**

3:20 pm - 5:10 pm **Paper Session I: Foot, Ankle, Pilon**

Moderators: **David W. Sanders, MD
Steven R. Papp, MD**

3:20 pm **Paper 31**
Does Ankle Aspiration for Acute Ankle Fractures Result in Pain Relief: A Prospective Randomized Double Blinded Placebo Controlled Trial
*Timothy J. Ewald, MD, BS, MSc;
Pamela K. Holte; Joseph R. Cass, MD;
William Wood Cross III, MD;
Stephen A. Sems, MD*

3:26 pm **Paper 32**
Continuous Popliteal Sciatic Nerve Block for Ankle Fractures Reduces Postoperative Opioid Requirements and Rebound Pain: A Prospective Randomized Comparative Trial
*David Ding, MD; Arthur Manoli III, BS;
David Galos, MD; Sudheer Jain;
Nirmal C. Tejwani, MD, FRCS*

3:32 pm **Discussion**

3:37 pm **Paper 33**
Intraoperative O-Arm Evaluation on the Effect of Ankle Position on Accuracy of Syndesmotic Reduction
*Paul M. Lafferty, MD;
Timothy Hiesterman, DO;
Amir R. Rizkala, MD;
Ryan D. Horazdovsky, MD;
Peter A. Cole, MD*

3:43 pm **Paper 34**
A Prospective Study to Compare Open Reduction and Ligament Reconstruction Versus Percutaneous Screw Fixation of the Tibia Fibular Syndesmosis
*David Sanders, MD; Al Walid Hamam, MD;
Christina Tieszer, BSc, MSc;
Abdel-Rahman Lawendy, FRCS*

3:49 pm **Paper 35**
Syndesmotic Fixation in Supination-External Rotation Ankle Fractures: A Prospective Randomized Study at a Minimum of 4 Years of Follow-Up
*Tero Heikki Juhana Kortekangas, MD;
Harri Pakarinen, MD; Olli Savola, MD;
Jaakko Niinimäki; Sannamari Lepojärvi, MD;
Pasi Ohtonen, MSc; Tapio Flinkkilä;
Jukka Ristiniemi, MD, PhD*

3:55 pm **Discussion**

4:00 pm **Paper 36**
Syndesmotic Malreduction Results in Poorer Clinical Outcomes in a Supination External Rotation IV Ankle Fracture Cohort
*Richard Hinds, MD; Patrick C. Schottel, MD;
Matthew R. Garner, MD; David L. Helfet, MD;
Dean G. Lorich, MD*

4:06 pm **Paper 37**
Outcomes a Decade After Surgery for Unstable Ankle Fracture: Functional Recovery Does Not Decay with Time
*Stephen Gould, MD; Deirdre Regan, BA;
Arthur Manoli III, BS; Kenneth A. Egol, MD*

4:12 pm **Paper 38**
Functional Outcome After Ankle Fractures and Ankle Fracture-Dislocations: A Prospective Study
*Chad Ferguson, MD; Michael Ruffalo, MD;
J. Kent Ellington, MD; Rachel Seymour, PhD;
CAPT (ret) Michael J. Bosse, MD;
CMC-OC Ankle Fracture Research Group*

Annual Meeting
Thursday, October 16



OTA Annual Meeting, continued

Thursday, October 16, 2014

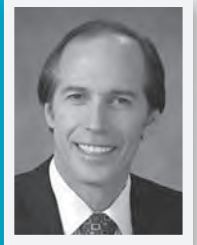
- 4:18 pm **Paper 39**
Correlation Between the Lauge-Hansen Classification and Ligament Injury in Ankle Fractures
Stephen Warner, MD, PhD;
Matthew R. Garner, MD;
Richard M. Hinds, MD; Dean G. Lorich, MD
- 4:24 pm Discussion
- 4:29 pm **Paper 40**
The Early and Medium Term Results of Early Primary Open Reduction and Internal Fixation of AO43-B/C Tibial Pilon Fractures: A Prospective Cohort Study
Daniel Deakin, FRCS; Pierre Guy, MD;
Peter J. O'Brien, MD, FRCSC;
Henry M. Broekhuysse, MD;
Jeremie Larouche, MD;
Piotr A. Blachut, MD; Kelly A. Lefaivre, MD
- 4:35 pm **Paper 41**
Type C Tibial Pilon Fractures: Rate and Risk Factors for Complications Following Early Operative Intervention
Andrew D. Duckworth;
Nicholas D. Clement, MRCS Ed;
Stuart Aitken, MD;
Timothy O. White, MD, FRCS
- 4:41 pm **Paper 42**
Percutaneous Reduction and Screw Fixation in Displaced Intra-Articular Fractures of the Calcaneus
Saran Tantavisut, MD;
J. Lawrence Marsh, MD;
Phinit Phisitkul, MD; Matthew D. Karam, MD;
Brian O. Westerlind, BA; Yubo Gao, PhD
- 4:47 pm **Paper 43**
Evaluation of Vitamin D Levels and Outcomes After Ankle Fracture Fixation
Stephen Warner, MD, PhD;
Matthew R. Garner, MD; Joseph Nguyen, MPH;
Dean G. Lorich, MD
- 4:53 pm Discussion

5:10 pm - 5:40 pm

President's Message

The Orthopaedic Trauma Association – Enhancing the Care of the Patient – Past, Present, and Future

Ross K. Leighton, MD
OTA President



5:40 pm - 6:40 pm **OTA Business Meeting**

7:00 pm - 9:00 pm **Welcome Reception**
The Florida Aquarium

The Florida Aquarium is consistently ranked as one of the best aquariums in the country and known for spectacular views of aquatic life. It offers wetlands under the impressive glass dome, bays & beaches, an impressive coral reef gallery to explore an undersea kaleidoscope of fish and rays and the energy of Ocean Commotion!

You won't want to miss this special private event within walking distance from the Tampa Convention Center.

Friday, October 17, 2014

- 6:30 am - 7:45 am Concurrent Break-outs
(Descriptions on pages 36 - 39)
- 6:30 am **Case Presentations** – No charge.
Seating available first come, first served.
- 6:30 am **Treatment of Pelvic Fractures**
Moderator: **Paul Tornetta III, MD**
Faculty: *David C. Templeman, MD;*
Robert V. O'Toole, MD;
Jodi Siegel, MD; Robert Ostrum, MD
- 6:30 am **Distal Humerus Fractures: Tips and Tricks**
Moderator: **Utku Kandemir, MD**
Panel Members: *Michael D. McKee, MD;*
Michael J. Gardner, MD;
Milan K. Sen, MD
- 6:30 am **2 Minutes - 2 Slides: Tips and Tricks for Nailing and Plating Long Bone Fractures**
Moderator: **Pierre Guy, MD**
Faculty: *Thomas F. Higgins, MD;*
Matt L. Graves, MD;
Piotr A. Blachut, MD;
Christian Krettek, MD, FRACS
- 6:30 am **Skills Labs** – No charge. Registration is required.
- 6:30 am (SL1) **SIGN Fracture Care International**
Leader: **Lewis G. Zirkle Jr, MD**
- 6:30 am (SL2) **IM Fixation of Proximal Tibial Fractures**
Leader: **Roy Sanders, MD**



Friday, October 17, 2014

8:00 am - 9:03 am Paper Session II: Hip/Femur

Moderators: *Gilbert R. Ortega, MD, MPH*
Hrayr G. Basmajian, MD

8:00 am **Paper 44**

A Comparison of Parker's Ratios for the Treatment of AO/OTA 31-A2 Fractures with Gamma Nail or Proximal Femoral Nail Antirotation: Is Central Positioning Always the Best?

James N. Irvine Jr, MD;
Harald K. Widhalm, MD

8:06 am **Paper 45**

Incidence, Magnitude, and Predictors of Shortening in Young Femoral Neck Fractures

Gerard P. Slobogean, MD, MPH, FRCSC;
David J. Stockton, BS; Daniel Deakin;
Andrew Yamada;
Henry M. Broekhuysse, MD;
Piotr A. Blachut, MD;
Peter J. O'Brien, MD, FRCSC;
Pierre Guy, MD; Kelly A. Lefaivre, MD

8:12 am **Paper 46**

Cephalo-Medullary Nail Fixation of Intertrochanteric Fractures: Are Two Proximal Screws Better than One?

Rafael Serrano-Riera, MD;
James A. Blair, MD;
Katheryne Downes, MPH;
Roy Sanders, MD

8:18 am Discussion

8:23 am **Paper 47**

The Management and Outcomes of Femoral Head Fractures

John A. Scolaro, MA, MD;
Geoffrey Marecek, MD;
Reza Firoozabadi, MD;
James C. Krieg, MD;
Milton L. Routt Jr, MD

8:29 am **Paper 48**

The Clinical Study of the Treatment of Femoral Shaft Nonunions After Nailing with Augmentation Plating Versus Exchange Nailing

Bosong Zhang, MD

8:35 am **Paper 49**

The Results of a Systematic Approach to Exchange Nailing for the Treatment of Aseptic Femoral Nonunions

Eli Swanson, MD; Eli Garrard, MD;
Derek Bernstein, MD;
Daniel P. O'Connor, PhD;
Mark R. Brinker, MD

8:41 am Discussion

8:46 am **Paper 50**

Working Length and Proximal Screw Constructs in Plate Osteosynthesis of Distal Femur Fractures

Brett D. Crist, MD, FACS;
William H. Harvin, MD;
Gregory J. Della Rocca, MD, PhD;
Yvonne M. Murtha, MD; David A. Volgas, MD;
James P. Stannard, MD

8:52 am **Paper 51**

Construct Characteristics Predisposing to Nonunion After Locked Lateral Plating of Distal Femur Fractures

Edward K. Rodriguez, MD, PhD;
Lindsay Herder; Jordan Morgan, BS;
David Zurakowski PhD; Michael J. Weaver, MD;
Paul T. Appleton, MD; Mark S. Vrahas, MD

8:58 am Discussion

9:03 am - 9:33 am Break

9:33 am - 10:48 am Concurrent Break-outs
(Descriptions on pages 36 - 39)

9:33 am **Mini-Symposia** – No charge.
Seating available first come, first served.

9:33 am **OTA Trauma Registry Database**

Moderators: *Julie Agel, ATC*
Douglas W. Lundy, MD

9:33 am **Circular Fixation: Applications for the Trauma Surgeon**

Moderator: *Kevin J. Pugh, MD*
Faculty: *J. Tracy Watson, MD;*
Joseph R. Hsu, MD;
Animesh Agarwal, MD

9:33 am **Rib Fracture Fixation and the Surgical Management of Flail Chest Injuries: State of the Art**

Moderator: *Michael D. McKee, MD*
Faculty: *Niloofer Dehghan, MD;*
Gerard P. Slobogean, MD;
Peter Althausen, MD; Aaron Nauth, MD;
John C. Mayberry, MD;
Emil H. Schemitsch, MD



OTA Annual Meeting, continued

Friday, October 17, 2014

9:33 am - Concurrent Break-outs, continued
10:48 am

9:33 am **Skills Labs** – No charge. Registration is required.

9:33 am (SL3) **ORIF Distal Tibia and Fibula Fractures**

Leader: **Matt L. Graves, MD**

9:33 am (SL4) **ORIF Distal Radius Fractures**
Leader: **David C. Ring, MD**

9:33 am - **Paper Session III:
Geriatric**

Moderators: **Pierre Guy, MD**
Stephen L. Kates, MD

9:33 am **Paper 52**
**Hip Fractures are Risky Business:
An Analysis of the NSQIP Data**
*Rachel V. Thakore, BS; Cesar S. Molina, MD;
Eduardo J. Burgos, MD;
William T. Obremskey, MD, MPH;
Manish K. Sethi, MD*

9:39 am **Paper 53**
**Trauma Triage Scores Inadequately
Assess Geriatric Patients**
Matthew S. Wilson, MD; Sanjit R. Konda, MD;
*Rachel Seymour, PhD;
Madhav A. Karunakar, MD;
Carolinas Trauma Network Research Group*

9:45 am **Paper 54**
**Development and Validation of a
Geriatric Trauma Triage Score**
Sanjit R. Konda, MD; Rachel Seymour, PhD;
*Arthur Manoli III, BS; Madhav A. Karunakar, MD;
Carolinas Trauma Network Research Group*

9:51 am Discussion

9:56 am **Paper 55**
**Does Anesthesia Type Influence Risk
of Perioperative Complications in Hip
Fracture Surgery?**
*Rachel V. Thakore, BS; Cesar S. Molina, MD;
Paul S. Whiting, MD;
William T. Obremskey, MD, MPH;
Manish K. Sethi, MD*

10:02 am **Paper 56**
**Efficacy of Scheduled Intravenous
Acetaminophen Pain-Management
Protocol in Hip Fractures**
Alexander Bollinger, MD; Paul Butler, MD;
Matthew S. Nies, BS; Terrence J. Endres, MD

10:08 am **Paper 57**
**The Effect of Preoperative
Transthoracic Echocardiogram on
Mortality and Surgical Timing in Elderly
Hip Fracture Patients**
Kevin Luttrell, MD; Arvind D. Nana, MD

10:14 am **Paper 58**
**Improving Care for Older Patients
with Hip Fracture**
Christopher G. Moran, MD, FRCS;
*Chris Boulton, BA; Antony Johansen;
Robert Wakeman; Keith Willett*

10:20 am Discussion

10:25 am **Paper 59**
**Surgery Versus Cast Immobilization for
Displaced Intra-Articular Distal Radius
Fractures in Elderly Patients -
A Randomized Controlled Multicenter Trial**
Christoph Bartl; Dirk Stengel, MD, PhD, MSc;
Thomas Bruckner, Dipl. Math.;
Florian T. Gebhard, MD, PhD

10:31 am **Paper 60**
**Determinants of Functional Outcome
in Distal Radius Fractures in High
Functioning Elderly Patients**
Jeremie Larouche, MD, FRCSC;
*Jeffrey Pike, MD; Gerard Slobogean, MD,
MPH, FRCSC; Pierre Guy, MD;
Henry M. Broekhuyse, MD;
Peter J. O'Brien, MD, FRCSC;
Kelly A. Lefavre, MD*

10:37 am **Paper 61**
**A Comparison of Primary Total Elbow
Arthroplasty Versus Secondary Total
Elbow Arthroplasty (Following Failed
Internal Fixation) for Distal Humeral
Fractures of the Elderly**
James Dunwoody, MD, FRCSC;
Justin L. Hodgins, MD; Milena Vicente, RN;
Laura Schemitsch, BA; Patrick Henry, MD;
Jeremy Hall, MD, FRCS (ORTHO), MEd;
Michael D. McKee, MD

10:43 am Discussion

10:48 am **Best International
Forum Paper**
TBD

10:56 am **Guest Nation Introduction**
Ross K. Leighton, MD, OTA President



Friday, October 17, 2014

10:59 am **Guest Nation Presentation**



João Antonio Matheus Guimarães, MD
Brazilian Society of Orthopaedic Trauma
"Evolution of Trauma Care System in Brazil: Current Status" and
"Management of Fragility Fractures of the Distal Femur: ORIF, Biological Augmentation or Replacement?"

11:07 am Discussion

11:11 am - 11:41 am

**John Border, MD
Memorial Lecturer**

Long Term Careers in Orthopaedic Trauma: System Design and Career Development

Andrew R. Burgess, MD
Professor, Vice Chair
UT Health Medical School,
Houston, Texas



11:41 am - 12:41 pm Lunch

11:55 am - 12:40 pm **Poster Tours** – No charge. Registration is required.

(PT1) **International**
Guide: **Peter V. Giannoudis, MD**

(PT2) **Hip, Femur, Geriatric**
Guide: **Michael R. Baumgaertner, MD**

12:41 pm - 2:19 pm **Symposium II
Damage Control Orthopaedics –
Where Are We After a Decade
(Century) of Debate and Research?**

Moderators: **Todd O. McKinley, MD**
Steven A. Olson, MD

12:41 pm **Historical Perspective - Early Total Care and Ortho Damage Control**
Steven A. Olson, MD

12:52 pm **Mitochondrial DAMPs and Inflammation After Trauma**
Carl J. Hauser, MD

1:03 pm **Basic & Clinical Science - Systemic Response to Injury and the Polytrauma Patient**
Hans Christoph Pape, MD

1:14 pm **Translating Basic Science to Clinical Science**
Todd O. McKinley, MD

1:25 pm **Future Directions and Opportunities in Damage Control**
Robert V. O'Toole, MD

1:36 pm Discussion



1:56 pm **Paper 62
Can Thrombelastography Predict Venous Thromboembolic Events in Patients with Severe Extremity Trauma?**
Joshua L. Gary, MD;
Prism Schneider, MD, PhD, FRCSC;
Bryan A. Cotton, MD, MPH;
Zayde Radwan, MD; Matthew C. Galpin;
John W. Munz, MD; Timothy S. Achor, MD;
Mark L. Prasarn, MD

2:02 pm **Paper 63
Prediction of Pulmonary Embolism in Trauma Patients: A Risk Assessment Model Based Upon 38,000 Patients**
Sheena R. Black, MD, BS;
Jeffrey T. Howard, MA;
Paul C. Chin, MD, PhD;
Adam J. Starr, MD

2:08 pm **Paper 64
Evaluation of the Relationship Between Fractures and Hyponatremia**
Navneet Pala, MD;
Andrew J Marcantonio, DO;
Jessica Katharine Paulus, PhD;
Janis L Breeze, MPH;
Olexandra Koshkina, MD;
Mary Beth Hodge; Kalyani Murthy, MD, MS

2:14 pm Discussion

2:19 pm - 3:30 pm **Paper Session IV:
Pelvis and Acetabulum**
Moderators: **Stephen Kottmeier, MD**
M. L. Chip Routt, MD

2:19 pm **Paper 65
Role of Acute Negative Pressure Wound Therapy Over Primarily Closed Surgical Incisions in Hip, Pelvis, and Acetabular Fracture Surgery—A Prospective Randomized Trial**
Brett D. Crist, MD, FACS;
Michael S. Khazzam, MD;
Gregory J. Della Rocca, MD, PhD;
Yvonne M. Murtha, MD;
James P. Stannard, MD



OTA Annual Meeting, continued

Friday, October 17, 2014

- 2:25 pm **Paper 66**
Early Treatment of Associated Pattern Acetabular Fractures Via an Anterior Approach Does Not Increase Blood Loss or Need for Transfusion
Cesar S. Molina, MD;
Priya G. Sivasubramaniam, BA;
Andrew R. Fras, MD;
Chad M. Corrigan, MD;
Hassan R. Mir, MD; Jason M. Evans, MD
- 2:31 pm **Paper 67**
The Value of Thromboelastography in Orthopaedic Trauma Pelvic Fracture Resuscitation
Christiaan N. Mamczak, DO;
Bryan A. Boyer, MD; Scott Thomas, MD;
Braxton Fritz, BS; Edward Evans, BA, CCP;
Benjamin Speicher, BA, CCP;
Mark Walsh, MD
- 2:37 pm Discussion
- 2:42 pm **Paper 68**
Posterior Wall Acetabular Fractures and Stability
Reza Firoozabadi, MD, MA;
Clay A. Spittler, MD; Calvin L. Schlepp, MD;
Benjamin Hamilton, BS, MS;
Julie Agel, ATC; Paul Tornetta III, MD
- 2:48 pm **Paper 69**
Nonoperative Treatment of Posterior Wall Fractures of the Acetabulum After Dynamic Stress Examination Under Anesthesia: Revisited
Andrew McNamara, MD;
John A. Boudreau, MD; Berton R. Moed, MD
- 2:54 pm Discussion
- 2:59 pm **Paper 70**
CT After Acetabulum Fracture ORIF - Is There Value?
Michael T. Archdeacon, MD;
Steven K. Dailey, MD; Kaylan McClary, BS
- 3:05 pm **Paper 71**
Neurologic Injury in Operatively Treated Acetabular Fractures
Paul Tornetta III, MD; Yelena Bogdan, MD;
Clifford B. Jones, MD, FACS;
Emil H. Schemitsch, MD;
Daniel S. Horwitz, MD; David Sanders, MD;
Reza Firoozabadi, MD;
Juan De Dios Robinson, BA, MBBS, MSc, FRCS (Ortho); Andrew J. Marcantonio, DO
- 3:11 pm Discussion

- 3:16 pm **Paper 72**
Does Removal of the Symphyseal Cartilage in Symphyseal Dislocations Have Any Effect on Final Alignment and Hardware Failure?
Paul Tornetta III, MD; Kyle Lybrand, MD;
John Kurylo, MD; Jordan Gross, BS
- 3:22 pm **Paper 73**
Does Lumbopelvic Fixation Add Stability? A Cadaveric Biomechanical Analysis of an Unstable Pelvic Fracture Model
Ehsan Jazini, MD; Oliver O. Tannous, MD;
Eric Belin, MD; Christopher M. Hoshino, MD;
Robert V. O'Toole, MD; Noelle Klocke, MS;
Mir Hussain, BS; Brandon Bucklen, PhD;
Steven C. Ludwig, MD
- 3:28 pm Discussion
- 3:33 pm - 4:00 pm Break
- 4:00 pm - 5:35 pm Break-outs
- 4:00 pm **Mini-Symposia** – No charge.
 Seating available first come, first served.
- 4:00 pm **From the Operating Room to the Boardroom - Applying an MBA to Benefit Orthopaedic Traumatology**
 Moderator: **Hassan R. Mir, MD, MBA**
 Faculty: *Douglas W. Lundy, MD, MBA;*
Craig S. Roberts, MD, MBA;
George V. Russell, MD, MBA;
David J. Hak, MD, MBA;
Peter L. Althausen, MD, MBA;
M. Bradford Henley, MD, MBA
- 4:00 pm **Biologic Solutions in the Management of Nonunions and Patients at Risk for Delayed Healing**
 Moderator: **Samir Mehta, MD**
 Faculty: *Jaimo Ahn, MD, PhD;*
Robert P. Dunbar Jr, MD;
Robert D. Zura, MD;
James C. Krieg, MD
- 4:00 pm **History of Nailing**
 Moderator: **Philip Procter, PhD**
 Faculty: *Thomas A. (Toney) Russell, MD*
- 4:00 pm - 4:32 pm **Paper Session V: Polytrauma**
 Moderators: **Michael J. Gardner, MD**
Robert P. Dunbar Jr, MD
- 4:00 pm **Paper 74**
Clinical Indications for CT Angiography in Lower Extremity Trauma
Joseph T. Patterson, BS;
Thomas Fishler, MD; Daniel D. Bohl, MPH;
Michael P. Leslie, DO



Friday, October 17, 2014

4:06 pm **Paper 75**
Immediate Weight Bearing as Tolerated Has Improved Outcomes Compared to Non-Weight Bearing After Surgical Stabilization of Midshaft Clavicle Fractures in Polytrauma Patients
Brian Cunningham, MD;
Gilbert R. Ortega, MD, MPH;
Anthony S. Rhorer, MD; Brian Miller, MD;
Hrayr Basmajian, MD; Ryan McLemore, PhD;
Kelly Jackson, NP

4:12 pm **Paper 76**
Management of Clavicle Fractures in Patients with Thoracic Trauma
Geoffrey Marecek, MD;
David Barei, MD, FRCS(C); Julie Agel, ATC;
Thomas K. Varghese MD, MS, FACS;
Daphne M. Beingsner, MD

4:18 pm **Paper 77**
The Association of Ipsilateral Rib Fractures with Displacement of Midshaft Clavicle Fractures
Matthew Ellington, MD; Daniel Jupiter, PhD;
Kindyle L. Brennan, PhD;
Michael L. Brennan, MD; Daniel L. Stahl, MD

4:25 pm Discussion

4:32 pm - 5:35 pm **Paper Session VI:
 Pediatrics/Reconstruction**

Moderators: *David J. Hak, MD*
Cyril Mauffrey, FRCS (ORTHO), MD

4:32 pm **Paper 78**
Is There a Higher Risk of infection with Delayed Treatment of Pediatric Seymour Fractures?
Bryan A. Reyes, BA, MD;
Christine A. Ho, MD

4:38 pm **Paper 79**
All Lateral Versus Medial and Lateral Flexible Intramedullary Nails for the Treatment of Pediatric Femoral Shaft Fractures
Sheena R. Black, MD; Jason M. Gage, DO;
Robert L. Wimberly, MD; Jay B. Cook, MD;
William T. Gheen, BA;
Anthony I. Riccio, MD

4:44 pm **Paper 80**
Below-Knee Cast (BKC) Comparing with Above-Knee Cast (AKC) for Tibial Shaft Fractures in Children
Rajiv Maharjan, MBBS, MS; Amit Limbu

4:50 pm Discussion

4:55 pm **Paper 81**
Pediatric Pelvic Ring Injuries: How Benign Are They?
Christiane G. Kruppa;
Justin D. Khoriaty, BS, MS;
Debra Sietsema, PhD, RN;
Marcel Dudda, MD;
Clifford B. Jones, MD, FACS

5:01 pm **Paper 82**
Iliosacral Screw Pathways in the Pediatric Population: Are There Safe Bony Corridors?
Joshua L. Gary, MD;
Matthew Burn, MD;
Michael Holzman, MD;
John W. Munz, MD;
Timothy S. Achor, MD;
John A. Heydemann, MD;
Matthew C. Galpin;
Manickam Kumaravel, MD, FRCS

5:07 pm Discussion

5:12 pm **Paper 83**
Risk of Hip Arthroplasty After Open Reduction internal Fixation of a Fracture of the Acetabulum: A Matched Cohort Study
Sam Si-Hyeong Park, MD;
Patrick Henry, MD;
David Wasserstein, MD;
Michael Paterson; Hans J. Kreder, MD;
Richard Jenkinson, MD

5:18 pm **Paper 84**
Clinical Outcome and Survival of Total Hip Arthroplasty After Acetabular Fracture: A Case-Control Study
Zachary Morison, MSc;
Dirk J. Moojen, MD, PhD; Aaron Nauth, MD;
Jeremy Hall, MD, FRCS (ORTHO), MEd;
Michael D. McKee, MD;
James P. Waddell, MD;
Emil H. Schemitsch, MD

5:24 pm **Paper 85**
A Predictive Model for Complications After Flap Coverage of Open Tibia Fractures
Brian M. Weatherford, MD;
Andrew G. Dubina; Renan C. Castillo, MD;
Raymond A. Pensy, MD;
W. Andrew Eglseder, MD;
Robert V. O'Toole, MD

5:30 pm Discussion

5:35 pm **ADJOURN TO 'SUDS AND SCIENCE' POSTER TOURS** (Beverages Served)



OTA Annual Meeting, continued

Friday, October 17, 2014

- 5:45 pm - 'Suds and Science' Poster Tours
6:30 pm - No charge. Registration is required.
(PT3) **Foot and Ankle**
Guide: **Paul Tornetta III, MD**
(PT4) **Upper Extremity**
Guide: **Michael D. McKee, MD**
Enjoy a poster tour, lively discussion, and a beverage with colleagues.

Saturday, October 18, 2014

- 6:30 am - Concurrent Break-outs
7:45 am (Descriptions on pages 36 - 39)
6:30 am **Case Presentations** – No charge.
Seating available first come, first served.
6:30 am **Humeral Shaft Fractures: When and How to Fix Surgically (Was Sarmiento Wrong?)**
Moderator: **Lisa K. Cannada, MD**
Faculty: **William T. Obremesky, MD; Clifford B. Jones, MD**
6:30 am **Periprosthetic Fractures**
Moderator: **Erik Kubiak, MD**
Faculty: **George J. Haidukewych, MD; Mark C. Reilly, MD; Mark S. Vrahas, MD; David P. Barei, MD**
6:30 am **Distal Femur Cases**
Moderator: **Jason W. Nascone, MD**
Faculty: **Michael J. Gardner, MD; Christopher Doro, MD; Hobie Summers, MD; Conor P. Kleweno, MD**
6:30 am **Skills Labs** – No charge. Registration is required.
6:30 am (SL5) **Knee or Ankle Spanning Ex-Fix**
Leader: **Edward A. Perez, MD**
6:30 am (SL6) **ORIF of Anterior Acetabular Fractures**
Leader: **Michael T. Archdeacon, MD**

8:00 am - 9:30 am Symposium III Tibial Plateau Fractures: Optimizing Surgical Management and Technique in 2014

- Moderator: **Michael D. McKee, MD**
Faculty: **Ross K. Leighton, MD; Mark S. Vrahas, MD; Paul Tornetta III, MD; Aaron Nauth, MD; Emil H. Schemitsch, MD**

This symposium will review the available evidence and surgical techniques that can be applied to the management of tibial plateau fractures in 2014. In addition, a focus will be placed on unusual variants of these injuries that require a specialized approach, including posterior shear fractures and combined fractures and ligamentous injuries.

9:30 am - 10:00 am Break

- 10:00 am - 11:30 am Concurrent Break-outs
(Descriptions on pages 36 - 39)
10:00 am **Mini-Symposia** – No charge.
Seating available first come, first served.
10:00 am **From Good to Great: Improving your Treatment of Acetabular Fractures**
Moderators: **Jaimo Ahn, MD, PhD**
Samir Mehta, MD
Faculty: **David L. Helfet, MD; Milton L. "Chip" Routt, MD; Steven A. Olson, MD; Mark S. Vrahas, MD; Mark C. Reilly, MD**
10:00 am **Managing Nonunion: Theory and Practice**
Moderator: **Christopher G. Moran, FRCS**
Faculty: **Pierre Guy, MD; John J. Wixted, MD; R. Malcolm Smith, MD**
10:00 am **How to Establish and Run a Fragility Fracture Program**
Moderator: **James A. Goulet, MD**
Faculty: **Peter Althausen, MD; Debra Sietsema, PhD, RN; Karen Cummings PA-C; Joseph M. Lane, MD; Marc F. Swiontkowski, MD**

10:00 am - 12:24 pm Paper Session VII: Upper Extremity

- Moderator: **Robert V. O'Toole, MD**
Stephen M. Quinnan, MD
10:00 am **Paper 86**
Operative Treatment of Dislocated Midshaft Clavicle Fractures: Plate or Intramedullary Pin Fixation? A Randomized Controlled Trial
Frans-Jasper Wijdicks;
Olivier Van Der Meijden, MD;
Marijn Houwert, MD, PhD;
Martijn Hulsmans; Marcel G.W. Dijkgraaf, PhD;
Sven Meylaerts, MD, PhD;
Eric R. Hammacher MD, PhD;
Michael Verhofstad; Egbert JMM Verleisdonk
10:06 am **Paper 87**
Reconstruction Plate Compared with Flexible intramedullary Nailing for Midshaft Clavicular Fractures: A Prospective, Randomized Clinical Trial
Fernando Brandao, MD; Koki E. Kojima, MD;
Jorge dos Santos Silva, MD;
Rames Mattar Jr, MD
10:12 am **Paper 88**
Does Insurance Status Affect the Management of Acute Clavicle Fractures?
Ryan Bliss, MD; Arthur M. Mora;
Peter C. Krause, MD
10:18 am Discussion



Saturday, October 18, 2014

- 10:23 am **Paper 89**
Long-Term Outcome of Isolated Stable Radial Head Fractures
Andrew D. Duckworth;
Neil R. Wickramasinghe, MBBS;
Nicholas D. Clement, MRCS Ed;
Charles M. Court-Brown, MD;
Margaret M. McQueen, MD
- 10:29 am **Paper 90**
Radial Head Replacement for Complex Unstable Fractures of the Radial Head
Andrew D. Duckworth;
Neil R. Wickramasinghe, MBBS;
Nicholas D. Clement, MRCS Ed;
Charles M. Court-Brown, MD;
Margaret M. McQueen, MD
- 10:35 am Discussion
- 10:40 am **Paper 91**
Early Mobilization Versus Plaster Immobilization of Simple Elbow Dislocations; Results of the Funcsie Multicenter Randomized Clinical Trial
G.I.T. Iordens, MD;
Esther M.M. Van Lieshout, PhD;
Schep W.L. Niels; Jeroen De Haan;
Wim Eduard Tuinebreijer, MD, PhD, MSc, MA;
Ed van Beeck; Peter Patka, MD, DMed, PhD;
Michael Verhofstad; Dennis Den Hartog, PhD
- 10:46 am **Paper 92**
Manipulation Under Anesthesia as a Treatment of Post-Traumatic Elbow Stiffness
Daniel Doty, MD; *Clay A. Spittler, MD;*
Peter J. Nowotarski, MD;
D. Marshall Jemison, MD
- 10:52 am **Paper 93**
Galeazzi Fractures: Are DRUJ Injuries Predicted by Current Guidelines?
Paul Tornetta III, MD;
Antonios Tsismenakis, MD
- 10:58 am Discussion
- 11:03 am **Paper 94**
Modern Treatment of 3 and 4-Part Proximal Humerus Fractures: ORIF Demonstrates Better Range of Shoulder Motion than Reverse Total Shoulder Arthroplasty
Kenneth A. Egol, MD;
Christina Capriccioso, BS;
Thomas W. Wright, MD;
Pierre-Henri Flurin, MD;
Joseph D. Zuckerman, MD

- 11:09 am **Paper 95**
Operative Versus Nonoperative Management Humerus Fractures
Reza Firoozabadi, MD, MA;
Edward Westrick, MD;
Benjamin Hamilton, BS, MS;
M. Bradford Henley, MD, MBA
- 11:15 am Discussion
- 11:21 am **Paper 96**
A Randomised Controlled Trial of Percutaneous Fixation with Kirschner Wires Versus Volar Locking-Plate Fixation in the Treatment of Adult Patients with a Dorsally Displaced Fracture of the Distal Radius
Andrew C. Gray, MD;
Matthew L. Costa, FRCS;
Amar Rangan, FRCS
- 11:27 am **Paper 97**
Clinical Trial in the Treatment of A2-OTA Type Fractures of the Distal Radius by Casting
Amir R. Kachooei, MD; *Ali Moradi, MD;*
Mohammad H. Ebrahimzadeh, MD
- 11:33 am **Paper 98**
Volar Locking Plate Versus External Fixator/Cast Fixation for the Treatment of Distal Radius Fractures: A Randomized Controlled Prospective Trial
Lidia Koval, MBBS; *Herwig Drobetz, MD*
- 11:39 am Discussion
- 11:44 am **Paper 99**
ORIF Distal Radius: Catastrophic Thinking Leads to Stiff Fingers
Teun Teunis, MD; *Arjan G.J. Bot, MD;*
Emily R. Thornton BSc; David C. Ring, MD
- 11:50 am **Paper 100**
The Role of Depression in Outcomes of Low Energy Distal Radius Fractures in Patients Over 55 Years Old
Jane Yeoh, MD; Jeffrey Pike, MD;
Henry M. Broekhuysse, MD;
Peter J. O'Brien, MD, FRCSC;
Kelly A. Lefavre, MD, FRCSC
- 11:56 am Discussion



OTA Annual Meeting, continued

Saturday, October 18, 2014

- 12:01 pm **Paper 101**
Efficacy of Brachial Plexus Block in Post-Operative Pain Control After Distal Radius Fracture Fixation: A Prospective Randomized Study
David Galos, MD; David P. Taormina, MS; Alexander Crespo, BS; David Ding, MD; Anthony Sapienza, MD; Sudheer Jain; Nirmal C. Tejwani, MD, FRCS
- 12:07 pm **Paper 102**
Radiation Exposure to the Surgeon's Hands: A Practical Comparison of Large and Mini C-Arm Fluoroscopy
Michael M. Vosbikian, MD; Charles F. Leinberry, MD; Derek D. Watson; Asif M. Ilyas, MD
- 12:13 pm **Paper 103**
Dorsal Screw Penetration with the Use of Volar Plating of Distal Radius Fractures: How can You Best Detect?
Brian W. Hill, MD; Irshad A Shakir, MD; Lisa K. Cannada, MD
- 12:19 pm Discussion
- 12:24 pm Lunch & Poster Tours
- 12:35 pm - 1:20 pm **Poster Tours** – No charge. Registration is required.
(PT5) **Knee/Tibia**
Guide: **J. Tracy Watson, MD**
(PT6) **Reconstruction/General Interest**
Guide: **Michael J. Gardner, MD**
- 1:24 pm - 2:54 pm Concurrent Break-outs
(Descriptions on pages 36 - 39)
- 1:24 pm **Mini-Symposia** – No charge.
Seating available first come, first served.
Coding Update and Challenging Case Review
Moderator: **J. Scott Broderick, MD**
Faculty: *William R. Creevy, MD; Austin Hill, MD*
- 1:24 pm **Management Strategies for Physseal Fractures Around the Knee and Ankle**
Moderator: **David A. Podeszwa, MD**
Faculty: *Christine A. Ho, MD; Robert L. Wimberly, MD; Anthony I. Riccio, MD*
- 1:24 pm **How Do You Decide Who Should be a "Co-author"? The Expert Panel Perspective**
Moderator: **Craig S. Roberts, MD**
Faculty: *Marc F. Swiontkowski, MD; Paul Tornetta III, MD*
- 1:24 pm **Developing a Successful Clinical Research Program**
Moderator: **Heather A. Vallier, MD**
Faculty: *Mary A. Breslin, BA; William T. Obremskey, MD, MPH*

1:24 pm - 2:44 pm **Paper Session VIII: Knee/Tibial Plateau**
Moderators: **Thomas F. Higgins, MD**
James P. Stannard, MD

- 1:24 pm **Paper 104**
Removal of Implants After Open Reduction and Internal Fixation of Tibial Plateau Fractures Improves Clinical Outcomes
Matthew R. Garner, MD; Marshall B. Berkes, MD; Amelia Ni, BA; Jacqueline F. Birnbaum, BA; Dean G. Lorch, MD
- 1:30 pm **Paper 105**
Comparing Outcomes Between Hinged Knee Bracing and No Bracing After Open Reduction Internal Fixation of Tibial Plateau Fractures
Aakash Chauhan, MD, MBA; Alan Slipak, BS; Kathryn D. Peticca, BA; Gregory T. Altman, MD; Daniel T. Altman, MD
- 1:36 pm **Paper 106**
Randomized Clinical Trial of Supra- Versus Infra-Patellar Tibial Nailing: A Pilot Study
Daniel S. Chan, MD; Barbara Steverson, RN; Rafael Serrano-Riera, MD; Anthony F. Infante, DO; David T. Watson, MD; H. Claude Sagi, MD; Roy Sanders, MD
- 1:42 pm Discussion
- 1:47 pm **Paper 107**
Type III Open Tibia Fractures: Immediate Antibiotics and Earliest Possible Wound Coverage Minimize Infections
William D. Lack, MD; Madhav A. Karunakar, MD; Marc Angerame, MD; Rachel Seymour, PhD; Stephen H. Sims, MD; James F. Kellam, MD; Michael J. Bosse, MD
- 1:53 pm **Paper 108**
Damage Control Plating in Open Tibial Shaft Fractures: A Cheaper and Equally Effective Alternative to Spanning External Fixation
Aaron M. Perdue, MD; Arnold Silverberg, BS; Rachel V. Thakore, BS; Vasanth Sathiyakumar; Daniel J. Stinner, MD; Hassan Riaz Mir, MD; David J. Polga, MD; William T. Obremskey, MD, MPH; Manish K. Sethi, MD

Saturday, October 18, 2014

- 1:59 pm **Paper 109**
The Gustilo-Anderson Classification System As Predictor of Nonunion and Infection in Open Tibia Fractures
Rachel V. Thakore, BS; Elvis L. Francois; Michael Siuta; Michael A. Benvenuti, BS; Anne K. Smith; Samuel Nwosu, MS; Kristin Archer, PhD; Jesse Ehrenfeld, MD, MPH; William T. Obremskey, MD, MPH; Manish K. Sethi, MD
- 2:05 pm Discussion
- 2:10 pm **Paper 110**
Prediction of Tibial Nonunions at Three Months After Intramedullary Nailing
Justin Fowler, MD; Andrew G. Dubina; Renan C. Castillo, MD; Christina L. Boulton, MD; Jason W. Nascone, MD; Marcus F. Sciadini, MD; Christopher T. LeBrun, MD; Robert V. O'Toole, MD
- 2:16 pm **Paper 111**
Does Progressive Radiographic Healing Result in Better Function? A Prospective Evaluation of PCS and Rust Scoring in Tibial Shaft Fractures Treated with IM Nailing
Paul Tornetta III, MD; David Sanders, MD; George Yves Laflamme, MD; Emil H. Schemitsch, MD; Diane Heels-Ansdell, MSc; Jason W. Busse, DC, PhD; Mohit Bhandari, MD, FRCSC, PhD
- 2:22 pm Discussion
- 2:27 pm **Paper 112**
The Incidence of Deep Vein Thrombosis and Pulmonary Embolism in Fractures of the Tibia: An Analysis of the National Trauma Databank
Ronald Auer, MD; John Riehl, MD
- 2:33 pm **Paper 113**
Ankle injuries in Distal Tibial Spiral Shaft Fractures: Results from an Institutional Change in Imaging Protocol
Stephen Warner, MD, PhD; Patrick C. Schottel, MD; Matthew R. Garner, MD; David L. Helfet, MD; Dean G. Lorich, MD
- 2:39 pm Discussion
- 2:44 pm - 3:14 pm Break

3:14 pm - 5:05 pm **Paper Session IX: Topics of General Interest**

Moderator: *Michael D. McKee, MD*

- 3:14 pm **Paper 114**
Do Postoperative Prophylactic Antibiotics Decrease the Risk of Deep Infection After ORIF? A Prospective Double-Blinded Randomized Placebo-Controlled Trial
Brett D. Crist, MD, FACS; David D. Greenberg, MD; Gregory J. Della Rocca, MD, PhD; Yvonne M. Murtha, MD; David A. Volgas, MD; James P. Stannard, MD
- 3:20 pm **Paper 115**
Regional and Seasonal Variations in Post-Traumatic Infections After Open Fracture
H. Claude Sagi, MD; David Barei, MD, FRCS(C); Justin C. Siebler, MD; Michael T. Archdeacon, MD; Frank A. Liporace, MD; Thomas F. Higgins, MD; Patrick F. Bergin, MD; David Donohue, MD; Seth Cooper, MD
- 3:26 pm **Paper 116**
The Effect of Acute High-Dose Vitamin D Supplementation on Fracture Union in Patients with Hypovitaminosis D. A Pilot Study
Nikkole Marie Haines, MD, BS; Laurence Kempton, MD; Rachel Seymour, PhD; Madhav A. Karunakar, MD
- 3:32 pm Discussion
- 3:37 pm **Paper 117**
Statistical Significance in Trauma Research: Too Unstable to Trust?
Paul Tornetta III, MD; Mohit Bhandari, MD, FRCSC, PhD; Robert L. Parisien, MD; Jesse Dashe, MD; Patrick Cronin



OTA Annual Meeting, continued

Saturday, October 18, 2014

- 3:43 pm **Paper 118**
Are We Evidence Based? The Effect of Level One Evidence On Surgical Decision Making
Paul Tornetta III, MD;
Mohit Bhandari, MD, FRCSC, PhD;
Andrew Jawa, MD; Jason L. Pittman, MD, PhD;
Scott Koenig, MD
- 3:49 pm **Paper 119**
Determining Pre-injury Physical Function Scores in Orthopaedic Trauma Patients
Stuart R. Ami PhD; Erik Kubiak, MD;
Man Hung, PhD; David Rothberg, MD;
Thomas F. Higgins, MD;
Charles L. Saltzman, MD
- 3:55 pm Discussion
- 4:00 pm **Paper 120**
Reduction of Radiation Exposure from C-Arm Fluoroscopy During Orthopaedic Trauma Operations with Introduction of Real-Time Dosimetry
Rita Baumgartner, BS; Kiley Libuit, BS;
Dennis Ren, BA; Omar Bakr, BS;
Nathan Singh; Utku Kandemir, MD;
Meir Tibi Marmor, MD; Saam Morshed, MD
- 4:06 pm **Paper 121**
Assessing the Oncogenic Risk to Patients from Fluoroscopy During Trauma Surgery
Michael J. Beebe, MD;
Peter A. Jenkins, PhD;
Erik Kubiak, MD; David Rothberg, MD;
Thomas F. Higgins, MD
- 4:12 pm Discussion
- 4:17 pm **Paper 122**
Adverse Events in Orthopaedic Surgery: Is Trauma More Risky? An Analysis of the NSQIP Data
Cesar S. Molina, MD; Rachel V. Thakore, BS;
Eduardo J. Burgos, MD;
William T. Obremskey, MD, MPH;
Manish K. Sethi, MD
- 4:23 pm **Paper 123**
Diagnosis of Fracture is Associated with Lower Satisfaction with Physician Performance Among Orthopaedic Surgery Patients
John S. Vorhies, MD; Julius A. Bishop, MD

- 4:29 pm **Paper 124**
Does Physician Reimbursement Correlate to Risk in Orthopaedic Trauma?
Rachel V. Thakore, BS; Cesar S. Molina, MD;
William T. Obremskey, MD, MPH;
Manish K. Sethi, MD
- 4:35 pm Discussion
- 4:40 pm **Paper 125**
Cerebral Fat Emboli and Cognitive Impairment Following Reamed Intramedullary Nailing
Kristin Archer, PHD, DPT;
Christine M. Abraham, MA;
Justin E. Richards, MD; John A. Barwise;
William T. Obremskey, MD, MPH
- 4:46 pm **Paper 126**
Sexual Function is Impaired Following Common Orthopaedic Trauma
Brandon Shulman, BA; David P. Taormina, MS;
Bianka N. Patsalos-Fox;
Roy Davidovitch, MD; Kenneth A. Egol, MD
- 4:52 pm **Paper 127**
Familial Faces: The Prevalence of Recidivism in Trauma Patients
Heather A. Vallier, MD;
Juliann C. Koleszar, BS
- 4:58 pm Discussion
- 5:03 pm Closing Remarks and ADJOURN



SPECIAL OFFERINGS AND EVENTS

2014 Guest Nation: Brazil

It is a great honor to welcome João Antonio Matheus Guimarães, MD of the Brazilian Society of Orthopaedic Trauma to the 30th OTA Annual Meeting to present on the topics: *Evolution of Trauma Care System in Brazil: Current Status* as well as *Management of Fragility Fractures of the Distal Femur: ORIF, Biological Augmentation or Replacement?*



We look forward to an enlightening session from our Brazilian colleagues.

The Guest Nation program was initiated in 2011 in recognition of the importance and benefits of sharing knowledge and experience with international colleagues.

João Antonio Matheus Guimarães, MD
Past President, Brazilian Society of Orthopaedic Trauma

International Reception

Wednesday, October 15, 2014
5:30 pm – 6:30 pm

All International attendees are welcome to attend.



William G. DeLong Jr, MD
International Relations
Chair



Peter V. Giannoudis, MD
International Committee Chair

Military Reception

Friday, October 17, 2014
5:35 pm – 6:30 pm

All Active Duty Military, Retired Military, and Landstuhl Distinguished Visiting Scholar participants are welcome to attend.



Industry Symposia

Thursday, October 16, 11:00 am – 12:45 pm
Registration Required - Boxed lunch available



Exhibit Hours

Thursday: 2:30 pm – 5:00 pm **Friday: 9:00 am – 5:00 pm**
Saturday: 9:00 am – 1:30 pm

Pre-Registration Deadline October 1, 2014; On-site Registration - additional \$100. See Page 47.

Women in Orthopaedic Trauma Kathy Cramer Memorial Luncheon

Friday, October 17, 2014
11:41 am – 12:40 pm

Laura S. Phieffer, MD
and **Lisa M. Truchan, MD**
(Registration / ticket required)



New Member Luncheon

Friday, October 17, 2014
11:41 am – 12:40 pm

All new and prospective members invited.

PA/NP Reception

Friday, October 17, 2014
4:00 pm – 5:00 pm

All PA/NP Course attendees invited.

Clifford B. Jones, MD
Membership Committee Chair
PA/NP Course Chair



Poster Viewing Hours

Thursday, October 10, 2:30 pm through
Saturday, October 12, 1:30 pm

Don't miss the opportunity for a guided poster tour at this year's Annual Meeting. Registration required and space is limited. See page 40.

E-Posters

Run out of time for the posters? No problem... visit the OTA website following the meeting to view 2014 Annual Meeting E-Posters.

Please share the following excellent educational opportunity with your residents.

Comprehensive Fracture Course for Residents

October 15 – 17, 2014

Kyle J. Jeray, MD
Chair

Tampa Convention Center



"It would be difficult to match the collective knowledge, experience, and commitment to teaching of this year's outstanding faculty!"

Visit www.ota.org for the preliminary program and registration.



Toni M. McLaurin, MD
Co-Chair



ORTHOPAEDIC TRAUMA FOR PAs and NPs

**Clifford B. Jones, MD, Cory A. Collinge, MD,
Daniel J. Coll, MHS, PA-C
& Dennis C. Gregory, PA-C, Program Chairs**

Target Audience

This course is intended for PAs and NPs who are practicing in orthopaedics inpatient / outpatient or caring for orthopaedic injuries in ER / UC / General Trauma Services.

The Physician Assistant Review Panel is pleased to award a maximum of **19 hours of AAPA Category 1 CME Credit** to the program entitled Orthopaedic Trauma for PAs and NPs provided by the Orthopaedic Trauma Association.

Objectives

Attendees of the Orthopaedic Trauma for PAs and NPs course will:

- ✗ Identify injury characteristics and integrate treatment strategies for multiple injury patients
- ✗ Demonstrate and apply surgical skills for the application of external fixators for provisional stabilization
- ✗ Compare and contrast fractures and treatment strategies for fractures about the knee
- ✗ Employ and critique surgical skills involved in distal femoral and proximal tibia open reduction and internal fixation
- ✗ Discuss the management algorithms and controversies encountered with the care of complex foot and ankle trauma
- ✗ Treat and evaluate osteoporosis and bone healing problems
- ✗ Recognize and review common complications encountered in the care of fractures and injuries
- ✗ Examine and evaluate the operative treatment of upper extremity fractures
- ✗ Apply and practice techniques for fixation of common upper extremity fractures

Thursday, October 16, 2014

1:00 pm Overview
*Clifford B. Jones, MD; Cory A. Collinge, MD
Daniel J. Coll, PA-C & Dennis C. Gregory, PA-C*

Membership
Clifford B. Jones, MD & Daniel J. Coll, PA-C

Objectives & Overview
Daniel J. Coll, PA-C

1:15 pm - 2:45 pm Ortho Emergencies
Moderator: *Hans-Christoph Pape, MD*

**1:15 pm Polytrauma, ABC, Damage Control
ABC, 1° & 2° Assessment, Damage
Versus Provisional Fixation**
Troy H. Caron, DO

**1:30 pm Pelvic Ring Injuries
Eval, Phys Exam, Imaging, Binders**
Jason M. Evans, MD

**1:45 pm Open Fractures
Abx, Infection Prevention, Assessment**
Chinedu C. Nwosa, MD

**2:00 pm Compartment Syndrome
Physiology, Exam, Treatment**
Leslie J. Gullahorn, MD

**2:15 pm Questions, Case Presentations
Panel Discussion**

2:45 pm - 3:45 pm General Orthopaedic Issues
Moderator: *Dennis C. Gregory, PA-C*

**2:45 pm Perioperative Infection Risk
Management**
Clifford B. Jones, MD

**3:00 pm Pain Management
IV Tylenol, NSAIDS, Narcotics, PCA,
Regional Blocks**
Steven A. Barna, MD

**3:15 pm Osteoporosis Evaluation & Treatment
Prevalence, Who, Evaluation,
Initial Treatment**
Debra Sietsema, PhD, RN

3:30 pm Discussion with Expert Panel

3:45 pm Break & Transition to Skills Labs

4:00 pm - 5:00 pm Skills Labs
2 labs with 30 min rotating sessions

4:00 pm Binder & Pelvic Ex-Fix
Jonathan G. Eastman, MD

4:00 pm Spanning Knee Ex-Fix
Theodore Toan Le, MD

5:00 pm Break & Transition to President's Message

5:10 pm - 5:40 pm President's Message
**The Orthopaedic
Trauma Association –
Enhancing the Care
of the Patient – Past,
Present, and Future**
*Ross K. Leighton, MD
OTA President*



**7:00 pm - 9:00 pm Welcome Reception
Walk to the Florida Aquarium**



Friday, October 17, 2014

6:30 am - 7:45 am **Case Presentations** – No charge.
Seating available first come, first served.

Treatment of Pelvic Fractures

Moderator: **Paul Tornetta III, MD**
Faculty: *David C. Templeman, MD;*
Robert V. O'Toole, MD; Jodi Siegel, MD;
Robert F. Ostrum, MD

Distal Humerus Fractures: Tips & Tricks

Moderator: **Utku Kandemir, MD**
Panel Members: *Michael D. McKee, MD;*
Michael J. Gardner, MD; Milan K. Sen, MD

2 Minutes - 2 Slides: Tips and Tricks for Nailing and Plating Long Bone Fractures

Moderator: **Pierre Guy, MD**
Faculty: *Thomas F. Higgins, MD;*
Matt L. Graves, MD; Piotr A. Blachut, MD;
Christian Krettek, MD, FRACS

8:00 am - 9:30 am Upper Extremity Fractures I
Moderator: **Michael J. Gardner, MD**

- 8:00 am **Clavicle Fractures**
Who to Fix and Who to Not
Jeffrey O. Anglen, MD
- 8:15 am **Proximal Humeral Fractures Op Versus Nonop, Options of ORIF, Hemi, IMN**
Michael J. Gardner, MD
- 8:30 am **Humeral Diaphyseal Fractures**
Sarmiento, ORIF, IMN, Rehab
Laura S. Phieffer, MD
- 8:45 am **Humeral Supracondylar Fractures**
Approach, Reduction, Fixation, Rehab
Lisa K. Cannada, MD
- 9:00 am Upper Extremity Cases and Discussion

9:30 am - 10:30 am Upper Extremity Fractures II
Moderator: **Frank A. Liporace, MD**

- 9:30 am **Olecranon Fractures**
TBW, Plate, IMN
Steven I. Rabin, MD
- 9:40 am **Forearm Fractures**
Galeazzi Fractures, Timing, Approaches, Complications
David A. Fuller, MD
- 9:50 am **Distal Radius Fractures**
Closed Reduction, Failure of Closed Reduction, Volar Versus Dorsal, Ex Fixes
Gregory L. DeSilva, MD
- 10:00 am Upper Extremity Cases and Discussion
- 10:30 am Break & Transition to Border Lecture

11:11 am - 11:41 am



John Border, MD
Memorial Lecture
Long Term Careers in Orthopaedic Trauma: System Design and Career Development

Andrew R. Burgess, MD
Professor, Vice Chair
UT Health Medical School,
Houston, Texas

11:41 am Lunch & Poster Tours

11:55 am - 12:40 pm

Poster Tours – No charge.
Registration is required.
(PT1) **International**
Guide: **Peter V. Giannoudis, MD**
(PT2) **Hip, Femur, Geriatric**
Guide: **Michael R. Baumgaertner, MD**

12:45 pm - 2:15 pm

Skills Labs
2 labs with 30 min rotating sessions

12:45 pm **Proximal Humeral Locked Plating**
Jaimo Ahn, MD, PhD

12:45 pm **Distal Radius Locked Plating**
Gregory L. DeSilva, MD

2:15 pm Break & Transition to PA/NP Lectures

2:30 pm - 4:00 pm Foot and Ankle Injuries
Moderator: **Dolfi Herscovici Jr, DO**

- 2:30 pm **Ankle Fractures**
Type and Fixation, Syndesmosis, Deltoid Ligament, WB, Rehab
Dolfi Herscovici Jr, DO
- 2:45 pm **Tibial Pilon Fractures**
Distinguish Pilon from Ankle, Timing of Surgery, Approaches
Michael S. Sirkin, MD
- 3:00 pm **Calcaneal Fractures**
Injury, Associated Injuries, Timing
Charles N. Moon, MD
- 3:10 pm **Talus Fractures**
Mechanism, Reduction, Timing
Lisa A. Taitsman, MD
- 3:20 pm **Lisfranc Injuries**
Evaluation and Diagnosis, Treatment
Justin C. Siebler, MD
- 3:30 pm - 4:00 pm **Expert Panel, Foot and Ankle Injuries**
- 4:00 pm - 5:00 pm **PA/NP Reception**



ORTHOPAEDIC TRAUMA FOR PAs and NPs, continued

Saturday, October 18, 2014

6:30 am - **OTA Annual Meeting**
7:45 am **Skills Labs & Case Presentations**
6:30 am **Case Presentations** – No charge.
Seating available first come, first served.

Humeral Shaft Fractures: When and How to Fix Surgically (Was Sarmiento Wrong?)

Moderator: **Lisa K. Cannada, MD**
Faculty: *William T. Obremesky, MD;*
Clifford B. Jones, MD

Periprosthetic Fractures

Moderator: **Erik Kubiak, MD**
Faculty: *George J. Haidukewych, MD;*
Mark C. Reilly, MD; Mark S. Vrahas, MD;
David P. Barei, MD

Distal Femur Cases

Moderator: **Jason W. Nascone, MD**
Faculty: *Michael J. Gardner, MD;*
Christopher Doro, MD; Hobie Summers, MD;
Conor P. Kleweno, MD

6:30 am **Skills Labs** – No charge.
Registration is required.
(SL5) **Knee or Ankle Spanning Ex-Fix**
Leader: **Edward A. Perez, MD**
(SL6) **ORIF of Anterior Acetabular Fractures**
Leader: **Michael T. Archdeacon, MD**

8:00 am - 9:30 am **OTA Annual Meeting Symposium**
Tibial Plateau Fractures: Optimizing Surgical Management and Technique in 2014

Moderator: **Michael D. McKee, MD**
Faculty: *Ross K. Leighton, MD; Mark S. Vrahas, MD;*
Paul Tornetta III, MD; Aaron Nauth, MD;
Emil H. Schemitsch, MD

This symposium will review the available evidence and surgical techniques that can be applied to the management of tibial plateau fractures in 2014. In addition, a focus will be placed on unusual variants of these injuries that require a specialized approach, including posterior shear fractures and combined fractures and ligamentous injuries.

9:30 am - 9:45 am Break & Transition to Lectures

9:45 am - 11:15 am **Fractures about the Hip and Thigh**
Moderator: **Laura Phieffer, MD**

9:45 am **Femoral Neck Fractures**
ORIF Versus Hemi Versus THA
Christina L. Boulton, MD

10:00 am **IT/ST Fx ORIF**
DHS Versus Locked Plate
Laura S. Phieffer, MD

10:15 am **IT/ST Fx IMN Reconstruction**
Versus Cephalomedullary IMN
Thomas W. Axelrad, MD, PhD

10:30 am **Femoral Shaft Fractures**
David Leu, MD

10:45 am Discussion and Cases

11:15 am - 12:20 pm **Fractures about the Knee**
Moderator: **David Leu, MD**

11:15 am **Femoral Supracondylar Fx**
ORIF Versus IMN
Thomas W. Axelrad, MD, PhD

11:30 am **Tibial Plateau Fx**
Single Versus Dual incisions
Laura S. Phieffer, MD

11:45 am **Tibial Diaphyseal Fx**
Approaches, Proximal and Distal
Third Fractures
David Leu, MD

12:00 pm Discussion and Cases

12:20 pm Lunch & Poster Tours

12:35 pm - 1:20 pm **Poster Tours** – No charge.
Registration is required.
(PT5) **Knee/Tibia**
Guide: **J. Tracy Watson, MD**
(PT6) **Reconstruction/General Interest**
Guide: **Michael J. Gardner, MD**

1:30 pm - 3:00 pm **Skills Labs**
2 labs with 30 min rotating sessions

1:30 pm **Distal Femoral Locked Plating**
Daniel L. Horwitz, MD

1:30 pm **Proximal Tibial Locked Plating**
Daniel L. Stahl, MD

2:15 pm Break & Transition to PA/NP Session

3:00 pm - 4:00 pm **Complication Treatment**
Infection, Osteomyelitis, Malunion,
Nonunion, Complex Regional Pain
Syndrome
Clifford B. Jones, MD; Cory A. Collinge, MD;
Laura S. Phieffer, MD; David J. Coll, PA-C;
Dennis C. Gregory, PA-C

4:00 pm Course Review, Evaluation,
Adjourn



DePuy Synthes Trauma (IS1)

Current Debates in Proximal Humerus Fracture Treatment Algorithms

Beat Schmutz, PhD, Senior Research Fellow, Queensland University of Technology, Brisbane, Australia

Michael Gardner, MD, Associate Professor of Orthopaedic Surgery, Washington University School of Medicine, St. Louis, MO

Scott Wisotsky, MD, Orthopaedic Associates of West Florida, Clearwater, FL

Xinning Li, MD, Assistant Professor, Sports Medicine & Shoulder and Elbow Surgery, Boston University School of Medicine, Boston, MA



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DePuy Synthes Trauma (IS2)

Lower Extremity IM Nailing: Outcomes and Innovations

James C. Krieg, MD, Chief of Orthopedic Trauma and Fracture Care, Rothman Institute, Philadelphia, PA

Matt L. Graves, MD, Associate Professor & Program Director, Orthopedic Surgery Residency Program, University of Mississippi Medical Center, Jackson, MS

Thomas G. DiPasquale, DO, Director, Orthopaedic Trauma Service & Residency Program, Wellspan York Hospital, York, PA



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Cardinal Health (IS3)

The Practice of Orthopaedic Trauma: How to Survive the Onslaught

Roy Sanders, MD, President and CMO, Florida Orthopaedic Institute Chief, Department of Orthopaedic Surgery, Tampa General Hospital Clinical Professor of Orthopaedic Surgery, University of South Florida Editor-in-Chief, Journal of Orthopaedic Trauma

A presentation and discussion of changing paradigms in orthopaedic trauma, affecting practice management, employment, payor relationships, and other decision-making.



OrthoFix Orthopaedics (IS4)

New Concepts for Treatment of High Risk Lower Extremity Fractures

Robert Reddix, MD; James McWilliam, MD; Steven Sands, DO;
Professor Thierry Bégué

This course will focus on new concepts for treatment of high risk lower extremity fractures including temporary to definitive fixation, and biologic considerations. A panel discussion will be used for interactive learning and audience participation.



KCI (IS5)

The Science and Clinical Evidence for Instillation Therapy and Active Incision Management

William J. Ertl, MD,

Chris Lessing, Sr. Manager Scientific Affairs KCI

Shabnam Vaez-zadeh, VP Medical Affairs KCI



Zimmer (IS6)

The Evolution of Flexible Plating: MotionLoc Case Evidence

Erik Kubiak, MD and **Philip Wolinsky, MD**

This session will focus on current clinical experiences with *MotionLoc* screw technology. After a brief overview of the concept and function of *MotionLoc* screws, it will consist of a faculty-led case study discussion. The program will include interactive debates with audience participation to examine when flexible plating may or may not be suitable for fracture fixation.



CME credits are not available. Absolutely no recording (audio or video) or photography is permitted.

Pre-Registration Deadline October 1, 2014; On-site Registration - additional \$100. See Page 47.



CASE PRESENTATIONS – No charge. Seating available first come, first served.

Friday, October 17, 2014

6:30 am **Treatment of Pelvic Fractures**
-7:45 am Moderator: *Paul Torretta III, MD*
Faculty: *David C. Templeman, MD;*
Robert O'Toole, MD; Jodi Siegel, MD;
Robert Ostrum, MD

Cases will be presented that highlight the initial management, operative treatment options, and expected outcomes of pelvic and acetabular fractures. An expert panel will provide personal insight and varying options for these injuries. The session is interactive and participants will give their viewpoints during each case.

6:30 am - 7:45 am **Distal Humerus Fractures: Tips and Tricks**
Moderator: *Utku Kandemir, MD*
Panel: *Michael D. McKee, MD;*
Michael J. Gardner, MD; Milan K. Sen, MD

Treatment of Distal Humerus fractures may result in excellent or poor outcomes. Knowledge of surgical approaches, reduction and fixation techniques, and postoperative management is critical in order to achieve best outcome.

6:30 am - 7:45 am **2 Minutes - 2 Slides: Tips and Tricks for Nailing and Plating Long Bone Fractures**
Moderator: *Pierre Guy, MD*
Faculty: *Thomas F. Higgins, MD;*
Matt L. Graves, MD;
Piotr A. Blachut, MD;
Christian Krettek, MD, FRACS

A series of brief presentations consisting of two slides over two minutes where experts will highlight diagnostic pearls and/or surgical tricks for the care of patients' long bone fractures using intramedullary nails or plates. There will be no formal lecture but rather a focus on case-based learning. Each presentation will be followed by a 5 min discussion.



Saturday, October 18, 2014

6:30 am - 7:45 am **Humeral Shaft Fractures: When and How to Fix Surgically (Was Sarmiento Wrong?)**
Moderator: *Lisa K. Cannada, MD*
Faculty: *William T. Obremskey, MD;*
Clifford B. Jones, MD

This case-based presentation will provide insights into decision making for humeral shaft fractures. The focus will be on indications and contraindications for humeral shaft fixation; approaches and options for operative management. In addition, there will be discussion of treatment of the isolated humeral shaft fracture, illustrated by case scenarios.

6:30 am - 7:45 am **Periprosthetic Fractures**
Moderator: *Erik Kubiak, MD*
Faculty: *George J. Haidukewych, MD;*
Mark C. Reilly, MD; Mark S. Vrahas, MD;
David P. Barei, MD

This interactive case presentation will focus on periprosthetic fractures proximal, distal femur, and periacetabular periprosthetic fractures. Questions up for discussion include: What is the role of strut grafts? Is there a place for cables and wires? What are the panels go to constructs for peri femur fractures... what has lead to the selection of those constructs? What are the indications to revise the current implants? What are the bail outs? What to do in the face of infection? Wound complication after peri ORIF? What are the bailouts/tactics for treating periprosthetic fractures in the face of severe alterations in local none (bone) metabolism that results from metal ion disease or particle disease?

6:30 am - 7:45 am **Distal Femur Cases**
Moderator: *Jason W. Nascone, MD*
Faculty: *Michael J. Gardner, MD;*
Christopher Doro, MD;
Hobie Summers, MD;
Conor P. Kleweno, MD

This session will review aspects of the surgical management of distal femoral fractures including complex articular fracture management, bone loss, nonunion, and malunions. Session will also review common pitfalls and techniques to avoid common mistakes. Format will be case based with expert panel discussion and allow interaction of faculty and participants.



MINI-SYMPOSLIA – No charge. Seating available first come, first served.

Friday, October 17, 2014

9:33 am - 10:48 am

OTA Trauma Registry Database

Moderators: *Julie Agel, ATC*
Douglas W. Lundy, MD

This symposium will review the OTA sponsored orthopaedic trauma registry. It will review how to access the database, how to enter data, how to run reports and options for multicenter study data sharing. We will also present how the database can be used for maintenance of certification (MOC).

9:33 am - 10:48 am

Circular Fixation: Applications for the Trauma Surgeon

Moderator: *Kevin J. Pugh, MD*
Faculty: *J. Tracy Watson, MD;*
Joseph R. Hsu, MD;
Animesh Agarwal, MD

This breakout session will provide an introduction/appreciation for the use of circular external fixation techniques in an adult trauma practice. Lecture with interactive case discussion format.

9:33 am - 10:48 am

Rib Fracture Fixation and the Surgical Management of Flail Chest Injuries: State of the Art

Moderator: *Michael D. McKee, MD*
Faculty: *Niloofar Dehghan, MD;*
Gerard P. Slobogean, MD;
Peter Althausen, MD; Aaron Nauth, MD;
John C. Mayberry, MD;
Emil H. Schemitsch, MD

Surgical intervention for the management of rib fractures and flail chest injuries is becoming increasingly common. The symposium will review the current evidence for rib fracture fixation, discuss surgical techniques and approaches, and present common complications of this novel surgery and their subsequent management.

4:00 pm - 5:43 pm

From the Operating Room to the Boardroom - Applying an MBA to Benefit Orthopaedic Traumatology

Moderator: *Hassan R. Mir, MD, MBA*
Faculty: *Douglas W. Lundy, MD, MBA;*
Craig S. Roberts, MD, MBA;
George V. Russell, MD, MBA;
David J. Hak, MD, MBA;
Peter L. Althausen, MD, MBA;
M. Bradford Henley, MD, MBA

Due to the increasing complexities of modern health care, a growing number of physicians are obtaining a formal business education to help

4:00 pm - 5:43 pm

deal with a variety of challenges. Several members of the OTA who have gone through Masters of Business Administration (MBA) programs will present their experiences on how they have utilized their business skills sets while maintaining active surgical practices. The emphasis will be on how the speakers are actively applying their business degrees to benefit their clinical practices and the field of orthopaedic traumatology.

Biologic Solutions in the Management of Nonunions and Patients at Risk for Delayed Healing

Moderator: *Samir Mehta, MD*
Faculty: *Jaimo Ahn, MD, PhD;*
Robert P. Dunbar Jr, MD;
Robert D. Zura, MD; James C. Krieg, MD

Identification of patients at risk for nonunion or delayed union can be difficult. If patients are identified early, there is the potential to intervene and improve functional and clinical outcomes and limiting the effect on quality of life. The purpose of this symposium is to discuss the risk factors associated with nonunion and identify timing and solutions for those patients.

4:00 pm - 5:43 pm

History of Nailing

Moderator: *Philip Procter, PhD*
Faculty: *Thomas A. (Toney) Russell, MD*

This symposium basis is to provide insight and archival evidence as to the evolution of nailing. Prof. Procter has pieced together a compelling story of a golden age of relationships between surgeons in USA, Sweden, Germany, Ireland, France, and Austria as they all sought surgical and technological solutions to femoral fractures.

Saturday, October 18, 2014

10:00 am - 11:30 am

From Good to Great: Improving your Treatment of Acetabular Fractures

Moderators: *Jaimo Ahn, MD, PhD*
Samir Mehta, MD
Faculty: *David L. Helfet, MD;*
Milton L. "Chip" Routt, MD;
Steven A. Olson, MD;
Mark S. Vrahas, MD; Mark C. Reilly, MD

So you think you're an acetabular fracture surgeon. You're on the steep part of the learning



Mini Symposia, continued – No charge. Seating available first come, first served.

Saturday, October 18, 2014, cont'd.

From Good to Great (continued)

curve and feeling like you're doing okay. Sometimes, things go great in the OR and your CTs look right on. Sometimes they don't quite go so perfect and, to top it all off, you're not always sure why or how to make it better. We've assembled some of our most trusted and experienced acetabular surgeons to help get you from good to great.

10:00 am - **Managing Nonunion: Theory and Practice**

11:30 am Moderator: *Christopher G. Moran, FRCS*
Faculty: *Pierre Guy, MD; John J. Wixted, MD; R. Malcolm Smith, MD*

This session involves theoretical orthopaedics and blue sky thinking. It will be fun! It will present a new theory that unifies bone homeostasis, healing and nonunion: the BHN theory. This theory helps us understand how the fixation of fractures alters the mechanical environment at the fracture site and how the surgeon influences this and subsequent fracture healing. The theory gives insight into why nonunion develops and how it should be treated.

10:00 am - 11:30 am **How to Establish and Run a Fragility Fracture Program**

Moderator: *James A. Goulet, MD*
Faculty: *Peter Althausen, MD; Debra Sietsema, PhD, RN; Karen Cummings, PA-C; Joseph M. Lane, MD; Marc F. Swiontkowski, MD*

This mini-symposium will provide a concise and very practical overview of how to establish and run a fragility fracture program at your hospital. The presentations will walk attendees through economic modeling of a fracture fragility program, and outline how to successfully find funding for the mid-level providers essential to these programs. Approaches to patient selection, assessment of bone density and tests for causes of osteoporosis, and optimization of bone health in fragility fracture patients will also be reviewed.

1:24 pm - 2:54 pm **Coding Update and Challenging Case Review**

Moderator: *J. Scott Broderick, MD*
Faculty: *William R. Creevy, MD; Austin Hill, MD*

This symposium will cover relevant changes in the ICD and CPT codes for 2014-15. Multiple cases that provide billing and coding challenges will be presented and discussed.

1:24 pm - 2:54 pm

Management Strategies for Physal Fractures Around the Knee and Ankle

Moderator: *David A. Podeszwa, MD*
Faculty: *Christine A. Ho, MD; Robert L. Wimberly, MD; Anthony I. Riccio, MD*

A case based and didactic review of common physal fractures around the knee and ankle. Interactive discussion will cover the evaluation, indications for operative treatment and the operative treatment options for physal fractures of the distal femur and the proximal and distal tibia. Potential complications and management strategies of the complications will be reviewed.

1:24 pm - 2:54 pm

How Do You Decide Who Should be a "Co-author"?: The Expert Panel Perspective

Moderator: *Craig S. Roberts, MD*
Faculty: *Marc F. Swiontkowski, MD; Paul Tornetta III, MD*

Co-authorship on scientific manuscripts is increasingly scutinized. Decisions about the inclusion and ordering of co-authors in academic and community settings are becoming more complex. The perspectives of an expert panel on contemporary evidence and guidelines can assist in rational decision-making about co-authorship.

1:24 pm - 2:54 pm

Developing a Successful Clinical Research Program

Moderator: *Heather A. Vallier, MD*
Faculty: *Mary A. Breslin, BA; William T. Obremskey, MD, MPH*

This mini-symposium is designed for practitioners, research personnel, and physicians in training who aspire to develop a successful clinical research program. Key elements and resources will be described. Efficient and compliant data management strategies will be reviewed. Opportunities for collaboration will be demonstrated.



SKILLS LABS – No charge. Registration is required for all skills labs.

Friday, October 17, 2014

6:30 am - 7:45 am (SL1) **SIGN Fracture Care International**
Lab Leader: **Lewis G. Zirkle Jr, MD**
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 interlocking screws can be placed consistently and quickly using a mechanical technique which has been used in 112,000 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 who are OTA SIGN Scholars.

6:30 am - 7:45 am (SL2) **IM Fixation of Proximal Tibial Fractures**
Lab Leader: **Roy Sanders, MD**
This is a hands-on sawbones workshop session covering Tips and Techniques of IM Nailing of Proximal Tibia Fractures with a Semi-Extended Approach using a system for distal locking while reviewing adjunctive techniques for obtaining reduction, including blocking screws, reduction plates, distractors and positioning.

9:33 am - 10:48 am (SL3) **ORIF Distal Tibia and Fibula Fractures**
Lab Leader: **Matt L. Graves, MD**
This lab will include hands-on instruction by our panel of experts on the open reduction and internal fixation of distal tibia and fibula fractures with plate and screws in a synthetic bone model. Topics including timing, approach, and post-op care will also be covered.

9:33 am - 10:48 am (SL4) **ORIF Distal Radius Fractures**
Lab Leader: **David C. Ring, MD**
This lab will provide an opportunity to hone your volar plating techniques. Experienced and renowned surgeons will be there to share their expertise, tips and tricks.

Saturday, October 18, 2014

6:30 am - 7:45 am (SL5) **Knee or Ankle Spanning Ex-Fix**
Lab Leader: **Edward A. Perez, MD**
This lab will demonstrate the principles for, and application of, temporizing spanning external fixation – damage control orthopaedics. The practical exercise will demonstrate the proper technique and surgical pearls to utilize within the clinical setting.

6:30 am - 7:45 am (SL6) **ORIF of Anterior Acetabular Fractures**
Lab Leader: **Michael T. Archdeacon, MD**
This lab will include hands-on instruction on an anterior intra pelvic approach to aid in access and visualization for the open reduction and internal fixation of anterior acetabular fractures.



POSTER TOURS - No charge. Registration is required..

Friday, October 17, 2014

11:55 am - (PT1) **International**
12:40 pm Guide: **Peter V. Giannoudis, MD**

11:55 am - (PT2) **Hip, Femur, Geriatric**
12:40 pm Guide: **Michael R. Baumgaertner, MD**



'Suds and Science' Poster Tours
Beverages included with these tours

5:45 pm - (PT3) **Foot and Ankle**
6:30 pm Guide: **Paul Tornetta III, MD**

5:45 pm - (PT4) **Upper Extremity**
6:30 pm Guide: **Michael D. McKee, MD**



Saturday, October 18, 2014

12:35 pm - 1:20 pm (PT5) **Knee/Tibia**
Guide: **J. Tracy Watson, MD**

12:35 pm - 1:20 pm (PT6) **Reconstruction/General Interest**
Guide: **Michael J. Gardner, MD**



Don't miss the opportunity to attend a guided poster tour. Registration is required and space is limited.

Poster Viewing Hours:
Thursday, 10/16, 2:30 pm through
Saturday, 10/18, 1:30 pm



REGISTRATION and ADDITIONAL INFORMATION

Disclaimer

The material presented at the 30th 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.

Course Location

Tampa Convention Center

The Orthopaedic Trauma Association's 30th Annual Meeting will be held in the beautiful, sunny city of Tampa, Florida. The Pre-Meeting Courses, Annual Meeting, Resident Course and Fellowship Interviews will all take place at the Tampa Convention Center.

About Tampa

Tampa, Florida, founded in 1824, is situated on the north shore of Tampa Bay in West Central Florida. Tampa Bay is a large harbor located along the Gulf of Mexico on the western coast of Florida. Tampa's weather is sunny for about 300 days out of the year and 84 degrees is the average temperature in the month of October.

- Tampa offers a unique and exciting experience for everyone. A visit to Tampa's ever-growing downtown area, or the exciting Channelside and Ybor entertainment districts, will provide visitors with plenty to see and do.
- Tampa has an exciting nightlife, a diverse selection of great restaurants and some of the state's best attractions, including the Florida Aquarium, Busch Gardens Tampa Bay, the Straz Center for the Performing Arts, the Salvador Dali Museum and Lowry Park Zoo. Visit the new Tampa Bay History Center or the recently opened Tampa Museum of Art, both are state-of-the-art facilities honoring Tampa's history, heritage, and commitment to the arts.

Accommodations

- Discounted room rates have been secured for the conference at three area hotels for OTA attendees. Reservations should be made no later than September 22nd.
- Tampa Marriott Waterside Hotel (.01 Miles) - \$209 plus taxes/fees
- Embassy Suites Tampa Downtown (.1 Miles) - \$209 plus taxes/fees
- Westin Tampa Harbour Island (.2 Miles) - \$171 plus taxes/fees
- **Hotel reservations should be made via www.ota.org to secure the discounted room rate.**

Tampa Marriott Waterside (Headquarter Hotel)



- A striking silhouette along the Channel Riverwalk, Tampa Marriott Waterside Hotel and Marina near Ybor City overlooks Tampa Bay in the heart of Downtown, located adjacent to the Tampa Convention Center. This world-class hotel's revitalized lobby, full-service spa, and several delicious restaurants, make it the perfect destination. Part of the Channelside District, the Tampa Marriott is among the most luxurious of hotels in Tampa, Florida, with rooms and suites offering private bay or city view balconies. After a busy day, unwind in one of the hotel's lounges.
- For ultimate relaxation, try the spa, whirlpool, or rooftop pool!



REGISTRATION and ADDITIONAL INFORMATION

Accommodations, continued

Embassy Suites Tampa (a Hilton property)



Discover the Embassy Suites Tampa – Connected via sky-bridge to the Tampa Convention Center, this all-suite hotel is convenient to dining and entertainment in downtown Tampa. Relax in your two-room suite, complete with a separate living room, wet bar, and high-speed internet access (for a nominal fee). Refresh in the bathroom featuring a granite vanity and signature bath amenities.

Start your day with a free cooked-to-order breakfast. Unwind at the complimentary Evening Reception each night, including a variety of beverages and snacks. Exercise in the complimentary 24-hour fitness center, and enjoy spectacular views of Tampa Bay from the pool deck.

Welcome Reception

Thursday, October 16, 2014 • 7:00 pm - 9:00 pm
The Florida Aquarium

The Florida Aquarium is consistently ranked as one of the best aquariums in the country and known for spectacular views of aquatic life. It offers wetlands under the impressive glass dome, bays & beaches, an impressive coral reef gallery to explore an undersea kaleidoscope of fish and rays and the energy of Ocean Commotion!

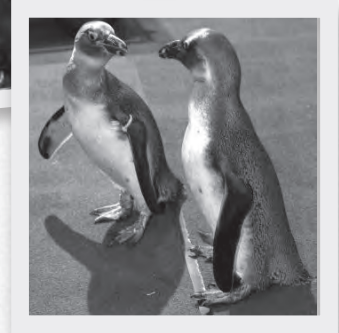
You won't want to miss this special private event within walking distance from the Tampa Convention Center.

Ground Transportation

From Tampa International Airport (TPA)

Travel Distance: Approximately 14.48 km/9 miles away (15-20 minute drive). There are a variety of ground transportation options from Tampa International Airport:

- Taxi: Fee is \$25 USD
Taxi cab service is provided from the Commercial Ground Transportation Quadrants located in all four corners of the Baggage Claim Level
- SuperShuttle (shared passenger service)
(800) 282-6817 or (727) 572-1111
Service is provided from the Commercial Ground Transportation Quadrants located at all four corners of the Baggage Claim Level 1
- Hillsborough Area Regional Transit Authority (HART) route 30, which runs every 30 minutes between the airport and downtown. The bus trip takes approximately 40 minutes. The HART fee schedule can be found at http://www.gohart.org/ride_guide/fares/fares.html
- Blue One Transportation: Fee is \$13 USD
No reservations are needed. Call their transportation Hotline (813) 785-9285 when your flight lands



Registration Information – Register Early!

- Register online at www.ota.org using your OTA username. E-mail ota@aaos.org for your OTA username
- FAX completed form directly to: (847) 823-0536
- Check made payable to OTA and drawn from a US bank in US dollars. Mail form and check by September 15 to: OTA 6300 N. River Road, Suite 727, Rosemont, IL, 60068 USA
- Registrations postmarked after September 15 will not be processed; on-site registrations will require an additional \$100 USD late fee
- All pre-registrations will receive confirmation by E-mail. Badges will NOT be mailed this year; rather picked up on-site. Pre-register online until October 1, 2014
- The pre-registration form may be photocopied as needed

Cancellations and Refunds

- Submit cancellation in writing to OTA office via fax: (847) 823-0536 or E-mail: OTA@aaos.org
- Refunds less a \$100 USD processing fee per registration will be made in a timely basis by OTA after the close of the OTA Annual Meeting, if cancelled prior to October 15, 2014
- No refunds after October 15, 2014

Annual Meeting Posters

Annual Meeting Scientific Posters will be available for viewing at all times during the meeting beginning at 2:30 pm on Thursday through 1:30 pm on Saturday in the exhibit hall.

Skills Labs, Poster Tours and Industry Symposia

- Ensure your space in Skills Labs, Poster Tours and Industry Symposia - No charge. Registration is required.
- Sessions FILL QUICKLY and may not be available to on-site registrants
- Choose the Sessions in order of your preference

On-site Registration

- Registrations received after October 1 will be accepted on-site plus an additional \$100 USD late fee
- On-site Registration will be available as follows:
Convention Center Foyer (all Pre-Meeting Events)
Tuesday: 2:00 pm – 6:00 pm
Wednesday - Saturday: 6:15 am – 5:00 pm
- Exhibitors must register through the OTA office - contact ota@aaos.org

Getting Around Tampa

By Taxi

- Taxi to the Port of Tampa (one mile from the Hotel) Approximately \$5, one-way
- Taxi to the Local Transit System/Hartline (3 blocks) Approximately \$5, one-way

Ride the Streetcar for Half Price

- The TECO Streetcar System is an electric streetcar which connects Downtown Tampa, Ybor City, and Channel district. TECO Streetcar has 11 stations with services every 15 to every 30 minutes.
- With your OTA Badge, you will get a 50% discount.
- Take advantage of this great savings and tour Tampa's downtown attractions, restaurants and retail shops along the Streetcar line.
- Simply show your OTA badge to the motor person upon boarding the Streetcar.
- Hours of Operation:
Monday - Thursday: 12 pm - 10 pm
Friday - Saturday: 11 am - 2 am
Sunday - 12 pm - 8 pm

Visit the OTA website for additional discounts for OTA attendees only: Tampa Convention Center Delegate Discount Program

TAMPA 2014

➔ **NEW this year! All Badges will be picked up at the Registration Desk in Tampa.**



Meeting At-a-Glance

Wednesday, October 15, 2014

BASIC SCIENCE FOCUS FORUM

- 7:30 am - 8:35 am Symposium 1: **Biomechanical Concepts for Fracture Fixation**
- 8:35 am - 9:15 am Paper Session 1: **Biomechanically-Directed Fixation**
- 9:35 am - 10:30 am Symposium 2: **Bone Graft Substitution and Augmentation**
- 10:30 am - 11:35 am Paper Session 2: **Inflammation and Bone Healing**
- 12:35 pm - 1:35 pm Symposium 3: **The Mangled Extremity-Functionality through Mechanics or Biologics?**
- 1:35 pm - 3:25 pm Paper Session 3: **MESS**
- 3:45 pm - 4:50 pm Symposium 4: **Bigger Data-Bigger Problems?**
- 4:50 pm - 5:30 pm Paper Session 4: **International Research Studies**

ORTHOAEDIC TRAUMA BOOT CAMP

- 7:05 am - 10:25 am **Orthopaedic Trauma Boot Camp Presentations**
- 10:45 am **Labs**
- 11:35 am - 12:50 pm **Orthopaedic Trauma Boot Camp Presentations**
- 12:50 pm **Lunch with Case Presentations**
- 1:30 pm - 4:30 pm **Orthopaedic Trauma Boot Camp Presentations**

INTERNATIONAL ORTHOPAEDIC TRAUMA CARE FORUM

- 7:35 am - 8:05 am Symposium I: **Trauma Care Systems- An Update**
- 8:05 am - 10:10 am Paper Session 1: **Femoral and Pelvic Injuries**
- 10:10 am - 10:30 am Symposium II: **Orthopaedic Care Overseas – Get Involved!**
- 10:30 am - 11:36 am Paper Session 2: **Lower Extremity and Foot and Ankle Injuries**
- 12:30 pm - 2:02 pm Paper Session 3: **Basic Science and Fracture Healing Complications**
- 2:02 pm - 3:20 pm Guest Nation Symposium: **Fractures Around the Knee Joint**
- 3:45 pm - 4:50 pm Symposium 4: **Bigger Data-Bigger Problems?**
- 4:50 pm - 5:30 pm Paper Session 4: **International Research Studies**
- 5:30 pm - 6:30 pm **International Reception**

ICD-10 CODING FOR TRAUMA SURGEONS

- 9:00 am - 12:00 pm **ICD-10 For Orthopaedics**
- 1:00 pm - 4:00 pm **Introduction to IZD-10: The Zupko Slim Guide to Orthopaedic ICD-10**

Thursday, October 16, 2014

BASIC SCIENCE FOCUS FORUM

- 7:25 am Introduction
- 7:30 am - 8:40 am Symposium 5: **Advances in Articular Cartilage Injury and Treatment - Where We Are and Where We're Going**
- 8:40 am - 9:09 am Paper Session 5: **Articular Pathology**
- 9:25 am - 10:30 am Symposium 6: **Osteoporosis- Are We Closer to Gold Standards?**
- 10:30 am - 11:04 am Paper Session 6: **Bone Density and Modeling**

YOUNG PRACTITIONERS FORUM

- 6:30 am - 10:32 am **Pocket Guide to a Successful Career Start**
- 10:21 am - 10:52 am **Young Practitioners Forum Presentations**
- Keynote Address: What Really Matters**
Thomas "Toney" Russell, MD

ORTHOAEDIC TRAUMA BOOT CAMP

- 7:00 am - 8:50 am **Orthopaedic Trauma Boot Camp Presentations**
- 9:00 am - 9:50 am **Lab 1 – Distal Femoral Plating**
- Lab 2 – Pilon Ankle Plating**
- 9:50 am – 11:00 am **Orthopaedic Trauma Boot Camp Presentations**

Industry Symposia

Thursday, October 16, 11:00 am
Registration Required - Boxed lunch available



ANNUAL MEETING

- 1:00 pm Welcome and Donor Awards
- 1:20 pm - 2:50 pm Symposium I: Contemporary Debates in Orthopaedic Trauma
- 3:20 pm - 5:10 pm Paper Session I: **Foot, Ankle, Pilon**
- 5:10 pm - 5:40 pm **President's Message: The Orthopaedic Trauma Association – Enhancing the Care of the Patient – Past, Present, and Future**
- Ross K. Leighton, MD**, OTA President
- 5:40 pm - 6:40 pm OTA Business Meeting
- 7:00 pm - 9:00 pm **Welcome Reception: The Florida Aquarium**



PA/NP COURSE

- 1:00 pm - 3:45 pm **PA/NP Course Presentations**
- 4:00 pm - 5:00 pm **Skills Labs**
- Binder & Pelvic Ex-Fix**
- Spanning Knee Ex-Fix**
- 5:10 pm - 5:40 pm **President's Message**



Meeting At-a-Glance, continued

Friday, October 17, 2014

ANNUAL MEETING

- 6:30 am - 7:45 am **Case Presentations**
6:30 am - 7:45 am **Skills Labs**
(SL1) **SIGN Fracture Care International**
(SL2) **IM Fixation of Proximal Tibial Fractures**
- 8:00 am - 9:03 am Paper Session II: **Hip/Femur**
9:33 am - 10:48 am **Mini-Symposia**
9:33 am - 10:48 am **Skills Labs**
(SL3) **ORIF Distal Tibia and Fibula Fractures**
(SL4) **ORIF Distal Radius Fractures**
- 9:33 am - 10:48 am Paper Session III: **Geriatric**
10:59 am Guest Nation Presentation
11:11 am - 11:41 am **John Border, MD**
Memorial Lecturer
Long Term Careers in Orthopaedic Trauma: System Design and Career Development

Andrew R. Burgess, MD
- 11:41 am - 12:40 pm **Women in Orthopaedic Trauma Kathy Cramer Memorial Luncheon**
- 11:41 am - 12:40 pm **New Member Luncheon**
- 11:55 am - 12:40 pm **Poster Tours**
(PT1) **International**
(PT2) **Hip, Femur, Geriatric**
- 12:41 pm - 2:19 pm Symposium II: **DCO – Where Are We After a Decade (Century) of Debate and Research?**
- 2:19 pm - 3:30 pm Paper Session IV: **Pelvis and Acetabulum**
- 4:00 pm - 5:43 pm **Mini-Symposia**
- 4:00 pm - 4:32 pm Paper Session V: **Polytrauma**
- 4:32 pm - 5:35 pm Paper Session VI: **Pediatrics/Reconstruction**
- 5:35 pm - 6:30 pm **Military Reception**
- 5:45 pm - 6:30 pm **'Suds and Science' Poster Tours**
Beverages included with these tours
(PT3) **Foot and Ankle**
(PT4) **Upper Extremity**

PA/NP COURSE

- 6:30 am - 7:45 am **Case Presentations**
8:00 am - 9:30 am **PA/NP Course Presentations**
11:11 am - 11:41 am **John Border, MD**
Memorial Lecturer
Andrew R. Burgess, MD
- 11:41 am - 12:41 pm Lunch & Poster Tours
12:45 pm - 2:15 pm **Skills Labs**
Proximal Humeral Locked Plating
Distal Radius Locked Plating
- 2:30 pm - 4:00 pm **PA/NP Course Presentations**
4:00 pm - 5:00 pm **PA/NP Reception**

Saturday, October 18, 2014

ANNUAL MEETING

- 6:30 am - 7:45 am **Case Presentations**
- **Humeral Shaft Fractures: When and How to Fix Surgically (was Sarmiento Wrong?)**
- **Periprosthetic Fractures**
- **Distal Femur Cases**
- 6:30 am - 7:45 am **Skills Labs**
(SL5) **Knee or Ankle Spanning Ex-Fix**
(SL6) **ORIF of Anterior Acetabular Fractures**
- 8:00 am - 9:30 am Symposium III: **Tibial Plateau Fractures: Optimizing Surgical Management and Technique in 2014**
- 10:00 am - 11:30 am **Mini-Symposia**
10:00 am - 12:24 pm Paper Session VII: **Upper Extremity**
12:35 pm - 1:20 pm **Poster Tours**
(PT5) **Knee/Tibia**
(PT6) **Reconstruction/General Interest**
- 1:24 pm - 2:54 pm **Mini-Symposia**
1:24 pm - 2:44 pm Paper Session VIII: **Knee/Tibial Plateau**
2:44 pm - 5:03 pm Paper Session IX: **Topics of General Interest**
5:03 pm Closing Remarks and Adjourn

PA/NP COURSE

- 6:30 am - 7:45 am **Case Presentations**
6:30 am - 7:45 am **Skills Labs**
(SL5) **Knee or Ankle Spanning Ex-Fix**
(SL6) **ORIF of Anterior Acetabular Fractures**
- 8:00 am - 9:30 am AM Symposium III: **Tibial Plateau Fractures**
- 9:45 am - 12:20 pm **PA/NP Course Presentations**
- 12:20 pm - 1:24 pm Lunch & Poster Tours
1:30 pm - 3:00 pm **Skills Labs**
Distal Femoral Locked Plating
Proximal Tibial Locked Plating
- 3:00 pm - 4:00 pm **PA/NP Course Presentations**

TAMPA
2014



Check List

30th Anniversary Annual Meeting

- Completed the Meeting Registration Form?
- Indicated your preferences for Industry Symposia, Skills Labs and Guided Poster Tours (page 47)?
- Included your Payment with the Registration Form?
- Made your hotel reservation with the Tampa Marriott Waterside Hotel, Westin Tampa Harbour Island or Embassy Suites Tampa Downtown online at www.ota.org?

Secure on-line registration at www.ota.org or Fax Registration Forms with Credit Card payment to (847)823-0536

Mail Registration with USD Check Payment to the OTA staff office:
Orthopaedic Trauma Association
6300 N. River Road, Suite 727
Rosemont, IL 60018-4226 USA

New this year! All Badges will be picked up at the Registration Desk in Tampa - no badges will be mailed.

• Pre-registrations will receive confirmation via E-mail. Badges will be printed and picked up in the Express Registration line in Tampa.

Please REMEMBER to bring your meeting registration confirmation.

Registration faxed or post-marked by September 15, 2014
Register on-line by October 1, 2014

Attendance at an OTA educational event authorizes the OTA to capture your image or likeness in photographic, digital video, or other electronic format, and authorizes the OTA to use said image or likeness in marketing materials to promote OTA, including print, electronic and on the internet. OTA warrants that its use of the image or likeness will not be in a negative manner. OTA has no control over the use of the image or likeness by third parties and therefore makes no express or implied warranties on any use by third parties.



TAMPA 2014



Registration Form

REGISTRATION DEADLINE (ONLINE or FAX) OCTOBER 1, 2014

MAILED REGISTRATIONS MUST BE POSTMARKED ON or PRIOR TO SEPTEMBER 15, 2014
REGISTER ONSITE AFTER OCTOBER 1, 2014 – \$100 FEE WILL APPLY

PERSONAL INFORMATION (PLEASE PRINT CLEARLY)

FIRST NAME _____		FAMILY (LAST) NAME _____		DEGREE _____	
ADDRESS <input type="checkbox"/> Home <input type="checkbox"/> Office Address _____					
CITY _____		STATE/PROVINCE _____		POSTAL CODE _____ COUNTRY _____	
() _____		() _____			
TELEPHONE <input type="checkbox"/> Home <input type="checkbox"/> Office <input type="checkbox"/> Cell _____		FAX _____		E-MAIL <input type="checkbox"/> Office <input type="checkbox"/> Personal _____	

ANNUAL MEETING REGISTRATION FEES U.S. FUNDS

Postmarked by: September 15, 2014. Fees increased \$100 USD on site.

- | | |
|--|--------------|
| <input type="checkbox"/> OTA Member (includes Candidate Members in their Residency) | \$250.00 USD |
| <input type="checkbox"/> Non-member | \$750.00 USD |
| <input type="checkbox"/> Medical Resident Non-member or Non-member Health Care Personnel | \$450.00 USD |
- Please provide Residency Program Director: _____

WEDNESDAY, OCTOBER 15

- | | Non-member | OTA Member |
|---|--------------|--------------|
| <input type="checkbox"/> Basic Science Focus Forum – pg. 5 | \$350.00 USD | \$250.00 USD |
| <input type="checkbox"/> Orthopaedic Trauma Boot Camp – pg. 10 | \$350.00 USD | \$250.00 USD |
| <input type="checkbox"/> International Trauma Care Forum – pg. 12 | \$75.00 USD | \$75.00 USD |
| <input type="checkbox"/> International Reception (<i>All International Participants Welcome</i>) – pg. 15 | FREE | FREE |
| <input type="checkbox"/> Masters Level Trauma Coding Course – pg. 16 | \$300.00 USD | \$200.00 USD |

THURSDAY, OCTOBER 16

- | | | |
|--|----------------------|----------------------|
| <input type="checkbox"/> Young Practitioners Forum – pg. 18 | \$75.00 USD | \$75.00 USD |
| <input type="checkbox"/> Orthopaedic Trauma for PAs and NPs 10/16/14 – 10/18/14 – pg. 32 | \$400.00 USD | \$275.00 USD |
| <input type="checkbox"/> Welcome Reception – pg. 42 | FREE | FREE |
| <input type="checkbox"/> Guest Reception Ticket(s) <input type="text"/> # of persons attending X \$65.00 USD | <input type="text"/> | <input type="text"/> |

FRIDAY, OCTOBER 17

- | | | |
|--|------|------|
| <input type="checkbox"/> Women in Orthopaedic Trauma Luncheon – pg. 31 | FREE | FREE |
| <input type="checkbox"/> New Member Luncheon – pg. 31 | FREE | FREE |
| <input type="checkbox"/> Military Reception – pg. 31 | FREE | FREE |
| <input type="checkbox"/> PA/NP Reception – pg. 31 | FREE | FREE |

TOTAL \$

RESERVED SESSIONS | TICKETS REQUIRED

1st Choice # (Only check one)

2nd Choice # (Only check one)

Industry Symposia – pg. 35

Thursday Lunch 11:00 am – 12:45 pm IS1 IS2 IS3 IS4 IS5 IS6 IS1 IS2 IS3 IS4 IS5 IS6

Poster Tours – pg. 40

Friday Lunch 11:55 am – 12:40 pm PT1 PT2 PT1 PT2

Friday Evening 5:45 pm – 6:30 pm PT3 PT4 PT3 PT4

Saturday Lunch 12:35 pm – 1:20 pm PT5 PT6 PT5 PT6

Skills Labs – pg. 39

Friday Morning 6:30 am – 7:45 am SL1 SL2 SL1 SL2

Friday Morning 9:33 am – 10:48 am SL3 SL4 SL3 SL4

Saturday Morning 6:30 am – 7:45 am SL5 SL6 SL5 SL6

METHOD OF PAYMENT

- Check Enclosed VISA MasterCard American Express

CARD NUMBER _____ EXP. DATE _____ CVV # _____

NAME (AS IT APPEARS ON CARD) _____

SIGNATURE (I AGREE TO PAY ACCORDING TO THE CREDIT CARD ISSUER AGREEMENT) _____

REFUNDS: OTA office must receive written notice of cancellation for a refund less a \$100.00 USD processing fee.
NO refunds after October 15, 2014.

Make checks payable to: Orthopaedic Trauma Association, 6300 N. River Road, Suite 727, Rosemont, IL, 60068 USA

REGISTER ON-SITE AFTER OCTOBER 1, 2014 - AN ADDITIONAL \$100 USD FEE WILL APPLY.
All company representatives must use Exhibitor Registration Form (email ota@aaos.org).

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Member Services

Take advantage of the many OTA member services....

- JOT Subscription
- Meeting Discounts
- Fellowship Match
- Discussion Forum and Listserv
- Mentor Programs
- Career Resources
- Coding and Practice Management Resources (Academic and Community)



Education

Learn the latest techniques for the management of complex orthopaedic trauma patients from leading orthopaedic trauma educators.

The OTA offers educational opportunities for:

- Residents
- Young Practitioners
- Mid - Senior Level Orthopaedic Surgeons
- Fellows

Scholarships offered for most resident and fellows programs.



Research

- Research Grants
- Trauma Registry
- Mult-Center Studies
- Conduct and Access OTA Member Surveys

Professional Development and Leadership Opportunities

- 25+ Committees and Project Teams
- Resident and Fellow Education and Research Grants

Health Policy & Practice Management

- Shape Health Policy
- Evaluate Current Practice Management Issues
- Develop Position Statements and Incorporate Thoughtful Solutions



Save the Date

Membership Application Deadlines

(Apply Online)

November 1, 2014

2015 OTA Events

January 9 - 10, 2015

Advanced Trauma Techniques Course for Residents
Houston, Texas

February 19 - 21, 2015

AAOS/OTA Trauma Update
Orlando, Florida

March 24, 2015

OTA Specialty Day
Las Vegas, Nevada

April 22 - 25, 2015

OTA Spring Comprehensive Fracture Course for Residents
Chicagoland, Illinois

April 23 - 26, 2015

OTA Fellows Course
Boston, Massachusetts

October 7 - 9, 2015

OTA Comprehensive Fracture Course for Residents

October 7 - 10, 2015

OTA Annual Meeting
Annual Meeting Abstract Deadline: February 1, 2015

Webinars

Visit the OTA website for dates:

Tibial Plateau Fractures: Fixation Strategies and Approaches

Moderator: *Robert V. O'Toole, MD*

Distal Femur Fractures: Options and Pearls

Moderator: *Cory A. Collinge, MD*

Fractures of the Distal Humerus: Fixation Pearls & Arthroplasty Options

Moderator: *Kenneth A. Egol, MD*

Pilon Fractures: Strategies to Optimize Outcomes

Moderator: *David P. Barei, MD*



Check www.ota.org for details



ORTHOPAEDIC
— TRAUMA —
ASSOCIATION

6300 N. River Road, Suite 727
Rosemont, IL 60018-4226 USA

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2014

Register Today
at www.ota.org

Pre-registration Deadlines:

Registration faxed or post-marked by September 15, 2014

Register on-line by October 1, 2014

Hotel Deadlines: September 22, 2014

CME Credits

The OTA 30th Anniversary
Annual Meeting is approved for
21 AMA PRA Category 1 Credits™.
Additional credits are also available
for the following pre-meeting activities:

- Basic Science Focus Forum (11.75 AMA PRA Category 1 Credits™)
- ICD-10 Coding for Trauma Surgeons (6 AMA PRA Category 1 Credits™)
- International Trauma Care Forum (7.5 AMA PRA Category 1 Credits™)
- Orthopaedic Trauma Boot Camp (12 AMA PRA Category 1 Credits™)
- Young Practitioners Forum (4 AMA PRA Category 1 Credits™)
- PA/NP Course (19 AAPA Category 1 CME Credit)