Preliminary Program

2013 OTA ANNUAL MEETING OCT. 9-12

JW Marriott Desert Ridge

PHOENIX, AZ

PRE-MEETING COURSES:

- Basic Science Focus Forum
- Grant Writing Workshop
- International Orthopaedic Trauma Care Forum
- Masters Level Trauma Coding Course
- Orthopaedic Trauma Boot Camp
- Orthopaedic Trauma for NP's & PA's
- Young Practitioners Forum

ORTHOPAEDIC — TRAUMA — ASSOCIATION



19+ CME



www.ota.org



The OTA gratefully acknowledges 2012 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 gratefully acknowledges OTA contributors for their support.







On behalf of the OTA Program Committee, I am please to invite you to the 29th Annual Meeting of the Orthopaedic Trauma Association (OTA) to be held in Phoenix from October 9–12, 2013. The committee has put a tremendous effort into planning a meeting which will provide the most comprehensive and up-to-date program related to treatment of musculoskeletal injury available anywhere. A diverse spectrum of topics and the opportunity to attend a wide range of sessions including scientific presentations of original research, didactic lectures, small group discussions, and hands-on labs provide learning opportunities that meet the needs of all musculoskeletal health care professionals. Additional pre-meeting events are specifically designed for orthopaedic physician assistants and nurse practitioners and for non-fellowship trained orthopaedic surgeons.

This year's meeting will highlight main symposia on topics with broad appeal including the latest evidencebased information upper extremity injury, the scientific data assessing bone healing, and the evolution and future direction of functional outcome assessment. Continued this year, attendees will have choices throughout the meeting to attend podium presentations or concurrent mini-symposia covering a wide range of topics. Break-out sessions in the form of mini-symposia, case presentations, and skills labs that include other general interest as well as more focused topics will allow attendees to really customize their meeting experience to their particular areas of interest.

The Scientific Program will include the most relevant and scientifically sound research. More than 70 podium presentations and 120 posters were selected by the Program Committee from a record 751 abstract submissions. A session jointly sponsored by the American Orthopaedic Association's (AOA) "Own the Bone" initiative and the OTA will be embedded within the program to provide a step-by-step workshop for practices and research associates seeking to set up a sustainable center for treatment of fragility fractures.

Five meetings precede the traditional Annual Meeting, beginning with the Basic Science Focus Forum (BSFF), chaired by Ted Miclau, MD and Ed Harvey, MD. The BSFF is a one and one-half day event beginning Wednesday October 9th that will provide an additional in-depth program designed to augment and expand upon the basic science presented and discussed at the main meeting.

Bob Ostrum, MD and Dan Horwitz, MD will chair a one and one-half day Orthopaedic Trauma Boot Camp, beginning Wednesday October 9, designed for practicing orthopaedic surgeons with busy practices outside of trauma who are called upon to solve difficult fracture problems in their communities. Dr. Ostrum will be assisted by a select team of experienced OTA surgeon educators to help increase your knowledge and enhance your competency.

Three additional, single day pre-meeting events will take place on Wednesday, October 9. The perennially popular Masters Level Coding Course will be organized by Scott Broderick, MD and KarenZupko & Associates, Inc. The highly successful International Forum, started three years ago, will continue under the direction of Bill De Long, MD. A Grant Writing Workshop will be offered, chaired by Todd McKinley, MD and Brett Crist, MD. In addition, the half-day Young Practitioners Forum led by Lisa Cannada MD on Thursday morning rounds out the pre-meeting events. We encourage all to arrive early to the Annual Meeting and take full advantage of these OTA offerings.

A two and one-half day course specifically designed for Physician Assistants, chaired by Mike Archdeacon, MD, Cliff Jones, MD, Dan Coll, PA-C, and Keith Zurmehly, PA-C, will run concurrent with the Annual Meeting from Thursday, October 10 to Saturday, October 12.

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 Phoenix!

Sincerely,

Thomas F Higgins, MD Annual Meeting Program Chair





Dear Colleagues:

I am pleased to welcome you to Phoenix, Arizona, for the 29th Annual Meeting of the Orthopedic Trauma Association!

The meeting will be held at the picturesque JW Marriott Desert Ridge in north Phoenix/Scottsdale. This family friendly property has amenities all can enjoy. Nearby Desert Ridge Marketplace offers a variety of shopping, dining, and entertainment opportunities.

The meeting will be a great time to catch up with friends and colleagues, as well as discuss many important issues related to the practice of orthopedic trauma. In

addition it provides a great opportunity to spend some time enjoying the vast recreational opportunities the Valley of the Sun offers. Experience the beautiful Sonoran Desert hiking, biking, or on horseback. Study Native American culture at the Heard Museum, or stroll through plots of cactus and native plants at the Botanical Gardens. Enjoy a set or two of tennis. Settle scores with old friends with a round of golf on one of many nearby world class courses. Don't be surprised to see coyotes accompany you on early morning tee times. For the more adventurous day trips, rent a houseboat at Lake Pleasant, or drive to historic Jerome or Sedona. The landscape is unforgettable!

For those interested in spectator sports, the Arizona Cardinals will be away, but the ASU Sun Devils will play Colorado on October 12. October weather in Phoenix is spectacular! Sunny skies are the rule with daytime highs around 88 degrees, perfect for relaxing around crystal blue pools. Sporting activities are best done in the morning or after sunset to avoid dehydration. Use more sunscreen and drink more water than you think you need. Nighttime lows are around 60 degrees and perfect for outdoor dining and walking.

I look forward to seeing you all in October. Let me know if you have any questions regarding your upcoming visit.

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Sincerely,

Laura J Prokuski

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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

19+ AMA PRA Category 1 Credits[™] for attending the Annual Meeting. Additional credits if you attend premeeting events:

Basic Science Focus Forum (10.25 CME) Masters Level Trauma Coding (6 CME) International Trauma Care Forum (8.5CME) Orthopaedic Trauma Boot Camp (12 CME) Young Practitioners Forum (4 CME) Grant Writing Workshop (8.5 CME) NP/PA Course (20.25 AAPA Category 1 CME Credits)

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Young Practitioners Forum	

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Meeting and Pre-Meeting Courses

The OTA is an organization dedicated to the discovery and dissemination of knowledge and information regarding the prevention, diagnosis, and treatment of musculoskeletal injuries. The 29th OTA Annual Meeting 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 the most up-to-date clinical and basic science advancements related to orthopaedic trauma
- Understand current problems, options, and role for functional outcomes in the assessment of fracture care
- Recognize the differences in operative and non-operative treatment of common upper extremity injuries
- Become familiar with the changing landscape of outcomes measures and how this may impact orthopaedic trauma in the future

2013 Program Committee

Thomas F Higgins, MD, Program Chair Robert V O'Toole, MD, Program Co-Chair Michael J Gardner, MD Pierre Guy, MD, MBA Stephen A Kottmeier, MD Michael D McKee, MD Gilbert R Ortega, MD John T Ruth, MD David W Sanders, MD

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Basic Science Jocus Jorum

Theodore Miclau, III, 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 *10.25 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 etiology of and therapy for venous thromboembolism in trauma patients
- Review the epidemiology and treatment of atypical femur fractures
- Know about state-of-the-art technologies and practices in intraoperative imaging
- Recognize the cycle of innovation and its importance to clinical research

Wednesday, October 9, 2013

6:30 am Registration & Breakfast 7:25 am Introduction: Theodore Miclau, III, MD Program Chair

7:30 am-8:40 am Symposium 1

Hot Topics in Biomechanics: Hip Fracture Fixation Moderators: Steven A Olson, MD; Loren L Latta, PhD

- 7:30 am Fixation Recommendations in 2013: Intramedullary Nailing Emil H Schemitsch, MD
- 7:40 am Fixation Recommendations in 2013: Plating Steven A Olson, MD
- 7:50 am Considerations in New Devices Development: Ease of Use to FDA Concerns Joseph Ferrante, PhD
- 8:00 am Selecting the Best Model: Comparing Existing Devices to New Constructs Loren L Latta, PE, PhD
- 8:10 am Translating Biomechanical Findings into Clinical Practice Thomas A Russell, MD
- 8:20 am Discussion
- 8:40 am 9:38 am Paper Session 1

Biomechanically-Directed Fixation: Hot Topics Moderators: Steven A Olson, MD; Loren L Latta, MD 8:50 am Paper 1

Lunotriquetral Ligament Injuries Associated With Distal Radius Fractures: The Effect Of Wrist Position And Forearm Rotation During A Fall Onto An Outstretched Hand Check C Kam; Prasad Sawardeker, MD; Raz Nicolescu; David Kaimrajh, MS; Jordan Fennema, MD; Paul Diaz-Granados, MD; Edward Milne; Loren L Latta, MD, PhD; Elizabeth Anne Ouellette, MD, MBA

8:56 am Paper 2

Biomechanical Analysis Of Far Proximal Radial Shaft Fracture Fixation Gregory Gaski; Stephen M Quinnan, MD; David Kaimrajh, MS; Edward Milne; Loren L Latta, MD, PhD

9:02 am Paper 3

No Difference In Fatigue Failure Between Non-Locked And Locked Interlocking Screws Of Intramedullary Nails In Proximal Tibia Fractures Utku Kandemir, MD; Safa Herfat; Murat Pekmezci, MD

9:08 am Discussion

9:14 am Paper 4

Is Overdrilling Of Cortical Screws An Appropriate Surrogate For Osteoporosis In Biomechanical Testing? Jacob Cartner, BS; Megan Fessenden; Tim Petteys; Paul Tornetta, III, MD

9:20 am Paper 5 Finite Element Analysis Of The Distal Femur: Fracture Motion Predicts Clinical Callus William Lack; Jacob Elkins, MS; Trevor Lujan, PhD; Richard Peindl, PhD; James Kellam, MD; Donald D Anderson, BS, MS, PhD; Thomas D Brown, PhD; J Lawrence Marsh, MD 9:26 am Paper 6

9:26 am Paper 6 **The Minimal Screw Length For Tricortical Syndesmosis Fixation In Ankle Fracture: A Cadaveric Study** Derrick O Cote, MD; Alexander Chong; Bradley Dart; Nils Hakansson; Michael Ward; Pie Pichetsurnthorn; Paul Wooley

9:32 am Discussion 9:38 am Break

Basic Science Focus Forum (cont.)

10:00 am-11:10 am	Symposium 2	12:45 pm-1:55 pm	Symposium 3
	Inflammation		Bone Grafting
	Moderators: Peter V Giannoudis, MD; Chelsea Bahney, PhD	0 0 0	Moderators: Joseph Borrelli, Jr, MD; Kenneth A Egol, MD
10:00 am	Inflammation and Healing: When is Too Much a Bad Thing?	12:45 pm	Efficacy of Autografts: Do Harvest Sites Matter? Aaron Nauth, MD
10:10 am	Chelsea Bahney, PhD Inflammatory-Related Cytokines: What Role Do	12:55 pm	Grafting in the Setting of Infection: Strategies Hans-Christoph Pape, MD
	They Have in Healing? David J Hak, MD, MBA	1:05 pm	Bone Graft Extenders: Which Ones Work? J Tracy Watson, MD
10:20 am	Can PRPs Modulate the Inflammatory Response During Healing? Peter V Giannoudis, MD	•	Bone Graft Timing: What is Most Optimal? Mark A Lee, MD
10:30 am	Anti-Inflammatories: How and When Can They be Useful in Orthopaedic Trauma? David W Sanders, MD	1:25 pm	Bone Graft Substitutes: Is Anything as Effective as Autograft? <i>Kenneth A Egol, MD</i>
10:40 am	Systemic Trauma: Evidence-Based	1:35 pm	Discussion
10.40 dill	Recommendations for Timing of Fixation	1:55 pm-3:24 pm	Paper Session 3
10·50 am	in 2013 Hans-Christopher Pape, MD Discussion	0 0 0 0	Bone Regeneration and Repair Moderators: Joseph Borrelli, Jr, MD Kenneth A Egol, MD
		1.55 pm	Overview: Joseph Borrelli, Jr, MD
11:10 am-11:44 am			Paper 10
	Inflammation and Bone Healing Moderators: Peter V Giannoudis, MD; Chelsea Bahney, PhD	• 2.00 pm	The Influence Of Construct Stiffness On Bone Regeneration In A Rodent Defect Model Joel C Williams, MD; Matthew A Anderson, BS;
11:10 am 11:20am	Overview: Peter V Giannoudis, MD Paper 7 Age-Related Changes In Macrophage	0 0 0	Blaine A Christiansen, PhD; A Hari Reddi, PhD; Mark A Lee, MD
	Polarization Affects Osteogenesis Fei Gao, MD, PhD; Jesse Shantz; Yan Yiu Yu, PhD; Ralph S Marcucio, MD; Theodore Miclau, III, MD	2:11 pm	Paper 11 A Novel Rodent Critical Sized Defect Model And BMP-7 Dose Response Study Joel C Williams, MD; Sukanta Maitra;
11:26 am	Paper 8 T-Lymphocyte Immune Modulation In Fracture Repair: The Role Of II-17F In A Novel	• • •	Matthew J Anderson, BS; Blaine A Christiansen, PhD; A Hari Reddi, PhD; Mark A Lee, MD
	GSK3 / Beta-Catenin Independent Pathway Elaine Mau, MD, MSc; Yufa Wang; Heather Whetstone; Diane Nam, MSc, MD, FRCSC	2:17 pm	Paper 12 Spacer Composition Influences Properties Of The Masquelet Membrane In Animals And Observed Case Expression Patterns Of Indusible
11:32 am	Paper 9 Lipopolysaccharide-Induced Systemic Inflammation Affects Bone Healing In A Murine Tibia Fracture Model Jesse A Shantz, MD, MBA; Gao Fei, MD; Yan Yiu Yu, PhD; Theodore Miclau, III, MD; Ralph S Marcucio, PhD	• • • • • • • •	Observed Gene Expression Patterns Of Inducible Membranes In Humans Monique Bethel, MD; Susan M McDowell, MD; Brahmananda R Chitteti, PhD; Tien-Min Gabriel Chu, DDS, PhD; Janos P Ertl, MD; Brian H Mullis, MD; Melissa A Kacena, PhD; Jeffrey O Anglen, MD
11:38 am	Discussion	2:23 pm	
11:44 am		- - - - - - - - - - - - - - - - - - -	The Masquelet Technique Induces The Formation Of A Mesenchymal Stem Cell Rich Periosteum Like Membrane Peter V Giannoudis, MD; Richard Cuthbert; Sarah Churchman; Tan Boon; Dennis McGonagle
		2:29 pm	Discussion

2:37 pm	Paper 14	3:45 pm-4:50 pm	
	Opiates Impair Healing In Rat Femur Fracture Model		Building Networks: The Basics
	Jesse Chrastil, MD; Thomas F Higgins, MD;		Moderators: Saam Morshed, MD, PhD; Paul Volberding, MD
	Christopher Sampson; Kevin Jones	2.45 pm	Global Clinical Research: Why Do We Need It?
2:43 pm	Paper 15	5.40 pm	Paul Volberding, MD
Ei io più	Systemic Inhibition Of Notch Signaling Alters	/.∩0 nm	What Kind of Evidence is Needed to Change
	Multiple Phases Of Fracture Healing	4.00 pm	Practice or Policy?
	Michael Dishowitz, PhD; Luke Lopas;		David Shearer, MD, MPH
	Joel Takacs; Julie Engiles; Jaimo Ahn, MD, PhD;	4:10 pm	Conducting International Clinical Research:
0.40	Kurt D Hankenson, DVM		What Resources are Necessary?
2:49 pm	Paper 16 Unexpected Dispensable Role Of MMP9 In		Emil H Schemitsch, MD
	A Stabilized Femur Fracture Model	4:20 pm	Selecting the Right Study Design: Balancing
	Cesar S Molina, MD; Masato Yuasa, MD;		Science and Resources
	Johnathan G Schoencker, MD, PhD	1.00	Saam Morshed, MD, PhD
2:55 pm	Discussion	4:30 pm	International Research Studies: How to Partner?
3:01 pm	Paper 17		Gerard P Slobogean, MD, MPH
	The Non-Essential And Potentially Pathogenic	4·40 nm	Discussion
	Role Of A Fibrin Clot In Fracture Healing		
	Masato Yuasa, MD; Nicholas Mignemi; Heather Cole; Lynda O'Rear; Jesse Bible, MD;	4:50 pm-5:30 pm	International Research Studies
	William T Obremskey, MD, MPH; Jeffry Nyman;		Moderators: Saam Morshed, MD, PhD;
	Justin Cates; Herbert Schwartz;		Paul Volberding, MD
	Jonathan Gregory Schoenecker	4:50 pm	International Registries: INORMUS
3:07 pm	Paper 18		Clary K Foote, MD
	Single Nucleotide Polymorphisms In Osteogenic	4:56 pm	Paper 20
	Genes In Atrophic Delayed Fracture Healing – A Preliminary Investigation		Management Of Closed Femur Fractures
	Vikram Sathyendra, MD; Henry J Donahue, PhD;		With The SIGN Intramedullary Nail In Two
	Kent E Vrana, PhD; Arthur Berg, PhD;		Developing African Countries (Multicenter Observational Study)
	David Fryzel, BS; Jonathan Gandhi, BS;		Kyle R Stephens, DO; Daniel Galat, MD;
	J Spence Reid, MD		Duane Anderson, MD; Kiprono G Koech, MD;
3:13 pm	Paper 19		Paul Whiting, MD; Michael Mwachiro, MD;
	Systemic Proteomic Profiles Associated		Douglas W Lundy, MD
	With Healing And Nonunion Of Mid-Shaft Femur Fractures	5:02 pm	Paper 21
	Andrew Ringnes, MD; Melissa Nicole Zimel, MD;		The Design Of A Prospective
	Denise Koueiter, MS; Tristan Maerz;		Observational Study To Evaluate The Outcomes Of Operatively Treated Femoral
	Timothy Geddes; Kevin Grant, MD; Kevin Baker		Shaft Fractures In Sub-Saharan Africa
3:19 pm	Discussion		(Single-Center Observational Study)
3:25 pm	Break		David Shearer, MD; MPH, Edmund Eliezer, MD;
			Billy Haonga, MD; Saam Morshed, MD, PhD
		5:08 pm	International Randomized Control Trial: FLOW
			Kyle J Jeray, MD
		•	Discussion
		5:30 pm	Adjourn to International Poster Reception



Basic Science Focus Forum (cont.)

Thursday, October 10, 2013 9:30 am-10:40 am Symposium 6 Stem Cell Therapies 7:25 am Introduction Moderators: Theodore Miclau, III, MD; Theodore Miclau, III, MD, Program Chair 7:30 am-8:40 am Symposium 5 Infection Moderators: Emil H Schemitsch, MD; Joseph C Wenke, PhD 7:30 am Diagnosis of Infection in Orthopaedic Trauma Patients: New Technologies Joseph C Wenke, PhD 7:40 am Preventing Orthopaedic Infections David Markel, MD, MPH 7:50 am Implant-Related Infections: Bugs and Biofilms Lawrence X Webb, MD 8:00 am Managing Hardware-Related Infections: **Evidence Based Strategies** Mike D McKee. MD 8:10 am Treatment of Post-Traumatic Osteomyelitis: 10:40 am-The Next Generation! Todd O McKinley, MD 8:20 am Discussion 8:40 am – 9:13 am Paper Session 5 Musculoskeletal Infection Moderators: Emil H Schemitsch, MD; Joseph C Wenke, PhD 8:40 am Overview: Emil H Schemitsch, MD 8:50 am Paper 22 **Development And Evaluation Of A Biofilm Dispersing Scaffold** Chad A Krueger, MD; Carlos J Sanchez, PhD; Edna Margarita-Prieto, PhD; Katarzyna J Zienkiewicz, PhD; Desiree R Romano, BA; Kevin S Akers, MD; Scott A Guelcher; Joseph C Wenke, PhD 8:56 am Paper 23 Intraoperative Dip-Coating Inhibit Biofilms And Support Bone Healing During Infection Thomas Schaer, DO; Suzannne Stewart, DVM 9:02 am Paper 24 11:02 am Paper 27 **Healing Segmental Bone Defects With** Evaluation Of An Absorbable Gentamicin Eluting **Endothelial Progenitor Cell Subtypes** Plate Sleeve In An Ovine Fracture Healing Model Erica Giles, BS; Michael Glick, BSc; Joanne Haughan, DVM; Carl A Depaula, PhD; Tony Lin, BSc; Wendy Chi; Aaron Nauth, MD; David Armbruster, BS; Thomas Schaer, DO Emil H Schemitsch, MD 9:08 am Discussion 11:08 am Discussion 9:13 am Break 11:14 am Adjourn to Industry Lunch Symposia

	Ralph S Marcucio, PhD
9:30 am	Stem Cell Populations: Which Ones are Most Useful? Aaron Nauth, MD
9:40 am	Stem Cells: How Do They Influence Healing? Peter V Giannoudis, MD
9:50 am	Progenitor Cells: What are The Sources? Ralph S Marcucio, MD
10:00 am	Stem Cell Therapies: What Still Needs to be Overcome? Chelsea Bahney, PhD
10:10 am	Developing Stem Cell Approaches to Bone Defect George Muschler, MD
10:20 am	Discussion
-11:14 am	Paper Session 6
	Stem Cells Moderators: Theodore Miclau, III, MD
	Ralph S Marcucio, PhD
10:40 am	Ralph S Marcucio, PhD Overview: Ralph S Marcucio, PhD
10:40 am 10:50 am	Overview: Ralph S Marcucio, PhD
	Overview: Ralph S Marcucio, PhD Paper 25 Effects Of Endothelial Progenitor Cell Therapy On Diabetic Rat Fracture Healing Clifford Lin, MD; Aaron Nauth, MD; Emil H Schemitsch, MD

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Orthopaedic Jrauma Boot Camp

Attendees of this activity can earn up to 12 AMA PRA

Target Audience

Category 1 Credits™

Robert F Ostrum, MD; Daniel S Horwitz, MD

This course is intended for the practicing orthopaedic surgeon who takes emergency room or trauma call. Current techniques in operative 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 9, 2013

		····) · ·
6:15	5 am Regist	ration and Continental Breakfast
7:00		me and Announcements t F Ostrum, MD
	Moder	ator: Daniel S Horwitz, MD
7:05	5 am Clavic Robert	le Fractures * A Probe, MD
7:25		nal Humerus Fractures <i>⁻ Capo, MD</i>
7:45		Humerus Fractures <i>C Teague, MD</i>
8:05		Radius Fractures as F Varecka, MD
8:25	5 am Questi	ons/Discussion
8:40		Presentations S Horwitz, MD
	Moder	ator: Steven J Morgan, MD
8:55	5 am Open I <i>Robert</i>	Fractures * <i>F Ostrum, MD</i>
9:15	5 am Orthot <i>J Trac</i> j	viologics <i>v Watson, MD</i>
9:35		Management of the Polytrauma Patient lerscovici, Jr, DO
9:55	5 am Questi	ons/Discussion
10:10		Presentations or J Morgan, MD
10:25	5 am Break	
10:45	Lab Le Lab 2 Volar,	– Proximal Humerus Locking Plate eader: John T Capo, MD – Distal Radius Plating – Locked Focal Dorsal eader Thomas F Varecka, 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 <i>Kenneth A Egol, MD</i>
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 Daniel S Horwitz, MD
2:10 pm	Supracondylar Femur Fractures Paul Tornetta III, MD
2:30 pm	Periprosthetic Fractures Daniel S Horwitz, MD
2:50 pm	Break
3:10 pm	Role and Technique for Spanning External Fixato 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	
Thursday, 0	ctober 10, 2013

	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 Steven J Morgan, MD
8:20 am	Questions / Discussion
8:35 am	Case Presentations <i>Erik Kubiak, MD</i>
8:50 am	Break
9:00 am	Lab 1 – Distal Femoral Plating Lab Leader: Erik Kubiak, MD Lab 2 – Proximal Tibia Plating Lab Leader: Philip R Wolinsky, MD
9:50 am	Talus Fractures Dolfi Herscovici, Jr, MD
10:10 am	Calcaneus Fractures <i>Erik Kubiak, MD</i>
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	Industry Lunch Symposia
	(Box lunch available)

C SCIENCE & OR

OTA/ORS Grant Writing Workshop

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Wednesday, October 9, 2013

Todd O McKinley, MD, Chair; Brett D Crist, MD, Co-Chair

Attendees of this activity can earn up to 7 AMA PRA Category 1 Credits™

Target Audience

This workshop is designed for any surgeon who is interested in writing competitive peer-reviewed grants. It is particularly suited for younger faculty, trauma fellows, and senior level residents who are going to pursue a career in orthopaedic trauma. The workshop will cover principles that apply to both entry level grants (i.e. OTA-sponsored grants) and secondary higher-order funding such as NIH or DOD level grants.

Objectives

Upon successful completion of the OTA / ORS Grant Writing Workshop, you will be able to:

- Identify the mechanics of writing a successful research grant
- Understand the grant review process

Program

6:30 am Registration and Continental Breakfast

7:25 am Introduction Todd O McKinley, MD, Chair, OTA/ORS Grant Writing Workshop

7	7:30 am–9:30 am	DIDACTICS: MECHANICS OF A GRANT
		Moderator: Marc F Swiontkowski, MD
	7:30 am	Introduction and Specific Aims TBD
	7:50 am	Background and Significance Stephen L Kates, MD (OTA)
	8:10 am	Discussion
	8:30 am	Previous Work/Experimental Design and Methods <i>Aaron Stoker, PhD (ORS)</i>
	8:55 am	Finishing the Grant: Alternative Strategies / Limitations, Budget, Bio-Sketches, Human Subjects and Vertebrate Animals Donald D Anderson, PhD (OTA, ORS)
	9:15 am	Alternative Funding Sources: How to Successfully Interact with Industry James P Stannard, MD (OTA)
	9:30 am	Discussion

9:45 am Break

0:00 am-12:00 pm	OPTIMIZING YOUR CHANCES OF SUCCESS
	Moderator: TBD
10:00 am	Establish Rapport with Reviewers Theodore Miclau, III, MD (OTA, ORS)
10:30 am	Collaborations Marc F Swiontkowski, MD (OTA, ORS)
10:50 am	The OTA Grant Review Process and How to Succeed Todd O McKinley, MD (OTA, ORS)
11:10 am	KEYNOTE SPEAKER Translational Research: Starting from the Ground Up James L Cook, DVM, PhD (ORS)
11:35 am	Discussion
12:00 pm	Lunch
	SMALL GROUP ACTIVITIES: (Groups of 3 to 4 attendees per faculty in small group discussions)
1:00 pm–2:30 pm	 All Faculty Attendees and faculty will be required to read a library of grants prior to the workshop for these discussions. Successful Grant Review and Discussion Marginal Grant Review and Discussion Rejected Grant Review and Discussion
2:30 pm	Break
3:00 pm-4:00 pm	All Faculty Mock Grant Review
4:00 pm-4:30 pm	All Faculty Discussion of Mock Grant Review, Small Group Activities and Closing Remarks Brett D Crist, MD (OTA)



ORS Orthopaedic Research Society

International Orthopaedic Jrauma Care Forum

Wednesday, October 9, 2013

William G De Long, Jr, MD; Saqib Rehman, MD; Douglas W Lundy, MD, Chairmen

Attendees of this activity can earn up to 8.5 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 healthcare.

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
- Become familiar with unique approaches to lower extremity injuries treated in areas of the world with limited resources
- Increase understanding and knowledge of orthopaedic resident training internationally
- Learn about state of the art methods to manage open fractures
- Understand the differences of Orthopaedic Post-Graduate Training in Asia, Germany and South America

Program

7:00 am **Registration and Continental Breakfast** 7:30 am **Introduction – William G De Long, Jr, MD**

7:35 am–8:05 am	International Comparison of Orthopaedic Post-Graduate Training China: Prof. Wang Manyi, MD Germany: Hans-Christoph Pape Brazil: Ney Amaral, MD	
8:05 am–10:37 am	•	
	Fractures of the Lower Extremity Moderators: Saqib Rehman, MD David C Templeman, MD	•
8:05 am	The Retrograde Tibial Nail – A New Implant Concept for Distal Tibia Fractures Sebastian Kuhn, MD; Philipp Appelmann, MD; Phillip Pairon, MD; Dorothea Mehler, MD; Pol M Rommens University Medical Center of the Johannes	
8:13 am	Gutenberg University Mainz, Germany Paper 2 Infection Rates Following Intramedullary Nailing of Open Tibial Shaft Fractures in Low- And Middle-Income Countries Paul Whiting, MD; Daniel Galat, MD; Lewis G Zirkle, Jr., MD; Tufts Medical Center, Boston, MA	• • • • • • • • • •

8:21 am Pa	p	er	3
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Outcome of Reamed Intramedullary Interlocking Nail in Open Fracture Shaft Tibia Pankaj Kumar, MD Sant Ishar Singh Hospital Pehowa, Kurukshetra Haryana, India

8:29 am Discussion

8:44 am Paper 4

Surgical Treatment of Lateral Tibial Plateau Fractures with Porous Titanium Granules or With Bone Graft – Preliminary Results From an Ongoing Randomized Study Brynjolfur Y Jonsson, MD Kopavogur, Iceland

8:52 am Paper 5 Masquelet Technique for the Treatment of Open Tibial Fractures with Bone Defects Martin M Mangupli, MD Cordoba, Argentina

9:00 am Paper 6 Avoiding Rotational Mismatch of Locking Distal Tibia Plates Depends on Proper Plate Position Kyu-Hyun Yang, MD Yongdong Severance Hospital, Seoul, Korea

9:08 am Closed Tibia Interlocking Nails without Image Intensifier Innocent Chiedu Ikem, MD*

Obafemi Awolowo University, Osun State, Nigeria

- 9:16 am Discussion
- 9:31 am Break
- 9:51 am Paper 7 **Coronal Mismatch of Femoral Locking Plates on Asian Femur: Probably an Insidious Trap Leading Valgus Malunion or Nonunion In Mid-Distal Femoral Fractures** Jian Lin, MD; Qiu-gen Wang, MD; Jian-hua Huang, MD; Jian-dong Wang, MD; Xiao-feng Wu, MD; Jie Tao, MD; Wei Gao, MD; Hao-qing Li, MD Shanghai First People's Hospital, Shanghai Jiaotong University Shanghai, China

9:58 am Paper 8

Comparison of Anterior Position of Distal Femoral Nail End in Randomised Treatment of Trochanteric Fractures Nicholas Boyd Jorgensen, MBBS; Cameron Cooke, MBBS,FRACS Princess Alexandra Hospital, Brisbane, Austrailia

10:06 am Paper 9

Total Hip Arthroplasty for Failed Proximal Femoral Fracture Fixations Gunasekaran Kumar, MD; Viju Peter, MD; Colin Dunlop, MD Prenton, United Kingdom

2013 OTA Sign Scholar Recipient

International Orthopaedic Jrauma Care Forum (cont.)

	Training Abroad for Orthopaedic Residents Moderator: R Richard Coughlin, MD University of California San Francisco	- - - - - - - - - - - - - - - - - - -	Paper 16 Impact of Intraoperative 3D-Fluoroscopy on Functional Outcomes and Health-Related Quality in Open Reduction and Internal Fixation of Displaced, Intra-Articular Calcaneal Fractures Dirk Stengel, MD; Nicolai Spranger, MD; Axel Ekkernkamp, MD; Kai Bauwens, MD; Michael Wich, MD Unfallkrankenhaus Berlin Klinic F. Unfallchirurgie, Berlin, Germany Paper 17 Results and Functional Outcome of Traumatic Secondary Arthrosis of The Ankle Joint Treated by Internal Arthrodesis Marlon O Coulibaly, MD; Thomas A Schildhauer, MD; Dominik Seybold, MD; Sven Jung, MD; Jan Gessmann, MD
10:57 am	Paper 11 Osseointegration as a Viable Treatment Option for Rehabilitation of Amputees Munjed Al Muderis, MBBS, FRACS, FRCS (ORTHO) Advanced Orthopaedics, Sydney, Australia	12:01 pm 12:16 pm	University Hospital Bergmannsheil GMBH, Department of Traumatology, Ruhr-Univers, Bochum, Germany Discussion
11:05 am	Paper 12	• 1:00 pm-2:19 pm	
11:13 am	Blast Mediated Traumatic Amputation: Evidence Suggesting a New Injury Mechanism James Singleton, MBBS; Neil M Walker, MBBS, MRCS; Iain E Gibb, MBBS, FRCS(Ed), FRCR; Anthony M Bull, PhD, DIC, BEng, CEng; Jon C Clasper, MBA, DPhil, DM, FRCSEd(Orth) Ministry of Defence, Kingston Upon Thames, United Kingdom Paper 13 Secondary Intramedullary Nailing Following External Fixation: A Novel Surgical Approach	• • •	Fractures of the Upper Extremity and Hip Moderators: Steven J Morgan, MD Jeffrey O Anglen, MD Paper 18 Implantation of Carbon-Fibers-Peek Intramedullary Humeral Nail for Trauma and Pathological Fracture Fixation – A Multicenter, International Retrospective Accumulated Experience Christoph Rangger, MD
	to "Nail" The Regenerated Bone for Reconstruction of Complex Fractures and Segmental Bone Defects in Severe Limb Trauma Gerald E Wozasek, MD; Markus Hofbauer, MD Clinic for Trauma Surgery, University of Vienna Medical School, Vienna, Austria Discussion Paper 14		Krankenhaus Nordwest, Frankfurt, Germany Paper 19 A Clinical Comparison of Parallel Versus Orthogonal Anatomical Precontoured Plating for Intrercondylar Humerus Fractures Ting Li, MD; Xieyuan Jiang, MD; Prof. Wang Manyi, MD Beijing Jishuitan Hospital China
	Ultrasonographic Monitoring of Fracture Healing: Is This the End of Radiography in Fracture Follow-Ups? Sourabh Chachan Barsha Tudu, MBBS, MS; Biswajit Sahu, MBBS, MS, M Ch Sambalpur, Odisha, India Paper 15	1:24 pm	Discussion Paper 20 A Simple Way to Improve Hospital Medical Care for Hip Fracture Patients: Testing Protein Levels Yael Sagy, MD; Ahuva Weiss-Meilik, MD; Shani Gershtein, MD; Moshe Salai, MD; Ely Liviu Steinberg, MD Rihon-Lezion, Israel
	Effect of Chronic Heavy Smoking on Ankle Fracture Healing Waseem Jerjes, MD, PhD; Hiang Boon Tan, MB, CHB; Peter V Giannoudis, MD; Leeds General Infirmary, London, United Kingdom	1:32 pm	Paper 21 An Investigation of 5563 Patients Aged Over 50 With Hip Fractures from Level 1 Trauma Center Yeming Wang, MD; Wanfu Wei, MD Tianjin Hospital, Tianjin, China

1:40	om Paper 22	4:50 pm-5:30 pm	Paper Session 4
	Treatment of Pertrochanteric Fractures (A0/0TA 31-A1, A2 And A3): Without C-Arm Using Sign Hip	0 0 0	International Rese Moderators: Saar Paul
	Professor Shahab-Uddin, FCPS; Faseeh Shahab, MBBS; Lewis G Zirkle, Jr, MD; Peshawar, Pakistan	4:50 pm	International Reg (Invited Paper) Research Fellow,
1:48	om Paper 23 Achieving Hip fracture Fixation Without Using Image Intensifier Billy Thomson Haonga, MD* Muhimbili Orthopaedic Institute, Muhimbili Complex, Dar -se salaam, Tanzania	4:56 pm–5:02 pm	
1:56	Paper 24 Pelvic Hemorrhage at CT After Blunt High- Energy Pelvic Trauma: Extent and Significance Anna Totterman, MD; Narin Tiftikci, MD; Mats Beckman, MD; Anders Sundin, MD, Professor Karolinska University Hospital, Stockholm, Sweden	5:02 pm–5:08 pm	Duane Anderson, Paul Whiting, MD; Douglas W Lundy, Paper 21 The Design Of A Observational St
	04 Discussion	0 0	Outcomes Of Ope
2:19 pm-3:25 p	om Symposium 3 Guest Nation	•	Shaft Fractures I (Single-Center 0)
	Moderator: William G De Long, Jr, MD	•	David Shearer, ML
	Prof. Wang Manyi, MD Chinese Orthopaedic Association	0 0 0	Billy Thomson Had Saam Morshed, N
	Assessment of BMD of the Femor Head with QCT? <i>Prof.Jiang Baoguo, MD</i> Coping with Escalating Volumes of Road Crashes	5:08 pm-5:14 pm	
	in a Maturing Industrial Environment in China	5:14 pm-5:30pm	Discussion
0.05	Prof. Wei Jie, MD	5:30 pm	Adjourn
	om Break	5:30 pm-630 pm	
3:45 pm–4:50 j	om Symposium 4 Combined Session with Basic Science Focus Forum	0 0 0	ALL International a Refreshments will
	Building Networks: The Basics Moderators: Saam Morshed, MD, PhD; Paul Volberding, MD		* 2013 OTA Sign 3
3:45	om Global Clinical Research: Why Do We Need It? Paul Volberding, MD		
4:00	om What Kind of Evidence is Needed to Change Practice or Policy? David Shearer, MD, MPH		0.0
4:10	om Conducting International Clinical Research: What Resources are Necessary? Emil H Schemitsch, MD		N. Y
4:20	om Selecting the Right Study Design: Balancing Science and Resources Saam Morshed, MD, PhD		
4.00	m International Desearch Chudiae	~ × 40	10 10

4:30 pm International Research Studies: How to Partner? Gerard P Slobogean, MD, MPH

4:40 pm Discussion

	International Research Studies Moderators: Saam Morshed, MD, PhD; Paul Volberding, MD
4:50 pm	International Registries: INORMUS (Invited Paper)
4:56 pm-5:02 pm	Research Fellow, McMaster Paper 20
4.00 pm 0.02 pm	Management Of Closed Femur Fractures With The SIGN Intramedullary Nail In Two Developing African Countries (Multicenter Observational Study) Kyle R Stephens, DO; Daniel Galat, MD; Duane Anderson, MD; Kiprono G Koech, MD; Paul Whiting, MD; Michael Mwachiro, MD; Douglas W Lundy, MD
5:02 pm—5:08 pm	Paper 21 The Design Of A Prospective Observational Study To Evaluate The Outcomes Of Operatively Treated Femoral Shaft Fractures In Sub-Saharan Africa (Single-Center Observational Study) David Shearer, MD; MPH, Edmund Eliezer, MD; Billy Thomson Haonga, MD; Saam Morshed, MD, PhD
5:08 pm-5:14 pm	International Randomized Control Trial: FLOW Kyle J Jeray, MD
5:14 pm-5:30pm	Discussion
5:30 pm	Adjourn
5:30 pm–630 pm	International Poster Reception ALL International attendees are invited. Refreshments will be served.

^{* 2013} OTA Sign Scholar Recipient



* 2013 OTA Sign Scholar Recipient

Masters Level Jrauma Coding Course

Wednesday, October 9, 2013

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.

Do you or your staff question:

- How the documentation of a level 3 new patient visit or outpatient consultation is different from a level 4?
- Could our group pass an audit of E&M services?
- What is medical necessity and how do I communicate it to the payer?
- What do I report if the resident sees the patient in the ER and I see him in the hospital the following day before surgery?
- How do I report debridements of an open fracture done on different days?
- What will I need to change in my description of fractures for ICD-10 implementation?
- Should we use a modifier 59 on this case?

Learning Objectives

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

- Confidently report services in the ER that result in a hospital admission
- Know what modifier is required if you see a patient in the ER and take them urgently to the operating room
- Describe and document open fractures using the Gustilo Classification for ICD-10 diagnosis reporting
- Accurately document the level of service for your typical patient in the emergency room or office

Upon successful completion of the orthopaedic trauma procedural coding section, participants will be able to:

- Discuss what is included in global fracture care
- Describe how using a specific modifier can impact reimbursement
- Accurately report the application of external fixation, fracture debridement versus wound debridement, and the care of multiple fractures in the same session
- Correctly document and report subsequent procedures done during the "global period"
- Identify the difference between returning a patient to the operating room to treat a complication versus returning for an anticipated surgical procedure
- Report the services of surgical assistants and PA's.

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 medicine.



"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, administrators and staff. Margaret has extensive experience working with private practices and

academic orthopaedic departments, state orthopaedic societies, and as a featured speaker for national organizations like the American Academy of Orthopaedic Surgeons, the Musculoskeletal Tumor Society, the American Association of Hip and Knee Surgeons, the Western Orthopaedic Association, the Gait and Clinical Movement Analysis Society, and the Pediatric Orthopaedic Society of North America.

Course Agenda

8:00 am Registration

9:00 am-12:00 pm Evaluation and Management

Level of Service documentation

- History, Exam, Medical Decision Making
- Can time be used to report a level of service?
- Category of service
- What is the Global Surgical Package and the Global Period
- Procedures done with E&M services (such as injections or cast applications)
- Unrelated E&M services in the Global Period
- ICD-10 coding and documentation for fractures
- 12:00 pm-1:00 pm Lunch

1:00 pm-4:00 pm Fracture Care Surgical Coding

- Unrelated Procedures (modifier 79)
- Staged Procedures (modifier 58)
- Complicated Fractures
- Debridements
- Treatment of Complications (modifier 78)
- When is it a complication and how is it reported?
- Using modifier 51 versus modifier 59
- Unusual service (modifier 22)
- Reporting unlisted procedures

Young Practitioners Forum Preparing for a Successful Career

Thursday, October 10, 2013

Lisa K Cannada, MD, Chair

Target Audience

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

Forum Objectives

- Increase knowledge and understanding of the fellowship, job interviewing and negotiating processes
- Learn important tips for young practitioners in different practice settings
- Identify successful strategies for financial management
- Develop skills for a successful practice as a surgeon and teacher

Attendees of this activity can earn up to 4 *AMA PRA Category 1 Credits*™.

Program

6:15 am	Registration Continental Breakfast Ballroom Foyer Level 1
6:30 am	Introduction: Trauma Profile for Young Practitioners <i>Lisa K Cannada, MD, Chair</i>
6:36 am	Tips for Approaching the Fellowship Match Bryan W Ming, MD
6:42 am	Getting the Most out of Your Fellowship Milton L "Chip" Routt, Jr, MD
6:51 am	What I need to Start My Job: A Wish List? Academic; Non Academic <i>Raymond D Wright, Jr, MD; Cory A Collinge, MD</i>
7:05 am	Tips for Improving Your Business IQ Timothy J Bray, MD
7:16 am	The View from the Other Side of the Desk: What an Employer Looks for in an Interview Douglas W Lundy, MD
7:27 am	Panel Discussion: Getting What You Need from a Hospital <i>Clifford B Jones, MD; Aaron G Osborne, DO;</i> <i>Peter Althausen, MD</i>
7:53 am	Reflections: The Dark Side of Being an Employed Physician Jake Heiney, MD
7:59 am	Negotiating M Bradford Henley, MD
8:20 am	Questions
8:28 am	Break

- 8:41 am The Value of Preoperative Planning Matt L Graves, MD
- 8:52 am Becoming the "Captain of the Ship" in the OR *Timothy S Achor, MD*
- 9:00 am Tips for Being an Effective Teacher Jaimo Ahn, MD
- 9:11 am Getting Organized in Your Job Jodi Siegel, MD
- 9:22 am Things You Never Thought of that Make a Difference
- 9:35 am Look Before You Jump Troy H Caron, DO
- 9:40 am Questions
- 9:47 am Preparing for Medical Testimony for Your Patient Gerald J Lang, MD
- 9:58 am Tips for Personal Finance Success Roy Sanders, MD
- 10:16 am Keynote Address: Reflections on the Past and Preparing for the Future Andrew R Burgess, MD
- 10:41 am Wrap up and Questions

11:00 am Industry Lunch Symposia



OTA Annual Meeting

-	ctober 10, 2013	4:00 pm	Paper 33 The Effect Of Surgical Treatment On Mortality
1:00 pm 1:20 pm – 2:50 pm	Evaluating Outcomes In the 21st Century <i>Mark S Vrahas, MD; Richard C Gerson, PhD;</i> <i>Thomas F Higgins, MD; Nan Rothrock, PhD</i> In 2004 the NIH funded PROMIS (Patient Reported Outcomes Measurement System) with the goal of creating a system of highly reliable, precise measures of patient—reported health status. Key components of this effort were to use Item Response Theory and Computer Adaptive Testing to increase measure accuracy while decreasing patient burden. This effort has been highly successful and measures created by PROMIS are likely to become standard across all fields of medicine. This symposium will explain the PROMIS initiative, the science behind the new measures, and how these measures may affect	• • • • • • •	After Acetabular Fracture In The Elderly: A Multicenter Study Of 451 Patients Joshua L Gary, MD; Ebrahim Paryavi, MD; Steven D Gibbons, MD; Scott P Ryan, MD; Jordan Houston Morgan, BS; Michael J Weaver, MD; Adam J Starr, MD; Robert V O'Toole, MD Paper 34 Acute Total Hip Arthroplasty Versus Open Reduction Internal Fixation For Acetabular Fractures Involving The Posterior Wall In Patients < 65 Years Old: A Matched Cohort Analysis Carol Alice Lin, MA, MD; Jerald Westberg, BA; Andrew H Schmidt, MD Paper 35 Patient-Reported Health After Operatively Treated Displaced Sacral Fractures:
2:50 pm-3:20 pm	our speciality Break	•	A 10-Year Follow-up Aron Adelved, MD; Anna Tötterman, MD, PhD;
	Paper Session 1: Polytrauma/Pelvis/Post- Traumatic Reconstruction Moderators: Pierre Guy, MD, MBA;		Thomas Glott, MD; Helene L Søberg, PT, PhD; Jan Erik Madsen, MD, PhD; Olav Roise, MD Discussion
0.00	H Claude Sagi, MD	4:23 pm	Paper 36 Recombinant Human Morphogenetic
5.20 pm	Paper 28 Time To Definitive Operative Treatment Following Open Fracture Does Not Impact Development Of Deep Infection: A Prospective Cohort Of 736 Patients Donald Weber, MD; Sukhdeep K Dulai, MD, MSc, FRCS (C); Joseph Bergman, MD; Richard E Buckley, MD; Lauren A Beaupre	4:29 pm	Protein-2 (rhBMP-2) Versus Iliac Crest Autograft To Treat Tibia Nonunion: A Retrospective Multicenter Study William T Obremskey, MD, MPH Southeast Fracture Consortium Paper 37 The Reamer Irrigator Aspirator (RIA) As A Device For Harvesting Bone Graft Compared
3:26 pm	Paper 29 Pain And PTSD Following Major Extremity Trauma: Results From The Metals Study Renan Castillo, MS; Anthony Carlini; Ellen J MacKenzie, PhD		With Iliac Crest Bone Graft (ICBG) Union Rates And Complications John Dawson, MD; Peter Nowotarski; Dirk W Kiner, MD; Warren E Gardner, MD; Rachel Swafford
	Paper 30 The Effectiveness Of Osseo-Integrated Prosthesis Compared With Socket Prosthesis After Transfemoral Amputation Jan Paul M Frolke, MD, PhD; Henk Meent, MD, PhD; Maria TE Hopman, PhD	4:35 pm	Paper 38 Dynamizations And Exchange Nailing: Success Rates And Indications Jody Litrenta, MD; Paul Tornetta, III, MD; Cory A Collinge, MD; Heather A Vallier, MD; Clifford B Jones, MD, FACS; Christiane Gertrud Kruppa; Reza Firoozabidi, MD;
	Discussion Paper 31 Multiple Orthopaedic Procedures In The Initial Surgical Setting: When Do The Benefits Outweigh The Risks In Patients With Multiple	•	Kenneth A Egol, MD; Ross K Leighton, MD; Mohit Bhandari, MD, PhD, FRCSC; Emil H Schemitsch, MD; David W Sanders, MD Discussion President's Message: Standardization and
3:49 pm	System Trauma? Heather A Vallier, MD; Benjamin R Childs; Nickolas Nahm; Timothy A Moore, MD Paper 32 Early Appropriate Care: A Protocol To Standardize Resuscitation Assessment And To Expedite Fracture Care Reduces Hospital Stay And Enhances Revenue Heather A Vallier, MD; Andrea Dolenc, BS;		Systems: Steps We Must Take (Together) Andrew H Schmidt, MD President's Message Andrew H Schmidt, MD
3:55 pm	<i>Timothy A Moore, MD</i> Discussion	5:16 pm-6:16 pm	OTA Business Meeting

6:30 pm-8:30 pm Welcome Reception

ANNUAL MEETING

Friday, October 11, 2013 6:30 am-7:45 am Break-outs

6:30 am – 7:45 am	Break-outs
	Case Presentation Orthopaedic Trauma Coding
	Moderator: J Scott Broderick, MD William R Creevy, MD
6:30 am	
	The Challenging Hip Fracture: Pearls and Pitfalls
	Moderator: Amer J Mirza, MD
	Darin Freiss, MD; Erik Kubiak, MD; Edward A Perez, MD
6:30 am	Case Presentation
	Proximal Humerus ORIF – Advances in Fixation and Augmentation
	Moderator: Clifford B Jones, MD Michael J Gardner, MD; Samir Mehta, MD
6:30 am	Case Presentation
	2 Minutes/2 Slides: Ankle Injuries Technical Tips and Tricks
	Moderator: Pierre Guy, MD, MBA
	Kenneth A Egol, MD; Timothy O White, MD; David W Sanders, MD; Paul Tornetta, III, MD
6:30 am	Case Presentation Distal Humerus Fractures: Tips and Tricks
	Moderator: Utku Kandemir, MD
	Michael D McKee, MD; Milan K Sen, MD; John T Gorczyca, MD
6:30 am	Skills Lab
	(SL1) Fixation of Clavicle Fractures Lab Leader: Gregory M Osgood, MD
	Daren P Forward, MD; Julie Keller, MD; CDR Joseph E Strauss, DO; Erik Hasenboehler, MD;
	David B Weiss, MD; Emil H Schemitsch, MD
6:30 am	Skills Lab (SL2) ORIF Distal Tibia and Fibula Fractures
	Lab Leader: Matt L Graves, MD TBD
7:00 am	Poster Tour P1: Foot/Ankle/Pilon Clifford B Jones, MD
8:00 am – 8:55 am	
	Moderators: Kyle J Jeray, MD; Michael D McKee, MD
8:00 am	Paper 39
	Association Between Type Of Surgery And Perioperative Acute Myocardial Infarction In
	Elderly Hip Fracture Patients
	Nathalie Helen Urrunaga, MD, MS; Amelia C Watkins, MD; Robert Sterling, MD;
	Mary L Forte, PhD
8:06 am	Paper 40 Effect Of Vitamin K On Surgical Timing After
	Hip Fracture In Patients On Warfarin
	Jacob Lantry, MD; John T Gorczyca, MD

8:12 am	Paper 41 Healing Time And Complications In Operatively Treated Atypical Femur Fractures Associated With Bisphosphonate Use: A Multicenter Series Yelena Bogdan, MD; Paul Tornetta, III, MD; Thomas A Einhorn, MD; Pierre Guy, MD, MBA; Lise Leveille, MD; Juan De Dios Robinson, BA, MBBS, MSc, FRC; Nikkole M Haines, MD, BS; Daniel S Horwitz, MD; Emil H Schemitsch, MD; H Claude Sagi, MD; Daniel Stahl, MD; Megan Brady, MD; David W Sanders, MD; Thomas F Higgins, MD; Michael S Kain, MD; Cory A Collinge, MD; Stephen A Kottmeier, MD; Darin M Friess, MD
8:18 am	Discussion
8:23 am	Paper 42 Rehospitalization After Operatively Treated Hip Fractures: Targets For Intervention Christopher M McAndrew, MD; Michael J Gardner, MD; Ellen F Binder; William M Ricci, MD; Eric J Lenze
8:29 am	Paper 43 Can An Evidence-Based Treatment Algorithm For Intertrochanteric Hip Fractures Maintain Quality At A Reduced Cost? Kenneth A Egol, MD; Alejandro Marcano, MD; Lambert Lewis, BA; Nirmal C Tejwani, MD, FRCS; Toni M McLaurin, MD; Roy Davidovitch, MD
8:35 am	Paper 44 Intramedullary Versus Extramedullary Fixation Of Unstable Intertrochanteric Hip Fractures: A Prospective Randomized Control Study Rudolph Reindl, MD; Edward J Harvey, MD; Gregory K Berry, MD; Canadian Orthopaedic Trauma Society
8:41 am	Paper 45 Is Immediate Weight Bearing Safe For Periprosthetic Distal Femur Fractures Treated With Locked Plating? Wade R Smith, MD; Jason Stoneback, MD
8:47 am	Discussion
8:55 am	Guest Nation Intro Andrew H Schmidt, MD
	Best International Forum Paper: TBD
9:07 am	Guest Nation Presentation Prof. Wang Manyi, MD Chinese Orthopaedic Association "Chinese Trauma Education"
9:15 am	Border Lecture Skeletal Trauma: Global Conundrum Bruce D Browner, MD

Border Lecture

Bruce D Browner, MD Skeletal Trauma: Global Conundrum

9:45 am-10:15 am Break

Meeting Agenda (cont.)

Friday, October 11, 2013 (cont.)	10:38 am Paper 49 Locked Plating Versus Retrograde Nailing Fo	or
10:15 am-11:45 am Break-outs	Distal Femur Fractures: A Multicenter	
10:15 am Mini-Symposium How to Use the OTA Case Database at Your Institution Moderator: Julie Agel, ATC	Randomized Trial Paul Tornetta, III, MD; Kenneth A Egol, MD; Clifford B Jones, MD, FACS; Janos P Ertl, MD; Brian H Mullis, MD; Ed Perez, MD;	
10:15 am Mini-Symposium Femoral Neck Fractures in Young Adults: Why are We Not "Fixing" These Better? Moderator: Cory A Collinge, MD Michael T Archdeacon, MD; Bradley R Merk, MD; Frank Liporace, MD	Cory A Collinge, MD; Robert Ostrum, MD; Catherine A Humphrey, MD; Sean Nork, MD; Michael J Gardner, MD; William M Ricci, MD; Laura S Phieffer, MD; David C Teague, MD; William J Ertl, MD; Christopher T Born, MD; Alan Zonno, MD; Judith A Siegel, MD;	
10:15 am Mini-Symposium Traumatic Limb Injuries Requiring Amputation: A Multidisciplinary Approach Using The Osteomyoplastic (Ertl) Technique	H Claude Sagi, MD; Andrew Ñ Pollak, MD; Andrew H Schmidt, MD; David C Templeman, M Stephen A Sems, MD; Darin M Friess, MD; Hans-Christoph Pape	ID;
Moderator: William J Ertl, MD Jonathan D Day, CPO; Carol P Dionne, PT, DPT, PhD, OCS; Jan Ertl, MD; James R Ficke, MD	10:44 am Paper 50 Distal Locking In Femural And Tibial Nailing 228 Patients Without X-Ray Guidance: A Multicenter Study Pamer P. Curtile, MD: Acture C. Canota, MD:	Of
10:15 am – 11:24 am Paper Session 3: Hip / Femur Moderators: John T Ruth, MD Thomas A DeCoster, MD 10:15 am Paper 46	Ramon B Gustilo, MD; Arturo C Canete, MD; Godofredo V Dungca, MD; Regidor B De Leon, M Daniel V Dungca, MD; Jerome B Atupan, MD; Joaquin C Pandanan, MD; Wilfredo B Pacheco, M Abigail T Jao, BS, MEM-BME	
A Prospective Randomized Trial Investigating The Effect Of The Reamer Irrigator-Aspirator (RIA) On The Volume Of Embolic Load And Respiratory Functions During Intramedullary Nailing Of Femoral Shaft Fractures Milena (Lynn) Vicente, RN; Emil H Schemitsch, MD; Jeremy A Hall, FRCSC; Michael D McKee, MD; Zachary A Morison; Niloofar Dehghan; Hans J Kreder, MD	10:50 am Paper 51 A Prospective Randomized Control Trial Of Fixation Of Intertrochanteric Fractures: Compression Hip Screw Versus Third Genera Long Cephalomedullary Nail Diana Kennedy, MBBS; Cameron Cooke, MD; Lloyd (Doug) King, FRACS (ortho); Mark Dekkers, FRACS (ortho)	ition
10:21 am Paper 47	10:56 am Discussion	
Morbid Obesity Increases The Risk Of Systemic Complications In Patients With Femoral Shaft Fractures Stuart Deaderick, BS; Robert Francis Murphy, MD; John C Weinlein, MD 10:27 am Paper 48	11:01 am Paper 52 Femoral Neck Shortening Impairs Gait Patter And Muscle Strength After Internal Fixation A Femoral Neck Fracture Stephanie Zielinski, MD; Noël LW Keijsers; Stephan FE Praet; Martin J Heetveld; Makit Abanderi MD, PhD, ERCSC;	
Operative Versus Non-Operative Treatment Of Femoral Fractures In Spinal Cord Injury Patients Julius A Bishop, MD; Paola Suarez, MPH; Lisa DiPonio, MD PhD; Doug Ota, MD, PhD;	Mohit Bhandari, MD, PhD, FRCSC; Jean Pierre Wilssens; Peter Patka; Esther MM Van Lieshout 11:07 am Paper 53	
Catherine Curtin, MD 10:33 am Discussion	Implication Of Subgrouping In Valgus Femor Neck Fractures: Comparison Of 31-B1.1 Wit 31-B1.2 Fracture In OTA Classification Kyu-Hyun Yang, MD; Hyoung-Kyeun Song; Hyun-Cheol Oh; Yougun Won	
	11:13 am Paper 54 Fixation Of Displaced Femoral Neck Fracture In Young Adults: Fixed Angle Devices Or Pauwel Screws C Max Hoshino, MD; Matthew Christian; Robert V O'Toole, MD; Theodore T Manson, MD	S
	11:19 am-11:24 am Discussion	
	11:24 am-12:30 pm Lunch	

11:35 am-12:20 pm	Poster Tour	• 1:40 pm-2:04 pm	Paper Session 4: Basic Science
11:35 am-12:20 pm		0	Moderators: Theodore Miclau, III, MD; Emil H Schemitsch, MD Paper 55
11:35 am–12:20 pm	Poster Tour (P3) Pelvis and Acetabulum Paul Tornetta, III, MD	ι.40 μπ	Is There An International Consensus How To Assess Fracture Healing Based On Clinical And Radiological Findings? Wojciech Michal Glinkowski, MD, PhD;
12:30 pm-2:00 pm	Break-outs	•	Jakub Janowicz, MD
12:30 pm	Skills Lab (SL3) SIGN Lab Leader: Lewis G Zirkle, Jr, MD Innocent Chiedu Ikem (Inno Ikem), MD Billy Thomson Hoanga, MD; Robert S Schultz, MD; Paul Whiting, MD; Kyle R Stephens, DO; Frederic B Wilson, Jr, MD; John W Staeheli, MD; Prof. Shabab-uddin, MD; Faseeh Shahab, MD	• • • • • • • • • • • • • • • • • • •	Paper 56 Any Cortical Bridging Predicts Healing Of Tibial Shaft Fractures William Lack; James Starman, MD; Rachel Seymour, PhD; Michael Bosse, MD; Madhav Karunakar, MD; Stephen Sims, MD; James Kellam, MD Paper 57
	Skills Lab (SL4) IM Fixation of Proximal Tibial Fractures Lab Leader: Roy Sanders, MD Anthony S Rhorer, MD; Paul Tornetta, III, MD: Joshua Langford, MD; William M Ricci, MD	1.52 pm	Ultrasonographic Monitoring Of Fracture Healing: Is This The End Of Radiography In Fracture Follow-ups? Sourabh Chachan; Barsha Tudu, MBBS, MS;
12:30 pm	Skills Lab (SL5) Knee or Ankle Spanning Ex-Fix Lab Leader: Edward A Perez, MD Matthew I Rudloff, MD; Robert D Zura, MD; Amer J Mirza, MD; Hassan R Mir, MD	1:58 pm 2:04 pm-2:30 pm 2:30 pm-4:00 pm	
12:30 pm	Mini-Symposium Contemporary Debates in Orthopaedic Trauma Moderator: Michael Suk, MD, JD <i>Samuel G Agnew, MD; Bruce D Browner, MD</i> <i>Lisa K Cannada, MD; Clifford B Jones, MD;</i> <i>A Alex Jahangir, MD; Douglas W Lundy, MD:</i> Theodore Toan Le, MD; Samir Mehta, MD;	2:30 pm	Mini-Symposium Technical Tips in 3 and 4-Part Proximal Humerus ORIF Moderator: Utku Kandemir, MD John T Gorczyca, MD; Milan K Sen, MD; Michael J Gardner, MD; Michael D McKee, MD Mini-Symposium
12:30 pm	Manish K Sethi, MD; Philip R Wolinsky, MD Mini-Symposium Financial Implications of Increasing ACS Trauma Level: Where does Orthopaedic Trauma Surgeon Fit into the Equation? Moderator: Timothy J Bray, MD Peter Althausen, MD; Austin Hill, MD, MPH; Roy Sanders, MD; Mike Williams, MBA	2:30 pm	How to Establish and Run a Fragility Fracture Program Moderator: James A Goulet, MD <i>Clifford B Jones, MD; Kyle J Jeray, MD;</i> <i>Joseph M Lane, MD; Marc F Swiontkowski, MD</i> Mini-Symposium Healthcare Systems and Trauma: A 360 Degree World View for the Orthopaedic
12:30 pm	Mini-Symposium Introduction to ICD-10 for Orthopaedic Traumatologists Moderator: M Bradford Henley, MD William R Creevy, MD; J Scott Broderick, MD	- - - - - - - - - - - -	Trauma Surgeon Moderator: Manish K Sethi, MD James R Ficke, MD; A Alex Jahangir, MD; Samir Mehta, MD
12:30 pm–1:40 pm	Symposium 2 Assessment of Fracture Repair Moderators: Emil H Schemitsch, MD; Theodore Miclau, III, MD	0 0 0 0 0	
12:30 pm	What is the Problem and is there a Consensus? Michael D McKee, MD	201	
12:40 pm	Current Options for Determining Union Saam Morshed, MD, PhD	201	
	What is the Role for Functional Outcomes? Robert V O'Toole, MD		NUAL
	Are Fracture Healing Trials a Thing of Past: The Challenge of FDA <i>Paul Tornetta, III, MD</i>	MEE	TING
1:10 pm	Focusing Our Efforts: Challenging Healing Problems, but What Will the Answers Be? <i>Michael J Bosse, MD</i>	• • •	
1.00	D'a sur a la s	•	

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Meeting Agenda (cont.)

Friday Octo	ber 11, 2013 (cont.)	3:27 pm	Paper 65
•	<u> </u>	•	Defining The Lower Limit Of A "Critical Bone
2:30 pm–4:07 pm	Paper Session 5: Knee/Tibia Moderators: David W Sanders, MD	0 0 0	Defect" In Open Diaphyseal Tibia Fractures Nikkole M Haines, MD, BS; William Lack;
	David P Barei, MD	•	Rachel Seymour, PhD; Michael J Bosse, MD
2:30 pm	Paper 58	• 3:33 pm	Paper 66
	Are Locked Plates Needed For Split Depression Tibial Plateau Fractures (OTA Type 41B)? Michelle Abghari, BS; Alejandro Marcano, MD;	- - - - -	Alignment After Intramedullary Nailing Of Distal Tibia Fractures Without Fibula Fixation Anthony De Giacomo, MD; William R Creevy, MD; Paul Ternatta, III, MD,
	Roy Davidovitch, MD; Sanjit Reddy Konda, MD; Kenneth A Egol, MD	3:39 pm	Paul Tornetta, III, MD Paper 67
2:36 pm	Paper 59	•	Outcomes Of The Patients With Cultured
	Inflammatory Cytokine Response Following Tibial Plateau Fracture Does Not Correlate With Fracture Grading Of "Low Versus High Energy" Justin Haller, MD; Thomas F Higgins, MD;	- - - -	Pathogens At The Time Of Nonunion Surgery David P Taormina, MS; James H Lee, BE; Alejandro I Marcano, MD; Raj Karia; Kenneth A Egol, MD
	Erik Kubiak, MD		Discussion
2:42 pm	Discussion	3:50 pm	Paper 68
2:47 pm	Paper 60 Fix It Or Discard It? A Retrospective Review Of Functional Outcomes After Surgically Treated Patella Fractures Comparing ORIF With Partial	0 0 0 0	Acute Compartment Syndrome: Where Pressure Fails Ph Succeeds Kirsten Elliott, FRCS (ortho), MD; Alan Johnstone, FRCS
	Patellectomy	3:56 pm	Paper 69
	Nicholas Bonnaig, MD; Chris Casstevens, MD; Michael T Archdeacon, MD	0 0 0	Interobserver Reliability In The Measurement Of Lower Leg Compartment Pressures.
2:53 pm	Paper 61	0	Thomas M Large, MD; Julie Agel, ATC;
	No Difference In Infection, Compartment Syndrome, Or Secondary Procedures In Early Versus Delayed Spanning External Fixation For High-Energy Tibial Plateau And Plafond Fractures Justin Haller, MD; David Holt; Erik Kubiak, MD; Thomas F Higgins, MD	4:02 pm	Daniel J Holtzman, MD; Stephen K Benirschke, MD; James C Krieg, MD Discussion
2:59 pm	Discussion	•	
3:04 pm	Paper 62 Intramedullary Nailing With An Internal Compression Device For Transverse Tibial Shaft Fractures Decreases Time To Union When Compared To Traditional "Backslapping" And Dynamic Locking Michael J Beltran, MD; Christopher James; H Claude Sagi, MD	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3:10 pm	Paper 63	•	
	The Effect Of Postoperative Weight-Bearing On Tibia Fractures Treated With Intramedullary Nailing: A Prospective Randomized Trial Steven C Gross, MD; David Taormina; Kenneth A Egol, MD; Nirmal C Tejwani, MD, FRCS	20	13 OTA
3:16 pm	Paper 64 Does A 6-Month Wait Before Reoperation Improve Tibial Nonunion Rates?: A Comparative Examination Of Patients Not Enrolled In SPRINT Carol Alice Lin, MA, MD; SPRINT Investigators		
3:22 pm	Discussion		EETING

:07 pm–4:53 pr	n Paper Session 6: Pediatrics and Spine
	Moderators: Gilbert R Ortega, MD
	Samir Mehta, MD
4:07 pr	Displaced Medial Epicondyle Fractures In Children: Comparative Effectiveness Of Modern Surgical Treatment Versus Non-Operative
4.40	Treatment Emily Mayer, BS; Charles T Mehlman, DO, MPH
4:13 pr	n Paper 71 A Prospective Cohort Study Of The Adoption Of Titanium Elastic Intramedullary Nails For The Treatment Of Femur Fractures In Kumasi, Ghana
	Tai Holland, BS; Scott Patrick Kaiser, BS, MD; Paa Kwesi Baidoo, MD; Kate Liddle; Richard Coughlin, MD; Dominic Awariyah; Peter Konadu, MD; Raphael Kumah, MD
4:19 pr	n Paper 72 Refracture Rates Following Clavicle Shaft Fractures In Children: Angulation Only Fractures Versus Completely Displaced Fractures Michelle Masnovi, BS, MS; Charles T Mehlman, DO, MPH
4·25 pr	n Discussion
	n Paper 73
4.00 pi	Predicting Redisplacements Of Diaphyseal Forearm Fractures: How About The Three-Point Index? Kadir Bahadir Alemdaroglu, MD; Serkan Iltar; Ferhat Say; Nevres H Aydogan
4:36 pr	
4:42 pr	n Paper 75 Operative Versus Nonoperative Treatment Of Thoracolumbar Burst Fractures Without Neurological Deficit: Fifteen To Twenty-Year Follow-up Kirkham B Wood; Mitchel B Harris, MD; Christopher M Bono, MD; Amir Mehbod; Glenn Butterman
4:48 pr	n Discussion
4:53 pr	n Adjourn
5:30pm-6:30pr	m Military Reception

Saturday, October 12, 2013 6:30 am-7:45 am Break-outs

6:30 am – 7:45 am	Break-outs
6:30 am	Case Presentation Surgical Treatment of Pediatric Femur Fractures, Current Concepts Moderator: Enes Kanlic, MD, PhD; Amr A Abdelgawad, MD; J Eric Gordon, MD; Marc F Swiontkowski, MD
6:30 am	Case Presentation Mangaement of Pelvic and Acetabulum Fractures Moderator: Paul Tornetta, III, MD; Thomas F Higgins, MD; Robert V O'Toole, MD; Philip R Wolinsky, MD
	Case Presentation The Isolated Humerus: Not All Belong in the Sarmiento Moderator: Lisa K Cannada, MD; William T Obremskey, MD; Clifford B Jones, MD
6:30 am	Skills Lab (SL6) ORIF Distal Radius Fractures Lab Leader: Melvin P Rosenwasser, MD Michael D McKee, MD; Jesse B Jupiter, MD; Thomas F Varecka, MD; R Kumar Kadiyala, MD
7:00 am	Poster Tour (P4) Hip and Femur J Tracy Watson, MD
8:00 am-9:30 am	Symposium 3
9:30 am-10:00 am	The Operative versus Non-Operative Treatment Of Common Upper Extremity Injuries: What Does Evidence-Based Medicine Tell Us? <i>Michael D McKee, MD; Peter A Cole, MD;</i> <i>Clifford B Jones, MD; Stephane Pelet, MD, PhD;</i> <i>David C Ring, MD, PhD; Melvin P Rosenwasser, MD;</i> <i>Emil H Schemitsch, MD</i> Increasingly, evidence based medicine (EBM) is being promoted by various groups as the standard to define clinical care. This symposium will illustrate how the use of currently available EBM studies can aid in decision-making with regards to the operative versus non-operative treatment of common upper extremity injuries. Break
9:30 am – 10:00 am	DIEak



Meeting Agenda (cont.)

	ctober 12, 2013 (cont.)	10:29 am	Does The Muller AO Classification System
10:00 am – 11:30 am 10:00 am	Break-outs Mini-Symposium What Could Go Wrong Did: Getting Out of Trouble Moderator: Lisa K Cannada, MD Frank A Liporace, MD; Brian H Mullis, MD; David C Templeman, MD	10:35 am	For Ankle Fractures Correlate More Closely To The Mechanism Of Injury Than The Lauge- Hansen System? Edward K Rodriguez, MD, PhD; John Y Kwon, MD; Lindsay Herder, BA; Paul T Appleton, MD Paper 81 The Quality And Utility Of Routine Immediate
10:00 am	Mini-Symposium Geriatric Pelvis and Acetabular Fractures: We Should Treat Them Like Hip Fractures Moderator: Brett D Crist, MD Michael T Archdeacon, MD; Steven A Olson, MD; Stephen A Sems, MD; Cory A Collinge, MD	• • • • • • • •	Postoperative Radiographs Following Ankle Fracture Surgery Elizabeth Martin, MD; Sara Lyn Miniaci-Coxhead, MD; Joshua G Hunter, MD; John T Gorczyca, MD; Jonathan M Gross, MD; Catherine A Humphrey, MD; John P Ketz, MD
10:00 am	Mini-Symposium	10:41 am	Discussion
	Malunion / Nonunion Management: What I Wish Someone Had Told Me Before I Started Doing These Cases Moderator: Samir Mehta, MD David P Barei, MD; Gregory J Della Rocca, MD, PhD; J Spence Reid, MD	10:46 am	
10:00 am-11:26 am	Paper Session 7: Foot and Ankle	•	Mélissa Laflamme; Mark Glazebrook;
	Moderators: Robert V O'Toole, MD; Christopher M Doro, MD	10:52 am	Michel Van Bekerom; Etienne Belzile; Luc Bédard Paper 83
10:00 am	Paper 76 Open Reduction And Internal Fixation Compared With Primary Subtalar Fusion For Treatment Of Sanders Type IV Calcaneal Fractures: A Randomized Multicentre Clinical Trial Richard E Buckley, MD; Jeffrey Poon, MBBS; Karel Fasbender; Rogier Steins; Khitish Mohanty; Elizabeth Oddone Paolucci, PhD	10:58 am	The Fate Of The Fixed Syndesmosis Over TimeScott Koenig; Elisabeth Gennis, MD;Deirdre Rodericks, BS; Peter Otlans;Paul Tornetta, III, MDPaper 84Does Syndesmotic Injury Have A NegativeEffect On Functional Outcomes?
10:06 am		• • • • • •	A Multicenter Prospective Evaluation Jody Litrenta, MD; Paul Tornetta, III, MD; Laura S Phieffer, MD; Clifford B Jones, MD, FACS; Janos P Ertl, MD; Brian H Mullis, MD; Kenneth A Egol, MD; Michael J Gardner, MD; William M Ricci, MD; David C Teague, MD;
10:12 am	Paper 78 Long-term Follow-up Of High-Energy Pilon Fractures: A Prospective Comparison Of Locked Plates Versus Non-Locked Plates Theodore Toan Le, MD; Albert D'Heurle, MD; Namdar Kazemi, MD; Michael T Archdeacon, MD; John D Wyrick, MD	11:04 am 11:09 am	William J Ertl, MD; Cory A Collinge, MD; Ross K Leighton, MD Discussion Paper 85 Stress Ankle Radiographs And Predictability Of Deltoid Ligament Injury In A Supination-External Rotation Cohort
10:18 am	Discussion	•	Patrick Schottel, MD; Marschall B Berkes, MD;
10:23 am	Paper 79 Early Weight-Bearing And Mobilization Versus Non-Weight-Bearing And Immobilization After Open Reduction And Internal Fixation Of Unstable Ankle Fractures: A Randomized Controlled Trial Niloofar Dehghan; Richard J Jenkinson, MD; Michael D McKee, MD; Emil H Schemitsch, MD; Aaron Nauth, MD; Jeremy A Hall, FRCSC; David J Stephen, MD; Hans J Kreder, MD	- - - - - - - - - - - - - -	Milton TM Little, MD; Matthew Garner; Jacqueline Birnbaum; David L Helfet, MD; Dean G Lorich, MD

11:15 am	Paper 86 Anatomical Strategy For Fixation Of Supination External Rotation Type IV Equivalent (SER IV E) Ankle Fractures Milton TM Little, MD; Marschall B Berkes, MD; Patrick Schottel, MD; Matthew Robert Garner, MD; Lionel Enrique Lazaro;	12:53 pm 12:59 pm	Paper 90 Sleep Dis Related 1 Functions Brandon 3 Roy David
11:21 am	Jacqueline F Birnbaum, BA; David L Helfet, MD; Dean G Lorich, MD Discussion	12.39 pm	Anxiety A Chronic F Study Of
11:26 am - 12:30 pm 11:40 am - 12:25 pm		0 0 0 0	Renan Ca Sara Eliza Jennifer H Michael J
11:40 am-12:25 pm	Poster Tour (P6) General Interest <i>Lisa K Cannada, MD</i>	1:05 pm	Paper 92 Impact 0 Outcome Orthopae
12:30 pm-2:00 pm	Break-outs	0	Kristin Arc
12:30 pm	Mini-Symposium Management of Pediatric Trauma Urgencies / Emergencies	1.11 nm	Christine A Stephen V
	Moderator: David A Podeszwa, MD; Christine A Ho, MD; Anthony I Riccio, MD; Lane Wimberly, MD		Paper 93 Nature's Patterns
12:30 pm	Mini-Symposium Rib Fracture Fixation in 2013: Lunatic Fringe or State of the Art? Moderator: Michael D McKee, <i>MD;</i> <i>Peter Althausen MD; Noloofar Dehghan, MD;</i> <i>Aaron Nauth, MD; Morad Hameed, MD;</i>	1:22 pm	Orthopae Brandon S Roy David Kenneth A Paper 94
12:30 pm	<i>Emil H Schemitsch, MD; Gerard P Slobogean, MD</i> Orthopaedic Surgeons Taking Ownership of Extremity Trauma: Soft Tissue Coverage Moderator: Christopher M McAndrew, MD;		Impact 0 Postoper Trauma P Hassan R James M
10:00 pm 1:EC pm	Daniel A Osei, MD; Martin I Boyer, MD; Duretti Fufa, MD; David A Volgas, MD	1:28 pm	Harrison I Paper 95
	Paper Session 8: Topics of General Interest Moderators: Thomas F Higgins, MD; Matt L Graves, MD	0 0 0 0	Stress-Hy Surgical Observat
12:30 pm	Paper 87 Utilizing The ASA Score As A Predictor Of 90-Day Perioperative Readmission In Patients With Isolated Orthopaedic Trauma Injuries Vasanth Sathiyakumar, BA; Aaron Yengo-Kahn, BS; Harrison F Kay, BS; R Adams Cowley; Young M Lee; Jesse M Ehrenfeld, MD, MPH;		Non-Criti Justin E F Kaushik M A Alex Jau Jason M I William T Manish K
12:36 pm	William T Obremskey, MD, MPH; Manish K Sethi, MD Paper 88 Do Surgeons Know The Cost Of Orthopaedic	•	Discussior Paper 96 Effective
	Trauma Implants? A Multicenter Study Of 216 Surgeons Kanu Okike, MD; Robert V O'Toole, MD; Andrew N Pollak, MD; Julius A Bishop, MD; Christopher M McAndrew, MD; Samir Mehta, MD; William Wood Cross, MD; Grant Garrigues, MD; Mitchel B Harris, MD;	1:45 nm	Orthopae Brett D Ci Daniel S I Yvonne M Gregory J David A V Paper 97
12:42 pm	Christopher T LeBrun, MD Paper 89 Does Fracture Care Make Money For The Hospital? An Analysis Of Hospital Revenue And Cost For Treatment Of Common Fractures	• • • • • • • • • • • • • • • • • • •	Are Routi Radiogra Brian Mos Lisa A Tai
12:48 nm	Conor Kleweno, MD; Robert V O'Toole, MD; Jeromie Ballreich, MHS; Andrew N Pollak, MD Discussion	1:51 pm 1:56 pm-2:26 pm	Discussior Break
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	Christine Abraham; William T Obremskey, MD, MPH; Stephen Wegener, PhD; Renan Castillo, MS
1:11 pm	Discussion
1:16 pm	Paper 93 Nature's Wrath – The Effect Of Daily Weather Patterns On Postoperative Pain Following Orthopaedic Trauma Brandon S Shulman, BA; Alejandro I Marcano, MD; Roy Davidovitch, MD; Raj Karia; Kenneth A Egol, MD
1:22 pm	Paper 94 Impact Of Patient Comprehension On Postoperative Complications In An Orthopaedic Trauma Population Hassan R Mir, MD; Rishin J Kadakia, BSc; James M Tsahakis, BA; Neil M Issar, BSc; Harrison F Kay, BSc; Kristin Archer, PhD, DPT
	Paper 95 Stress-Hyperglycemia Is Associated With Surgical Site Infection: A Prospective Observational Study Of Non-Diabetic, Non-Critically III Orthopaedic Trauma Patients <i>Justin E Richards; Julie Hutchison, ACNP;</i> <i>Kaushik Mukherjee, MD, MSCI;</i> <i>A Alex Jahangir, MD; Hassan R Mir, MD;</i> <i>Jason M Evans, MD; Aaron M Perdue, MD;</i> <i>William T Obremskey, MD, MPH;</i> <i>Manish K Sethi, MD; Addison K May, MD</i>
1:34 pm	Discussion
1:39 pm	Paper 96 Effectiveness Of Vitamin D Therapy In Orthopaedic Trauma Patients Brett D Crist, MD, FACS; Daniel S Robertson, MD; Tyler Jenkins; Yvonne M Murtha, MD; Gregory J Della Rocca, MD, PhD, FACS; David A Volgas, MD; James P Stannard, MD
	Paper 97 Are Routine Two Week Postoperative Radiographs Useful? Brian Mosier; Gregory T Altman, MD; Lisa A Taitsman, MD
1:51 pm	Discussion
6 pm-2:26 pm	Break

Sleep Disturbance Following Fracture Is Related To Emotional Well Being Rather Than

Brandon S Shulman, BA; Frank Liporace;

Anxiety And Depression In The Etiology Of **Chronic Pain: Results From A Two-Year Cohort**

Renan Castillo, MS; Stephen Wegener, PhD;

Impact Of Early Postoperative Pain On Outcomes 1-Year Following Traumatic

Roy Davidovitch, MD; Raj Karia; Kenneth A Egol, MD

Jennifer Haythornthwaite; Ellen J MacKenzie, PhD;

Kristin Archer, PhD, DPT; Sara Elizabeth Heins, BA;

Functional Result

Study Of Trauma Patients

Sara Elizabeth Heins, BA;

Michael J Bosse, MD

Orthopaedic Injury

Meeting Agenda (cont.)

Saturday, October 12, 2013 (cont.)	3:12 pm Paper 104 PROMIS Physical Function Computer Adaptive
2:26 pm-3:55 pm Paper Session 9: Upper Extremity Moderators: Stephen A Kottmeier, MD; Clifford B Jones, MD 2:26 pm Paper 98 Non-Operative Treatment Of Closed Extra- Articular Distal-Third Diaphyseal Fractures Of The Humerus: A Comparison Of Functional Bracing And Long Arm Casting David Saper, MD; Chris Swellengrebel; Andrew Jawa; David Ring; Ryan Shin; Paul Yi	Test Compared To Other Upper Extremity Outcome Measures In The Evaluation Of Patient Outcomes Following Proximal Humerus Fractures In Patients Over 60 Jordan Houston Morgan, BS; Kanu Okike, MD; Michael A Kallen, PhD, MPH; Mark S Vrahas, MD 3:18 pm Paper 105 Pain Exposure Physical Therapy Versus Conventional Therapy In Patients With Complex Regional Pain Syndrome Type 1: A Randomised
2:32 pm Paper 99 Functional Outcome Scores Of Humeral Shaft Fractures In Patients Treated Non-Operatively Compared To Those Treated Surgically Edward Shields, MD; Michael Maceroli, MD; Leigh Sundem; Sean Childs; Adrian Hadiano; Catherine A Humphrey, MD; Jonathan M Gross, MD; John P Ketz, MD; John T Gorczyca, MD	Controlled Trial Jan Paul M Frolke, MD, PhD; Karlijn J Barnhoorn, MD; Henk Van de Meent, MD, PhD; Robert TM Van Dongen, MD, PhD; Frank PAJ Klomp; Hans JMM Groenewoud, MSc; Ria MWG Nijhuis-vanderSanden, PhD 3:24 pm Paper 106
2:38 pm Paper 100 A Prospective Randomized Study Of Operative Treatment For Non-Comminuted, Humeral Shaft Fractures- Open Plating Versus Minimal Invasive Plate Osteosynthesis (MIPO) Jung Jae Kim, MD; Young-Soo Byun; Chang-Wug Oh, MD; Kichul Park, PhD; Ji Wan Kim	When Do Distal Radius Fractures Most Likely Displace And When Do They Stop Moving: Long-Term Follow-up Of Closed Reduction And Casting Andy Jawa, MD; Joey Lamartina, MD; Paul Tornetta, III, MD 3:30 pm Discussion
2:44 pm Discussion	3:35 pm Closing Remarks
2:49 pm Paper 101 Upright Compared To Supine Radiographs Of Clavicle Fractures: Does Patient Positioning Affect Displacement? Jonathon David Backus; David J Merriman, MD; Christopher M McAndrew, MD; Michael J Gardner, MD; William M Ricci, MD	3:40 pm Adjourn
2:55 pm Paper 102 Can Complications Of Locked Plating About The Proximal Humerus Fractures Be Minimized? The Effect Of The Learning Curve Kenneth A Egol, MD; Brandon S Shulman, BA; Crispin C Ong; David P Taormina, MS; Raj Karia; Joseph D Zuckerman, MD	
3:01 pm Paper 103 Minimally Displaced Radial Head / Neck Fractures (Mason Type-I, OTA Types 21A2.2 And 21B2.1): Are We "Over Treating" Our Patients? Brandon S Shulman, BA; James H Lee, BE; Frank Liporace; Kenneth A Egol, MD	2013 OTA
3:07 pm Discussion	

MEETING

Special Offerings and Events

2013 Guest Nation: China

The OTA is honored to welcome China as the 2013 Guest Nation. We are pleased to have the opportunity for collaboration with our Chinese colleagues, and a chance to recognize their contributions and achievements.

Representatives from the Chinese Othopaedic Trauma Society will participate in a symposium at the International Orthopaedic Trauma Care Forum on Wednesday, October 9, and will also speak at the Annual Meeting about Chinese Trauma Education.

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

International Poster Reception

Wednesday October 9, 2013 5:30 pm-6:30 pm All International attendees are welcome to attend.



William DeLong, MD, International Committee Chair

Poster Viewing Hours:

Thursday, October 10, 1:00 pm-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 35 for details.

E-Posters

Run out of time for the posters? No problem... visit the OTA website to view 2013 Annual Meeting E-Posters.

Please share the following excellent educational opportunity with your residents.

Comprehensive Fracture Course for Residents October 9–11, 2013

Fairmont Scottsdale Princess

Chair: Michael T Archdeacon, MD

Co-Chair: Kyle J Jeray, MD

"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.



Michael T Archdeacon, MD



Kyle J Jeray, MD

Women in Orthopaedic Trauma Luncheon Kathy Cramer Memorial Luncheon Friday October 11,

11:30 am – 12:30 pm Leslie J Gullahorn, MD and Laura S Phieffer, MD (Registration/ticket required)

New Member Luncheon

All new and prospective members invited.

Kathy Cramer, MD



Clifford B Jones, MD Membership Committee Chair



Exhibit Hours:

Friday October 11, 2013

11:30 am-12:30 pm

Guest Speakers: Robert A Probe, MD

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

Robert A Winguist, MD (invited)

Wednesday, October 9, 2013

Basic Science

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	Basic Science
7:30 am–8:40 am	Symposium 1: Hot Topics in Biomechanics: Hip Fracture Fixation
8:40 am-9:38 am	Paper Session 1: Biomechanically-Directed Fixation: Hot Topics
9:38 am-10:00 am	Break
10:00 am-11:10 am	Symposium 2: Inflammation
11:10 am-11:44 am	Paper Session 2: Inflammation and Bone Healing
11:44 am-12:45 pm	Lunch
12:45 pm-1:55 pm	Symposium 3: Bone Grafting
1:55 pm-3:24 pm	Paper Session 3: Bone Regeneration and Repair
3:25 pm-3:45 pm	Break
3:45 pm-4:50 pm	Symposium 4: Building Networks: The Basics
4:50 pm-5:30 pm	Paper Session 4: International Research Studies
	Grant Writing Workshop
7:30 am – 9: 45 am	Didactics: Mechanics of a Grant
9:45 am - 10:00 am	Break
10:00 am - 12:00 pm	Optimizing Your Chances of Success
12:00 pm – 1:00 pm	Lunch
1:00 pm - 2:30 pm	Grants Library
2:30 pm – 3:00 pm	Break
3:00 pm - 4:00 pm	Mock Grant Review
4:00 pm-4:30 pm	Mock Grant Review Discussion
	Orthopaedic Trauma Boot Camp
7:00 am – 10:25 am	Orthopaedic Trauma Boot Camp Presentations
10:25 am - 10:45 am	Break
10:45 am - 11:35 am	Orthopaedic Trauma Boot Camp Labs
11:35 am - 12:50 pm	Orthopaedic Trauma Boot Camp Presentations
12:50 pm - 1:30 pm	Lunch
1:30 pm - 2:50 pm	Orthopaedic Trauma Boot Camp Presentations Break
2:50 pm-3:10 pm 3:10 pm-4:30 pm	
4:30 pm	Orthopaedic Trauma Boot Camp Presentations Adjourn
4.50 pm	Coding Course
	County Course
9:00 am-12:00 pm	Evaluation and Management
12:00 pm-1:00 pm	Lunch
1:00 pm-4:00 pm	Fracture Care Surgical Coding
Ir	nternational Trauma Care Forum
7:30 am - 7:35 am	Introduction
7:35 am - 8:05 am	Symposium 1: International Comparison of
	Orthopaedic Post-Graduate Training
8:05 am-10:37 am	Paper Session 1: Fractures of the Lower Extremity
9:16 am-9:31 am	Break
10:37 am–10:57 am	Symposium 2: Training Abroad for Orthopaedic Residents
10:57 am–12:16 pm	Paper Session 2: General Management of Musculoskeletal Injury
12:16 pm-1:00 pm	Lunch
1:00 pm-2:19 pm	Paper Session 3: Fractures of the Upper Extremity and Hip
2:19 pm-3:25 pm	Symposium 3: Guest Nation
3:25 pm-3:45 pm	Break
3:45 pm-4:50 pm	Symposium 4: Building Networks: The Basics
4:50 pm-5:30 pm	Paper Session 4: International Research Studies
5:30 pm-6:30 pm	International Poster Reception

Thursday, October 10, 2013

Basic Science

7:30 am-8:40 am	Symposium 5: Infection
8:40 am-9:13 am	Paper Session 5: Musculoskeletal Infection
9:13 am-9:30 am	Break
9:30 am-10:40 am	Symposium 6: Stem Cell Therapies
10:40 am-11:14 am	Paper Session 6: Stem Cells
11:14 am	Adjourn
	Young Practitioners Forum
6:30 am-8:28 am	Young Practitioners Forum Presentations
8:28 am-8:41 am	Break
8:41 am-10:41 am	Young Practitioners Forum Presentations
0	orthopaedic Trauma Boot Camp
7:00 am-8:50 am	Orthopaedic Trauma Boot Camp Presentations
8:50 am-9:00 am	Break
9:00 am-9:50 am	Orthopaedic Trauma Boot Camp Labs
9:50 am-11:00 am	Orthopaedic Trauma Boot Camp Presentations
	Industry Lunch Symposia
11:00 am–12:45 pm	Arthrex; Orthofix; Zimmer Trauma; DePuy Synthes Trauma; Pacira Pharmaceuticals, Inc. (Box lunch provided.)
	Annual Meeting
1:00 pm-1:20 pm	Welcome and Donor Awards
1:20 pm-2:50 pm	Symposium 1: Evaluating Outcomes in the 20th Century
2:50 pm-3:20 pm	Break
3:20 pm-4:46 pm	Paper Session 1: Polytrauma / Pelvis / Post-Traumatic Reconstruction
4:46 pm-5:16 pm	President's Message
5:16 pm-6:16 pm	OTA Business Meeting
6:30 pm-8:30 pm	OTA Welcome Reception



6:30 am-7:45 am	Case Presentations and Skills Labs
7:00 am-7:45 am	Poster Tour
8:00 am-8:55 am	Paper Session 2: Geriatric
8:55 am-9:15 am	Guest Nation Talks
9:15 am-9:45 am	Border Lecture: Bruce D Browner
9:45 am-10:15 am	Break
10:15 am-11:45 am	Mini-Symposia
10:15 am-11:24 am	Paper Session 3: Hip / Femur
11:24 am-12:30 pm	Lunch (Women in Orthopaedic Trauma Luncheon and New Member Luncheon)
11:35 am-12:20 pm	Poster Tours
12:30 pm-2:00 pm	Mini-Symposia and Skills Labs
12:30 pm-1:40 pm	Symposium 2: Assessment of Fracture Repair
1:40 pm-2:04 pm	Paper Session 4: Basic Science
2:04 pm-2:30 pm	Break
2:30 pm-4:00 pm	Mini-Symposia
2:30 pm-4:07 pm	Paper Session 5: Knee/Tibia
4:07 pm-4:53 pm	Paper Session 6: Pediatrics and Spine
5:30 pm-6:30 pm	Military Reception

Meeting at a Glance

Saturday, October 12, 2013

6:30 am-7:45 am	Case Presentations and Skills Lab
7:00 am-7:45 am	Poster Tour
8:00 am–9:30 am	Symposium 3: The Operative Versus Non-Operative Treatment of Common Upper Extremity Injuries: What does Evidence-Based Medicine Tell Us?
9:30 am-10:00 am	Break
10:00 am-11:30 am	Mini-Symposia
10:00 am-11:26 am	Paper Session 7: Foot and Ankle
11:26 am-12:30 pm	Lunch
11:40 am-12:25 pm	Poster Tours
12:30 pm-2:00 pm	Mini-Symposia
12:30 pm-1:56 pm	Paper Session 8: Topics of General Interest
1:56 pm-2:26 pm	Break
2:26 pm-3:35 pm	Paper Session 9: Upper Extremity



Orthopaedic Jrauma for NPs and PAs

Michael T Archdeacon, MD; Clifford B Jones, MD; Daniel J Coll, MHS, PA-C; Keith Zurmehly, PA-C, Program Chairs

Target Audience

1:00 g

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 20.25 hours of AAPA Category 1 CME Credit to the program entitled Orthopaedic Trauma for NP's and PA's provided by the Orthopaedic Trauma Association.

Forum Objectives

- · 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.
- 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 10, 2013

om-2:30 pm	The Polytraumatized Patient
1:00 pm	Moderator: Raymond D Wright, Jr, MD Assessing the Multiply Injured Patient - The Orthopaedic ABC's
1:15 pm	Staged Treatment and Provisional Stabilization
1:30 pm	Pelvic Ring Injuries - Evaluation, X-Ray Sheets and Binders
1:45 pm	Compartment Syndrome - What To Do
2:00 pm	Open Fractures - Classification, Debridement, Antibiotics and Treatment
2:15 pm	Questions and Case Discussions
2:45 pm	Break and Transition to Labs
3:00 pm	Skills Lab
	2 Labs with 45 minute rotating sessions
3:00 pm	Spanning Knee Ex Fix Theodore Toan Le, MD Faculty, Lab Leader
3:00 pm	Spanning Ankle Ex Fix Anna N Miller, MD Faculty, Lab Leader

4:30 pm-4:45 pm Break and Transition to President's Message



4:46 pm – 5:16 pm

President's Messaae

Andrew H Schmidt, MD

President's Message: Standardization and Systems: Steps We Must Take (Together)

Friday, October 11, 2013

6:30 am-7:45 am Sessions PA/NP's welcome to attend 6:30 am Case Presentation The Challenging Hip Fracture: Pearls and **Pitfalls** Amer J Mirza. MD: Darin Freiss. MD: Erik Kubiak, MD; Edward A Perez, MD 6:30 am Case Presentation Proximal Humerus ORIF – Advances in Fixation and Augmentation Michael J Gardner, MD; Samir Mehta, MD; Clifford B Jones, MD 6:30 am Case Presentation 2 Minutes / 2 Slides: Ankle Injuries Technical **Tips and Tricks** Pierre Guy, MD, MBA; Kenneth A Egol, MD; Timothy O White, MD; David W Sanders, MD; Paul Tornetta. III. MD 6:30 am Case Presentation **Distal Humerus Fractures: Tips and Tricks** Utku Kandemir, MD: Michael D McKee, MD: Milan K Sen, MD; John T Gorczyca, MD 6:30 am Skills Lab (SL1) Fixation of Clavicle Fractures Lab Leader: Gregory M Osgood, MD Daren P Forward, MD; Julie Keller, MD; CDR Joseph E Strauss, DO; Erik Hasenboehler, MD; David B Weiss, MD; Emil H Schemitsch, MD 6:30 am Skills Lab (SL2) ORIF Distal Tibia and Fibula Fractures

Lab Leader: Matt L Graves, MD Faculty TBD

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Gerard P Slobogean, MD

Moderator: Christina L Boulton, MD The Isolated Humerus: Not All Belong in	1
8:00 am Femoral Neck Fractures - Fix It Or Replace It 8:15 am Subtrach / Intertrach - Plates and ORIE Lisa K Cannada, MD; William T Obremske	
Clifford B. Jones MD	y, wd,
8:30 am Subtroch / Intertroch - IM Nails 6:30 am Skills Lab	
8:45 am Femoral Shaft Fractures - Entry Portals (SL6) ORIF Distal Radius Fractures	
9:00 am Break and Transition to Border Lecture Lab Leader: Melvin P Rosenwasser, MD	
9:15 am Border Lecture Michael D McKee, MD; Jesse B Jupiter, MD	
Thomas F Varecka, MD; R Kumar Kadiyala,	MD
8:00 am – 10:30 am Upper Extremity Fractures Moderator: John D Wyrick, MD	
Border Lecture 8:00 am Clavicle Fractures - When To Fix Them	
8:15 am Provinal Humanus Fractures - ORIE Or II	M Nail -
Bruce D Browner, MD Which Is Better	
Skeletal Trauma: Global Conundrum 8:30 am Humeral Shaft Fractures - Approaches a Techniques Techniques	nd
9:45 am Break and Transition to PA/NP Session 8:45 am Supracondylar Humerus Fractures - Reduction and Fixation Options	
10:00 am – 11:15 am Fractures About The Hip and Knee II	
Moderator: Christina L Boulton, MD 10:00 cm Supresentations - What Are The Issue	S
10:00 am Supracondylar Femur - Tips and Tricks For Reduction and Fixation 9:30 am Olecranon Fractures - Plates,	
10:15 cm. Tibial Platacu Fractures One Incision Versus	
Two Incisions - When?	?
10:30 am Tibial Shaft Fractures - Transpatellar	
Or Suprapatellar Entry 10:30 am - 10:45 am Transition to Labs	
10:45 am Questions and Case Discussions 11.15 am Skills Lab 2 Labs with 45 minute rotating sessions	
11:15 am – 12:30 pm Lunch Break Clavicle ORIF	
12:30 pm – 2:00 pm Skills Lab Jaimo Ahn, MD, PhD;	
2 Labs with 45 minute rotating sessions Faculty, Lab Leader	
Distal Femoral Locked Plating Distal Radius Volar Plating	
Christopher M McAndrew, MD Gregory L DeSilva, MD Faculty, Lab Leader Faculty Lab Leader	
2:00 pm – 2:15 pm Break and Transition to PA/NP Session 12:30 pm – 2:00 pm –	
2:15 pm-3:45 pm Expert Panel and Case Discussions - 12:30 pm-2:00 pm Mini-Symposium	
Foot and Ankle Management of Pediatric Trauma	
Moderator: Ryan P Finnan, MD Ankle, Pilon, Calcaneus, Talus, Lisfranc, David A Podeszwa, MD; Christine A Ho, MI	п <i>.</i>
Ankle, Pilon, Calcaneus, Talus, Lisfranc, Crush Foot, Etc. David A Podeszwa, MD; Christine A Ho, ML Anthony I Riccio, MD; Lane Wimberly, MD	
3:45 pm – 4:00 pm Break 12:30 pm – 2:00 pm Mini-Symposium	
4:00 pm – 5:30 pm Expert Panel and Case Discussions - Fracture Rib Fracture Fixation in 2013: Lunatic	Fringe
	_
Complications or State of the Art?	-
Complications or State of the Art? Moderator: Hassan R Mir, MD Michael D McKee, MD; Timothy J Bray, ML Wound Infection, Osteomyelitis, Malunion, Noloofar Dehghan, MD; Aaron Nauth, MD;	

Saturday, October 12, 2013

6:30 am-7:45 am Sessions 6:30 am Case Presentation Surgical Treatment of Pediatric Femur Fractures, Current Concepts Enes Kanlic, MD, PhD; Amr A Abdelgawad, MD; J Eric Gordon, MD; Marc F Swiontkowski, MD 6:30 am Case Presentation Mangaement of Pelvic and Acetabulum Fractures Paul Tornetta, III, MD; Thomas F Higgins, MD; Robert V O'Toole, MD; Philip R Wolinsky, MD

Industry Lunch Symposia

Thursday, October 10, 2013

11:00 am-12:45 pm IS1: Arthrex

Reduced and Unbreakable: Achieving the best with the Arthrex TightRope®

Surgical solutions for fractures and soft tissue injuries of the ankle and clavicle including: the Knotless Ankle TightRope, Ankle Fracture Management System, Clavicle Fracture Management System, and the AC TightRope.

11:00 am-12:45 pm IS2: OrthoFix

The Management of Traumatic Bone Defects

The management of bone defects caused by trauma and nonunion continues to represent a substantial clinical challenge in the management of orthopaedic trauma patients. A variety of treatment options will be discussed during this industry session sponsored by Orthofix Orthopedics. Please join us for a global perspective on the complex management of traumatic bone defects including the Masquelet technique, the use of monolateral and circular fixation, as well as, the use of biologics.

11:00 am-12:45 pm IS4: Depuy Synthes Trauma Peri-Prosthetic Fracture Treatment

11:00 am-12:45 pm IS6: Pacira Pharmaceuticals, Inc.

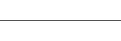
Peri-Operative Pain Management in the Orthopaedic Trauma Patient

Dr. Neil MacIntyre is a fellowship-trained orthopedic trauma surgeon at OrthoWilmington in Wilmington, North Carolina. Dr. MacIntyre specializes in the treatment of complex musculoskeletal injuries. He also specializes in the care of non-unions, mal-unions and complex fracture conditions. Dr. MacIntyre completed fellowship training in orthopedic trauma surgery at Hospital for Special Surgery in New York with Dr. David Helfet. He has completed advanced coursework in Upper Extremity Management, the evaluation, preservation and replacement of Young Adult Hip Disease, Pelvic and Acetabular Fracture conditions as well as Advanced Trauma studies.

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







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Case Presentations

Friday, October 11, 2013

6:30 am-7:45 am	Orthopaedic Trauma Coding Moderator: J Scott Broderick, MD <i>William R Creevy, MD</i>	•
	Updates in ICD-9 and CPT codes will be discussed. Case-based examples will be presented for both common and complex fracture cases. Participants are encourage to bring case examples for discussion.	•
6:30 am-7:45 am	The Challenging Hip Fracture: Pearls and Pitfalls Moderator: Amer J Mirza, MD Darin Freiss, MD; Erik Kubiak, MD; Edward A Perez, MD This case presentation session is focused on delving deeper into the challenges that hip fractures can present. Specifically our session will highlight some problem patterns, and then present strategies to avoid trouble. This session is geared towards a broad audience, with topics relevant to both a community/generalist practice and a busy academic traumatology practice, at both an attending and resident/fellow level.	
6:30 am-7:45 am	Proximal Humerus ORIF - Advances in Fixation and Augmentation Moderator: Clifford B Jones, MD; <i>Michael J Gardner, MD; Samir Mehta, MD</i> Proximal humeral fractures can be difficult to reduce, and to obtain and maintain stable fixation to achieve a good functional outcome. This session will highlight newer surgical approaches, reduction techniques, and implant and augmentation applications to minimize complications.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
6:30 am-7:45 am	2 Minutes/2 Slides: Ankle Injuries Technical Tips and Tricks Moderator: Pierre Guy, MD, MBA <i>Kenneth A Egol, MD; Timothy O White, MD;</i> <i>David W Sanders, MD; Paul Tornetta, III, MD</i> 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 with ankle injuries (fractures, ligamentous injuries). Each presentation will be followed by a short discussion.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
6:30 am-7:45 am	Distal Humerus Fractures: Tips and Tricks Moderator: Utku Kandemir, MD Michael D McKee, MD; Milan K Sen, MD; John T Gorczyca, 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.

Saturday, October 12, 2013

6:30 am-7:45 am	Surgical Treatment of Pediatric Femur Fractures,
	Current Concepts

Moderator: Enes Kanlic, MD, PhD Amr A Abdelgawad, MD; J Eric Gordon, MD; Marc F Swiontkowski, MD

Pediatric femur fractures (proximal, shaft and distal) are common injuries often requiring urgent attention by orthopaedic surgeon on call. Current concepts of tactics and techniques in surgical treatment of growing skeleton will be discussed. Special focus is on intracapsular hip fractures, submuscular bridge plating (videos), intramedullary lateral entry rigid and elastic nailing.

6:30 am-7:45 am Mangaement of Pelvic and Acetabulum Fractures Moderator: Paul Tornetta, III, MD Thomas F Higgins, MD; Robert V O'Toole, MD; Philip R Wolinsky, MD

Cases will be presented that highlight the initial management, operative treatment options, and expected outcomes of pelvic and acetabulum fractures. An expert panel will provide varying opinions on the management of these complex injuries.

6:30 am-7:45 am The Isolated Humerus: Not All Belong in the Sarmiento

Moderator: Lisa K Cannada, MD

William T Obremskey, MD; Clifford B Jones, MD Isolated humeral shaft fractures are controversial. The standard treatment used to be non operative. This has been shown to have increased rates of malunion and nonunion. Through case presentations with strong consideration of patient variables, treatment strategies for the isolated humeral shaft will be discussed.



<u>Mini-Symposia</u>

Friday, October 11, 2013

10:15 am-11:45 am How to Use the OTA Case Database at Your Institution Moderator: Julie Agel, ATC This symposium will review the OTA sponsored orthopedic 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. 10:15 am - 11:45 am Femoral Neck Fractures in Young Adults: Why are We Not "Fixing" These Better? Moderator: Cory A Collinge, MD Michael T Archdeacon, MD; Bradley R Merk, MD; Frank Liporace, MD The purpose of this symposium is to review the treatment of femoral neck fractures in young adults (<50) with an emphasis on fixation and failed treatment. Pathogenesis of nonunion, malunion, and fixation failure will be discussed in the context of reduction and implant selection. Basic principles of fracture treatment will be reviewed and whether these apply to these fractures or not. 10:15 am - 11:45 am Traumatic Limb Injuries Requiring Amputation: A Multidisciplinary Approach Using The Osteomyoplastic (Ertl) Technique Moderator: William J Ertl, MD Jonathan D Day, CPO; Carol P Dionne, PT, DPT, PhD, OCS; Jan Ertl, MD James R Ficke, MD Osteomyoplastic amputation, commonly known as the "Ertl approach", is an innovative surgical approach which, when combined with comprehensive and interdisciplinary rehabilitation, aggressively addresses the complex issues which surround comprehensive care of those with amputation. The purpose of this course is to inform and update participants on the interdisciplinary management of osteomyoplastic amputation. The following topics will be addressed: selected surgical approaches of primary amputation and revision; comprehensive and individualized rehabilitation for optimal functional restoration; prosthetic management specific to this approach, the amputee perspective; research update. This is a pertinent and important emerging practice for all practitioners. 12:30 pm-2:00 pm **Contemporary Debates in Orthopaedic Trauma**

Moderator: Michael Suk, MD, JD Samuel G Agnew, MD; Clifford B Jones, MD; A Alex Jahangir, MD; Theodore Toan Le, MD; Samir Mehta, MD; Manish K Sethi, MD; Philip R Wolinsky, MD; Bruce D Browner, MD; Lisa K Cannada, MD; Douglas W Lundy, MD This symposium will cover the topics of Certification of Trauma Centers and Fellowship Training as a Marker of Quality in "Lincoln-Douglas" style debate format. Come hear the OTA Health Policy Committee members debate these important topics, and be prepared to share your opinions during allotted time for open mic. 12:30 pm – 2:00 pm Financial Implications of Increasing ACS Trauma Level: Where does Orthopaedic Trauma Surgeon Fit into the Equation?

Moderator: Timothy J Bray, MD; Peter Althausen, MD; Austin Hill, MD, MPH; Roy Sanders, MD; Mike Williams, MBA

Nationally there has been an increase in the number of trauma centers since 2005. Trauma surgeons are typically excluded from the decision-making process and are therefore less aware of the financial costs and benefits to establishing a trauma center or increasing ACS trauma level status. The purpose of this symposium is to discuss how profitability, market share, halo effect, the affordable care act, and a rapidly increasing number of trauma trained orthopaedic surgeons contribute to the increase in trauma centers and the decentralization of trauma care. Finally, there will be a discussion in ways for the surgeon to improve quality care in a fiscally sustainable manner within trauma centers and the financial impact of the Affordable Care Act on trauma care.

12:30 pm – 2:00 pm Introduction to ICD-10 for Orthopaedic Traumatologists

Moderator: M Bradford Henley, MD

William R Creevy, MD; J Scott Broderick, MD; Attendees will learn about the enhanced requirements of ICD-10-CM for physician documentation of musculoskeletal trauma diagnoses. Insight into the specific requirements to substantiate medical necessity and obtain reimbursement for orthopaedic operative procedures, inpatient and outpatient services will be provided. Further, participants will understand the benefits, rationale and requirements for conversion to ICD-10-CM and ICD-10-PCS.

2:30 pm-4:00 pm Technical Tips in 3 and 4-Part Proximal Humerus ORIF

> Moderator: Utku Kandemir, MD John T Gorczyca, MD; Milan K Sen, MD; Michael J Gardner, MD; Michael D McKee, MD While open reduction and internal fixation is one of the most common type of treatment when surgery is indicated in proximal humerus fractures, it is technically challenging and prone to complications associated with the surgical technique.

2:30 pm-4:00 pm How to Establish and Run a Fragility Fracture Program

> **Moderator:** James A Goulet, MD *Clifford B Jones, MD; Kyle J Jeray, MD; Joseph M Lane, MD; Marc F Swiontkowski, MD* Until recently, most orthopaedic surgeons have not had the inclination or the means to adequately address the metabolic bone needs of fracture patients with poor bone quality at high risk for recurrent fragility fractures. Recently, however, highly cost effective programs have been developed that greatly diminish the risk of fracture recurrence. This mini-symposium will offer registrants a pathway to establishing and running a fragility fracture clinic as a practice adjunct, without sacrificing the quality or focus of their orthopaedic trauma practices.

2:30 pm-4:00 pm Healthcare Systems and Trauma: A 360 Degree World View for the Orthopaedic Trauma Surgeon

Moderator: Manish K Sethi, MD James R Ficke, MD; A Alex Jahangir, MD

Samir Mehta, MD As the United States finds itself strapped with 16.4 trillion dollars of debt, no issue will be of more importance to the future generation of America's leaders than a sound understanding of healthcare. This symposium seeks to develop an understanding of the evolution of healthcare reform in America, from President Johnson's creation of Medicare in 1965 to the dramatic changes in healthcare enacted in 2010.The underlying premise of the symposium is that one must reflect upon the evolution of American healthcare in order to understand potential future directions of change.

Saturday, October 12, 2013

10:00 am-11:30 am What Could Go Wrong Did: Getting Out of Trouble Moderator: Lisa K Cannada, MD Brian H Mullis, MD; Frank A Liporace, MD; David C Templeman, MD It's Friday afternoon (Fill in the blank: or 6 pm and vou have a commitment or Sunday morning and you have somewhere). No sweat. The simple fracture is all that is between you and freedom. Then it falls apart. What to do to avoid failure in a "simple fracture case" 10:00 am-11:30 am Geriatric Pelvis and Acetabular Fractures: We Should Treat Them Like Hip Fractures Moderator: Brett D Crist, MD Michael T Archdeacon, MD; Steven A Olson, MD; Stephen A Sems, MD; Cory A Collinge, MD Pelvic ring and acetabular fractures in the geriatric patient can affect function and morbidity as significantly as hip fractures and should be considered as important. This break-out session will demonstrate the impact these fractures have on geriatric patients and will review operative indications and techniques in a lecture, debate, and case-based format. 10:00 am-11:30 am Malunion/Nonunion Management: What I Wish Someone Had Told Me Before I Started Doing These Cases Moderator: Samir Mehta, MD David P Barei, MD; Gregory J Della Rocca, MD, PhD; J Spence Reid, MD Malunion and nonunion management can be

very challenging. Preoperative assessment and preoperative planning are critical aspects to a successful outcome. Understanding the limitations of surgery are also important when counseling patients. femoral neck fractures, and complex physeal fractures of the distal femur and proximal tibia. Potential complications and management strategies of the complications will also be reviewed.

12:30 pm – 2:00 pm Rib Fracture Fixation in 2013: Lunatic Fringe or State of the Art?

Moderator: Michael D McKee, MD Peter Althausen, MD; Noloofar Dehghan, MD; Aaron Nauth, MD; Morad Hameed, MD; Emil H Schemitsch, MD; Gerard P Slobogean, MD Rib fracture fixation in the setting of the flail or unstable chest wall in polytrauma patients is gaining in popularity. Although it is a non-traditional area of fixation, there is some preliminary information that stabilization of flail chest injuries may significantly decrease patient morbidity and is of interest to practicing orthopaedic surgeons. This symposium will examine the history, techniques, current status, and future of rib fracture fixation.

12:30 pm-2:00 pm Orthopaedic Surgeons Taking Ownership of

Extremity Trauma: Soft Tissue Coverage Moderator: Christopher M McAndrew, MD;

Daniel A Osei, MD; Martin I Boyer, MD; Duretti Fufa, MD; David A Volgas, MD The evolution of surgical specialties has resulted in a select number of surgeons who develop an understanding of soft tissue trauma and extremity anatomy, who are also available to treat injuries in a timely manner. Orthopaedic surgeons are best positioned to develop the skill-sets to treat severe extremity trauma from debridement through stabilization AND soft-tissue coverage. Collaboration amongst orthopaedic surgeons who specialize in traumatology and micro-vascular surgery can greatly benefit the patient and the health care system. Discussion of the principles of soft tissue coverage and a model for developing a "single-specialty system" for lower extremity trauma will be presented.



Skills Labs

Friday, October 11, 2013

6:30 am-7:45 am (SL1) Fixation of Clavicle Fractures

Lab Leader: Gregory M Osgood, MD Daren P Forward, MD; Julie Keller, MD; CDR Joseph E Strauss, DO; Erik Hasenboehler, MD; David B Weiss, MD; Emil H Schemitsch, MD Clavicle Fixation: Who, Why, How? Over the last decade, evidence based medicine has supported a trend toward surgical fixation of displaced clavicle fractures in young, active individuals. Now, take the opportunity to share experiences and learn the pearls and pitfalls in clavicle fixation from the expert. Greg Osgood, MD, will review the indications and operative techniques for displaced fractures of the clavicle. You will also have the opportunity to have hands-on workshop training during the session to practice different plating techniques and discuss approaches to the clavicle. This session will increase your clinical knowledge and help you in your daily practice.

6:30 am-7:45 am (SL2) ORIF Distal Tibia and Fibula Fractures Lab Leader: Matt L Graves, MD TBD

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.

(SL3) SIGN 12:30 pm-2:00 pm

Lab Leader: Lewis G Zirkle, Jr, MD Innocent Chiedu Ikem (Inno Ikem), MD Billy Thomson Hoanga, MD; Robert S Schultz, MD; Paul Spencer Whiting, MD; Kyle R Stephens, DO; Frederic B Wilson, Jr, MD; John W Staeheli, MD; Prof. Shabab-uddin, MD; Faseeh Shahab, 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 dital 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 stabiliation of tibia, femur and humerus fractures. Table instructors will include surgeons who are OTA-SIGN Scholars.

12:30 pm-2:00 pm (SL4) IM Fixation of Proximal Tibial Fractures

Lab Leader: Roy Sanders, MD Anthony S Rhorer, MD; Paul Tornetta, III, MD; Joshua Langford, MD; William M Ricci, MD This lab will cover options for intra-medullary fixation of proximal tibial metaphyseal fractures, including flexed and extended position, and supra-patellar nailing. Our panel of experts will review adjunctive techniques for obtaining reduction, including blocking screws, reduction plates, distractors and positioning.

12:30 pm-2:00 pm (SL5) Knee or Ankle Spanning Ex-Fix Lab Leader: Edward A Perez, MD Matthew I Rudloff, MD; Robert D Zura, MD; Amer J Mirza. MD: Hassan R Mir. MD This lab will demonstrate the principles for, and application of, temporizing spanning external fixation - damage control orthopedics. The practical exercise will demonstrate the proper technique and surgical pearls to utilize within the clinical setting.

Saturday, October 12, 2013

6:30 am-7:45 am (SL6) ORIF Distal Radius Fractures Lab Leader: Melvin P Rosenwasser, MD Michael D McKee, MD; Thomas F Varecka, MD; R Kumar Kadiyala, 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.



Poster Jours

Friday, October 11, 2013

7:00 am-7:45 am (P1) Foot Ankle Pilon Clifford B Jones, MD

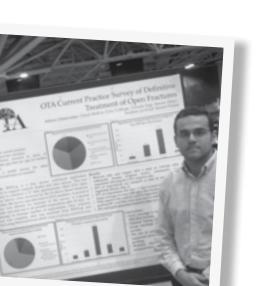
- 11:35 am-12:20 pm (P2) Upper Extremity/Wrist/Hand Michael D McKee, MD
- 11:35 am-12:20 pm (P3) Pelvis and Acetabulum Paul Tornetta, III, MD

Saturday, October 12, 2013

7:00 am-7:45 am (P4) Hip and Femur J Tracy Watson, MD

11:40 am-12:25 pm **(P5)** Geriatric *William T Obremskey, MD, MPH*

11:40 am-12:25 pm (P6) General Interest Lisa K Cannada, MD





Don't miss an opportunity for a guided poster tour. Registration is required and space is limited.

Poster Viewing Hours:

Thursday, 10/10, 1:00 pm-Saturday, 10/12, 1:30 pm

Registration and Additional Information

Disclaimer

The material presented at the 29th 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

Things are different in the desert. The sky is bigger. The stars are brighter. The sunsets stop you in your tracks.

It's a feeling that can't be conjured, landscaped or kindled with twinkling bulbs. John Ford knew that. So did Frank Lloyd Wright. Come to Greater Phoenix and you'll understand, too. America's sixth-largest city still has real cowboys and rugged mountains and the kind of cactus most people see only in cartoons. Phoenix is the gateway to the Grand Canyon, and its history is a testament to the spirit of puebloans, ranchers, miners and visionaries.

Projected against this rich backdrop is a panorama of urban sophistication: Resorts and spas that drop jaws and soothe souls. Stadiums and arenas worthy of the world's biggest sports spectacles. Restaurants with inspired cuisine and inspiring patio views. Golf courses that beckon players the year round. Shopping centers as stylish and eclectic as the fashions they house.

This is Greater Phoenix — Arizona's urban heart and America's sunniest metropolis.

Accommodations

JW Marriott Desert Ridge Room Rates: \$335 USD Reservation Deadline: September 10

Fairmont Princess

Room Rate: \$264 USD Reservation Deadline: September 10

Please make hotel reservations online by visiting www.ota.org.

The JW Marriott is the headquarter hotel, where all Annual Meeting events will take place. The Residents Course will take place at the Fairmont, and overflow housing is available at the Fairmont.

Continuous looping shuttle service will be available between hotels.

Ground Transportation to JW Marriott

This hotel does not provide shuttle service.

From Phoenix Sky Harbor International Airport - PHX

Driving directions:

- Take 24th Street Exit from Phoenix Sky Harbor Int'l Airport and follow signs to 51 North
- Stay on 51 North until it ends at Loop 101
- Exit 101 East and stay in right lane to exit Tatum Blvd
- Turn left onto Tatum Blvd. You'll pass Desert Ridge Marketplace on right.
- Turn right at Deer Valley Road.
- Turn left at Marriott Drive.

Alternate transportation:

- SuperShuttle; fee: \$23 USD (one way); reservation required
- Estimated taxi fare: \$65 USD (one way)

From Scottsdale Municipal Airport - SCF

Visit SCF airport website

Hotel direction: 6 mile(s) NW

Alternate transportation:

- Super Shuttle; fee: \$21 USD (one way) reservation required
- Estimated taxi fare: \$20 USD (one way)



Ground Transportation to Fairmont Princess

From Phoenix Sky Harbor International Airport

Driving directions:

- Follow Sky Harbor Blvd. to 'East Cities/Exit 202'.
- Continue to Hwy 202. Take Hwy 202 East to Hwy 101 Loop North.
- Follow Hwy 101 North and exit on Scottsdale Road.
- Turn left (south) on Scottsdale Road and continue to Princess Drive.
- Turn left (east) on Princess Drive, follow signs to the Fairmont Scottsdale Princess. (Approx. .03 miles)
- Lobby entrance will be on your right.
- The hotel has three parking lots, one for each section of the hotel. Valet parking: From \$25.00 USD for overnight, including in-and-out privileges Self parking: \$10.00 USD per night

Hybrid drivers enjoy complimentary overnight valet and self parking

Payment

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

OTA 6664 Eagle Way Chicago IL 60678-1066, USA

• Registrations sent via Courier must be sent to the OTA staff office: 6300 N. River Road, Suite 727, Rosemont, IL 60018.

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.
- No refunds after October 1, 2013.

Registration Information

- Register online at www.ota.org using your OTA username. E-mail ota@aaos.org for your OTA username.
- Postmarked registrations after September 3 will not be processed; on-site registrations will require an additional \$100 USD late fee.
 On-line registrations prior to September 10 will not incur the \$100 USD late fee.
- All pre-registrations will receive confirmation by E-mail. Badges will be mailed to all those in the US and Canada who register by September 10. International attendees need to pick up their badges on-site.
- The pre-registration form may be photocopied as needed.



On-site Registration

Tuesday: 4:00 pm - 6:00 pm

Annual Meeting Posters

Saturday outside of the General Session room.

Skills Labs, Poster Tours and

Symposia - register early. Tickets are required.

Sessions FILL QUICKLY and may not be available to

Choose the Sessions in order of your preference.

Industry Lunch Symposia

on-site registrants.

Registrations postmarked after September 3 will be accepted

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

• Ensure your space in Skills Labs, Poster Tours and Industry Lunch

on-site plus an additional \$100 USD late fee.

• On-site Registration will be available as follows:

Wednesday-Saturday: 6:15 am - 5:00 pm

Exhibitors must register through the OTA office.

In the Saguaro Foyer (All Pre-Meeting Events)

Pre-registration deadlines: September 3, 2013 (mail) September 10, 2013 (online)

2013 OTA ANNUAL MEETING Checklist

Completed the Meeting Registration Form?

- Indicated your preferences for Industry Lunch Symposia, Skills Labs and Guided Poster Tours (page 39)
- □ Included your Payment with the Registration Form?
- Made your hotel reservation with the JW Marriott Desert Ridge or Fairmont Scottsdale online at www.ota.org or by calling 877–632–8165?

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:

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

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

OPA ORTHOPAEDIC —TRAUMA— ASSOCIATION

For More Information

Call 847–698–1631, E-mail ota@aaos.org or visit the OTA web site, www.ota.org.

Registration faxed or post-marked by September 3, 2013. Register on-line by September 10, 2013.

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 or implied warranties on any use by third parties.

Registration Form

PLEASE PROVIDE ALL REQUESTED INFORMATION.

FORMS RECEIVED WITHOUT ALL INFORMATION WILL NOT BE PROCESSED.

PERSONAL INFORMATION (PLEASE PRINT CLEARLY)

FIRST NAME	FAMI	FAMILY (LAST) NAME						DEGREE		
ADDRESS Home Office Address										
CITY ()	STATE/F (PROVINCE)			POSTAL C	ODE		COUNTRY		
TELEPHONE Home Office Cell	FAX				e-mail 🗆	Office 🗌 Persor	nal			
ANNUAL MEETING REGIST	RATION FEES U.S. F	UNDS			Ра	ostmarked by: S	September	3, 2013. Fees increa	sed \$100 USD on site.	
 OTA Member (includes Candidate N OTA International or Candidate (Pos Non-member Medical Resident Non-member or N Please provide Residency Program 	st-Fellowship) Member								\$250.00 USD \$325.00 USD \$725.00 USD \$425.00 USD	
WEDNESDAY, OCTOBER 9								Non-member	OTA Member	
Basic Science Focus Forum Orthopaedic Trauma Boot Camp Grant Writing Workshop International Trauma Care Forum International Reception Masters Level Trauma Coding Cour Masters Level Trauma Coding Cour ALL-Inclusive Pre-Meeting Badge for								\$275.00 USD \$275.00 USD \$250.00 USD \$50.00 USD FREE \$225.00 USD	\$250.00 USD \$250.00 USD \$225.00 USD \$50.00 USD FREE \$200.00 USD \$300.00 USD	
THURSDAY, OCTOBER 10										
Young Practitioners Forum Orthopaedic Trauma for NPs and PA Welcome Reception Guest Reception Ticket(s)	As 10/10/13-10/12/13			# of per	sons attendin	■ X \$65.00) USD	\$50.00 USD \$350.00 USD FREE	\$50.00 USD \$250.00 USD FREE	
FRIDAY, OCTOBER 11							·	•		
 Women in Orthopaedic Trauma Lun New Member Luncheon Military Reception 	icheon					TOI	FAL \$	FREE FREE FREE	FREE FREE FREE	
RESERVED SESSIONS TIC	KETS REQUIRED		1st Cho	ice # (On	ly check o	ne)		2nd Choice # (On	ly check one)	
Industry Lunch Symposia Thursday Lunch 11:00	am–12:45 pm	□ IS1				□ IS5 □ IS6	□ IS1] IS4 □ IS6	
Friday Lunch11:35Saturday Morning7:00 a	um—7:45 am am—12:20 pm um—7:45 am am—12:35 pm	□ #P1 □ #P2 □ #P4 □ #P5						□ #P3 □ #P6		
Friday6:30 aFriday12:30	ım–7:45 am pm–2:00 pm m–7:45 am	□ #S1 □ #S3 □ #S6		□ #S5				□ #S2 □ #S4 □ #S5		

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 1, 2013. Make checks payable to: Orthopaedic Trauma Association, 6664 Eagle Way, Chicago, IL 60678-1066, USA

REGISTER ON-SITE AFTER SEPTEMBER 10, 2013 - AN ADDITIONAL \$100 USD FEE WILL APPLY. All company representatives must use Exhibitor Registration Form (available from OTA staff).





Member Services

- Take advantage of the many OTA member services...
- JOT SubscriptionMeeting 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
- Mulit-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







www.ota.org



ORTHOPAEDIC — TRAUMA — ASSOCIATION

2013-2014 OTA Events

WEBINAR: PERIPROSTHETIC FEMORAL SHAFT AND SUPRACONDYLAR FEMUR FRACTURES - GENERAL PRINCIPLES AND ROLE FOR LOCKED PLATES AND REVISION ARTHROPLASTY (REGISTER ONLINE)

September 24, 2013

MEMBERSHIP APPLICATION DEADLINE (Apply Online)

November 1, 2013

ACUTE CARE ORTHOPAEDIC TRAUMA COURSE

November 2, 2013 Atlanta, GA

WEBINAR: COMMON UPPER EXTREMITY FRACTURES: THE WHEN AND HOW OF SURGICAL MANAGEMENT (Register Online)

November 19, 2013

ADVANCED TRAUMA TECHNIQUES COURSE FOR RESIDENTS

January 10–11, 2014 *Texas*

OTA SPECIALTY DAY Saturday, March 15, 2014

New Orleans, LA

OTA FELLOWS COURSE

April 3–6, 2014 Boston, Massachusetts

OTA SPRING RESIDENT'S COMPREHENSIVE FRACTURE COURSE 2.0

April 16–19, 2014 Lombard, Illinois

AAOS/OTA JOINT TRAUMA UPDATE COURSE

May 1–3, 2014 *Orlando, Florida*

30TH OTA ANNUAL MEETING October 15–18, 2014

Tampa, Florida

2013 WEBINARS *Visit the OTA or AAOS website for details.*

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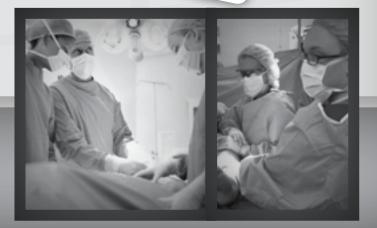


Application deadlines:NOVEMBER 1, 2013MAY 1, 2014

Apply online at www.ota.org.

ORTHOPAEDIC — TRAUMA — ASSOCIATION

Check www.ota.org for details.



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* Educational Opportunities include Category 1 CME™ credits



ORTHOPAEDIC — TRAUMA —

ASSOCIATION 6300 N. River Road, Suite 727 Rosemont, IL 60018-42c26 USA



JW Marriott Desert Ridge PHOENIX, AZ

Register Now

for the 2013 OTA Annual Meeting at www.ota.org

Pre-registration Deadline: Mail: September 3, 2013 Online: September 10, 2013

Hotel Deadline: September 16, 2013



19+ AMA PRA Category 1 Credits™ for attending the Annual Meeting.

Additional credits if you attend premeeting events:

Basic Science Focus Forum (10.25 CME) Masters Level Trauma Coding (6 CME) International Trauma Care Forum (8.5CME) Orthopaedic Trauma Boot Camp (12 CME) Young Practitioners Forum (4 CME) Grant Writing Workshop (8.5 CME) NP/PA Course (20.25 AAPA Category 1 CME Credits)

