

2015 ANNUAL MEETING October 7-10, 2015

Pre-meeting Courses

Basic Science Focus Forum International Orthopaedic Trauma Care Forum ICD-10 Coding for Trauma Surgeons Residents Comprehensive Fracture Course

Orthopaedic Trauma Boot Camp Orthopaedic Trauma for PAs & NPs Young Practitioners Forum

it mattering

Manchester Grand Hyatt San Diego, California

23+ CME

www.ota.org



The Orthopaedic Trauma Association gratefully acknowledges 2014 Research and Education Donors. The continued success and increased impact of the Orthopaedic Trauma Association's research and education effort is dependent upon foundation and industry support. The OTA expresses sincere appreciation to these contributors for their generous financial support.

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Biomet

Copper Award (\$25,000 - \$49,999)

Foundation for Orthopedic Trauma

Sponsor Award (\$5,000 - \$24,999)

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Dear Colleagues:

On behalf of the OTA Program Committee and President Ted Miclau, MD, I am pleased to invite you to the 31st Annual Meeting of the Orthopaedic Trauma Association (OTA) to be held in San Diego, California, October 7 – 10, 2015. The tremendous planning efforts of the committee will provide the most comprehensive and up-to-date program on the treatment of musculoskeletal injury yet.

This year's meeting will highlight four main symposia: a discussion of the opioid epidemic and the problem and societal costs of alcohol and nicotine addiction; much anticipated first release of results of the FLOW study; management of acetabular fractures in patients over 60; and the management of elbow trauma. New this year is a podium session of the committee's "highlight" papers, chosen as the best of the best abstracts. Concurrent with the paper sessions, the mini symposia, case presentations, and skills labs will conceptrate a



the paper sessions, the mini-symposia, case presentations, and skills labs will concentrate on more focused topics, and allow attendees to customize their meeting experience. The scientific program will include the most relevant and scientifically sound research submitted. More than 102 podium presentations and 132 posters were selected by the Program Committee from a record 910 abstracts submitted.

Five distinct CME courses precede the Annual Meeting, beginning with the Basic Science Focus Forum, chaired by Ed Harvey, MD. Beginning Wednesday, October 7th, this one and one-half day event will provide an additional in-depth program designed to augment and expand upon the basic science presented and discussed at the main meeting. Dan Horwitz, MD and Bob Ostrum, MD, will chair a one and one-half day Orthopaedic Trauma Boot Camp, designed for orthopaedic surgeons with busy practices outside of trauma who are called upon to solve difficult fracture problems in their communities. Dr. Horwitz will lead a select team of experienced OTA surgeon educators guiding participants through cases designed to highlight difficult injuries and the tips and tricks for successful treatment.

Wednesday will also feature the highly successful International Forum under the direction of Peter V. Giannoudis, MD. We welcome Germany as our Guest Nation during a symposium covering acetabulum fractures in the elderly. The ICD-10 Coding for Trauma Surgeons chaired by Scott Broderick, MD, and Karen Zupko & Associates will cover changes in orthopaedic trauma billing and coding that will affect everyone's practice. The half-day Young Practitioners Forum led by Jodi Siegel, MD and Lisa Cannada, MD, on Thursday morning will focus on the concerns of members in their first five years of practice. We encourage all to arrive early to the Annual Meeting and take full advantage of these OTA offerings.

A two and one-half day course specifically designed for Physician Assistants and Nurse Practitioners, chaired by Cory Collinge, MD, Michael Gardner, MD, Dan Coll, PA-C, and Dennis Gregory, PA-C, will run concurrent with the Annual Meeting from Thursday, October 8th to Saturday, October 10th. The OTA Residents Fracture Course, chaired by Kyle J. Jeray, MD, and Toni M. McLaurin, MD, will also run concomitant to the Annual Meeting from Wednesday, October 7 to Friday, October 9th.

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 the 2015 OTA Annual Meeting.

Please consider joining us in San Diego!

Robert V O'Toole, MD Program Chair



Dear Colleagues,

Welcome back to San Diego and the Manchester Grand Hyatt Hotel! We are very excited to host all of you again in San Diego for the 31st Annual OTA Meeting. If you have not already registered, I hope you will decide to do so. This year Columbus Day falls on the Monday following our meeting, so hopefully you can plan to stay an extra day or two in our beautiful destination city.

The meeting is located on the west end of the Gaslamp District, which continues to grow in selection of evening activities and great restaurants. Seaport Village, the Midway Museum and Maritime Museums are all within walking distance, and Balboa Park is home to several other great museums. Other family activities include Sea World, The New Children's Museum, and the world famous San Diego Zoo. There are plenty of nearby parks, running and bike routes, area golf courses, and beaches.

October is the last of the dry months for San Diego and is usually a transition period with variable weather. Normal daily temperature is 67 degrees, and ranging from 61 to 74 degrees at Lindbergh Field. If a warm dry Santa Ana wind comes in, temperatures can approach the 90's. Plan to have a sweatshirt or jacket for most evenings are quite cool along the coast.

Recently, I have heard attendees concerned that the meeting has grown too big. I am also one who used to resist change and feel the "overwhelm" of big meetings. However, I am now embracing it with a focus on maintaining the many positives. I am planning to select my breakouts to balance out my education and practical skills. I am planning to socialize and connect with my many Orthopaedic trauma friends across the country and world. I am planning to learn about the latest research in our great specialty.

As many of you know, I have been passionately pursuing a number of different endeavors over the past few years. Like you, I try to juggle all that I put on my plate. As I continue to grow and learn, I find it very helpful to clarify and create Reciprocity in my roles and relationships, which is the "R" or second of *The 8 PRACTICEs of Highly Successful Surgeons*. I hope that many of you will be intrigued enough to attend the Saturday breakout, where I will present the information in a highly interactive format as educator and Surgeon Consultant. As an entrepreneur and burnout prevention advocate, I am also organizing a yoga class during the meeting and a bicycling event on Sunday October 11th to promote *SurgeonMasters* for those Surgeons and their family that want to dedicate at least 1-4 hours of their meeting time to creating an outlet for exercise, camaraderie, and creating a fun positive attitude. The fee for these activities is intended to only offset their costs.

I will also be very active as an OTA member, participating in the Business Meeting, the Public Relations Committee meeting, checking out the technical exhibits, and attending as much of the scientific program as I can. I will also be at the Grand Hyatt poolside for the Thursday evening reception, which we selected for everyone's convenience! Keep in mind that my highest priority is to be there as an OTA member, so feel free to approach me and start off with "Jeff, I have a question for you as local host." I will only interact with you in the role that you need at the time.

Please come enjoy!

Jeffrey M. Smith, MD and Kate Smith Local Host, San Diego, California



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 healthcare 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

23.5 AMA PRA Category 1 Credits[™] for attending the Annual Meeting. Additional credits if you attend pre-meeting events:

- Basic Science Focus Forum (11.5 CME Credits)
- ICD-10 Coding for Trauma Surgeons (6 CME Credits)
- International Trauma Care Forum (8.75 CME Credits)
- Orthopaedic Trauma Boot Camp (12.75 CME Credits)
- Young Practitioners Forum (4 CME Credits)
- PA/NP Course (19.5 AAPA Category 1 CME Credits)

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the American Academy of Orthopaedic Surgeons and the Orthopaedic Trauma Association. The American Academy of Orthopaedic Surgeons is accredited by the ACCME to provide continuing medical education for physicians.

The American Academy of Orthopaedic Surgeons designates this live activity (OTA 2015 Annual Meeting) for a maximum of 23.5 AMA PRA Category 1 CreditsTM.

Physicians should claim only the credit commensurate with the extent of their participation in the activity.



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Pre-Registration Deadline September 30, 2015;

On-site Registration - additional \$100. See Page 59.

MEETING AT A GLANCE

Wednesday, October 7, 2015

BASIC SCIENCE FOCUS FORUM

DASIC SCIENCE I	
7:30 - 8:45 am	Symposium 1: Management of Poly- traumatized Patients with Severe Wounds
8:45 - 9:24 am	Paper Session 1: Biomechanically-Directed Fixation
9:45 - 10:50 am	Symposium 2: Critical Size Bone Defects
10:50 - 11:35 am	Paper Session 2: Critical Size Bone Defects
12:30 - 1:40 pm	Symposium 3: Absolute versus Relative Fixation
1:40 - 2:19 pm	Paper Session 3: Absolute versus Relative Fracture Fixation
2:40 - 3:45 pm	Symposium 4: Biomechanical - Hot Topics 2015
3:45 - 4:50 pm	Paper Session 4: Biomechanics
4:50 pm	Adjourn to International Poster Reception
	AUMA BOOT CAMP
7:00 - 10:25 am	Trauma Boot Camp Presentations
10:45 am	Labs
11:35 am - 12:50 pm	Trauma Boot Camp Presentations Lunch with Case Presentations
12:50 pm 1:30 - 4:30 pm	
	Trauma Boot Camp Presentations
	DRTHOPAEDIC TRAUMA CARE FORUM
	ORTHOPAEDIC TRAUMA CARE FORUM Symposium 1: Focus Surgical
INTERNATIONAL C 7:30 - 8:05 am	ORTHOPAEDIC TRAUMA CARE FORUM Symposium 1: Focus Surgical Techniques - Vertical Shear Pelvic Fx
INTERNATIONAL (7:30 - 8:05 am 8:05 - 8:37 am	ORTHOPAEDIC TRAUMA CARE FORUM Symposium I: Focus Surgical Techniques - Vertical Shear Pelvic Fx Paper Session 1: Acetabulum
INTERNATIONAL O 7:30 - 8:05 am 8:05 - 8:37 am 8:37 - 9:09 am	ORTHOPAEDIC TRAUMA CARE FORUM Symposium I: Focus Surgical Techniques - Vertical Shear Pelvic Fx Paper Session 1: Acetabulum Paper Session 2: Pelvic Injuries & Femur
INTERNATIONAL O 7:30 - 8:05 am 8:05 - 8:37 am 8:37 - 9:09 am 9:25 - 9:45 am	ORTHOPAEDIC TRAUMA CARE FORUM Symposium 1: Focus Surgical Techniques - Vertical Shear Pelvic Fx Paper Session 1: Acetabulum Paper Session 2: Pelvic Injuries & Femur SIGN Session
INTERNATIONAL (7:30 - 8:05 am 8:05 - 8:37 am 8:37 - 9:09 am 9:25 - 9:45 am 9:45 - 10:17 am	ORTHOPAEDIC TRAUMA CARE FORUM Symposium 1: Focus Surgical Techniques - Vertical Shear Pelvic Fx Paper Session 1: Acetabulum Paper Session 2: Pelvic Injuries & Femur SIGN Session Paper Session 3: Knee Injuries
INTERNATIONAL O 7:30 - 8:05 am 8:05 - 8:37 am 8:37 - 9:09 am 9:25 - 9:45 am 9:45 - 10:17 am 10:17 - 10:49 am	ORTHOPAEDIC TRAUMA CARE FORUM Symposium I: Focus Surgical Techniques - Vertical Shear Pelvic Fx Paper Session 1: Acetabulum Paper Session 2: Pelvic Injuries & Femur SIGN Session Paper Session 3: Knee Injuries Paper Session 4: Foot and Ankle
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INTERNATIONAL (7:30 - 8:05 am 8:05 - 8:37 am 8:37 - 9:09 am 9:25 - 9:45 am 9:45 - 10:17 am 10:17 - 10:49 am 10:49 - 11:16 am	ORTHOPAEDIC TRAUMA CARE FORUMSymposium I: Focus SurgicalTechniques - Vertical Shear Pelvic FxPaper Session 1: AcetabulumPaper Session 2: Pelvic Injuries & FemurSIGN SessionPaper Session 3: Knee InjuriesPaper Session 4: Foot and AnkleSymposium II: Debate: Open Reductionof Difficult Young Intra-capsular NOF Fx
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ICD-10 CODING FOR TRAUMA SURGEONS

9:00 am - 4:00 pm ICD-10 Coding Presentations

Industry Symposium - Registration Required

Wednesday, October 7, 6:30 pm - 8:00 pm DJO Global

Thursday, October 8, 2015

YOUNG PRACTITIC	ONERS FORUM
6:30 - 10:20 am	What's Different Now? Trauma Stats from 2015 Match & Post Fellow Survey Young Practitioners Forum Presentations
10:20 - 10:50 am	Speed Mentoring Sessions
BASIC SCIENCE F	OCUS FORUM
7:25 - 8:20 am	Symposium 5: What's Important Besides
8:20 - 9:22 am	Getting the Bone to Heal? Paper Session 5: Besides Bone Healing
9:40 - 10:40 am	Symposium 6: Does Research Change Practice?
10:40 - 11:10 am	Paper Session 6: New Technology and Research
ORTHOPAEDIC TR	AUMA BOOT CAMP
7:00 - 8:50 am 9:00 - 9:50 am	Trauma Boot Camp Presentations Lab 1 – Nailing Proximal Tibia Lab 2 – Pilon Ankle Plating
9:50 - 11:00 am	Trauma Boot Camp Presentations
Industry Syn Thursday, October 8, Registration Required	•
Acelity	Acumed
DePuy Synth	
Siemens	Stryker Trauma
Zimmer Biom	net
ANNUAL MEETING))
1:00 pm 1:20 - 2:50 pm	Welcome and Donor Awards Symposium I: Anxious, Addicted and Alone: It is more than just the X Pays
3:20 - 4:11 pm	Alone: It is more than just the X-Rays! Paper Session 1: Program Committee Highlight Papers: High Level
4:11 - 4:30 pm	Randomized Controlled Trials Symposium II: Results of the FLOW Study
4:30 - 5:00 pm	President's Message: The \$500 Check Theodore Miclau III, MD, OTA President
5:00 - 6:00 pm 6:00 - 8:00 pm	OTA Business Meeting Welcome Reception Manchester Grand Hyatt Pool Deck

MEETING AT A GLANCE, continued

Thursday, October 8, 2015, continued

PA/NP COURSE	
12:45 pm	Welcome and Overview
12:55 - 3:40 pm	PA/NP Course Presentations
3:45 - 4:30 pm	Skills Lab
	Spanning Knee Ex Fix
4:30 - 5:00 pm	President's Message
4:30 - 5:00 pm	PA/NP Course Presentations

Friday, October 9, 2015

ANNUAL MEETING	
6:30 - 7:30 am	Skills Labs
	(SL1) SIGN
	(SL2) Periprosthetic Fracture (Femur)
6:30 - 7:30 am	Case Presentations
7:45 - 9:24 am	Paper Session 2: Tibia/Knee
8:00 - 9:30 am	Mini-Symposia
9:55 - 11:15 am	Symposium III: Acetabular Fractures in
	Patients Older than 60
11:15 - 11:45 am	Guest Nation Presentation
11:45 am - 12:15 pm	John Border, MD Memorial Lecturer
	Christian Krettek, MD, FRACS, FRCSEd
12:15 - 1:15 pm	Women in Orthopaedic Trauma Luncheon
12:15 - 1:15 pm	New Member Luncheon
12:15 - 1:15 pm	LUNCH
12:30 - 1:15 pm	Guided Poster Tours
	(PT1) International
	(PT2) Hip, Femur, Geriatric
1:15 - 2:15 pm	Skills Labs
	(SL3) IM Nailing Proximal Tibia Fx
	(SL4) Fixation of Proximal Humerus Fx
1:15 - 2:45 pm	Mini-Symposia
1:15 - 3:05 pm	Paper Session 3: General Interest I
3:35 - 4:32 pm	Paper Session 4: Pelvis Acetabulum
4:30 - 5:45 pm	Mini-Symposia
4:32 - 5:48 pm	Paper Session 5: Femur/Polytrauma
5:48 - 6:45 pm	'Suds and Science' Guided Poster Tours
	Beverages included with these tours. (PT3) Foot and Ankle
	(PT4) Upper Extremity
PA/NP COURSE	

PA/NP COURSE

6:30 - 7:30 am	Case Presentations
8:00 am - 12:15 pm	PA/NP Course Presentations
11:45 am - 12:15 pm	John Border, MD Memorial Lecturer

Friday, October 9, 2015, continued

12:15 pm - 1:15 pm 1:15 - 3:00 pm	LUNCH and Guided Poster Tours Skills Labs Hip Nailing Ankle ORIF
3:00 - 4:15 pm	PA/NP Course Presentations
4:15 - 5:15 pm	PA / NP Reception
5:35 - 6:30 pm	Military Reception
5:48 - 6:45 pm	'Suds and Science' Guided Poster Tours

Saturday, October 10, 2015

ANNUAL MEETING	
6:30 - 7:30 am	Skills Labs (SL5) Complex Ankle Fractures (SL6) Fixation of Intra-Articular Distal Humerus Fractures
6:30 - 7:30 am	Case Presentations
7:45 - 9:00 am	Symposium IV: Elbow Trauma: How to Improve Outcomes in 2015
9:30 - 11:00 am	Mini-Symposia
9:30 - 11:08 am	Paper Session 6: Foot & Ankle
11:00 am - 12:15 pm	Mini-Symposia
11:08 am - 12:22 pm	Paper Session 7: Hip Fractures
12:22 - 1:22 pm	LUNCH
12:35 - 1:20 pm	Guided Poster Tours
	(PT5) Knee/Tibia
1 00 0 00	(PT6) Reconstruction/General Interest
1:22 - 3:00 pm	Paper Session 8: Infection/General
1.20 2.00 pm	Interest II
1:30 - 3:00 pm 3:15 - 5:10 pm	Mini-Symposia Paper Session 9: Upper Extremity/Wrist
5:10 pm	
	Closing Remarks and Adjourn
	Closing Remarks and Adjourn
PA/NP COURSE	Closing Remarks and Adjourn
	Skills Labs (SL5) Complex Ankle Fractures: Posterior Malleolus, Syndesmosis (SL6) Fixation of Intra-Articular Distal Humerus Fractures
PA/NP COURSE	Skills Labs (SL5) Complex Ankle Fractures: Posterior Malleolus, Syndesmosis (SL6) Fixation of Intra-Articular Distal
PA/NP COURSE 6:30 - 7:30 am	Skills Labs (SL5) Complex Ankle Fractures: Posterior Malleolus, Syndesmosis (SL6) Fixation of Intra-Articular Distal Humerus Fractures Case Presentations Symposium IV: Elbow Trauma: How to
PA/NP COURSE 6:30 - 7:30 am 6:30 - 7:30 am 7:45 - 9:00 am	Skills Labs (SL5) Complex Ankle Fractures: Posterior Malleolus, Syndesmosis (SL6) Fixation of Intra-Articular Distal Humerus Fractures Case Presentations
PA/NP COURSE 6:30 - 7:30 am 6:30 - 7:30 am 7:45 - 9:00 am 9:30 am - 12:15 pm	Skills Labs (SL5) Complex Ankle Fractures: Posterior Malleolus, Syndesmosis (SL6) Fixation of Intra-Articular Distal Humerus Fractures Case Presentations Symposium IV: Elbow Trauma: How to Improve Outcomes in 2015
PA/NP COURSE 6:30 - 7:30 am 6:30 - 7:30 am 7:45 - 9:00 am	Skills Labs (SL5) Complex Ankle Fractures: Posterior Malleolus, Syndesmosis (SL6) Fixation of Intra-Articular Distal Humerus Fractures Case Presentations Symposium IV: Elbow Trauma: How to Improve Outcomes in 2015 PA/NP Course Presentations
PA/NP COURSE 6:30 - 7:30 am 6:30 - 7:30 am 7:45 - 9:00 am 9:30 am - 12:15 pm 12:20 - 1:20 pm	Skills Labs (SL5) Complex Ankle Fractures: Posterior Malleolus, Syndesmosis (SL6) Fixation of Intra-Articular Distal Humerus Fractures Case Presentations Symposium IV: Elbow Trauma: How to Improve Outcomes in 2015 PA/NP Course Presentations LUNCH and Guided Poster Tours Skills Labs Distal Femoral Locked Plating
PA/NP COURSE 6:30 - 7:30 am 6:30 - 7:30 am 7:45 - 9:00 am 9:30 am - 12:15 pm 12:20 - 1:20 pm	Skills Labs (SL5) Complex Ankle Fractures: Posterior Malleolus, Syndesmosis (SL6) Fixation of Intra-Articular Distal Humerus Fractures Case Presentations Symposium IV: Elbow Trauma: How to Improve Outcomes in 2015 PA/NP Course Presentations LUNCH and Guided Poster Tours Skills Labs

MEETING and PRE-MEETING COURSES

2015 Program Committee

Robert V O'Toole, MD, Program Chair Michael D McKee, MD, Program Co-Chair Thomas F Higgins, MD Michael J Gardner, MD David J Hak, MD Stephen Kottmeier, MD Gilbert R Ortega, MD, MPH David W Sanders, MD Gerard P Slobogean, MD

Target Audience

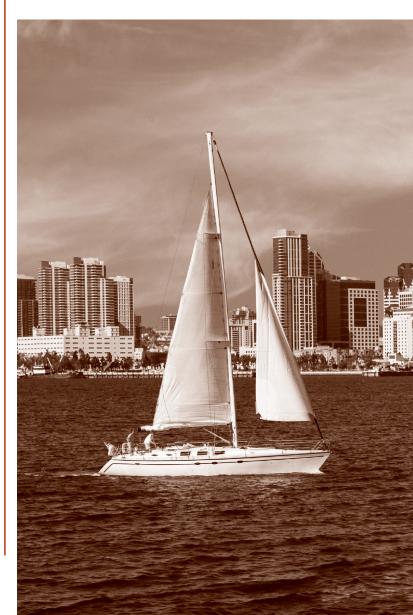
The Orthopaedic Trauma Association (OTA) Annual Meeting is for the benefit of orthopaedic trauma surgeons and related allied health care professionals.

Objectives

After attending the OTA Annual Meeting, participants will be able to:

- Discuss and become familiar with the most up-to-date clinical and basic science advancements related to orthopaedic trauma
- Demonstrate the impact of transdisciplinary and collaborative care on orthopaedic practice
- Understand the most recent advances and controversies in percutaneous fixation, open reduction, internal fixation and hip replacement in patients older than 60
- Learn operative indications of elbow fractures and how to optimize operative treatment.





Basic Science Focus Forum

Wednesday, October 7

BASIC SCIENCE FOCUS FORUM

2015 Basic Science Committee

Edward J Harvey, MD, Chair Mohit Bhandari, MD; Joseph Borrelli Jr, MD; Todd O McKinley, MD; Aaron Nauth, MD; Emil H Schemitsch, MD; Brett D Crist, MD

Target Audience

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

Attendees of this activity can earn up to 11.5 *AMA PRA Category 1 Credits*™

Objectives

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

- Understand the complex physiological issues associated with polytrauma patients
- Comprehend the changing treatment and diagnostic parameters for critical size bone defects
- Recognize the best indications for absolute or relative fixation in fracture management
- Review the biomechanical principals in directed fixation for controversial fractures and subluxations
- Appreciate what other musculoskeletal conditions we need to treat in trauma
- Identify how research may change your practice

Wednesday, October 7, 2015

6:30 am	Registration
7:30 am	Introduction
	Edward J Harvey, MD, Program Chair

7:35 am - Symposium 1
8:45 am Management of Polytraumatized Patients with Severe Wounds
Moderators: Todd O McKinley, MD Timothy Billiar, MD
7:35 am Measuring Patient-Specific Mechanical and Ischemic Tissue Injury in Multiply Injured Patients Greg E Gaski, MD
7:55 am Restoring Functional Muscle in Severe Wounds with Volumetric Muscle Loss Benjamin Corona, PhD

8:15 am Computational Biologic Approaches to Understanding Clinical Outcomes in Multiply Injured Patients *Yoram Vodovotz, PhD*

8:35 am Discussion

8:45 am - Paper Session 1 9:24 am Biomechanically-Directed Fixation Moderators: Todd McKinley, MD Timothy Billiar, MD

8:45 am Overview Timothy Billiar, MD

8:50 am Paper 1

Cytokines as Predictors of Multiple Organ Dysfunction Syndrome of Polytrauma Patients – Osteoprotegerin and Lipocalin-2 better than Interleukin-6? *Marcel Winkelmann, MD; Henning Peters; Christian Macke, MD; Philipp Mommsen, MD; Christian Zeckey, MD; Christian Schröter, MD; Christian Schröter, MD; Christian Krettek, MD; Claudia Neunaber, MD*

8:56 am Paper 2

A Severe Hemorrhagic Shock Leads to a Delayed Fracture Healing and Biomechanical Instability in a Murine Model Katrin Bundkirchen, MS; Luisa Schäck, MD; Sandra Noack MD; Christian Krattek MD;

Sandra Noack, MD; Christian Krettek, MD; Claudia Neunaber, MD

9:02 am Paper 3

Vancomycin and Imipenem Release from Nails Covered with Antibiotic-loaded Acrylic Cement Pharmacokinetic Study Jorge Barla, MD; Luciano Rossi, MD; Carlos Sancineto, MD

9:08 am Paper 4 Elution Characteristics of PMMA Bone Cement IM Spacers Impregnated with Vancomycin and Tobramycin Andrew Patton, MD; Brandon Perez, MD; William Buford, PhD

9:14 am Discussion

9:24 am Break

BASIC SCIENCE FOCUS FORUM, continued

9:45 am - 11:35 am	Symposium 2 Critical Size Bone Defects: Is There a Consensus in 2015 for Diagnosis and Treatment?	
Moderators:	Aaron Nauth, MD J Tracy Watson, MD	
9:45 am	Size Matters: Defining "Critical" in Bone Defect Size Emil Schemitsch, MD	
10:00 am	Induced Membrane Techniques (Masquelet) for Bone Defect Management Brent L Norris, MD	
10:15 am	The Role of Biologics in Bone Defect Management J Tracy Watson, MD	
10:30 am	Infected Bone Defects: State of the Art Treatment Aaron Nauth, MD	
10:45 am	Discussion	
	Paper Session 2 Critical Size Bone Defects	
Moderators:	Aaron Nauth, MD	
	J Tracy Watson, MD	
10:50 am	Overview Aaron Nauth, MD	
10:55 am	Paper 5 Effect of External Beam Irradiation on the Pathway of Bone Fracture Healing Yongren Wu, PhD; Evan Hanna, MD; Daniel Mcdonald, MS; Kenneth Vanek, PhD; Hai Yao, PhD; Vincent Pellegrini, MD	
11:01 am	Paper 6 Novel PTH Based Bone Graft Substitute for Treatment of Fractures – Results from a Large Ovine Tibial Plateau Defects Study Jason Schense, PhD; Brigitte von Rechenberg, DVM; Martin Stauber, PhD;	
11:07 am	Stephen Ferguson, Prof PhD Paper 7 Pharmaceutical and Genetic Depletion of Sclerotin and the Effect on Fracture Healing Mohammad Alzahrani, MD, MSc; Reggie Hamdy, MB, MSc (Ortho.), FRCS(C)	

	Nabarun Chakraborty, MS; MBA; Rasha Hammamieh, PhD; Duncan Donohue, PhD; Todd McKinley, MD; Paul Childress, PhD; Benjamin Corona, PhD; Tien-Min Chu, DDS; PhD; Melissa Kacena, PhD
11:19 am	Paper 9 BMP-2 Increases Survival of Mesenchymal Stem Cells and Fracture Healing when Deployed in Photopolymerizable Hydrogels <i>Motasem Refaat, MD; Nina Vollmer, PhD;</i> <i>Steve Ho, BS; Eben Alsberg, PhD;</i> <i>Kent Leach, PhD; Mark Lee, MD</i>
11:25 am	Discussion
11:35 am	Lunch
12:30 pm -	Symposium 3
1:40 pm	Absolute versus Relative Fixation
Moderators:	Joseph Borrelli, MD Brent L Norris, MD
12:30 pm	Plates: Alternative Fixation Methods and Their Influence on Fracture Healing Gerald Lang, MD
12:45 pm	IM Nails are the Mainstay of Diaphyseal and Metaphyseal? Fracture Fixation: And Why? Thomas A (Toney) Russell, MD
1:00 pm	Pros and Cons of Plates and Screws in Osteoporotic Bone David Rothberg, MD
1:15 pm	Periprosthetic Fracture Fixation: To Graft or Not to Graft? William M Ricci, MD
1:30 pm	Discussion
	Paper Session 3
2:19 pm	Absolute versus Relative Fracture Fixation
Moderators:	Joseph Borrelli Jr, MD Brent L Norris MD
1:40 pm	Overview Joseph Borrelli Jr, MD
1:45 pm	Paper 10 Controlled Axial Dynamization with a Novel

Active Locking Plate can Deliver Faster and

Michael Bottlang, PhD; Stanley Tsai, MS; Anika Drechsler, BS; Brigitte von Rechenberg, DVM;

Manuel Asch, BS; Daniel Fitzpatrick, MS, MD;

Peter Augat, PhD; Steven Madey, MD

Stronger Healing

Comparative Analysis of Thrombopoietin (TPO), a Novel Agent to Heal Segmental Bone Defects, with Bone Morphogenetic

Protein-2 (BMP-2): A Hypothesis Generating Transcriptomic Study

11:13 am Paper 8

BASIC SCIENCE FOCUS FORUM, continued

C SCIEN	CE FOCUS FORUM, continu	ed		Wednesday, October 7
1:51 pm	Paper 11	3:45 pm -	Paper Session 4	sda
	A Biomechanical Comparison of Standard versus Far Cortical Locking Screws in a	4:50 pm	Biomechanics	*
	Periprosthetic Distal Femur Fracture Kimberly Jacobsen, MD; J Bledsoe, PhD; Heidi Israel, PhD, RN; Jeffrey Whiting, MD;		Emil Schemitsch, MD Michael Bottlang, MD	Dctobe
1.57 nm	Lisa Cannada, MD Paper 12	3:45 pm	Overview Emil Schemitsch, MD	r 7
1.37 pm	In Vivo Correlation of RUST Scoring with Biomechanical Strength of Nailed Tibia Fractures: Can We Finally Define Union Radiographically? Paul Tornetta, MD; Jody Litrenta, MD; William Ricci, MD; Roy Sanders, MD; Robert O'Toole, MD; Henry Faber, MS; Jason Nascone, MD	3:50 pm	Paper 14 The Effect of Varying Tension of a Suture Button Construct in Fixation of the Tibiofibular Syndesmosis - Evaluation Using Stress Computed Tomography John Morellato, MBBS (Hons); Hakim Louati, MSC;	
2:03 pm	Paper 13 The Biomechanical Advantage of Locked versus Non-locked Symphyseal Plating of Unstable Pelvic Ring Injuries Ryan Godinsky, MD; Gregory Vrabec, MD;		Andrew Bodrogi, MD; Andrew Stewart; MD; Steven Papp, MD FRCPC; Allan Liew, MD, FRCSC; Wade Gofton, MD, FRCPC	
	Loredana Guseila, BS; Danielle Filipkowski, MS; John Elias, PhD	3:56 pm	Paper 15 Anatomic Ligament Repair Restores	
2:09 pm	Discussion		Ankle and Syndesmotic Rotational Stability as Much as Syndesmotic	
2:19 pm 2:40 pm -	Break Symposium 4		Screw Fixation Patrick Schottel, MD; Josh Baxter, PhD; Susannah Gilbert, MS; Matthew Garner, MD; Dean Lorich, MD	
	Biomechanical - Hot Topics 2015	4:02 pm	Paper 16	
Moderators:	Emil Schemitsch, MD Michael Bottlang, MD		Initial Stiffness of Bicortical Locked S versus Unicortical Locked Screw and	Graft-
2:40 pm	Proximal Humerus Fractures: Using Biomechanics to Reduce Failure of Locked Implants TBD		Cable Fixation of Comminuted Vancou Periprosthetic Fractures: A Biomecha Study Michael Beebe, MD; David Hulet, BS; Casey Whole, PS; Seen Tagge, PS;	
2:48 pm	Femoral Neck Fracture Fixation: What is the Rationale for Implant Choice?	4:08 pm	Casey Whale, BS; Sean Tagge, BS; Jeremy Gililland, MD; Erik Kubiak, MD Discussion	
2:56 pm	Gerard P Slobogean, MD Nailing Unstable Intertrochanteric Fractures: Biomechanical Evidence for Improved Proximal Fixation Steven A Olson, MD		Paper 17 Comparison of Three Methods for Mai Inter-fragmentary Compression after Fixation	Fracture
3:04 pm	Periprosthetic Distal Femur Fractures: Nail or Plate? Emil Schemitsch, MD		Brigham Au, MD; John Groundland, MD; Brandon Santoni, PhD; Kyle Stoops, MD H Claude Sagi, MD	
3:12 pm	Syndesmotic Injuries: How Flexible Should the Fixation Be? David W Sanders, MD			
3:20 pm	Talar Neck Fractures: Is Standard Screw Fixation Adequate? Bruce Sangeorzan, MD			

Basic Science Focus Forum

3:28 pm - 3:45 pm Discussion

00 1

BASIC SCIENCE FOCUS FORUM, continued

4:24 pm Paper 18

Periprosthetic Supracondylar Femoral Fractures Following Knee Arthroplasty: A Biomechanical Comparison of Four Methods of Treatment Tatu Mäkinen, MD, PhD; Herman Dhotar, MD, FRCSC; Simcha Fichman, MD; Matthew Gunton, MD, FRCSC; Mitchell Woodside, MSc; Oleg Safir, MD, MEd, FRCSC; David Backstein, MD, MEd, FRCSC; Thomas Willett, PhD; Paul Kuzyk, MD, MASc, FRCSC

4:30 pm Paper 19

Axial and Rotational Mal-Reduction (Golf Club Deformity) in Distal Femur Fractures Ali Alhandi, MBBS; Willard Moore, MD; Jason Lowe, MD; David Kaimrajh, MS; Edward Milne, BSc; Loren Latta, PhD

4:36 pm Discussion

4:50 pm ADJOURN TO INTERNATIONAL POSTER RECEPTION



Thursday, October 8, 2015

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

	Symposium 5 What's Important Besides Getting the Bone to Heal?
loderators:	Brett D Crist, MD Mark A Lee, MD
7:30 am	What to Do When the Articular Cartilage Doesn't Heal or Can't Be Reconstructed? James P Stannard, MD
7:40 am	Periarticular Knee Fractures: Ligamentous Stability Affects Success <i>William Harvin, MD</i>
7:50 am	Fractures Don't Heal without Soft Tissue Coverage: Understanding the Soft Tissue Reconstructive Ladder <i>Michael J Gardner, MD</i>
8:00 am	Muscular Recovery: How Much is Lost with Injury? Thomas Higgins, MD

8:10 am Discussion

8:20 am - Paper Session 5

9:22 am Besides Bone Healing

Moderators: Brett D Crist, MD Mark A Lee, MD

8:20 am Overview

8:25 am Paper 20

Autologous Minced Muscle Treatment of Volumetric Muscle Loss Improves Neuromuscular Strength Jennifer McDaniel, PhD; Catherine Ward, PhD; Joseph Wenke, PhD; Benjamin Corona, PhD

8:31 am Paper 21

Comparison Between Supra-patellar and Para-patellar Approach for Proximal Tibia Fractures: Cadaveric Study Rodolfo Zamora, MD; Craig Wright, MD; Adam Short, MD; David Seligson, MD

8:37 am Paper 22

Blind Area of Reverse-L Posteromedial Approach Compare with Posterolateral Approach for Posterolateral Tibial Plateau Fractures: A Cadaveric Study Wich Orapiriyakul, MD; Theerachai Apivatthakakul, MD

Basic Science Focus Forum

Thursday, October 8

BASIC SCIENCE FOCUS FORUM, continued

8:43 am	Paper 23 The Safety and Feasibility of Minimally Invasive Plate Osteosynthesis (MIPO) on the Medial Side of the Femur: A Cadaveric Injection Study <i>Theerachai Apivatthakakul, MD</i>	
8:49 am	Discussion	
8:54 am	Paper 24 Under Pressure: The Utility of Splitting Fiberglass Casts Kevin Kleis, DO; John Schlechter, DO; Joshua Doan, MEng; Christine Farnsworth, MS; Eric Edmonds, MD	
9:00 am	Paper 25 Targeted Stimulation of Retinoic Acid Receptor Signaling Mitigates the Formation of Heterotopic Ossification Formation in an Established Blast-Related Traumatic Injury Model	
	Gabriel Pavey, MD; Ammar Qureshi, PhD; Allison Tomasino, BS; Danett Bishop, PhD; Masahiro Iwamoto, PhD; Maurizio Pacifici, PhD; Benjamin Potter, MD; Thomas Davis, PhD; Jonathan Forsberg, MD	
9:06 am	Paper 26 Transforming Growth Factor-B2 Gene Expression Early may be Predictive of the Severity of Future Development of Heterotopic Ossification Ronald Goodlett, MD; Patrick Jones, MD; Youngmi Ji, PhD; Daniel Griffin, MD; Leon Nesti, MD, PhD; Husain Bharmal, MD	
9:12 am	Discussion	
9:22 am	Break	
:40 am -	Symposium 6	
0:40 am	Does Research Change Practice?	
derators:	Mohit Bhandari, MD Edward J Harvey, MD	
9:40 am	Orthopaedic Research Funding Trends – Is Trauma Getting Its Fair Share? Mitchell Bernstein, MD	
9:50 am	6 Clinical Research Papers That Have Influenced My Practice	

9:40

10:4

9:5

Michael T Archdeacon, MD 10:00 am 6 Basic Science Research Papers That Have Influenced My Practice

"I Should Change my Practice?"

Steven R Papp, MD 10:10 am Does Level I Evidence Mean

Peter Giannoudis, MD

Moder

10:20 am Are Journals the Future Source of Practice-Changing Evidence? Roy Sanders, MD 10:30 am Discussion

10:40 am - Paper Session 6 11:10 am New Technology and Research Moderators: Edward J Harvey, MD

Peter V Giannoudis, MD

10:40 am Overview

10:45 am Paper 27

Repetitive Reduction Lead to Significant Elevated IL-6 Levels in **Femoral Fractures:** A Quantitative Analysis of a **Robot-Assisted Reduction Process** in a Rat Model Claudia Neunaber, MD; Ralf Westphal, MD; Christian Krettek, MD; Thomas Goesling; MD; Philipp Haas, MD; Katrin Bundkirchen, MS

10:51 am Paper 28

Carbon Monoxide Releasing Molecule-3 (CORM-3) Protects the Skeletal Muscle In Porcine Model of Compartment Syndrome Aurelia Bihari, MSc; Gediminas Cepinskas, DVM, PhD; David Sanders, MD; Abdel-Rahman Lawendy; MD, PhD, FRCSC

10:57 am Paper 29

The Effect of Iron Chelators on Bioceramic Bone Graft Remodeling Justin Drager, MDCM; Zeeshan Sheikh, PhD; Yu Ling Zhang, MSc; Abhishek Kumar, MD; Edward Harvey, MD, MSc, FRCSC; Jake Barralet, PhD

11:03 am Discussion

11:10 am ADJOURN TO INDUSTRY SYMPOSIA **Registration Required** (Boxed lunch available)

ORTHOPAEDIC TRAUMA BOOT CAMP

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

Attendees of this activity can earn up to 12.75 *AMA PRA Category 1 Credits*™

Target Audience

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

Objectives

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

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

Wednesday, October 7, 2015

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

Upper Extremity

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

Polytrauma and Biologics

Moderator:	Steven J Morgan, MD
8:55 am	Orthobiologics J Tracy Watson, MD
9:15 am	Open Fractures Robert F Ostrum, MD
9:35 am	Initial Management of the Polytrauma Patient Dolfi Herscovici Jr, DO
9:55 am	Questions / Discussion
10:10 am	Case Presentations Steven J Morgan, MD
10:25 am	Break
10:45 am Lab Leader:	Lab 1 – Clavicle Plating Steven J Morgan, MD
Lab Leader	Lab 2 – Supracondylar Elbow Plating

Hip Fractures

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

Femoral Shaft/Supracondylar Femur Fractures Moderator: Frank A Liporace, MD

1:30 pm	The Stable Appearing Pelvic Fracture that is Really Unstable. How Do You Tell? <i>Andrew H Schmidt, MD</i>
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 Clifford B Jones, MD

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2:50 pm Break
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ORTHOPAEDIC TRAUMA BOOT CAMP, continued

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





Thursday, October 8, 2015

Tibia Fractures Top to Bottom 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 - Surgical Approaches and Techniques Nigel Rossiter, MD
8:20 am	Questions / Discussion
8:35 am	Case Presentations Erik Kubiak, MD
8:50 am	Break
9:00 am	Lab 1 –
Lab Leader:	Nailing Proximal Tibia Erik Kubiak, MD
	Lab 2 – Dilon Anklo Disting
Lab Leader:	Pilon Ankle Plating
Lan Leader:	Joshua Langford, MD
Calcaneus Moderator:	
9:50 am	Ankle Fractures in the Elderly Osteoporotic and Neuropathic

	Osteoporotic and Neuropathic Dolfi Herscovici Jr, MD
10:10 am	Calcaneus Fracture Emergencies Erik Kubiak, MD
10:30 am	Questions / Discussion
10:45 am	Case Presentations Nigel Rossiter, MD
11:00 am	Adjourn Daniel S Horwitz, MD
11:15 am -	INDUSTRY SYMPOSIA

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

Thursday, October 8

<u>Wednesday, October 7</u>

INTERNATIONAL ORTHOPAEDIC TRAUMA CARE FORUM

Wednesday, October 7, 2015

2015 International Committee

Peter V Giannoudis, MD, Chair Ney Amaral, MD; Fernando de la Huerta, MD; Amir M Matityahu, MD; Cyril Mauffrey, FRCS (Ortho), MD Max Morandi, MD; Thomas A (Toney) Russell, MD

Attendees of this activity can earn up to 8.75 *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
- Understand the pros and cons of open reduction techniques of the difficult young intra-capsular NOF fracture
- Increase knowledge and understanding of the anterior and posterior approach to vertical shear pelvic fractures
- Become familiar with unique approaches to acetabulum fractures in the elderly treated in Germany
- Understand the most recent advances and controversies of post traumatic femoral AVN
- Gain insight as to best practices when things go wrong

Program

7:30 am	Welcome
	Peter V Giannoudis, MD, Program Chair

7:35 am - 8:05 am	Symposium I Focus Surgical Techniques - Vertical Shear Pelvic Fracture: My Preferred Method of Reduction-Fixation
Moderators:	William G DeLong Jr, MD Tim Chesser, MD
	–Anterior Approach – <i>Cyril Mauffrey, MD</i> –Posterior Approach – <i>Amir M Matityahu, MD</i>

8:05 am - 8:37 am Session 1 – Acetabulum Moderators: Keith Willett, MD Amir M Matityahu, MD

8:05 am Paper 1

Acetabular Fractures in Elderly Patients: A Comparative Study of Low-Energy versus High-Energy Injuries *Cyril Mauffrey, MD; Ji-Wan Kim, MD; Benoit Herbert, MD; Jiandong Hao, MD; William Min, MD; Bruce Ziran, MD*

8:13 am Paper 2

The State of Pelvic and Acetabular Surgery in the Developing World: A Global Survey of Orthopaedic Surgeons at SIGN Hospitals *Paul Whiting, MD; Duane Anderson, MD; Daniel Galat, MD; Lewis Zirkle, MD; Hassan Mir, MD*

8:21 am Paper 3

Functional Outcome and Quality of Life after Surgical Management of Displaced Acetabular Fractures in Tanzania *Edmund Eliezer, MD*

- 8:29 am Discussion
- 8:37 am 9:09 am Session 2 Pelvic Injuries and Femur Moderator: Ross K Leighton, MD Michael L Nerlich, MD

8:37 am Paper 4

Impact of Pelvic Fracture on the Clinical Outcomes of Severely Injured Trauma Patients: Where We Stand in 2015 Khalid Almahmoud, MD; Roman Pfeifer, MD; Philipp Lichte, MD; Thomas Dienstknecht, MD; Frank Hildebrand, MD; Hans-Christoph Pape, MD

8:45 am Paper 5

Pelvic Fractures In Paediatric Polytrauma Patients: Classification, Concomitant Injuries And Early Mortality Theodoros Tosounidis, MD; Hassaan Sheikh, MD; Peter Giannoudis, MD

8:53 am Paper 6

Predictors of Reoperation for Adult Femoral Shaft Fractures Managed Operatively in Sub-Saharan Africa Edmund Eliezer, MD; Billy Haonga, MD; Saam Morshed, MD; David Shearer, MD

- 9:01 am Discussion
- 9:09 am Break

INTERNATIONAL ORTHOPAEDIC TRAUMA CARE FORUM, continued

INTERNATIO	ONAL ORTHOPAEDIC TR		FORUM, continued	Vedno
9:25 am - 9:45 am Moderator:		10:49 am - 11:16 am	Symposium II Debate: Open Reduction of the Difficult Young Intra-capsular NOF Fracture	Wednesday, Octo
	–2015 Earthquake Disaster Response by Nepal Orthopaedic Hospital Saju Pradhan, MD	Moderator:	Mohit Bhandari, MD, PhD –Anterior Open Reduction-Fixation Technique (video) Christian Krettek, MD, FRACS	October 7
	Session 3 – Knee Injuries Max Morandi, MD Paulo Roberto Lourenco, MD		–Pros/Con – Best Evidence Brad Petrisor, MD	
9·45 am	Paper 7	11:16 am - 11:48 am	Session 5 – Basic Science	
7. 1 3 am	Comminuted Patella Fractures in Adults: Management and Clinical Outcome	Moderators:	Cyril Mauffrey, FRCS (Ortho), MD Emil H Schemitsch, MD	
9:53 am	Liam Walker, MD; Michalis Panteli, MD; Ippokrates Pountos, MD; Peter Giannoudis, MD Paper 8 Internal Fixation without Bone Grafting for Depressed Articular Surface Fractures of the Tibial Plateau Tim Chesser, MD; Steven Morris, MD	11:16 am	Paper 13 The Impact of a Femur Fracture on Systemic Neutrophil Activation in Pigs Michel Teuben, MD; Marjolein Heeres, MD;	
10:01 am		11:24 am	Taco Blokhuis, MD; Roman Pfeifer, MD; Klemens Horst, MD; Leo Koenderman, MD; Hans-Christoph Pape, MD; Luke Leenen, MD Paper 14 Angular Stable Intramedullary	
10:09 am	, ,		Nailing - Does It Provide Biomechanical Benefit? Peter Augat, MD;	
10:17 am - 10:49 am	Session 4 – Foot and Ankle		Stefanie Hoffmann, MD;	
Moderator:	Fernando de la Huerta, MD Hans-Christoph Pape, MD		Manuel Kessler, MD; Daniel Stephan, MD; Geert von Oldenburg, MD;	
10:17 am	Paper 10 Arthroscopic Assisted Minimally Invasive Fixation of the Supination-External Rotation Ankle Fractures Chao-Ching Chiang, MD; Ching-Kuei Huang, MD; Yun-Hsuan Tzeng, MD	11:32 am	Claus Gerber, MD Paper 15 Nail Medullary Canal Ratio Affects Mechanical Axis Deviation during Fen Lengthening with an Intramedullary Distractor	noral
10:25 am	•	11:40 am	Nael Hawi, MD; Mohamed Kenawey, Ml Christian Krettek, MD; Emmanouil Liodal Discussion	
10:33 am				
10:41 am	Discussion			

International Orthopaedic Trauma Care Forum

11:48 am - 12:28 pm Moderator:	Session 6 – Tibia Injuries Christopher G Moran, MD P Duffy, MD	1:31 pm	Paper 21 Isolating only a Novel Mesenchymal Stem Cell Subpopulation Leads to a High Mitogenic and Osteogenic Outcome Ippokrates Pountos, MD; Karen Henshaw, MD;
11:48 am	Paper 16 Minimally Invasive Plate Osteosynthesis for Periprosthetic Tibial Fractures after Total Knee Arthroplasty Joon-Woo Kim, MD; Ki-Chul Park, MD; Jong-Keon Oh, MD; Chang-Wug Oh, MD; Hee-Soo Kyung, MD; Kyung-Hyun Park, MD	1:37 pm	Peter Giannoudis, MD Paper 22 Reconstruction of Femoral Head Impaction Injuries using Osteochondral Shell Autografts Harvested from the Head-Neck Junction Marius Keel, MD; Jennifer Cullmann, MD;
11:56 am	Paper 17 Bone Transport Combined with Open Wound Treatment for Tibial Fracture Infected Nonunion		Salvatore Tomagra, MD; Harald Bonel, MD; Johannes Bastian, MD Discussion
12:04 pm	Hu Wang, MD; Pen-fei Wang, MD Paper 18 Outcomes of Tibia Fractures Treated with a SIGN Intramedullary Nail at Nepal Orthopedic Hospital Michael Self, MD; Jill Larson, MD; Anil Shrestha, MD; S David Stulberg, MD	1:49 pm	Keynote Speaker – Hans-Christoph Pape, MD University of Aachen Medical Center Aachen, Germany Introduction: Theodore Miclau III, MD
12:12 pm 12:20 pm 12:28 pm	Paper 19 Lower Extremity Fractures in Uganda Continue to Impact Income, Quality of Life and the School Attendance of Dependents at One Year Post-injury <i>Nathan O'Hara, MD</i> ; <i>Rodney Mugarura, MD</i> ; <i>Jeffrey Potter, MD</i> ; <i>Trina Stephens, MD</i> ; <i>Jeffrey Potter, MD</i> ; <i>Trina Stephens, MD</i> ; <i>Marit Rehavi, MD</i> ; <i>Patrick Francois, MD</i> ; <i>Piotr Blachut, MD</i> ; <i>Peter O'Brien, MD</i> ; <i>Tito Beyeza, MD</i> ; <i>Gerard Slobogean, MD</i> Discussion	2:14 pm – 3:19 pm	Guest Nation: Germany Acetabulum Fracture Fixation in the Elderly: My Preferred Method of Treatment
1:00 pm -	Symposium III Post Traumatic Femoral AVN	3:19 pm 3:40 pm - 4:10 pm Moderator:	
:25 pm - 1:49 pm Moderator:	Session 7 – Best of the Best Thomas A (Toney) Russell, MD Florian Gebhard, MD, PhD		Session 8 – Proximal Femoral Fractures Andrew H Schmidt, MD B Bouillion, MD
1:25 pm	Paper 20 Ilioinguinal Approach and Infrapectineal Plate Fixing Posterior Column for Complex Acetabular Fractures Yan Zhuang, MD; Hu Wang, MD	4:10 pm	Paper 23 Which Intramedullary Nailing Treatment for Intertrochanteric Femoral Fractures Results in Better Outcomes? Martin Hoffmann, MD; Debra Sietsema, MD; Justin Khoriaty, MD; Clifford Jones, MD
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INTERNATIONAL ORTHOPAEDIC TRAUMA CARE FORUM, continued

4:18 pm Paper 24

Effect of Teriparatide on Atypical Complete Femoral Fractures treated with Intramedullary Nailing Hyun-Seok Joo, MD; Dong-Eun Kim, MD; Ji-Wan Kim, MD; Ki-Chul Park, MD; Jung-Jae Kim, MD

4:26 pm Paper 25

Incidence of Bone Protection and Associated Fragility Injuries in Patients with Proximal Femoral Fractures Ignacio Aguado-Maestro, MD; Michalis Panteli, MD; Manuel Garcia-Alonso, MD; Alejandro Bañuelos-Diaz, MD; Roberto Escudero-Marcos, MD; Peter Giannoudis, MD

4:34 pm Discussion

4:42 pm - 5:22 pm Moderator: Douglas W Lundy, MD Nigel Rossiter, MD

4:42 pm Paper 26 Removal of Volar Plates after Open Reduction Internal Fixation of Distal Radius Fractures: Clinical Reasons and Radiographic Analysis Amir Shlaifer, MD

4:50 pm Paper 27

Prevention of Complex Regional Pain Syndrome Type 1 in Patients with Distal Radius Fracture - A Pilot Study *Emily Boersma, MD; Henk Van de Meent, MD;* Jan Paul Frölke, MD

4:58 pm Paper 28

Diaphyseal Humeral Fractures in the Elderly: Results of Surgical Treatment Nimrod Snir, MD; Ron Batash, MD; Oleg Dolkart, MD; Eran Maman, MD; Gilad Eisenberg, MD; Yaniv Warschawski, MD; Ely Steinberg, MD

5:06 pm Paper 29

Elbow Hinged External Fixator: Our Treatment Approach for Complex Elbow Dislocation in Elderly Pietro Maniscalco, MD; Marco Caforio, MD; Patrizia Mantelli, MD; Luigi Bisogno, MD

- 5:14 pm Discussion
- 5:22 PM ADJOURN TO INTERNATIONAL POSTER RECEPTION

5:30 pm - 6:30 pm International Poster Reception

Poster 1 Determinants of Access to Orthopaedic Surgery at Uganda's National Hospital

Trina Stephens, MSc; Nathan O'Hara, MHA; Jeffrey Potter, MD; Rodney Mugarura, MBChB, M.Med; Piotr Blachut, MD; Peter O'Brien, MD; Tito Beyeza, MD; Gerard Slobogean, MD

Poster 2 Corrective Osteotomy of The Distal Femur: A Minimally Invasive Surgical Technique Using a Locking Plate and Temporary External Fixation*n*

Joon-Woo Kim, MD; Chang-Wug Oh, MD; Jong-Keon Oh, MD; Tae-Joon Cho, MD; Hee-Soo Kyung, MD; Hee-June Kim, MD

Poster 3 Possible Predictors for Difficult Removal of Locking Plates: A Case-Control Study

Yang Lv, MD; Fang Zhou, MD; Yun Tian, MD; Hongquan Ji, MD; Zhishan Zhang, MD; Yan Guo, MD; Yunfei Hou, MD

Poster 4 Long-Term Analysis (10 Versus 20 Years) After Severe Trauma: What are the Effects on Quality of Life? Roman Pfeifer, MD; Hagen Andruszkow, MD; Klemens Horst, MD; Frank Hildebrand, MD; Hans-Christoph Pape, MD

Poster 5 The Global Burden of Spine Fractures: A Pilot Prospective Multicenter Evaluation

Ilyas Aleem, MD; Dylan Demarco, BHSc; Brian Drew, MD; Sohail Shariff, BSc;C.J. Foote, MD; Nathan Evaniew, MD; Vijay Shetty, MD; Mandeep Dhillon, MD; Raman Mundi, MD; Mohit Bhandari, MD

Poster 6 Functional Results After Fracture Dislocations of the Elbow

Kaare Midtgaard, MD; Ida Sletten, MD; Jørgen Michelsen, MD; Jan Erik Madsen, MD; Gunnar Flugsrud, MD

Poster 7 Closed Reduction and Internal Fixation with MIPPO Technique for Calcaneal Fractures Yan Guo, MD; Fang Zhou, MD; Yun Tian, MD; Yang Lv, MD

Poster 8 Is Polyaxial Plating Technology Effective for Fixation of Distal Femoral Fractures?

Kalliopi Lampropoulou-Adamidou, MD; Theodoros Tosounidis, MD; Nikolaos Kanakaris, MD; Peter Giannoudis, MD

Poster 9 Does Operative Restoration of the Clavicle Portion of the Floating Shoulder Injury Affect Scapular Deformity? Alex Glide, MD; Debra Sietsema, PhD; Christiane Kruppa, MD; Martin Hoffmann, MD; Clifford Jones, MD

Poster 10 Blood Glucose in Multiply Injured Patients – A Reliable Parameter for Haemorrhagic Shock and Outcome? Philipp Mommsen, MD; Christian Schröter, MD; Christian Zeckey, MD; Mohamed Omar, MD; Christian Krettek, MD; Marcel Winkelmann, MD

Poster 11 Entrapment – A Risk Factor for Outcome In Multiple Trauma Patients?

Christian Zeckey, MD; Philipp Mommsen, MD; Marika Sarakintsis; Marcel Winkelmann, MD; Christian Schröter, MD; Christian Krettek, MD; Christian Macke, MD

ICD-10 CODING FOR TRAUMA SURGEONS

Wednesday, October 7, 2015

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 to ease the ICD-10-CM transition! Take this opportunity to attend an ICD-10 course specifically for orthopaedic trauma surgeons and their staff. With more documentation and technology tools to assist trauma surgeons who must navigate the use of over 65% of all ICD-10 codes. In addition to a workbook filled with valuable key documentation tables for providers and anatomy illustrations for coding and billing staff, every workshop participant will receive the IZD-10 Zupko Slim Guide for Orthopaedic ICD-10. This "cheat sheet " is modified for common sense, and condensed to include the codes most commonly used to report musculoskeletal diseases, chronic problems and complications. The guide also includes the popular KZA "Injury Guy" offering a streamline strategy for identifying the category (first three characters) for every diagnosis from the injury chapter of ICD 10. The 7th character tables required for all injuries are color coded for your convenience in the guide.

Be Inspired Not Intimidated about Implementing ICD-10

About the Speaker

Margaret Maley brings 30 years of orthopaedic experience to her clients working with KarenZupko & Associates as a consultant and speaker for 20 years. With a B.S.N. from The University of Illinois and Master's degree from Rush University, Ms. Maley began her career in Chicago as a clinical nurse specialist managing several FDA studies. Moving to Houston in 1986, she transitioned to the business side of



orthopaedics. "Front-line" experience managing orthopaedic practices gives her unique insight into the challenges facing orthopaedic surgeons and their staff on a daily basis. She is acutely aware of the importance of correct coding and accurate documentation for proper reimbursement and to minimize the risk of audit. She is recognized by her peers as a skilled communicator and for being able to sort out difficult orthopaedic coding and reimbursement issues. Ms. Maley's fast paced humorous presentations make her a favorite of surgeons, non-physician providers, administrators and staff.

Areas of coding and reimbursement expertise:

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

Margaret is an instructor for the national coding and reimbursement workshops sponsored by the American Academy of Orthopaedic Surgeons with extensive experience working with private practices, employed physicians, academic orthopaedic departments, state orthopaedic societies, and as a featured speaker for: AAOS Annual Meeting, Orthopaedic Trauma Association Musculoskeletal Tumor Society, The American Association of Hip and Knee Surgeons, Pediatric Orthopaedic Society of North America, The Western Orthopaedic Association, Gait and Clinical Movement Analysis Society

ICD-10 CODING FOR TRAUMA SURGEONS, continued

Learning Objectives

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

- Identify the category (first 3 characters) of ANY ICD-10 code to describe a traumatic injury on a specific body area
- Describe what is required for proper coding of a traumatic fracture using the pneumonic Leo C. Far
- Demonstrate the correct use of the 7th character for active treatment of a fracture
- Define the use of pathologic vs traumatic fracture codes
- List 3 things you will do to review and improve your documentation.

Course Agenda

8:00 am Registration

9:00 am - 12:00 pm

- Comparing ICD-9 to ICD-10
- What about the chapter on External Causes?
 - Does it matter if the patient was bitten by a duck or struck by a duck?
- ICD-10 Format and Structure
- Complete reorganization of the injury chapter
- 7th Character Extension for Injuries and Traumatic Fractures
- Classification of Fractures and Fracture Documentation: Leo C Far
- Delayed healing, Non-union and Malunion- It's All New!
- Dislocations
- Complications

12:00 pm - 1:00 pm Lunch

1:00 pm - 4:00 pm

- Reporting Co-morbid Conditions – Why this is so important to you
- Introduction to the Zupko slim guide (see description)
- Diseases of the Musculoskeletal System

 Architecture and Organization of the Musculoskeletal Chapter
- The "Musculoskeletal Block"
- Pathologic fractures and 7th characters – What if there is some trauma?
- In-depth look at Arthritis
- Pain If we are not sure of the diagnosis, can we just use this?
- What about unspecified codes? Learn when to use and when not to use.



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Wednesday - Friday, October 7-

RESIDENTS COMPREHENSIVE FRACTURE COURSE

Wednesday - Friday, October 7 - 9, 2015

Kyle J Jeray, MD & Toni M McLaurin, MD, Program Chairs

Course Description

The Residents Comprehensive Fracture Course will be presented in six (6) separate small group modules, with 22 - 24 residents and 5 experienced faculty educators per module.

The modules will have a rapid-fire series of mini-lectures, an extensive open case-based discussion, video demonstrations of techniques, and hands-on skills lab exercises. Modules will cover fundamental principles of fracture care distributed among six topics: articular, diaphyseal, foot & ankle, geriatrics, pediatrics, and pelvis/polytrauma/ acetabulum, plus a lunch-time spine session.

This course offers pre-course educational on-demand video materials. Details will be sent with registration confirmation as well as an online basic science pre-test and an onsite clinical post test.

Target Audience

This course is targeted for PGY2 – PGY4's, others who feel they will benefit will not be excluded. Attendance is limited, so early registration is recommended.



Modules

Module One Articular Fractures Module Leaders: Frank A Liporace, MD Timothy S Achor, MD

Topics

Distal Humerus

Anatomy/Approaches (incl. Osteotomy) Reduction and Implant Techniques Post-Operative Treatment Total Elbow Arthroplasty

Elbow

Anatomy and Radiographs Monteggia Fractures Olecranon Fractures Terrible Triad

Tibial Plateau

Fragment Specific FixationClassificationMedial/Posteromedial FragmentLateral Articular FragmentTreatment Algorithms: Low Energy - High Energy

Supracondylar Femur

Anatomy Radiography Implant Position and Surgical Techniques ORIF - Intramedullary Nailing

Case-Based Discussions

Intra-articular Distal Humerus Fracture Olecranon Fracture Intercondylar Femur Fracture Bicondylar Plateau Fracture Monteggia Fracture Terrible Triad Lateral Plateau Fracture B3 Distal Femur Fracture

Hands-on Skills Labs

Olecranon Tension Banding and Plating Supracondylar Femur

Tibial Plateau

Module Two

Diaphyseal Fractures

Module Leaders: Michael P Leslie, DO David B Weiss, MD

Lectures/Case-Based Discussions

Primary Bone Healing vs. Callus Intramedullary Nail Mechanics Plating Mechanics Failed Fixation

Hands-on Skills Labs

Intramedullary Nailing Proximal Tibia Fracture Lag Screw / Compression Plating Radius and Bridge Plating Ulna (Open Reduction Internal Fixation Forearm Fracture)

Wednesday - Friday, October 7- 9

RESIDENTS COMPREHENSIVE FRACTURE COURSE, continued

Module Three Foot and Ankle

Module Leaders: S Andrew Sems, MD William H Harvin, MD

Topics

Ankle Fractures Tibial Pilon Fractures Talus Fractures Calcaneus

Lectures/Case-Based Discussions Classic Maissoneuve Injury

Trimalleolar with Displaced Posterior Malleolus Low Energy - Partial Articular Fracture High Energy - AO/OTA 43.C3 with Staged External/Internal Fixation Definitive Treatment with External Fixation Hawkins II Talar Neck Fracture Hawkins III Talar Neck Fracture with Involvement of Talar Body LisFranc Sanders II Joint Depression Sanders IV Fracture with Blood-filled Blisters in 60 Year Old Roofer who Smokes Mid-Foot/Tarso-Metatarsal Divergent Lisfranc Injury Subtle Lisfranc Injury Multiple Displaced Metatarsal Shaft Fractures

Hands-on Skills Labs/Videos

Trimalleolar Ankle Fracture with Unstable Syndesmosis External Fixation of a Comminuted Pilon Fracture

Module Four

Geriatric

Module Leaders: Charisse Y Sparks, MD Carla S Smith, MD

Lectures

Periprosthetic Fracture Management Intertrochanteric Hip Fractures Osteoporosis Evaluation and Management

Case-Based Discussions

Femoral Neck Periprosthetic Femur Fractures Distal Radius Intertrochanteric Distal Humerus Proximal Humerus

Femoral Neck

Locked Plating Basics

Surgical Video Proximal Humerus Fracture Locked Plating

Hands-on Skills Labs Sliding Hip Screw Distal Radius

IM Hip Nail

Module Five Pediatrics

Module Leaders: Anthony I Riccio, MD R Lane Wimberly, MD

Lectures

Unique Aspects of Children's Fractures Timing of Children's Fractures

Case-Based Discussions

Distal Humerus Forearm Femur Intra-articular

Videos

Forearm Fracture Reduction Spica Casting

Hands-on Skills Labs/Videos

Closed Reduction and Percutaneous Pinning of Supracondlar Humerus Fracture Flexible Elastic Nailing of Femoral Shaft Fracture

Presented in partnership with OTA and POSNA





Module Six

Polytrauma, Pelvis and Acetabulum

Module Leaders: Marcus F Sciadini, MD Ryan P Finnan, MD Raymond D Wright Jr, MD

Lectures

Damage Control and Hemodynamic Stabilization Open Fractures Pelvic Ring Injuries – Stability and Reduction Stable LCI Type Injury - Nonoperative Principles Pelvic Radiographs & SI Screws Radiograph & Model Interpretation Session

Case-Based Discussions Polytrauma Patient Vertical Shear or Unstable Pelvis

Open Fractures

Surgical Video Sheet Wrap / Pelvic Binder

Hands-on Skills Labs Supra-acetabular & Iliac Crest Pelvic Ex Fix Pubic Diastastis with Symphyseal Plate

Thursday, October 8

YOUNG PRACTITIONERS FORUM

Thursday, **October 8, 2015**

Jodi A Siegel, MD, & Lisa K Cannada, MD, Program Co-Chairs

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

Target Audience

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

Objectives

Attendees of the Young Practitioners Forum will:

- Increase knowledge and understanding of the ٠ fellowship application process and maximize the fellowship year experience
- Learn important strategies for building your career ٠
- ٠ Develop an understanding of skills to succeed in a Trauma Practice

Program

6:00 am	Registration & Continental Breakfast	
6:30 am	Introduction: What's Different Now? Trauma Stats from 2015 Match and Post Fellow Survey Jodi A Siegel, MD	This Speed
6:36 am	My Fellowship Year-Tips from an Attending on Being a Good Fellow PANEL: Robert V O'Toole, MD H Claude Sagi, MD Timothy S Achor, MD	session wi six 5 minu at differen by the fact
6:57 am	Taking Notes That Will Help in the Future Paul S Whiting, MD	get your quanswered topics!
7:06 am	Fellow's Perspective PANEL: Do's and Don'ts in Making a Good First Impression Jason C Tank, MD How to Work With Residents Timothy Craft, MD Be Open to Learning New Ways Daniel J Stinner, MD	
7:27 am	Now I am the Teacher: Taking Your Role Seriously Kenneth A Egol, MD	

7:38 am	Common Sense Lessons for Your Career & Life <i>Roy Sanders, MD</i>
7:59 am	The Little Things that Matter J Tracy Watson, MD
8:16 am	Questions
8:27 am	Break
8:41 am	The Challenges of Balance when Both of You Work Scott P Ryan, MD
8:52 am	Do Politics Matter to an Orthopaedic Surgeon? (They Should!) A Alex Janghir, MD
9:01 am	The Job Interview: Expectations from the Interviewee and Interviewer Douglas R Dirschl, MD Gregory J Della Rocca, MD, PhD
9:22 am	Defining the Road Ahead TBA
9:35 am	Social Media in Your Practice Jeffrey M Smith, MD
9:50 am	Maximing Opportunities for Involvement in the OTA and AAOS <i>Kyle J Jeray, MD</i>
9:57 am	The Business Savvy Orthopaedic Surgeon: How to Become One Peter L Althausen, MD
10:08 am	ABOS Part II Shepard R Hurwitz, MD
10:20 am	Speed Mentoring Lisa K Cannada, MD
This Speed Mentoring session will have six 5 minute sessions at different tables run by the faculty. Take this home to get your questions answered on multiple topics!	TOPICS: -Research: Getting Started and Finding Time to Do It -I am Overwhelmed- How Do I Appear Organized -What Do I do with a PA/NP/Residents -My Home Life Is Affecting my Job -I Want to Get Better: How Can I Prepare & Critically Review my Cases -Is the Grass Always Greener
	on the Other Side? FACULTY: Paul Tornetta III, MD David C Templeman, MD Laura S Phieffer, MD Robert P Dunbar Jr., MD Daniel S Horowitz, MD Robert A Hymes, MD
10:50 am	Wrap up
11:00 am	Adjourn to Industry Symposia Registration Reguired

(Boxed lunch available)

2015 OTA ANNUAL MEETING

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	tober 8, 2015 Welcome and Donor Awards	2:20 pm	Referral and Management to Improve Cognitive-Behavioral and Self-Management Strategies for the Clinician William Obremskey, MD, MPH, MMHC	day, October 8
1:20 pm - 2:50 pm	Anxious, Addicted and Alone:	2:35 pm	Psychological Health Q and A	00
Moderator:	It is more than just the X-rays! William Obremskey, MD, MPH, MMHC	2:50 pm	Break	
	Kristin Archer, PT, PhD; Basam Attum, MD; Renan Castillo, PhD; Hassan R Mir, MD; Stephen Wegner, PhD 'thopaedic trauma surgeons on the variety	3:20 pm - 4:11 pm	Paper Session 1 Program Committee Highlight Papers: High Level Randomized Controlled Trials	
 to demonstration 	us today with regard to patient outcomes the the impact of transdisciplinary and	Moderators:	Michael D McKee, MD Robert V O'Toole, MD	
 to encourage found effectiv musculoskele Description: This epidemic and the p the personal and so 	care on orthopaedic practice e surgeons to utilize strategies that have been ve in improving outcomes in various etal patient populations. Symposium is a discussion of the opioid roblem of alcohol and nicotine addiction and ocietal costs of addiction. We also examine	3:20 pm	Paper 30 A Prospective, Randomised, Controlled Trial Comparing The Fibular Nail vs. Standard ORIF for Fixation of Ankle Fractures in Patients Under 65 Years of Age Timothy White, MD, FRCS;	
cal distress and coo Symposium will foc	e prevalence and impact of both psychologi- gnitive dysfunction. The second part of the us on evidence-based management and sections on multimodal pain treatment, collab-		Kate Bugler, Mb ChB, MRCS; Margaret McQueen, MD FRCS; Charles Court-Brown, MD	
orative care models strategies, and refe psychological healt aim of our Symposi surgeons on the iss outcomes, but also and collaborative ca a comprehensive vi surgeons to utilize s proving outcomes in	b, cognitive-behavioral and self-management rral and rehabilitation interventions to improve h and cognitive and vocational outcomes. The um is not only to educate orthopaedic trauma uses facing us today with regard to patient to demonstrate the impact of transdisciplinary are on orthopaedic practice. By providing ew of patient care, we hope to encourage strategies that have been found effective in im- n various musculoskeletal patient populations. The Opioid Epidemic <i>Hassan R Mir, MD</i>	3:26 pm	Paper 31 An Equivalence Randomized Control Trial Comparing Close Contact Castin (CCC) with Internal Fixation Surgery 5 Unstable Malleolar Fractures in Patie Over 60 Years Keith Willett, FRCS; David Keene, DPI Robert Handley, FRCS; Elizabeth Tuttor Tim Chesser, FRCS; Ian Pallister, FRCS Dipesh Mistry, PhD; Julian Nam, MSc; Ranjit Lall, PhD; Andrew Briggs, DPhil; Sallie Lamb, DPhil	ng for nts hil; n, PhD;
1:30 pm	Alcohol and Nicotene Addiction and the Personal and Societal Cost of Addiction	3:32 pm	Discussion Paper 32	
1./10 nm	Basam Attum, MD Chronic Pain Burden and Predictors	5.57 pm	Proximal Fracture of the Humerus: Evaluation by Randomisation (ProfHI	ER)
·	Kristin Archer, PT, PhD		Trial Amar Rangan, FRCS; Stephen Brealey	
1:50 pm	Incidence and Impact of Psychological Distress (PTSD and Depression) and Cognitive Dysfunction Renan Castillo, PhD		Helen Handoll, PhD; Ada Keding, MSc; Laura Jefferson, PhD; Belen Corbacho-Martin, MSc; Lorna Goodchild, MSc;	
2:05 pm	Multimodal Pain Treatment and Strategies to Improve Shared Decision-Making and Patient Engagement in Care Collaborative Care Models <i>Stephen Wegner, PhD</i>		Ling-Hsiang Chuang, PhD; Nigel Rossiter, Catherine Hewitt, PhD; David Torgersor	

Thursday, October 8

Thursday, October 8, 2015

3:43 pm Paper 33

A Multi-Centre RCT Comparing the InterTAN Device Versus the Sliding Hip Screw in the Treatment of Geriatric Hip Fractures: Results depend on Pre-Injury Functional Level

David Sanders, MD; Dianne Bryant, PhD; Abdel-Rahman Lawendy, MD, PhD, FRCSC; Mark MacLeod, MD; Kevin Gurr, MD; Tim Carey, MD; Christina Tieszer, BSc, MSc; Steven Papp, MD FRCPC; Allan Liew, MD, FRCSC; Wade Gofton, MD, FRCPC; Julia Foxall; Chad Coles, MD; Ross Leighton, MD, FRCSC, FACS; Kelly Trask, MSc; Darius Viskontas, MD; Trevor Stone, MD; Mauri Zomar; Andrew Trenholm, MD; Tracy Adams

- 3:49 pm Discussion
- 3:54 pm Paper 34

The Supra-Patellar Variant of the Semi-Extended Surgical Approach Improves Intramedullary Nail Position Compared with the Conventional Medial Parapatellar Approach - A Prospective Multi Centre RCT

Alan Johnstone, MD; Christopher Munro, MD; Pedro Caba, MD; Ismael Escriba, MD; Daren Forward, MD; Markus Graf, MD

4:00 pm Paper 35

Low Intensity Pulsed Ultrasound in Acute Tibial Shaft Fractures Treated with IM Nails: The Results of the TRUST Trial

Paul Tornetta, MD; Jason Busse, DC, PhD/ Assistant Prof; Mohit Bhandari, MD, FRCSC, PhD; Thomas Einhorn, MD; Emil Schemitsch, MD; James Heckman, MD; Kwok-Sui Leong, MD; Diane Heels-Ansdell, MSc; Sun Kallyth, PhD; Gordon Guyatt, MD

4:06 pm Discussion

4:11 pm Symposium II

Results of the FLOW Study: A Multi-national, Randomized Trial Evaluating Irrigating Solutions and Pressures in Patients with Open Fractures

Introduction: *Robert V O'Toole, MD* Moderator: *Mohit Bhandari, MD, PhD*

4:30 pm - 5:00 pm

President's Message The \$500 Check

Theodore Miclau III, MD OTA President



5:00 pm – 6:00 pm 6:00 pm – 8:00 pm Welcome Reception Manchester Grand Hyatt Pool Deck

Join your colleagues for cocktails and a generous assortment of hors d'oeuvres while taking in the magnificent views of downtown, San Diego Bay and the Pacific Ocean from the pool deck of the Manchester Grand Hyatt.



Friday, October 9, 2015

6:30 am – 7:30 am	Concurrent Breakouts (Descriptions on pages 50 - 53)
	Skill Labs – No Charge. Seating available first come, first-served.
6:30 am	(SL1) SIGN Fracture Care International Lab Leader: <i>Lewis G Zirkle Jr, MD</i>
6:30 am	(SL2) Periprosthetic Fracture (Femur) Lab Leader: Erik Kubiak, MD
6:30 am	Case Presentations – No Charge. Seating available first come, first-served. Periarticular Fractures of the Tibia: The Case for Going Prone Moderator: Lisa K Cannada, MD Faculty: Stephen Kottmeier, MD; J Tracy Watson, MD
6:30 am	Treatment Strategies for Tibial Plateau Fractures Moderator: <i>Marcus F Sciadini, MD</i> Faculty: <i>Michael T Archdeacon, MD;</i>

Stephen H Sims, MD; Nirmal C Tejwani, MD;

Philip R Wolinsky, MD

Thursday-Friday, October 8-9

Friday, October 9, 2015

6:30 am	Pelvis and Acetabulum Fractures	
	Moderator: Paul Tornetta III, MD	
	Faculty: Robert V O'Toole, MD;	
	Robert F Ostrum, MD;	
	H Claude Sagi, MD;	
	Jodi Siegel, MD	
6:30 am	Don't Be Scared! Evaluation and	

Management of Complex Pediatric Elbow Fractures Moderator: David A Podeszwa, MD Faculty: Christine A Ho, MD; Anthony I Riccio, MD; R Lane Wimberly, MD

7:45 am - 9:24 am Paper Session 2 Tibia/Knee Moderators: Michael D McKee, MD Raymond R White, MD

7:45 am Paper 37

Can Electromagnetic Navigation for Distal Locking of Intramedullary Nail Reduce Procedure Time and Radiation Exposure? Takashi Miaymoto, MD; Shu Obara, MD; Shuji Isefuku, MD; Takeshi Doi, MD; Atsuhiko Mogami, MD; Yoshihisa Anraku, MD; Kensuke Sakai, MD; Masayuki Ito, MD; Ryouichi Kawakami, MD; Masahiro Shirahama, MD; Mitustoshi Sagara, MD; Tomohiro Yasuda, MD; Haruyosi Yamashita, MD

7:51 am Paper 38

Suprapatellar Intramedullary Nail Technique Lowers Rate of Malalignment of Distal Tibia Fractures Frank Avilucea, MD; Kostas Triantafillou, MD; Paul Whiting, MD; Ed Perez, MD; Hassan Mir, MD, MBA

7:57 am Paper 39 Clinical and Functional Results of 117 Patients with Knee Dislocations Nicholas Scarcella, BS; Stephen Bowen; Heather Vallier, MD

8:03 am Discussion

8:08 am Paper 40 Superior

Superior Outcomes after Operative Fixation of Patella Fractures using a Novel Cage Plate Construct: A Prospective Cohort Study Stephen Warner, MD, PhD; Lionel Lazaro, MD; Ryan Thacher, BA; Matthew Garner, MD; Gina Sauro, PT, DPT; David Helfet, MD; Dean Lorich, MD

8:14 am Paper 41

Function and Knee Range of Motion Plateau 6 Months Following Tibial Plateau Fractures Anthony Christiano, BA; Christian Pean, MS; Kenneth A Egol, MD

8:20 am Paper 42

Is Early Total Care of Bicondylar Tibial Plateau Fractures Safe? Florence Unno, MD; Kelly Lefaivre, MD; Georg Osterhoff, MD; Henry Broekhuyse, MD; Pierre Guy, MD; Peter O'Brien, MD, FRCSC

8:26 am Discussion

8:31 am Paper 43

A Novel PTH based Bone Graft Substitute Demonstrates Non-Inferiority to Autograft in a Large Phase IIb Study of Tibial Plateau Fractures Jason Schense, PhD

8:37 am Paper 44

Functional and Clinical Outcomes of Non-operatively Managed Tibial Plateau Fractures Christian Pean, MS; Anthony Christiano, BA; Sanjit Konda, MD; Roy Davidovitch, MD; Kenneth A Egol, MD

8:43 am Paper 45

Acute in Vivo Metrics of Joint Incongruity Following Articular Fracture Predict Post-Traumatic Arthritis in Mice Tyler Vovos, BS; Bridgette Furman, BS; Kelly Kimmerling, MS; Janet Huebner, MS; Gangadhar Utturkar, MS; Virginia Kraus, PhD; Louis DeFrate, ScD; Farshid Guilak, PhD; Steven A Olson, MD

8:49 am Paper 46

Decreased Bone Density in Geriatric Patients Does Not Lead to Inferior Outcomes After Open Reduction and Internal Fixation of Tibial Plateau Fractures *Matthew Garner, MD; Elizabeth Gausden, MD; Stephen Warner, MD, PhD; Andre Shaffer, MD; Dean Lorich, MD*

8:55 am Discussion

9:00 am Paper 47

Tibial Plateau Diminished Outcome Score Identifies Patients at Risk of Poor Functional Outcome Sanjit Konda, MD; Arthur Manoli, BS; Roy Davidovitch, MD; Kenneth A Egol, MD

Friday, October 9

Friday, Octob<u>er 9</u>

Friday, October 9, 2015

9:06 am Paper 48

Objective Metric of Energy Absorbed in Tibial Plateau Fractures Corresponds Well to Clinician Assessment of Fracture Severity

Laurence Kempton, MD; Kevin Dibbern, BS; Donald Anderson, PhD; Saam Morshed, MD; Thomas Higgins, MD; Larry Marsh, MD; Todd McKinley, MD

9:12 am Paper 49

The Effect of Soft Tissue Injuries on Clinical Outcomes Following Tibial Plateau Fracture Fixation

Stephen Warner, MD, PhD;

Matthew Garner, MD; Patrick Schottel, MD; Peter Fabricant, MD, MPH; Ryan Thacher, BA; David Helfet, MD; Dean Lorich, MD

- 9:18 am Discussion
- 9:24 am Break

8:00 am - Concurrent Breakouts

9:30 am (Descriptions on pages 50 - 53) Mini Symposia – No Charge.

Seating available first come, first-served.

8:00 am Critical Aspects of Orthopaedic Trauma in 2015 that Can Impact your Financial Future Moderator: Peter Althausen, MD, MBA Faculty: Timothy Bray, MD; Austin Hill, MD, MPH; Chris McBride, MBA; Justin Walker, MD; Anthony Williams ChFC, RFC, CLU

8:00 am NSAIDs and Bone Healing: Clinical Practice and Understanding the Discrepancies in the Literature Moderator: Steven A Olson, MD Faculty: Kamal Ajam, MD; Farshid Guilak, PhD; Alejandro Marguez-Lara, MD

8:00 am Educating in Fracture Surgery Moderator: Samir Mehta, MD Faculty: Tim Achor, MD; Jaimo Ahn, MD; Matthew Graves, MD

9:55 am - 11:15 am Symposium III Acetabular Fractures in Patients Older than 60 Moderator: Theodore T Manson, MD

Objectives

- The participant will learn the relative effectiveness of various treatments for this patient population
- Surgical Techniques of Percutaneous fixation, open reduction and internal fixation and hip replacment in this population
- Choosing the best option for your particular patient

Description: This symposium will focus on surgical techniques for the management of acetabular fractures in patients older than 60. A literature review will be included, but the heavy emphasis will be on actual surgical techniques. Reduction and fixation strategies including anterior ORIF, percutaneous fixation and fixation with concomittant THA. The participant should hopefully leave with improved surgical strategies for managment of these complex patients.

9:55 am	Comparitive Effectiveness of ORIF, Percutaneous Fixation and THA for the Management of Acetabular Fractures in Patients Older than 60 <i>Robert V O'Toole MD</i>
10:10 am	Approach, Reduction and Fixation of Acetabular Fractures through the Anterio Approach David L Helfet MD
10:25 am	Techniques for the Percutaneous Reduction and Fixation of Acetabular Fractures in Older Patients

Reduction and Fixation of Acetabular Fractures in Older Patients Adam J Starr MD 10:40 am ORIF plus Concomittant THA for Older

Patients with Acetabular Fractures Theodore T Manson MD

10:55 am Case Review-Discussion

11:15 am - 11:45 am Guest Nation Introduction Theodore Miclau III, MD, OTA President

Guest Nation Presentation



2015 Guest Nation - GERMANY It is a great honor to welcome *Professor Michael L Nerlich, MD*, 2015 President of both the German Society for Trauma Surgery and German Society for Orthopaedics and Trauma Surgery. We look forward to his enlightening presentation: The German Trauma Network Initiative - Challenges and Advantages.

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

Best International Forum Paper TBD

Annual Meeting - General Interest I Friday, October 9

Friday, October 9, 2015

11:45 am - 12:15 pm

John Border, MD Memorial Lecturer

Christian Krettek, MD, FRACS, FRCSEd, Professor and Chair Hannover School of Medicine Trauma Department Hannover, Germany

This lectureship was established to honor the memory of Dr. John Border. John Border was instrumental in the development of modern trauma care and in particular, modern orthopaedic trauma care. He was the pioneer in the concept of total care and the implications of the orthopaedic injuries on the total management of the trauma patient. He was also a surgeon scientist, using both his clinical observations and basic science research to further his patient care in Orthopaedic Trauma.

12:15 pm - 1:15 pm Lunch

12:30 pm - 1:15 pm	Guided Poster Tours (PT1) International Guide: Peter V Giannoudis, MD (PT2) Hip, Femur, Geriatric Guide: Thomas F Higgins, MD
1:15 pm – 2:45 pm	Concurrent Breakouts (Descriptions on pages 50 - 53)
1:15 pm – 2:15 pm	Skill Labs – No Charge. Seating available first come, first-served.
1:15 pm	(SL3) IM Nailing Proximal Tibia Fractures Lab Leader: Paul Tornetta III, MD
1:15 pm	(SL4) Fixation of Proximal Humerus Fractures Lab Leader: Andrew R Fras, MD
1:15 pm – 2:45 pm	Mini Symposia – No Charge. Seating available first come, first-served.
1:15 pm	Pelvic Ring Disruption Decision Making: Assessment of Stability, Strategies of Fixation, and Determining What Needs To Be Fixed
	Moderator: Jason Nascone, MD Faculty: Joshua L Gary, MD; Pierre Guy, MD; Conor P Kleweno, MD; H Claude Sagi, MD; Adam J Starr, MD
1:15 pm	Developing a Successful Clinical Research Program Moderator: <i>Heather A Vallier, MD</i> Faculty: <i>Mary Breslin, MD</i> ;

1:15 pm Rib Fracture Fixation and the Surgical Management of Flail Chest Injuries: State of the Art Moderator: *Michael D McKee, MD* Faculty: *Peter Althausen, MD; Niloofar Dehghan, MD; Aaron Nauth, MD; Emil H Schemitsch, MD; Gerard Slobogean, MD*

1:15 pm - 3:05 pm Paper Session 3 General Interest I: Pediatrics/Non-union/Spine/ Compartment Syndrome

> Moderators: David J Hak, MD Cyril Mauffrey, MD

1:15 pm Paper 50

Operative Versus Conservative Management of Displaced Tibial Shaft Fractures in Adolescents Matthew Kinney, MD; David Nagle, BA; Tracey Bastrom, MA; Michael Linn, MD; Alexandra Schwartz, MD; Andrew Pennock, MD

1:21 pm Paper 51

Fracture Classification Predicts Functional Outcomes in Supracondylar Humerus Fractures: A Prospective Study Anthony Riccio, MD; Justin Ernat, MD; Robert Wimberly, MD; David Podeszwa, MD; Christine Ho, MD

1:27 pm Paper 52

Factors that Predict Instability in Pediatric Diaphyseal Both Bone Forearm Fractures Jeffrey Kutsikovich, MD; Christopher Hopkins, MD; Edwin Gannon, BS; Derek Kelly, MD; Jeffrey Sawyer, MD

1:33 pm Paper 53

Best Trauma Paper of the 2015 POSNA Annual Meeting



Implementation of a Standardized Clinical Assessment and Management Plan (SCAMP) for Pediatric Distal Radius Fractures: Effect on Quality and Care Donald S Bae, MD; Rachel L DiFazio, MS, RN; Marie Harris, MPH; Dionne Graham, PhD; Rose Hamershock, MA; Susan Mahan, MD; Peter M Waters, MD

1:39 pm Discussion

William T Obremskey, MD

Friday, October 9, 2015

day, O	ctober 9, 2015	2:36 pm	Paper 61 Incidence of Complications After
1:44 pm	Paper 54 Factors Associated with Development of Non-Union or Delayed Healing following Open Fracture: A Prospective Cohort Study of 736 Subjects Don Weber, MD; Joseph Westgeest, BSc; Sukhdeep Dulai, MD, MSc;		Therapeutic Anticoagulations After Therapeutic Anticoagulation in the Postoperative Spine Trauma Patient Brian Shiu, MD; Elizabeth Le, MD; Timothy Costales, BS; Nicholas Caffes, BS; Ehsan Jazini, MD; Daniel Gelb, MD; Eugene Koh, MD, PhD; Bizhan Aarabi, MD; Steven Ludwig, MD
1:50 pm	Can Tibial Shaft Non-unions Be Predicted at the Time of Nail Fixation? <i>Kevin O'Halloran, MD; Max Coale, BA;</i> <i>Timothy Costales, BS; Timothy Zerhusen, BS;</i>	2:42 pm	Paper 62 Can Thrombelastography Predict Venous Thromboembolic Events in Patients with Spine Trauma? Mark Prasarn, MD; Zayde Radwan, MD; Prism Schneider, MD, PhD, FRCSC; Joshua Gary, MD
1:56 pm	Renan Castillo, MD; Jason Nascone, MD; Robert O'Toole, MD Paper 56 Prospective Prediction of Tibial and Femoral Shaft Fracture Nonunion at Four	2:48 pm	Paper 63 Narcotic Requirements is Not Predictive of Adult Traumatic Compartment Syndrome Ehsan Jazini, MD; Ebrahim Paryavi, MD, MPH; Christine Helou, MD; Joshua Abzug, MD
	Months Sarah Foyil, BA; Brett Schiffman, BA; Frank DiSilvio, BS; Mitchell Bernstein, MD, FRCSC; Hobie Summers, MD; William Lack, MD	2:54 pm	Paper 64 Microdialysis Detects Ischemic Change Early in Acute Compartment Syndrome: An Improvement over Standard
2:02 pm 2:07 pm	Discussion Paper 57 Ketorolac Administered in the Recovery Room for Acute Pain Management Does Not Affect Healing Rates of Femoral and Tibial Fractures	3:00 pm 3:05 pm	Intra-Compartmental Pressure Monitoring Alexander Crespo, BS; Sanjit Konda, MD; Abraham Goch, BS; Kenneth Egol, MD Discussion Break
	<i>David Donohue, MD</i> ; Drew Sanders, MD; Rafael Serrano-Riera, MD; Charles Jordan, MD; H Claude Sagi, MD		Paper Session 4 Pelvis Acetabulum Stephen Kottmeier, MD
2:13 pm	Paper 58 Posttraumatic Tibial Defects Treated By		Paul Tornetta III, MD
	The Ilizarov Method: Comparison of Classic Versus Integrated Technique <i>Mitchell Bernstein, MD, FRCSC;</i> <i>Austin Fragomen, MD; Samir Sabharwal, BA;</i> <i>Jonathan Barclay, BA; S Rozbruch, MD</i>	3:35 pm	Paper 65 Anatomic Reduction of Acetabular Frac- tures – When is the Best Time to Operate? <i>Steven Dailey, MD; Michael Archdeacon, MD;</i> <i>Caleb Phillips, PhD; Joseph Radley, MD</i>
2:19 pm	Paper 59 Is this Autograft Worth It? The Blood Loss and Transfusion Rates Associated with RIA Bone Graft Harvest Lucas Marchand, MD; David Rothberg, MD; Erik Kubiak, MD; Thomas Higgins, MD		Paper 66 The Effect of Three Dimension Printing Modeling for Treating Complex Acetabular Fractures-A Randomized Prospective Study Kun Zhang, MD; Hu Wang, MD
2:25 pm	Paper 60 Treatment of Hypovitaminosis D in an Orthopaedic Trauma Population Brendan Andres; Benjamin Childs, BS; Anna Wallace, MD; Heather Vallier, MD	3:47 pm 3:52 pm	Discussion Paper 67 Does Injury Mechanism Influence Eventual Conversion to THA After Acetabular Frac- tures in Geriatric Patients? Agreen Jahnson MD: Debert O'Taolo MD:
2:31 pm	Discussion		Aaron Johnson, MD; Robert O'Toole, MD; Patrick Greenwell, BS; Theodore Manson, MD

Annual Meeting - Femur and Polytrauma

Friday, October 9

OTA ANNUAL MEETING, continued

Friday, October 9, 2015

3:58 pm Paper 68 Long Term Hip Joint Survival and Clinical **Results in Conservatively Treated Acetabular Fractures** John Clarke-Jenssen, MD; Anette Wikerøy, MD; Ingrid Eitzen, PhD; Jan Erik Madsen, MD, PhD, Professor 4:04 pm Discussion 4:09 pm Paper 69 Surgery for Unilateral Sacral Fractures: Are the Indications Clear? Paul Tornetta, MD; Julie Agel, ATC; Sean Nork, MD; Clifford Jones, MD, FACS; Heather Vallier, MD; Brian Mullis, MD; Zachary Roberts, MD; James Goulet, MD; Anna Miller, MD, FACS; Andrew Schmidt, MD 4:15 pm Paper 70 Posterior Fixation in APC-2 Pelvic Ring Injuries Decreases the Rates of Anterior Plate Failure and Malunion Frank Avilucea, MD; Paul Whiting, MD; Hassan Mir, MD, MBA 4:21 pm Paper 71 A Prospective Trial Comparing Magnetic Resonance Imaging-Detected Pelvic Ligament Injury to Displacement On Pelvic Stress Examination Under Anesthesia Brendan O'Daly, MD FRCS(Tr&Orth); Lina Chen, MD; Derik Davis, MD; Joshua Gary, MD; Christopher Lebrun, MD; Christina Boulton, MD; Theodore Manson, MD; Jason Nascone, MD; Marcus Sciadini, MD; Michael Mulligan, MD; Robert O'Toole, MD 4:27 pm Discussion 4:30 pm - 5:45 pm Concurrent Breakouts (Descriptions on pages 50 - 53) Mini Symposia – No Charge. Seating available first come, first-served. 4:30 pm Getting Your Fragility Fracture Program Off the Ground: A Primer for the Orthopaedic Trauma Surgeon Moderator: James A Goulet, MD Faculty: Kyle J Jeray, MD; Clifford B Jones, MD;

Joseph M Lane, MD; Debra Sietsema, MD

4:30 pm The Social Savvy Surgeon: Strategies to Manage Your Online **Reputation and Enhance Patient** Care

Moderator: Lisa K Cannada, MD Faculty: Howard Luks, MD; Steven Mora; Jeffrey Smith, MD; Lisa Taitsman, MD

4:32 pm - 5:48 pm Paper Session 5 Femur and Polytrauma

Moderators: Gilbert R Ortega, MD

David H Chafey III, MD

4:32 pm Paper 72

Fixed-angle versus Polyaxial Locking Plate Fixation Systems for Periprosthetic and/or Osteoporotic **Distal Femoral Fractures** Nikolaos Kanakaris, MD, PhD; Oghofori Obakponovwe, MRCS; Jerome Edet, MRCS; Matthew Costa, MD: David Shaw, MD, MSc, FRCS; Khitish Mohanty, MD, FRCS; Peter Giannoudis, MD, FRCS, MBBS, BS

4:38 pm Paper 73

The Effect of Knee Flexion Contracture on Outcomes of Distal Femur Fractures Paul Tornetta, MD; Margaret Cooke, MD; Kenneth Egol, MD; Clifford Jones, MD, FACS; Janos Ertl, MD; Brian Mullis, MD; Ed Perez, MD; Cory Collinge, MD; Robert Ostrum, MD; Catherine Humphrey, MD; Robert Dunbar, MD; Michael Gardner, MD; William Ricci, MD; Laura Phieffer, MD; David Teague, MD; William Ertl, MD; Christopher Born, MD; Alan Zonno, MD; Jodi A Siegel, MD; H Claude Sagi, MD; Andrew Pollak, MD; Andrew Schmidt, MD; David Templeman, MD; Stephen Sems, MD; Darin Friess, MD

4:44 pm Paper 74

Malalignment after minimally Invasive Plate Osteosynthesis in the Distal Femoral Fractures Chang-Wug Oh, MD, PhD; Joon-Woo Kim, MD, PhD; Jong-Keon Oh, MD, PhD; Kyeong-Hyeon Park, MD

4:50 pm Discussion

Pre-Registration Deadline September 30, 2015; On-site Registration - additional \$100. See Page 59.

Friday, October 9, 2015

4:55 pm Paper 75

Trochanteric Entry Femoral Nails Yield Better Post-Operative Femoral Version and Lower Revision Rates Than Retrograde and Piriformis Entry Nails A Large Cohort Multivariate Regression Analysis Richard Yoon, MD; Mark Gage, MD; David Galos, MD; Derek Donegan, MD; Frank Liporace, MD

5:01 pm Paper 76

Sagittal Femoral Bow is Dependent on Bone Density

John Lee, MD, MS; Samuel Rosenbaum, MD; Manuel Schubert, MD; Stewart Wang, MD, PhD; James Goulet, MD

5:07 pm Paper 77

Immediate Weight Bearing as Tolerated has Improved Outcomes Compared to Non-Weight Bearing after Intramedullary Fixation for

Subtrochanteric Fractures Brian P Cunningham, MD; Brian Miller, MD; Anthony Rhorer, MD; Gilbert Ortega, MD, MPH; Hrayr Basmajian, MD; justin Roberts, MD; Kelly Jackson, NP; Saif Zaman, MD

5:13 pm Paper 78

Do We Really Understand the Patient Populations in Database Research: A Comparison of Femoral Shaft Fracture Patients in Three Commonly Used National Databases

Andre Samuel, BBA;

Adam Lukasiewicz, MSc; Matthew Webb, BA; Daniel Bohl, MPH; Bryce Basques, BS; Arya Varthi, MD; Michael Leslie, DO; Jonathan Grauer, MD

- 5:19 pm Discussion
- 5:24 pm Paper 79

Patient Specific Injury Profiles Predict Organ Failure in Multiply Injured Patients Greg Gaski, MD; Travis Frantz, BS; Tyler McCarroll, BS; Scott Steenburg, MD; Todd McKinley, MD

5:30 pm Paper 80

Limb Salvage Versus Transtibial Amputation: A Comparison of Functional Gait Outcomes Katharine Mangan, MD; Trevor Kingsbury, MA; Marilynn Wyatt, MA, PT; Kevin Kuhn, MD

5:36 pm Paper 81

An Evaluation of the OTA-OFC System in Clinical Practice: A Multi-center Study with 90 Day Outcome Joseph Johnson, MD; Matthew Karam, MD; Julie Agel, ATC 5:42 pm Discussion 5:48 pm Adjourn

5:48 pm - 6:45 pm 'Suds and Science' Guided Poster Tours (PT3) Foot and Ankle Guide: Paul Tornetta III, MD (PT4) Upper Extremity Guide: Michael D McKee, MD Enjoy a poster tour, lively discussion, and a beverage with colleagues.

5:48 pm - 6:45 pm Exhibit Reception

Saturday, October 10, 2015

6:30 am – 7:30 am	Concurrent Breakouts (Descriptions on pages 50 - 53)
6:30 am – 7:30 am	Skill Labs – No Charge. Seating available first come, first-served.
6:30 am	(SL5) Complex Ankle Fractures: Posterior Malleolus, Syndesmosis Lab Leader: John Alan Scolaro, MA, MD
6:30 am	(SL6) Fixation of Intra-Articular Distal Humeral Fractures Lab Leader: <i>Michael D McKee</i> , <i>MD</i>
6:30 am – 7:30 am	Case Presentations – No Charge. Seating available first come, first-served.
6:30 am	Proximal Humerus Fractures: Optimizing Surgical Management and Technique in 2015 Moderator: Emil H Schemitsch, MD Faculty: Pierre Guy, MD; Dean G Lorich, MD; Michael D McKee, MD; Aaron Nauth, MD; David C Ring, MD
6:30 am	What Could Go Wrong Did: Getting Out of Trouble Moderator: Lisa K Cannada, MD Faculty: Clifford B Jones, MD; Matt Mormino, MD; Brian H Mullis, MD
6:30 am	"Young" Femoral Neck Fractures – Why Do They Cause so Much Stress? Moderator: <i>Brett D Crist, MD</i> Faculty: <i>Tania Ferguson, MD;</i>

Christopher Finkemeier, MD;

Mark A Lee, MD

Friday-Saturday, October 9-10

Annual Meeting - Foot and Ankle

OTA ANNUAL MEETING, continued

aturday, Octob	er 10, 2015	9:30 am - 11:00 am	Concurrent Breakouts (Descriptions on pages 50 - 53)	day, O
6:30 am	Distal Femur Fractures – Not as Easy as You Think Moderator: Samir Mehta, MD		Mini Symposia – No Charge. Seating available first come, first-served.	Saturday, October 10
7:45 am - 9:00 am	Faculty: Timothy Achor, MD; Derek Donegan, MD; Hobie Summers, MD Symposium IV	9:30 am	in the Mangled Extremity Moderator: <i>Raymond A Pensy, MD</i> Faculty: <i>H Michael Frisch, MD;</i>	0
	Elbow Trauma: How to Improve		Joseph Hsu, MD; Stephen J Kovach III, MD	
The role of aHow to man surgery	Outcomes in 2015! Moderator: <i>Michael D McKee, MD</i> ow to optimize fixation of elbow fractures arthroplasty in managing elbow fractures age complications following elbow fracture management of elbow fractures remains difficult	9:30 am	The Treatment of Periprosthetic Fractures in 2015: Can We Reach a Consensus? Moderator: Emil H Schemitsch, MD Faculty: George Haidukewych, MD; Michael D McKee, MD; Aaron Nauth, MD	
and controversial. Th	ne failure rate of operative intervention remains n with other fractures and there remains signifi-	9:30 am - 11:08 am	Paper Session 6	
cant room for improv goal of the symposiu many current issues	rement in the care of these injuries. A primary im will be to achieve consensus opinions on and controversies regarding the treatment of	Moderators:	Foot and Ankle Robert V OToole, MD Thomas F Higgins, MD	
7:55 am	Distal Humerus Fractures: Evidence Based Management Emil H Schemitsch, MD Radial Head / Neck Fractures: When and How to Fix Kenneth A Egol, MD Terrible Triad Injuries:	9:30 am	Paper 82 Can Long Acting Local Anesthetic Improve Outcomes in Ankle Fractures Requiring ORIF: A Prospect Randomized Pilot Study Roy Davidovitch, MD; Abraham Goch, I Sanjit Konda, MD; Christian Pean, MS; Kenneth Egol, MD	
0.03 am	How to Improve Outcomes Aaron Nauth, MD	9:36 am	Paper 83 Association between Opioid Intake an	
8:15 am	Monteggia Fracture Dislocations: Timing and Techniques David C Ring, MD		Disability after Operative Treatment of Ankle Fractures Abigail Finger, BA; Teun Teunis, MD;	f
8:25 am	Complex Injuries: The Role of Arthroplasty	0.40	Michiel Hageman, MD; Emily Thornton, E Malcolm Smith, MD; David Ring, MD, Ph	
8:35 am	Niloofar Dehghan, MD Managing Complications in Elbow Fracture Surgery Michael D McKee, MD	9:42 am	Paper 84 Incisura Morphology as a Risk Factor Syndesmotic Malreduction Steven Cherney, MD; Amanda Spragge Liuphon MA:	for
8:45 am	Cases, Questions, Discussion, Consensus		Amanda Spraggs-Hughes, MA; Christopher McAndrew, MD; William Rico Michael Gardner, MD	ci, MD;
9:00 am	Break	9:48 am	Discussion	

Annual Meeting - Foot and Ankle

Saturday, October 10

OTA ANNUAL MEETING, continued

Saturday, October 10, 2015 10:39 am Paper 91 The Failed Pilon: Factors Associated with 9:53 am Paper 85 Delayed Amputation, Arthroplasty, or **Does Physical Therapy Predict Outcomes** Arthrodesis after Open Reduction after Ankle Fractures and Ankle Fractureand Internal Fixation **Dislocations?** Mara Schenker, MD; Daniel Patton, MD; Luke Harmer, MD, MPH, FRCSC; Jonathan Kark, MD; David Barei, MD; Chad Ferguson, MD; Rachel Seymour, PhD; Daphne Beingessner, MD J Kent Ellington, MD; 10:45 am Paper 92 CAPT (ret) Michael Bosse, MD Fixation of Tibial Pilon Fractures: Which 9:59 am Paper 86 Side of the Tibia Do I Plate? Peroneal Irritation After Lateral Malleolar Gennadiy Busel, MD; J Tracy Watson, MD; Fractures Heidi Israel, PhD, RN Paul Tornetta, MD; Margaret Cooke, MD; 10:51 am Paper 93 Clifford Jones, MD, FACS; Janos Ertl, MD; Predictors of Amputation in High-Energy Brian Mullis, MD; Michael Gardner, MD; Ken-Forefoot and Midfoot Injuries neth Egol, MD; William Ricci, MD; Zacharv Working, MD: Jain Elliott, MD: David Teague, MD; William Ertl, MD; Lucas Marchand, MD; Lance Jacobson, MD; Laura Phieffer, MD; Cory Collinge, MD; Angela Presson, PhD; Ami Stuart, PhD; Ross Leighton, MD, FRCSC, FACS Thomas Higgins, MD; Erik Kubiak, MD; 10:05 am Paper 87 David Rothberg, MD Reduction Clamp Force Associated with 10:57 am Paper 94 Syndesmotic Over-Compression: A Randomized, Prospective Comparison of A Pilot Study Bioabsorbable and Steel Screw Fixation of Jacob Haynes, MD; Steven Cherney, MD; **Lisfranc Injuries** Amanda Spraggs-Hughes, MA; Jamal Ahmad, MD Christopher McAndrew, MD; William Ricci, MD; 11:03 am Discussion Michael Gardner, MD 10:11 am Discussion 11:00 am – 12:15 pm Concurrent Breakouts 10:16 am Paper 88 (Descriptions on pages 50 - 53) A Clinical Comparison of Treatment of Mini Symposia - No Charge. Deltoid Ligament Injuries in Ankle Fracture: Seating available first come, first-served. Repairing the Deep Deltoid or Superficial or NOT 11:00 am From Good to Great: Improving your Xu Sun, MD; Ting Li, MD; Yuneng LI, MD; Treatment of Pelvic Trauma Xie-Yuan Jiang, MD; Xinbao WU, MD; Moderators: Jaimo Ahn, MD and Manyi Wang, MD Derek Donegan, MD Faculty: Andrew R Burgess, MD; 10:22 am Paper 89 David L Helfet, MD; The Diagnostic Accuracy of Mortise Milton L 'Chip' Routt, MD; Radiographs and MRI in Predicting Deltoid H Claude Sagi, MD; Ligament Ruptures in Supination External Adam J Starr, MD **Rotation Ankle Fractures** Stephen Warner, MD, PhD; 11:00 am Disaster Management: Are You Prepared? Matthew Garner, MD; Patrick Schottel, MD; Moderator: Samir Mehta, MD David Helfet, MD: Dean Lorich, MD Faculty: Paul T Appleton, MD; James C Krieg, MD; 10:28 am Paper 90 Christian N Mamczak, DO; Medial Clamp Tine Positioning Using Sagib Rehman, MD Intraoperative Fluoroscopy Affects Syndesmosis Malreduction 11:00 am The 8 Practices of Highly Successful Christopher Cosgrove, MD; Surgeons Sara Putnam, MD; Steven Cherney, MD; Moderator: Jeffrey M Smith, MD William Ricci, MD; Christopher McAndrew, MD; Faculty: Virginia Aherin, CPC; Amanda Spraggs-Hughes, MA; Tambre Leighn, CPC; Michael Gardner, MD Chris Moody, CPC

10:34 am Discussion

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Annual Meeting - Hip Fractures Saturday, October 10

Saturday, Octob	er 10, 2015	11:48 am	Paper 100	۹ ۲ , 0
11:08 am - 12:22 pm Moderators:	Paper Session 7 Hip Fractures Michael J Gardner, MD Dean G Lorich, MD		Myth or Taboo? Use of Long Threaded Screws in Femoral Neck Fractures Hyung Keun Song, MD; Kyu Hyun Yang, MD; Jun Young Chung, MD;	October 10
11:08 am	Paper 95 Femoral Neck Shortening Is Associated with Worse Functional Outcome: Analysis of The Prospective Multi-Center Study of Hip Fracture Outcomes in China (SHOC) <i>Gerard Slobogean, MD, MPH, FRCSC;</i> David Stockton, MD; Bingfang Zeng, MD; Dong Wang, MD; Baotong Ma, MD; Andrew Pollak, MD	11:54 am	Dong Hyun Kang, MD; Zuanlin Zheng, MD Paper 101 Percutaneous Cannulated Screw Versus Dynamic Hip Screw Fixation for Intracapsular Femoral Neck Fracture: A Comparative Study Girish Swamy, MRCS; Ali Shah, MRCS; Sami Hassan, MRCS;	
11:14 am	Paper 96 A Case-Control Study of Total Hip Arthroplasty after Failed Proximal Femoral Fracture Fixation: David Walmsley, MD; Zachary Morison, MSc; Aaron Nauth, MD, FRCSC; Michael McKee, MD; James Waddell, MD, FRCSC; Emil Schemitsch, MD	12:00 pm 12:05 pm	Abdul Aziz, MRCS; Christopher Moran, MD, FRCS; Daren Forward, MD Discussion Paper 102 Relationship between the Charlson Comorbidity Index and Cost of Treating Geriatric Hip Fractures:	
11:20 am 11:25 am	Discussion Paper 97 Hip Fracture Treatment at Orthopaedic Teaching Hospitals: Better Care at a Lower Cost Sanjit Konda, MD; Arthur Manoli, BS; Karan Patel, BS; Kenneth Egol, MD		Implications for Bundled Payment Daniel Johnson, BS; Vasanth Sathiyakumar, BA; Sarah Greenberg, BA; Rachel Thakore, B Jesse Ehrenfeld, MD, MPH; Hassan Mir, MD, MBA; Amir Jahangir, MD Manish Sethi, MD; William Obremskey, MD, MPH	
11:31 am	Paper 98 Is it Safe to Operate on Therapeutically Anticoagulated Hip Fractures? David Saper, MD; Kyle Lybrand, MD; Kasey Bramlett, PA-C; Michael Kain, MD; Paul Tornetta, MD; Peter Althausen, MD, MBA; Andrew Marcantonio, DO, MBA	12:11 pm	Paper 103 Missing Data May Invalidate Hip Fractu Database Studies Bryce A Basques, MD, MHS; Adam Lukasiewicz, MSc; Andre Samuel, I Matthew Webb, BA; Daniel D Bohl, MD, M Jonathan Grauer, MD	BBA;
11:37 am	Paper 99 Short vs Long Cephalomedullary Nails for Fixation of Stable vs. Unstable Intertrochanteric Femur Fracture at a	12:17 pm 12:22 pm - 1:22 pm	Discussion Lunch	
	Level I Trauma Center Michael Beebe, MD; D Andrew Hulet, BS; Casey Whale, BS; Chong Zhang, MS; Jeremy Gililland, MD; David Rothberg, MD; Erik Kubiak, MD	12:35 pm - 1:20 pm	Guided Poster Tours (PT5) Knee/Tibia Guide: J Tracy Watson, MD (PT6) Reconstruction/General Interest Guide: Michael J Gardner, MD	

Pre-Registration Deadline September 30, 2015; On-site Registration - additional \$100. See Page 59.

11:43 am Discussion

Saturday, October 10

Saturday, October 10, 2015		
1:22 pm - 3:00 pm Moderator:	Paper Session 8 Infection & General Interest II David Sanders, MD Brett D Crist, MD	
1:22 pm	Paper 104 Topical Vancomycin Powder Decreases the Incidence of S Aureus Infections in Operatively Treated Fractures Rabah Oadir, MD; Timothy Costales, BS; Max Coale, BA; Timothy Zerhusen, BS; Manjari Joshi, MD; Robert O'Toole, MD	
1:28 pm	Paper 105 Topical Antibiotics for Infection Prophylaxis in Pelvic and Acetabular Surgery Matthew Owen, MD; Jason Lowe, MD; Emily Keener, DO; Zane Hyde, MD; Reaves Crabtree, BS	
1:34 pm	Paper 106 Vancomycin Powder Reduces Infection in an Open Fracture Model David Tennent, MD; Stefanie Shiels, PhD; Carlos Sanchez, PhD; Daniel Stinner, MD; Joseph Wenke, PhD	
1:40 pm	Discussion	
1:45 pm	Paper 107 Open Ankle Fractures: What Predicts Infection? Paul Tornetta, MD; Margaret Cooke, MD; Douglas Weinberg, MD; Heather Vallier, MD; Reza Firoozabadi, MD; Timothy Alton, MD; Megan Shimota, MD; Jerald Westberg, BA; CAPT (ret) Michael Bosse, MD; Daniel Leas, MD; Michael Archdeacon, MD; Rafael Kakazu, MD; Robert O'Toole, MD; Timothy Costales, BS; Brian Mullis, MD; Kenneth Egol, MD; Stephen Kottmeier, MD; David Sanders, MD; Clifford Jones, MD, FACS; Anna Miller, MD, FACS	
1:51 pm	Paper 108 Fracture Union Following Infected Hardware Fixation – A Prospective Population Based Cohort Study Daniel Benz, MBBS; Nick Fountas, MBBS; Reza Rahim, MBBS; Mark Loewenthal, FRACP; Khine Swe, MBBS; David Dewar, FRACS (Ortho)	

1:57 pm Paper 109 Correlation between Routine Microbiology **Results at Definitive Closure and Wound** Infection in Type III Tibia Fractures: Results from a Multi-Center, Prospective Cohort Study CAPT (ret) Michael Bosse, MD; METRC Bioburden 2:03 pm Discussion 2:08 pm Paper 110 **Culture Negative Infection After Traumatic** Injury I Leah Gitajn, MD; Marilyn Heng, MD; Mitchel Harris, MD 2:14 pm Paper 111 Can MRSA Screening Swabs Help Predict **Risk of Post-Operative Infection Following Open Fracture Treatment?** Cassandra Cardarelli, MD; Matt Vasquez, MD; Jacob Glaser, MD; Sarah Murthi, MD; Michelle Romero, BS; Kerry Campbell, BS; Michael McCusker, BS; Marcus Sciadini, MD; Robert O'Toole, MD; Manjari Joshi, MD; 2:20 pm Paper 112 Vancomycin and Cefepime Antibiotic Prophylaxis for Open Fractures as Effective As Cefazolin And Gentamicin, Avoids Potential Nephrotoxicity, Does Not Result in Antibiotic Resistance with MRSA Benjamin Maxson, DO; Rafael Serrano-Riera, MD; Mark Bender, DC; H Claude Sagi, MD 2:26 pm Discussion 2:31 pm Paper 113 A Supply and Demand Analysis of the Orthopaedic Trauma Surgeon Workforce in the United States John Sielatycki, MD; Hassan Mir, MD, MBA; Jeffrey Sawyer, MD 2:37 pm Paper 114 Effect of a Dedicated Orthopaedic Advanced

Reza Firoozabadi, MD; Benjamin Hamilton, BS, MS; Julie Agel, ATC; M Bradford Henley, MD, MBA, FACS

Practice Provider in a Level I Trauma Center:

Analysis of Length of Stay and Cost Elise Hiza, MD; Michael Gottschalk, MD; Erica Umpierreze, BA; Patricia Bush, MS;

Does Nutritional Intervention Improve Nutritional Outcomes in Orthopaedic Trauma Patients, A Randomized Prospective Study

William Reisman, MD

Paper 115

2:43 pm

OTA ANNUAL MEETING, continued

Saturday, October 10, 2015

2:49 pm	Paper 116 Do Patients know their Post-Operative Plan?: A Prospective Cohort Study of Orthopaedic Trauma Patients Adam Jester, MD; Christopher Ruland, MS; Ebrahim Paryavi, MD, MPH; Max Coale, BA, Timothy Zerhusen, BS; Robert O'Toole, MD
2:55 pm	Discussion
1:30 pm – 3:00 pm	Concurrent Breakouts (Descriptions on pages 50 - 53) Mini Symposia – No Charge. Seating available first come, first-served.
1:30 pm	From the Operating Room to the Boardroom - Applying an MBA to Benefit Orthopaedic Traumatology Moderator: Hassan R Mir, MD, MBA Faculty: Peter L Althausen, MD, MBA; David J Hak, MD, MBA; M Bradford Henley, MD, MBA; Robert A Probe, MD; Craig S Roberts, MD, MBA; George V Russell, MD, MBA
1:30 pm	ORIF Versus Acute Arthroplasty for Common Extremity Injuries: What Does Evidence-Based Medicine Tell Us? Moderator: Emil H Schemitsch, MD Faculty: Hans Kreder, MD; Michael McKee, MD; Aaron Nauth, MD; Andrew Schmidt, MD
3:00 pm	Break - NO EXHIBITS
3:15 pm - 5:10 pm Moderator:	Paper Session 9 Upper Extremity and Wrist Gerard P Slobogean, MD Raymond A Pensy, MD
3:15 pm	Paper 117 Anterior-Inferior Plating Results in Fewer Secondary Interventions Compared to Superior Plating for Acute Displaced Mid-Shaft Clavicle Fractures

Rafael Serrano-Riera, MD;

H Claude Sagi, MD; Roy Sanders, MD

3:21 pm Paper 118

Introducing the Surgical Therapeutic Index in Trauma Surgery: An Assessment Tool for the Benefits and Rsks of Different Operative **Fracture Treatment Strategies** Olivier Van Der Meijden, MD, PhD; Marijn Houwert, MD, PhD; Frans-Jasper Wijdicks, MD, PhD; Marcel Dijkgraaf, PhD; Luke Leenen, Prof. dr.; Michael Verhofstad, MD, PhD; Egbert JMM Verleisdonk, MD, PhD

3:27 pm Paper 119

Effects of Injury and Social Factors on Functional Outcomes After **Clavicle Fracture** Joshua Napora, MD; Dominic Grimberg, BS; Benjamin Childs, BS; Heather Vallier, MD

3:33 pm Discussion

3:38 pm Paper 120

Results and Outcomes After Midshaft Clavicle Fracture: Matched Pair Analysis of Operative Versus Non-Operative Management Joshua Napora, MD; Dominic Grimberg, BS; Benjamin Childs, BS; Heather Vallier, MD

Paper 121 3:44 pm

Scapular Dyskinesis Following Displaced Fractures of the Middle Clavicle Edward Shields, MD; Caleb Behrend, MD; Tanya Beiswenger, DPT; Benjamin Strong, MD; Michael Maloney, MD; Ilya Voloshin, MD

3:50 pm Paper 122

Proximal Humerus Fracture Fixation with Locking Plate: Screws with a Length of 45 mm or Longer Are Related to Increased **Risk of Cut-Out** Julien Goulet, MD; Jérémie Ménard, Ing;

Julien Chapleau, MD, MSc; Georges-Yves Laflamme, MD, FRCSC; Dominique Rouleau, MD, MSc, FRCSC

3:56 pm Discussion

Saturday, October 10 Annual Meeting - Upper Extremity & Wrist

OTA ANNUAL MEETING, continued

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4:01 pm Paper 123

The Impact of Residual Angulation on Patient Reported Functional Outcome Scores after Non-operative Treatment for Humeral Shaft Fractures Edward Shields, MD; Leigh Sundem, BS; Sean Childs, BS; Michael Maceroli, MD; Catherine Humphrey, MD; John Ketz, MD; Gillian Soles, MD; John Gorczyca, MD

4:07 pm Paper 124

Scoring Cortical Healing of Humeral Shaft Fractures Improves Interobserver Reliability Anthony Christiano, BA; Abraham Goch, BS; Christopher Burke, MD; Philipp Leucht, MD, PhD; Kenneth Egol, MD; Sanjit Konda, MD

4:13 pm Paper 125

Optional Follow-Up Visits for Common, Low-Risk Arm Fractures Abigail Finger, BA; Teun Teunis, MD; Michiel Hageman, MD; Emily Thornton, BS; Valentin Neuhaus, MD PhD; David Ring, MD PhD

- 4:19 pm Discussion
- 4:24 pm Paper 126

Impact of Olecranon Fracture Malunion: Study on the Importance of PUDA (Proximal Ulna Dorsal Angulation) Julien Chapleau, MD, MSc; Frédéric Balg, MD, FRCSC; Edward Harvey, MD, MSc, FRCSC; Jérémie Ménard, Ing; Frédéric Vauclair, MD; George Laflamme, MD; Dominique Rouleau, MD, MSc, FRCSC

4:30 pm Paper 127

Surgical Treatment of Chronic Elbow Dislocation Allowing Early Range of Motion: Operative Technique and Early Clinical Results Justin Haller, MD; Lucas Anderson, MD;

Duane Anderson, MD

4:36 pm Paper 128

Posttraumatic Elbow Arthrofibrosis Incidence and Risk Factors: A Retrospective Review Lucas Marchand, MD; Zachary Working, MD; J Williams, MD; Iain Elliott, MD; Ami Stuart, PhD; David Rothberg, MD; Thomas Higgins, MD; Erik Kubiak, MD

4:42 pm Paper 129

Early Mobilization Versus Plaster Immobilization of Simple Elbow Dislocations: A Cost Analysis of the (Blinded) Multicenter Randomized Clinical Trial *GIT lordens, MD*; *Esther Van Lieshout, PhD, MSc; Suzanne Polinder, PhD; Denise Eygendaal, MD, PhD; Michael Verhofstad, MD, PhD; Niels Schep, MD, MSc, PhD;*

Dennis Den hartog, MD, PhD

4:48 pm Discussion

4:53 pm Paper 130

Dorsal Tangential View: A Useful Tool for Assessment of Dorsal Screw Penetration in Distal Radius Fracture Fixation? Devin Ganesh, MD; Ben Service, MD; Brian Zirgibel, MD; Kenneth Koval, MD

4:59 pm Paper 131

Timing of Treatment of Open Distal Radial Fractures in Adults Jarid Tareen, MD; Adam Kaufman, MD; Raymond Pensy, MD; Robert O'Toole, MD; Andrew Eglseder, MD 5:05 pm Discussion

5:10 pm Closing Remarks and Adjourn



Saturday, October <u>10</u>

POSTER LISTING

Poster 1

Posterior Facet Settling and Changes in Bohler's Angle in Operatively and Non-Operatively Treated Calcaneus Fractures: Implications for Management

Tyler Gonzalez, MD MBA; Robert Lucas, BA; Timothy Miller, MD; I. Leah Gitajn, MD; David Zurakowski, PhD; John Kwon, MD

Poster 2

Functional Outcomes of Minimally Invasive Versus Extensile Lateral Approach for Intraarticular Calcaneus Fractures

Seth Gengler, DO; Michael Swords, DO; Robert Zondervan, MS; Landon Fine, DO; Phillip Penny, DO, MA, BS; Andrew Sands, MD

Poster 3

Modification of the Distal Tibiofibular Relationship of the Normal Ankle in Plantar Flexion and Dorsiflexion Measured on MR images Marie-Lyne Nault, MD, PhD; Jonah Hebert-Davies, MD; Mélissa Marien; George Laflamme, MD; Dominique Rouleau, MD, MSc, FRCSC; Vincent Pelsser, MD; Stéphane Leduc, MD

Poster 4

Efficacy of Immediate Postoperative Pain Control Modalities after Ankle Fracture Fixation: A Multimodal Comparison

David Ding, MD; Christian Pean, MS; Sudheer Jain, MD; Kenneth Egol, MD; Nirmal Tejwani, MD

Poster 5

Open Treatment of Ankle Fracture as an Inpatient Increases the Risk of a Complication

Frank Avilucea, MD; Paul Whiting, MD; Sarah Greenberg, BA; Basem Attum, MD; Amir Jahangir, MD; Hassan Mir, MD, MBA; William Obremskey, MD, MPH; **Manish Sethi**, **MD**

Poster 6

Predictors of Adverse Events for Ankle Fractures: An Analysis of 6,800 Patients

Sarah Greenberg, BA; Catherine Bulka, MPH; Amir Jahangir, MD; Hassan Mir, MD, MBA; Eduardo Burgos, MD; Ronald Baker, MD; William Obremskey, MD, MPH; **Manish Sethi, MD**

Poster 7

A Novel Method to Quantify Ankle Soft Tissue Envelope and its Association with Surgical Site Infections after Open Reduction Internal Fixation of Unstable Ankle Fractures

Michael Chiu, MD; Stephen Yu, MD; Andrew Worden, BS; Matthew Steffes, BS; Stuart Guthrie, MD

Poster 8

Improving Outcomes in Patients with Ankle and Hindfoot Fusions Following Trauma

Andrew Sheean, MD; David Tennent, MD; Johnny Owens, BS, MPT; Jason Wilken, PhD, MPT; Joseph Hsu, MD; Daniel Stinner, MD

Poster 9

Incidence of Preoperative Deep Venous Thrombosis in Isolated Calcaneal Fractures

Joan Williams, MD; Milton Little, MD; Patricia Kramer, PhD; Stephen Benirschke, MD

Poster 10

Early Weight-Bearing After Fracture Fixation Does Not Affect Fracture Healing or Loss of Fixation Compared with Non-Weight-Bearing

Brandon Horne, MD; Renn Crichlow, MD; Kathy Flint, MSN

Poster 11

Determinants of Functional Outcome after Operative Calcaneus Fractures Michael Hermelin, BA; Heather Vallier, MD

Poster 12

CT Assessment of Peroneal Tendon Displacement and Posteromedial Structure Entrapment in Pilon Fractures Alejandro Miranda, MD; Alex Fokin Jr, MD

Poster 13

Anatomic Syndesmotic Reduction: Using Intraoperative Fluoroscopic Imaging to Ensure Accurate Clamp Position Sara Putnam, MD; Michael Linn, MD; Michael Gardner, MD; Christopher Cosgrove, MD; Steven Cherney, MD; Amanda Spraggs-Hughes, MA; Christopher McAndrew, MD; William Ricci, MD

Poster 14

Operative Repair of Proximal Humerus Fractures in Septuagenarians and Octogenarians: How Old is Too Old? Abraham Goch, BS; Christian Pean, MS; Kari Broder, BA; Sanjit Konda, MD; Philipp Leucht, MD,PhD; Kenneth Egol, MD

Poster 15

Bisphosphonate Associated Periprosthetic Fractures: A Multicentre Retrospective Review of a New Cause of Periprosthetic Stress Fractures

Ross Leighton, MD, FRCSC, FACS; Juan De Dios Robinson, BA, MBBS, MSc, FRCS (Ortho); Kelly Trask, MSc; Yelena Bogdan, MD; Paul Tornetta, MD

Poster 16

Total Hip Arthroplasty for Femoral Neck Fractures: Does Hospital Arthroplasty Volume Influence Outcomes? *Michael Maceroli, MD; Lucas Nikkel, MD; Bilal Mahmood, MD; John Elfar, MD*

Poster 17

Does Admission to Medicine or Orthopaedics Impact a Geriatric Hip Patient's Hospital Length of Stay?

Sarah Greenberg, BA; Jacob VanHouten, MS; Robert Boyce, MD; Craig Melbourne, BS; Amir Jahangir, MD; Hassan Mir, MD, MBA; William Obremskey, MD, MPH; **Manish Sethi, MD**

Poster 18

Cephalomedullary Nail vs. Sliding Hip Screw for Fixation of OTA 31A1/2 Intertrochanteric Femur Fractures – a 12-Year Comparison Casey Whale, BS; Michael Beebe, MD; David Hulet, BS; Chong Zhang, MS; Jeremy Gililland, MD; David Rothberg, MD; Erik Kubiak, MD

Poster 19

Utility of Advanced Imaging in Treating Pelvic Ring Insufficiency Fractures in the Geriatric Population Harold Fogel, MD; Roman Natoli, MD; Daniel Holt, BS;

Adam Schiff, MD; Mitchell Bernstein, MD, FRCSC; Hobie Summers, MD; William Lack, MD

Poster 20

Helical Blade vs Lag Screw Fixation for Cephalomedullary Nailing of Low Energy Pertrochanteric Femur Fractures: Is there a difference in cutout?

Lorraine Stern, MD; John Gorczyca, MD; Stephen Kates, MD; John Ketz, MD; Gillian Soles, MD; Catherine Humphrey, MD

Poster 21

What are the Risk Factors for a Delay of 48 Hours or More in the Surgical Management of Geriatric Hip Fractures? *Michael Weaver, MD; Marilyn Heng, MD; Adil Shah, MD; Mitchel Harris, MD; Adil Haider, MD, MPH*

Poster 22

Retrospective Analysis of Distal Ulna Fractures Associated with Distal Radius Fractures in Women 50 Years and Older: Clinical, Radiographic, and Patient Related Outcomes

Geoffrey Johnston, MD, MBA; Laura Sims, MD; Samuel Stewart, PhD

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Prevalence of Osteoporosis, Low and Normal Bone Density in Women Over Fifty with a Distal Radius Fracture, and their Relationship to Clinical and Radiographic Outcomes Geoffrey Johnston, MD, MBA; Alexander Perreault, MD; Samuel Stewart, PhD

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Prophylactic Fixation of Contralateral Side is

Cost-Effective After Bisphosphonate-Associated Atypical Femur Fracture

Bonnie Chien, MD; David Kaufman, MD; Michael Longoria; Ross Shachter, PhD; Julius Bishop, MD

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Retrospective Review of Completed Displaced Femoral Neck Stress Fractures in Young Adults

Gregory Staeheli, MD; Kevin Kuhn, MD; Grant Cochran, MD

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Outcome of Periprosthetic Femoral Fractures with Retained Total Hip Arthroplasty Treated with a Polyaxial Locking Plate Martin Hoffmann, MD; Sebastian Lotzien, MD; Thomas Schildhauer, MD, PhD

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Extra-capsular Proximal Femoral Fractures (OTA/AO 31-A) in Young Adults Have Surprisingly Poor Outcomes

Darryl Ramoutar, MBBChir MA MSc FRCS (Tr&Orth); Preetham Kodumuri, MBBS MRCS; Jeremy Rodrigues, MBChB MRCS MSc; Simon Olewicz, MBBS; Christopher Moran, MD, FRCS; Daren Forward, MD

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Intraoperative Fluoroscopy Underestimates Malreduction of Displaced Femoral Neck Fractures

Garin Hecht, MD; Patrick Michelier, BS; Blythe Durbin-Johnson, PhD; Jonathan Eastman, MD

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Safety of Osseointegrated Prosthesis for Trans-femoral Amputees Munjed Al Muderis, FRACS, FRCS (Ortho), MB, ChB; Aditya Khemka, MBBS, MS Orthopedics, PhDc; Sarah Lord, MBBS, MSc; Henk Van de Meent, MD, PhD; Jan Paul Frolke, MD

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Return to Duty in Military Members Following Surgical Treatment of Incomplete Femoral Neck Fractures *Clare Griffis, MD; Vanna Rocchi, DO; Kevin Kuhn, MD*

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The Trochanteric Fixation Nail and Axial Migration: Tip-Apex Distance Revisited Stephen Flores, MD; Adam Wooldridge, MD, MPH; Dylan Homen, BS; Mark Jenkins, MD; Terrance Rodrigues, BS; Cyrus Caroom, MD

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Impact of Increasing Fracture Comminution and Severity on Achieving Optimal Femoral Version: An Analysis of 307 Intramedullary Femoral Nails *Richard Yoon, MD; David Galos, MD; Neeraj Patel, MD, MPH, MBS; Kenneth Egol, MD; Frank Liporace, MD*

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Fewer Complications Performing Total Hip Arthroplasty Through a Direct Anterior Approach for Femoral Neck Fracture Justin Haller, MD; Zachary Working, MD; Jeremy Gililland, MD; David Rothberg, MD; Erik Kubiak, MD

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Impact of Surrounding Canal Size on Union Following Limited Reamed Intramedullary Nailing of Femur Fractures Mark Gage, MD; Richard Yoon, MD; Daniel Seigerman, MD; Derek Donegan, MD; Philip Lim, BS, MD; John Koerner, MD; Frank Liporace, MD

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Intramedullary Nailing of Femoral Shaft Fractures: Does Size Matter? Rafael Serrano-Riera, MD; Roy Sanders, MD

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Morphological Variations and Regional Radii of Curvature of the Femur

John Lee, MD, MS; Samuel Rosenbaum, MD; Manuel Schubert, MD; Stewart Wang, MD, PhD; James Goulet, MD

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The Stability of Fixation of Proximal Femoral Fractures: A Radiostereometric Analysis

Daphne van Embden, MD; Guido Stollenwerck, MD; Lennard Koster, BS; Bart Kaptein, MD PhD; Rob Nelissen, MD PhD; I.B. Schipper, MD PhD

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The Effect of Helmet-Use on Motorcycle Trauma Outcomes Daniel Wiznia, MD; Chang-Yeon Kim, BS, MS; Alex Goel, BS; Michael Leslie, DO

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Multi-Disciplinary Malnutrition Screening Program in Orthopaedic Trauma Patients

Michael Willey, MD; Nathan Nicholson, MD; Matthew Karam, MD; Larry Marsh, MD

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Risk of Second Hip Fracture Persists for Years After Initial Trauma

Katie Sheehan, PT PhD; Boris Sobolev, PhD; Lisa Kuramoto, MSc; Pierre Guy, MD

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Extensor Mechanism Injuries of the Knee: Patient Demographics and Comorbidities from a Review of 726 Patients

Matthew Garner, MD; Elizabeth Gausden, MD; Marschall Berkes, MD; Joseph Nguyen, MPH; Dean Lorich, MD

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Does Partial Patellectomy Lead to Patella Baja?

Brooke Crawford, MD; David Leenan, BS; Lisa Cannada, MD

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Clinical and Radiographic Predictors of Acute Compartment Syndrome in Tibial Plateau Fractures

Axel Gamulin, MD; Anne Lübbeke, MD, DSc; Patrick Belinga, MD; Pierre Hoffmeyer, MD; Gregory Cunningham, MD

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The Treatment of Difficult Patella Fractures with the Multiple Wire and Tension Band Technique

Dustin Hambright, MD; Kempland Walley, BS; Amber Hall; Paul Appleton, MD; Edward Rodriguez, MD

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Posttraumatic Total Knee Arthroplasty Continues to Have Worse Outcome than Total Knee Arthroplasty for Osteoarthritis Matthew Houdek, MD; Eric Wagner, MD; Steven Shannon, MD; Chad Watts, MD; Stephen Sems, MD; Rafael Sierra, MD

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Early Posteromedial Incision Does Not Increase Wound Complications or Total Operative Time in AO/OTA 41 Type C Tibial Plateau Fractures

Darryl Auston, MD/PhD; Matthew Albanese, BS; Emil Azer, MD; Robert Simpson, MD

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Risk Factors for Infection after Operative Fixation of Tibial Plateau Fractures Jimmy Hlavacek, MD; Amit Momaya, MD; Brian Etier, MD; David Johannesmeyer, MD; Lasun Oladeji, MS; Emily Keener, DO; Jason Lowe, MD

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Indirect Medial Reduction and Endosteal Strut Graft Support of Complex Tibial Plateau Fractures with Diaphyseal Extension

Lionel Lazaro, MD; Stephen Warner, MD, PhD; Jeremy LaMothe, MD; Jason Halvorson, MD; David Helfet, MD; Dean Lorich, MD

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Prospective, Multi-Center, Observational Study Evaluating the Augmentation with Calcium Phosphate Cement (chronOS Inject) for Bone Defect after Internal Fixation of Proximal Tibial Fractures Ki-Chul Park, MD, PhD; Chang-Wug Oh, MD, PhD; Ji-Wan Kim, MD; Jung-Jae Kim, MD, PhD; Hyun Joong Cho

Poster 50

Traumatic Knee Dislocations in the Obese and Morbidly Obese from 2000 to 2010: Increased Incidence and Rate of Vascular Intervention

Stephen Klinge, MD; Philip McClure, MD; Joseph Johnson, MD; Dominic Kleinhenz, MD; COL (ret) Roman Hayda, MD; Christopher Born, MD

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Rate of Total Knee Arthroplasty after Tibial Plateau Fracture Erin Donohoe, MB, BCh, BAO; Abdel Lawendy, MD, PhD; James Howard, MD; David Sanders, MD

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Incidence and Location of Articular Malreductions of the Tibial Plateau Identified on Post-Operative CT Scan

Brad Meulenkamp, MD; Desy Nicholas, MD; Ryan Martin, MD; Richard Buckley, MD

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BMI as a Predictor of Perioperative Complications Following Orthopaedic Trauma Surgery: An ACS-NSQIP Analysis Paul Whiting, MD; Gabrielle White-Dzuro, BA; Sarah Greenberg, BA; Frank Avilucea, MD; Hassan Mir, MD, MBA; Amir Jahangir, MD; William Obremskey, MD, MPH; Manish Sethi, MD

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Pre-operative Labs: Wasted Dollars or Predictors of Post-Operative Cardiac and Septic Events in Orthopaedic Trauma Patients?

Vasanth Sathiyakumar, BA; Sarah Greenberg, BA; Hassan Mir, MD, MBA; Amir Jahangir, MD; William Obremskey, MD, MPH; **Manish Sethi, MD**

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Are 2.7 mm Recon Plates Stable Enough for Anteroinferior Plating of Displaced Midshaft Clavicle Fractures? Martin Hoffmann, MD; Alex Glide, MD; Clifford Jones, MD, FACS; Debra Sietsema, PhD

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Severity Weighting of Adverse Events in Orthopaedic Trauma Surgery

Daniel Bohl, MPH; Junyoung Ahn, BS; Adam Lukasiewicz, MSc; Andre Samuel, BBA; Matthew Webb, BA; Bryce Basques, BS; Nicholas Golinvaux, BA; Kern Singh, MD; Jonathan Grauer, MD

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Compartment Syndrome Training Assessment and Education Tool

Andrea Spiker, MD; Johnathan Bernard, MD, MPH; Jonathan Dattilo, MD; Robert Sterling, MD; Greg Osgood, MD; Dawn LaPorte, MD

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Establishing Radiographic Guidelines in Postoperative Fracture Care: Articular Fractures in the Lower Extremity Kevin Phelps, MD; Michelle Phelps, MD; Rachel Seymour, PhD; CAPT (ret) Michael Bosse, MD

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Risk Factors for Deep Venous Thrombosis in Orthopaedic Trauma: An Analysis of 56,000 patients

Paul Whiting, MD; Sarah Greenberg, BA; Jacob VanHouten, MS; Gabrielle White-Dzuro, BA; Frank Avilucea, MD; Hassan Mir, MD, MBA; Amir Jahangir, MD; **Manish Sethi, MD**; William Obremskey, MD, MPH

Poster 60

Humeral Shaft Fractures Treated with Lag Screw Fixation Heal with Callus

Giuliana Rotunno, BS; Marcus Sciadini, MD; Christina Sebastian, BS; Robert O'Toole, MD; W Eglseder, MD

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Ultra Low Dose CT Scans For Fracture Evaluation: All of the Efficacy with an Improved Patient Safety Profile Sanjit Konda, MD; Abraham Goch, BS; Philipp Leucht, MD, PhD; Anthany Christiano, BA, Cideon Vacli, MD,

Anthony Christiano, BA; Gideon Yoeli, MD; Soterios Gyftopoulos, MD; Kenneth Egol, MD

Poster 62

An Ultra Low Dose CT Protocol Generates Three Dimensional Reconstructed Images: A Pilot Study Demonstrating Proof of Concept Abraham Goch, BS; Sanjit Konda, MD; Gideon Yoeli, MD; Soterios Gyftopoulos, MD; Devan Mehta, BS; Kenneth Egol, MD

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Long-term Implantation of Polymethylmethacrylate Antibiotic Beads at a Fracture Site Shawn Werner, MD; Reza Firoozabadi, MD

Poster 64

When are CT Angiograms Indicated for Lower Extremity Fractures? Shafagh Monazzam, MD; Parker Goodell, BS; Edgardo Salcedo, MD; Philip Wolinsky, MD

Poster 65

Wide Variation of Surgical Cost between 6 Fellowship-trained Trauma Surgeons in the Treatment of Peri-articular Lower Extremity Injuries

Robert Wetzel, MD; Edwin Lee, PT, MBA, CPHQ; Laurence Kempton, MD; Anthony Sorkin, MD; Michael Zlowodzki, MD; Todd McKinley, MD; Walter Virkus, MD

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Hip and Pelvic Fracture Patients Incur Significantly Different Inpatient Costs, Despite Being Reimbursed Under the Same Medicare Diagnosis Related Group

Andre Samuel, BBA; Matthew Webb, BA; Adam Lukasiewicz, MSc; Arya Varthi, MD; Bryce Basques, BS; Daniel Bohl, MPH; Jonathan Grauer, MD

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Does Primary Wound Closure following Open Fracture affect Development of Deep Infection or Non-Union? A Prospective Cohort Study of 83 Subjects with 84 Open Fractures

Angela Scharfenberger, MD; Khaled Al-Abbasi, MD; Stephanie Smith, MD; Don Weber, MD; Sukhdeep Dulai, MD, MSc; Joseph Bergman, MD; Lauren Beaupre, PT, PhD

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Correlation of NIRS and Histological Muscle Damage in a Prolonged Trauma/infusion Model of Extremity Compartment Syndrome (ECS) *Steven Budsberg, DVM*

Poster 69

Does Resident Involvement Increase Complications in Orthopaedic Trauma?

Sarah Greenberg, BA; Catherine Bulka, MPH; Frank Avilucea, MD; Amir Jahangir, MD; Hassan Mir, MD, MBA; William Obremskey, MD, MPH; Manish Sethi, MD

Poster 70

Prospective Randomized Controlled Trial using Telemedicine for Follow-up Visits in an Orthopaedic Trauma Population: A Pilot Study Vasanth Sathiyakumar, BA; Jordan Apfeld, BS; Sarah Greenberg, BA; Rachel Thakore, BS; William Obremskey, MD, MPH; Manish Sethi, MD

Poster 71

Identifying Clusters of Orthopaedic Trauma Patients At Risk for Poor Outcomes: Results from a Prospective, Multi-Center Study *Renan Castillo, MD; METRC TCCS*

Poster 72

Physician Confidence in Managing Psychosocial Sequelae of Trauma: Impact of the Trauma Collaborative Care Initiative Stephen Wegener, PhD; METRC TCCS Investigators, PhD, MD

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Culture-Independent Measures of The Traumatic Open Fracture Microbiome to Predict Clinical Outcomes Geoff Hannigan, BS; Patrick Hesketh, BS; Evan Bannister, BS; Joseph Horwinski, BS; Amanda Tyldsley, BS; Annamarie Horan, PhD; Elizabeth Grice, PhD; Samir Mehta, MD

Poster 74

Rate and Risk Factors for Delayed Healing Following Surgical Treatment of Lateral Condyle Humerus Fractures in Children Lissette Salgueiro Canetti, MD; Joanna Roocroft, MA; Tracey Bastrom, MA; Eric Edmonds, MD; Andrew Pennock, MD; Vidyadhar Upasani, MD; Burt Yaszay, MD

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Closed Reduction and Percutaneous Pinning Vs Open Reduction Internal Fixation of Mildly Displaced Humeral Lateral Condyle Fractures

Andrew Pennock, MD; Lissette Salgueiro Canetti, MD; Vidyadhar Upasani, MD; Tracey Bastrom, MA; Burt Yaszay, MD

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Cervical Spine Trauma Immobilization Protocols in Young Children: How Often are These Protocols Followed?

Jeffrey Sawyer, MD; Eric Weldy, BS; Derek Kelly, MD; James Beaty, MD; David Spence, MD; William Warner Jr, MD

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Pelvic Ring Injuries in the National Trauma Data Bank: Miscoded, Misclassified, or Misunderstood?

Brittany Haws, BS; Scott Wuertzer, MD; Leon Lenchik, MD; Anna Miller, MD, FACS

Poster 78

APC Injuries with Symphyseal Fixation: What Affects Outcome? Paul Tornetta, MD; Kyle Lybrand, MD; David Templeman, MD; Deirdre Rodericks, BS; Anthony Bell, MD

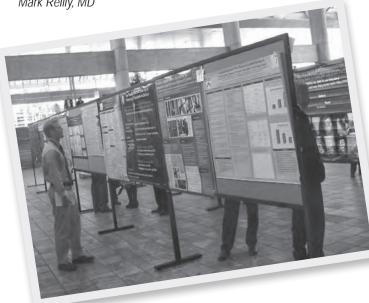
Poster 79

The Incidence of and Factors Affecting Iliosacral Screw Loosening in Pelvic Ring Injury

Joon-Woo Kim, MD, PhD; Chang-Wug Oh, MD, PhD; Jong-Keon Oh, MD, PhD; Jong-Chul Lee, MD; Jong-Uk Moon

Poster 80

Reduction of Symphyseal Diastasis During CT Scan Peter Gibson, MD; Mark Adams, MD; Kenneth Koury, MD; Mohamad Shaath, MD; John S. Hwang; Michael Sirkin, MD; Mark Reilly, MD



Poster 81

Does Pelvic Embolization Increase Infection Rates in Patients Who Undergo Open Treatment of Acetabular Fractures? *Reza Firoozabadi, MD; Milton Little, MD; Timothy Alton, MD;*

Mathew Kogut, MD; Million Little, MD; Million Little, MD; Million, MD;

Poster 82

The Risk Factors of Neurological Deficit after Fixation of Zone 2 Sacral Fractures Amir Herman, MD, PhD; Emily Keener, DO;

Candice Dubose, MD; Jason Lowe, MD Poster 83

Bilateral Sacral Fractures are Highly Associated with Lumbopelvic Instability Tiffany Castillo, MD; Sean Dangelmajer, BA; Ian Corcoran-Schwartz, MD; Julius Bishop, MD

Poster 84

Risk Factors for Conversion to Total Hip Arthroplasty after Posterior Wall Acetabular Fracture Reza Firoozabadi, MD; David Shearer, MD, MPH; Benjamin Hamilton, BS, MS; Paul Toogood, MD

Poster 85

Clinical and Radiological Outcomes of the Anterior Subcutaneous Internal Pelvic Fixator Rahul Vaidya, MD; Adam Martin, BSc; Frederick Tonnos, DO; Bryant Oliphant, MD; Anil Sethi, MD

Poster 86

The Value of 'Binder-off' Imaging for Identifying Occult and Unexpected Pelvic Ring Injuries

James Fagg, MBChB,MRCS (Ed),FRCS (Tr&Orth); Mehool Acharya, BSc(Hons), MBChB,MRCS,FRCS(Tr&O); Tim Chesser, FRCS; Anthony Ward, BMedSc (Hons), BM BS, FRCS

Poster 87

Does Transsacral-Transiliac Screw Fixation of An Uninjured Sacroiliac Joint Affect Pain and Functional Outcomes at One Year Follow Up?

John Heydemann, MD; Mary Gibson, BS; Braden Hartline, MD; John Munz, MD; Mark Prasarn, MD; Timothy Achor, MD; Matthew Galpin, RC; Joshua Gary, MD

Poster 88

Evaluation and Effects of Perioperative Low Molecular Weight Heparin Administration in Patients Treated with ORIF of the Acetabulum: Are Patients Getting Their Medicine? Cory Collinge, MD; Michael Archdeacon, MD; George Lebus, MD

Poster 89

Complications are Reduced with AppropriateResuscitation, Measured by Correction of Metabolic Acidosis Douglas Weinberg, MD; Arvind Narayanan, BBA; Timothy Moore, MD; Heather Vallier, MD

Poster 90

Pelvic Injury Predicts Shock Severity and Systemic Inflammation

Greg Gaski, MD; Travis Frantz, BS; Tyler McCarroll, BS; Scott Steenburg, MD; Todd McKinley, MD

Poster 91

Management of Diaphyseal Humerus Fractures in Patients with ISS > 17

Cassandra Dielwart, MD, FRSCS; Jeremy Thompson, BS; Luke Harmer, MD, MPH, FRCSC; Madhav Karunakar, MD

Poster 92

Complications of Enoxaparin use in Orthopaedic Trauma Patients

Herman Johal, MD MPH; Timothy Costales, BS; Matthew Christian, MD; Bryce Haac, MD; Max Coale, BA; Robert O'Toole, MD; Theodore Manson, MD

Poster 93

Posterior Bone Grafting for Tibial Nonunions Theodore Manson, MD; Michael Foster, BS; Robert O'Toole, MD

Poster 94

The Power of a Swab: Can Pre-Operative Nasal Culture Predict Complications or Outcomes Following Repair of Fracture Nonunion?

David Taormina, MD; Sanjit Konda, MD; Frank Liporace, MD; Kenneth Egol, MD

Poster 95

Indications and Timing of Tracheostomy after Cervical Spine Injury: Implications for Hospital Stay and Recovery Benjamin Childs, BS; Timothy Moore, MD; John Como, MD, MPH; Heather Vallier, MD

Poster 96

Percutaneous Lumbopelvic Fixation for Sacral Fractures with Spino-Pelvic Dissociation Seth Williams, MD; Stephen Quinnan, MD

Poster 97

Risk Factors for Pulmonary Complications Among Patients with Operative Spine Fractures Brian Hedges, BS; Timothy Moore, MD; Heather Vallier, MD

Poster 98

Spinal Fracture Patterns in Patients with Ankylosing Spondylitits Adam Lukasiewicz, M.Sc.; Matthew Webb, BA; Andre Samuel, BBA; Bryce Basques, BS; Daniel Bohl, MPH; Jonathan Grauer, MD

Poster 99

Dynamic Screw Configuration and Fibular Osteotomy Decrease Healing Time in Tibia Nonunion Exchange Nailing

Bryan Abadie, BA; Daniel Leas, MD; Peter Malm, BS, MS; Lisa Cannada, MD; Michael Morwood, MD; Cameron Howes, MD; Robert Zura, MD; Kaitlin Healy, MPH; Matthew Avery, MD; Anna Miller, MD, FACS

Poster 100

Baseline RUST Score Predicts Success with Operative Treatment of Tibial Nonunion

Anthony Christiano, BA; Abraham Goch, BS; Philipp Leucht, MD, PhD; Kenneth Egol, MD; Sanjit Konda, MD

Poster 101

Active Smoking is a Risk Factor for Greater Pain Following Nonunion Repair of The Extremities Anthony Christiano, BA; Christian Pean, MS; Kenneth Egol, MD

Poster 102

Validation for the "Six Hour Rule" for the Severe Open Tibia Fracture Karl Henrikson, MD; Dana Farrell, BS; Stuti Patel, BS; Ivan Tarkin, MD

Poster 103

Surgical Approaches to Intramedullary Nailing of the Tibia: Comparative Analysis of Knee Pain and Functional Outcomes Wajeeh Bakhsh, BA; Steven Cherney, MD; Christopher McAndrew, MD; William Ricci, MD; Michael Gardner, MD

Poster 104

Risk Factors for Wound Failure after Primary Closure of Type IIIA Open Tibia Fractures

Brian Weatherford, MD; Andrew Dubina, BS; Solomon Hayon, BS; Ebrahim Paryavi, MD, MPH; Robert O'Toole, MD

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Intramedullary Devices for Diaphyseal Femur and Tibia Fractures: A Comparison Analysis of Different Generations of Intramedullary Fixation

Garland Gudger, MD; Stephanie Tanner, MS; Timothy McHenry, MD; Robert Teadall, BS; Thomas Schaller, MD

Poster 106

Semi-extended versus Standard Nailing for Treatment of Distal Third Tibia Fractures: A Multi Center Study Scott Ryan, MD; Vito Pugliano, MD; Shane Morris, MS;

Robert French, MD; Robert Ward, MD; Andrew Marcantonio, DO, MBA

Poster 107

How Scary is this? Characterizing Antibiotic Use for Type III Tibia Fractures CAPT (ret) Michael Bosse, MD; METRC Bioburden

Poster 108

Metaphyseal Distal Tibia Fractures: Cohort Study Comparing Outcomes of Patients Treated with Minimally-Invasive Plating vs. Intramedullary Nailing *Eric Barcak, DO; Cory Collinge, MD*

Poster 109

Outcome after Olecranon Fracture Repair: Does Construct Type Matter? Edward Delsole, MD; Christian Pean, MS; Nirmal Tejwani, MD; Kenneth Egol, MD

Poster 110

Regional Anesthesia Only for Clavicle Fracture ORIF is Safe and Effective Devon Ryan, BA; Natalia Iofin, MD; Kenneth Egol, MD

Poster 111

Incidence of latrogenic Radial Nerve Palsy Following Repair of Humeral Shaft Nonunion Rafael Kakazu, MD; Steven Dailey, MD; John Wyrick, MD; Michael Archdeacon, MD

Poster 112

Radial Head Replacements for Elbow Trauma: Functional Outcomes and Complications *Kari Broder, BA*; *Abraham Goch, BS; Kenneth Egol, MD*

Poster 113

Narcotic Requirements is Not a Predictor of Adult Upper Extremity Compartment Syndrome in the Trauma Patient *Ehsan Jazini, MD*; *Ebrahim Paryavi, MD, MPH*; *Christine Helou, MD*; *Joshua Abzuq, MD*

Poster 114

Immediate Sarmiento Bracing for the Treatment of Humeral Shaft Fractures

Benjamin Sandberg, MD; Kyle Bohm, MD; Julie Switzer, MD; Brian Hill, MD; Joshua Olson, BS; Paul Lafferty, MD

Poster 115

Scoring of Cortical Healing Predicts Union in Humeral Shaft Fractures

Anthony Christiano, BA; Christian Pean, MS; Sanjit Konda, MD; Philipp Leucht, MD, PhD; Kenneth Egol, MD

Poster 116

Complications of Locked Intramedullary Nail Treatment of Proximal Humerus Fractures

Armodios Hatzidakis, MD; Thomas D'Ollonne, MD; Tara Hawkes, BS; Philippe Clavert, MD, PhD; Pascal Boileau, MD

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WITHDRAWN

Poster 118

Small-Fragment Plate Fixation of Humeral Shaft Fractures Giuliana Rotunno, BS; Marcus Sciadini, MD; Christina Sebastian, BS; Robert O'Toole, MD; W Eglseder, MD

Poster 119

Predictors of Persistent Pain after Distal Clavicle Fracture Fixation in an Active Military Population Paul Lanier, DO; Logan Koehler, MD; Joshua Speirs, BS; Amr Abdelgawad, MD; Brian Waterman, MD

Poster 120

Elbow Release in Patients Following Elbow Contracture: An Effective Modality

Anthony Christiano, BA; Kari Broder, BA; Nader Paksima, DO, MPH; Kenneth Egol, MD

Poster 121

Predictors of Nonunion after Operative and Nonoperative Management of Humeral Shaft Fractures in a Level I Trauma Center

Vahid Entezari, MD; Jeffrey Olson, BA; Heather Vallier, MD

Poster 122

Is a Postoperative Chest X-ray Necessary after Open Reduction and Internal Fixation of a Clavicle Fracture in a Trauma Population?

Ben Service, MD; Geoffrey Hancy, MD; Joshua Langford, MD; Kenneth Koval, MD; George Haidukewych, MD

Poster 123

Does Indomethacin Cause Nonunion When Used for HO Prophylaxis after ORIF of Distal Humerus Fractures ? *Utku Kandemir, MD; Alexander Theologis, MD*

Poster 124

Nerve Injury and Recovery after Traumatic Humeral Shaft Fractures in a Level I Trauma Center Vahid Entezari, MD; Jeffrey Olson, BA; Heather Vallier, MD

Poster 125

Continual Near Infrared Spectroscopy Monitoring in Acute Compartment Syndrome: Lessons Learned from a Decade of War

Michael Shuler, MD; Mellisa Roskosky, MSPH; William Reisman, MD; Charles Ogburn, MD; Tracy Kinsey, MSPH; Brett Freedman, MD

Poster 126

Outcomes after Operative Management of Combat-Related Low Lumbar Burst Fractures Peter Formby, MD; Scott Wagner, MD; Daniel Kang, MD; Ronald Lehman, MD

Poster 127

Outcomes of Open Acetabular Fractures in Combat Related Trauma Louis Lewandowski, MD; Matthew Kluk, MD; Richard Purcell, MD; Steven Grijalva, MD; Wade Gordon, MD

Poster 128

Outcomes of Open Pelvic Ring Fractures in Combat Related Trauma Louis Lewandowski, MD; Matthew Kluk, MD;

Richard Purcell, MD; Steven Grijalva, MD; Wade Gordon, MD

Poster 129

Risk factors for Amputation in Combat-Related Tibia Injuries Matthew Hanley, MD; Benjamin Chi, MD; Richard Purcell, MD; Wade Gordon, MD; Daniel Kang, MD

Poster 130

Combat Periarticular Tibia Injury Outcome Study (CAPTIOUS): Risk Factors For Reoperation and Amputation After Open Periarticular Tibia Fractures Mark Fleming, DO; Husain Bharmal, MD; Korboi Evans, MD;

Louis Lewandowski, MD

Poster 131

The Minimal Clinically Important Difference of the Patient-Rated Wrist Evaluation Score for Patients with Distal Radius Fractures: A Prospective Cohort Study

Monique Walenkamp, MD, MSCE; Lara Vos, MD; Robert-Jan de Muinck Keizer, MD; J.C. Goslings, MD, PhD; Niels Schep, MD, MSc, PhD

Poster 132

Assessment of Pronator Quadratus Repair Integrity using Dynamic Ultrasonography Following Volar Plate Fixation for Distal Radius Fractures

John Capo, MD; Ronald Adler, MD, PhD; Richard Hinds, MD; Nicole Montero-Lopez, MD; Katharine Criner, MD; Kenneth Brock, BS; Anthony Sapienza, MD; Nader Paksima, DO, MPH

Poster 133

Bier Block Anesthesia for Distal Radius Fracture Reduction in the ER: Is It Safe? Lucas Marchand, MD; Lance Jacobson, MD; Zachers Marking, MD, Isia Ellist, MD, Erik Kehick, M

Zachary Working, MD; Iain Elliott, MD; Erik Kubiak, MD; Thomas Higgins, MD; David Rothberg, MD

Poster 134

Can the Visual Analog Scale be Used as a Long-Term Outcome Instrument to Track Pain Severity in Orthopedic Patients?

Peter Noback, BA; Derly Cuellar, MD; Joseph Lombardi, MD; Melvin Rosenwasser, MD

GUIDED POSTER TOURS

Friday, October 9, 2015

12:30 pm - 1:15 pm	(PT1) International Guide: Peter V Giannoudis, MD
12:30 pm - 1:15 pm	(PT2) Hip, Femur, Geriatric Guide: Thomas F Higgins, MD
	'Suds and Science' Poster Tours Enjoy a poster tour, lively discussion, and a beverage with colleagues.
5:48 pm - 6:45 pm	(PT3) Foot and Ankle Guide: Paul Tornetta III, MD
5:48 pm - 6:45 pm	(PT4) Upper Extremity Guide: Michael D McKee, MD

Saturday, October 10, 2015

12:35 pm - 1:20 pm	(PT5) Knee/Tibia Guide: <i>J Tracy Watson, MD</i>
12:35 pm - 1:20 pm	(PT6) Reconstruction/General Interest Guide: <i>Michael J Gardner, MD</i>

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

Poster Viewing Hours:

Thursday, 10/8, 2:30 pm thru Saturday, 10/10, 1:30 pm



ORTHOPAEDIC TRAUMA FOR PAs and NPs

Cory A Collinge, MD, Michael J Gardner, MD Daniel J Coll, MHS, PA-C & Dennis C Gregory, PA-C, Program Chairs

Target Audience

This course is intended for PAs and NPs who are earlier in their careers or experience of treating orthopaedic trauma while practicing in general orthopaedics, taking acute orthopaedic call with inpatient/outpatient or caring for orthopaedic injuries in ER/UC/General Trauma services.

Presenters will discuss the foundations of acute care and evaluation of various skeletal injuries, operative positioning and fixation, and postoperative care and course of healing.

ALL levels of experience PA's and NP's are welcome and in order to allow attendees to find the most appropriate curriculum for their experience. With PA and NP course registration attendees can attend general session courses, morning case and clinical presentations, and workshops.

PA's and NP's focused in orthopaedic trauma will find this a good foundation but we also highly recommend attending our other OTA course options of Resident Comprehensive Fracture and Advanced Trauma Courses, Boot Camp, and the Annual Meeting General Session.



This program has been reviewed and is approved for a maximum of **19.5 hours** of *AAPA Category* **1** *CME* credit by the Physician Assistant Review Panel. Physician assistants should claim only those hours actually spent participating in the CME activity.

This program was planned in accordance with AAPA's CME Standards for Live Programs and for Commercial Support of Live Programs.

Objectives

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

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

Thursday, October 8, 2015

		Q
12:45 pm	Overview Cory A Collinge, MD; Michael J Gardner, MD; Daniel J Coll, PA-C; Dennis C Gregory, PA-C Membership Cory A Collinge, MD Objectives & Overview Daniel J Coll, PA-C	October 8
	Ortho Emergencies Hans-Christophe Pape, MD	
12:55 pm	Polytrauma, ABC, Damage Control ABC, 1° & 2° Assessment, Damage vs Provisional Fixation	
1:10 pm	Pelvic Ring Injuries Eval, Phys Exam, Imaging, Binders	
1:25 pm	Open Fractures Abx, Infection Prevention, Assessment	
1:40 pm	Compartment Syndrome Physiology, Exam, Treatment	
1:55 pm	Cases, Questions, Discussion	
	General Orthopaedic Issues I Dennis C Gregory, PA-C	
2:25 pm	Perioperative Infection Risk Manager	ment
2:40 pm	Pain Management IV Tylenol, NSAIDS, Narcotics, PCA, Regional Blocks	
2:55 pm	Osteoporosis Evaluation & Treatmer Prevelence, Who, Evaluation, Initial Treatment	nt
3:10 pm	Cases, Questions, Discussion	

Thursday, C

Orthopaedic Trauma for PAs and NPs

Thursday-Friday, October 8 - 9

ORTHOPAEDIC TRAUMA FOR PAs and NPs, continued

Thursday, October 8, 2015

	3:25 pm - 3:40 pm	Pelvic Binder Discussion
		Transition to Skills Lab
	3:45 pm - 4:30 pm	
	4:30 pm - 5:00 pm	Presidential Message
		The \$500 Check <i>Theodore Miclau III, MD</i> OTA President
	General O	ion runs concurrent to the rthopaedic Issues II Session. may choose to attend either session.)
	4:30 pm - 5:00 pm	General Orthopaedic Issues II
	4:30 pm	Fracture Healing
	4:40 pm	Fixation Theories
	4:50 pm	Discussion
6	:00 pm – 8:00 pm	Welcome Reception Manchester Grand Hyatt Pool Deck Join your colleagues for cocktails and a generous assortment of hors d'oeuvres while taking in the magnificent views of downtown, San Diego Bay and the Pacific Ocean from the pool deck of the Manchester Grand Hyatt.
ic	lay, Octol	per 9, 2015
6	:30 am – 7:30 am	Case Presentations – No Charge. Seating available first come, first-served. Periarticular Fractures of the Tibia: The Case for Going Prone Moderator: Lisa K. Cannada, MD Faculty: Stephen Kottmeier, MD;

J Tracy Watson, MD Treatment Strategies for Tibial Plateau Fractures

Moderator: Marcus F. Sciadini, MD Faculty: Michael Archdeacon, MD; Stephen H Sims, MD; Nirmal Tejwani, MD; Philip Wolinsky, MD

Pelvis and Acetabulum Fractures

Moderator: Paul Tornetta III, MD Faculty: Robert V O'Toole, MD; Robert Ostrum, MD; H Claude Sagi, MD; Jodi Siegel, MD

Don't Be Scared! Evaluation and Management of Complex Pediatric Elbow **Fractures** Moderator: David A Podeszwa, MD Faculty: Christine A Ho, MD; Anthony I Riccio, MD; R Lane Wimberly, MD

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

- 8:00 am Clavicle Fractures Who to Fix and Who to Not
- 8:15 am Proximal Humeral Fractures Op vs Nonop, Options of ORIF, Hemi, IMN
- 8:30 am Humeral Diaphyseal Fractures Sarmiento, ORIF, IMN, Rehab
- 8:45 am Humeral Supracondylar Fractures Approach, Reduction, Fixation, Rehab
- 9:00 am Cases, Questions, Discussion
- 9:30 am 11:30 am Foot and Ankle Injuries Moderator: Dolfi Herscovici Jr, DO
 - 9:30 am Ankle Fractures Type and Fixation, Syndesmosis, Deltoid Ligament, WB, Rehab
 - 9:45 am Tibial Pilon Fractures Distinguish Pilon from Ankle, Timing of Surgery, Approaches
 - 10:00 am Calcaneal Fractures Injury, Associated Injuries, Timing
 - 10:15 am Talus Fractures Mechanism, Reduction, Timing
 - 10:30 am Lisfranc Injuries Evaluation and Diagnosis, Treatment

11:00 am Cases, Questions, Discussion

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Friday,

ORTHOPAEDIC TRAUMA FOR PAs and NPs, continued

Friday, October 9, 2015

11:30 am - 12:15 pm Pediatrics

(This session runs concurrent to the John Border Memorial Lecture. Attendees may choose to attend either session.) 11:30 am Pediatric Elbow

- 11:45 am Pediatric Femur
- 12:00 pm Question and Answer

11:45 am - 12:15 pm John Border Memorial Lecturer



Christian Krettek, MD, FRACS, FRCSEd, Professor and Chair Hannover School of Medicine Trauma Department Hannover, Germany

12:15 pm - 1:15 pm Lunch and Guided Poster Tours (PT1) International Guide: Peter V Giannoudis, MD (PT2) Hip, Femur, Geriatric Guide: Thomas F Higgins, MD

1:15 pm - 3:00 pm Skills Labs 2 labs with 45 min. rotating sessions. 15 min break in between.

Hip Nailing

Lab Leader: Christopher McAndrew, MD Ankle ORIF Lab Leader: Lori K Reed, MD

3:00 pm - 4:15 pm Upper Extremity Fractures II

3:00 pm Olecranon Fractures TBW, Plate, IMN

- 3:15 pm Forarm Fractures Galeazzi Fractures, Timing, Approaches, Complications
- 3:30 pm Distal Radius Fx Closed Reduction, Failure of Closed Reduction, Volar vs Dorsal, Ex Fix
- 3:45 pm Cases, Questions, Discussion

4:15 pm - 5:15 pm PA NP Reception

PA NP Leaders to answer guestions and relay suggestions, suggest collaboration, ideas for future meetings

5:48 pm - 6:45 pm 'Suds and Science' Poster Tours (PT3) Foot and Ankle Guide: Paul Tornetta III, MD

(PT4) Upper Extremity

Guide: Michael D McKee, MD Enjoy a poster tour, lively discussion, and a beverage with colleagues.



Saturday, October 10, 2015

6:30 am - 7:30 am Skill Labs - No Charge.

(Seating available first come, first-served.)

(SL5) Complex Ankle Fractures: Posterior Malleolus, **Syndesmosis**

Lab Leader: John Alan Scolaro, MA, MD

(SL6) Fixation of Intra-Articular **Distal Humeral Fractures** Lab Leader: Michael D McKee, MD

6:30 am - 7:30 am Case Presentations - No Charge. (Seating available first come, first-served.)

Proximal Humerus Fractures: Optimizing Surgical Management and

Technique in 2015 Moderator: Emil H Schemitsch, MD Faculty: Pierre Guy, MD; Dean G Lorich, MD; Michael D McKee, MD; Aaron Nauth, MD; David C Ring, MD

What Could Go Wrong Did:

Getting Out of Trouble Moderator: Lisa K Cannada, MD Faculty: *Clifford B Jones, MD;* Matt Mormino, MD; Brian H Mullis, MD

Friday, October 9

Saturday, October 10

ORTHOPAEDIC TRAUMA FOR PAs and NPs, continued

	October 10, 2015		Fractures about the Hip and Thigh Laura S Phieffer, MD
	"Young" Femoral Neck Fractures – Why Do They Cause so Much Stress? Moderator: <i>Brett D Crist, MD</i> Faculty: <i>Tania Ferguson, MD;</i>	9:30am	Femoral Neck Fractures - ORIF versus Hemi versus THA
	Christopher Finkemeier, MD; Mark A. Lee, MD Distal Femur Fractures –	9:45am	IT/ST Fx ORIF OHS versus Locked Plate
	Not as Easy as You Think Moderator: Samir Mehta, MD Faculty: Timothy Achor, MD; Derek Donegan, MD;	10:00am	IT/ST Fx IMN Reconstruction versus Cephalomedullary IMN
7:45.000	Hobie Summers, MD	10:15am	Femoral Shaft Fractures Approaches, Prox and Distal Third Fx
	Symposium IV Elbow Trauma: How to Improve Outcomes in 2015!	10:30am	Cases, Questions, Discussion
7:45 am	Moderator: <i>Michael D McKee, MD</i> Distal Humerus Fractures:		Fractures about the Knee David Leu, MD
	Evidence Based Management Emil H Schemitsch, MD	11:00 am	Femoral Supracondylar Fractures - ORIF versus IMN
	Radial Head / Neck Fractures: When and How to Fix Kenneth A Egol, MD	11:15 am	Tibial Plateau Fractures - Single versus Dual Incisions
8:05 am	Terrible Triad Injuries: How to Improve Outcomes Aaron Nauth, MD	11:30 am	Tibial Diaphyseal Fractures - Approaches, Proximal and Distal Third Fractures
8:15 am	Monteggia Fracture Dislocations: Timing and Techniques David C Ring, MD	11:45 am	Cases, Questions, Discussion
8:25 am	Complex Injuries: The Role of Arthroplasty	12:20 pm - 1:20 pm	Lunch and Guided Poster Tours
8:35 am	Niloofar Dehghan, MD Managing Complications in Elbow Fracture Surgery	12:35 pm - 1:20 pm	(PT5) Knee/Tibia Guide: <i>J Tracy Watson, MD</i>
8:45 am	Michael D McKee, MD Cases, Questions, Discussion,	12:35 pm - 1:20 pm	(PT6) Reconstruction/General InterestGuide: Michael J Gardner, MD
9:00 am	Consensus Break and Transition to Lectures	1:30 pm - 3:15 pm	 Skills Labs 2 labs with 45 min rotating sessions. 15 min break in between. Distal Femoral Locked Plating Lab Leader: <i>Kevin D Grant, MD</i> Proximal Tibial Locked Plating Lab Leader: <i>Daniel L Stahl, MD</i>
		3:15 pm - 4:15 pm	Complication Treatment Cory A Collinge, MD; Michael J Gardner, MD; Daniel J Coll, MHS, PA-C; Dennis C Gregory, PA-C
		4:15 pm	Course Review, Evaluation,

Adjournment

SPECIAL OFFERINGS AND EVENTS

2015 Guest Nation: Germany



It is a great honor to welcome Professor Michael L Nerlich, MD,



2015 President of both the German Society for Trauma Surgery and German Society for Orthopaedics and Trauma Surgery. We look forward to his enlightening presentation: The German Trauma Network Initiative -Challenges and Advantages.

Michael L Nerlich, MD

International Poster Reception

Wednesday, October 7, 2015 5:30 pm – 6:30 pm



are welcome to attend. Peter V. Giannoudis, MD, FRCS

All International attendees

International Committee Chair Saqib Rehman, MD Humanitarian Chair

Women in Orthopaedic Trauma Luncheon Kathy Cramer Memorial Luncheon

Friday, October 9, 12:15 pm – 1:15 pm Lisa M. Truchan, MD, Chair Alexandra Schwartz, MD, Co-Chair

(Registration / ticket required)

New Member Luncheon

Friday, October 9, 2015 12:15 pm – 1:15 pm All new and prospective P members invited. Membership C

/e Peter A Cole, MD Membership Committee Chair



PA/NP Reception

Friday, October 9, 2015 4:15 pm – 5:15 pm All PA/ NP Course attendees invited.

Cory A Collinge, MD PA/NP Course Chair

Military Reception

Friday, October 9, 2015 5:48 pm – 6:45 pm

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



COL Mark E Fleming, DO Military Committee Chair

Exhibit Hours

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

Poster Viewing Hours

Thursday, October 10, 2:30 pm thru 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 44 for details.

E-Posters

Run out of time for the posters? No problem... visit the OTA website following the meeting to view 2015 Annual Meeting E-Posters.

Please share the following excellent educational opportunity with your residents.

Comprehensive Fracture Course for Residents

Chair: Kyle J Jeray, MD Co-Chair: Toni M. McLaurin, MD Kyle J. Jeray, MD



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

Registration required and space is limited. See page 20 for details.

Toni M. McLaurin, MD

Industry Symposia - Registration Required Wednesday, October 7, 6:30 pm - 8:00 pm D IO Global

Thursday, October 8, 11:15 am - 12:45 pm - Boxed lunch availableAcelityAcumedDePuy Synthes (2)Ellipse TechnologiesSiemensStryker TraumaZimmer Biomet

Pre-Registration Deadline September 30, 2015; On-site Registration - additional \$100. See Page 59.

CASE PRESENTATIONS

Friday, October 9, 2015

6:30 am – 7:30 am Periarticular Fractures of the Tibia: The Case for Going Prone Moderator: Lisa K Cannada, MD Faculty: Stanbon Kattmaiar MD: LTracy Watcon

Faculty: Stephen Kottmeier, MD; J Tracy Watson, MD

Prone positioning in the OR can be a hassle. In addition, the perception of more dangerpous structures and less familiaity with the approach makes this plan less popular. By review of periarticular tibial fractures with cases, including surgical video, you will leave this session eager to choose prone, when appropriate.

6:30 am – 7:30 am **Treatment Strategies for Tibial Plateau Fractures** Moderator: *Marcus F Sciadini, MD*

Faculty: Michael Archdeacon, MD; Stephen H Sims, MD; Nirmal Tejwani, MD; Philip Wolinsky, MD

This case-based symposium will focus on recognizing and overcoming challenges associated with the treatment of tibial plateau fractures. Treatment strategies and techniques for provisional and definitive external fixation as well as internal fixation for unicondylar and bicondylar fractures will be covered with an emphasis on particularly challenging variants of common fracture patterns. Effective management

of associated soft-tissue injuries and avoidance of common pitfalls will be emphasized and direct participation by attendees encouraged.

6:30 am – 7:30 am Pelvis and Acetabulum Fractures Moderator: *Paul Tornetta III, MD*

Faculty: Robert V O'Toole, MD; Robert Ostrum, MD; H Claude Sagi, MD; Jodi Siegel, MD

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

6:30 am – 7:30 am

Don't Be Scared! Evaluation and Management of Complex Pediatric Elbow Fractures

Moderator: David A Podeszwa, MD

Faculty: Christine A Ho, MD; Anthony I Riccio, MD; R Lane Wimberly, MD

This symposium is an interactive, case-based review of the complex variations of commonly presenting pediatric elbow fractures. Open discussion will cover the evaluation and pearls of managing the pulse-less supracondylar humerus fracture, medial epicondyle fractures and

acute and delayed presenting Monteggia fractures. A short didactic review will highlight the most current literature regarding outcomes.

Saturday, October 10, 2015

6:30 am – 7:30 am **Proximal Humerus Fractures: Optimizing Surgical Management and Technique in 2015** Moderator: *Emil H Schemitsch, MD* Faculty: *Pierre Guy, MD; Dean G Lorich, MD; Michael D McKee, MD: Aaron Nauth, MD: David C Ring, MD*

Proximal humerus fractures are increasing in frequency and complexity. The failure rate of operative intervention remains higher than that seen with other fractures and there remains significant room for improvement in the care of these injuries. A primary goal of the symposium will be to achieve consensus opinions on many current issues and controversies regarding the treatment of proximal humerus fractures.

6:30 am – 7:30 am

What Could Go Wrong Did: Getting Out of Trouble Moderator: Lisa K Cannada, MD

Faculty: Clifford B Jones, MD; Matt Mormino, MD; Brian H Mullis, MD

Oftentimes a "simple" fracture turns out to be much more than that. This symposium covers the complications which could go wrong with fracture stabilization and how to avoid these problems to optimize results. The participant will learn strategies to correct the errors in the OR when recognized through tips in this symposium.

6:30 am – 7:30 am

"Young" Femoral Neck Fractures – Why Do They Cause so Much Stress?

Moderator: Brett D Crist, MD

Faculty: Tania Ferguson, MD; Christopher Finkemeier, MD; Mark A Lee, MD

An evidence-based session that will work through the main controversies in managing young adult femoral neck fractures with short didactic summaries, interactive panel debates and case discussion with audience participation. Operative techniques and complication management will also be included. The goal is to provide the participant with the confidence to deal with these fractures using an evidence-based approach, and provide them with the operative techniques to minimize risk of complications but also equip them with the knowledge on how to treat them when complications occur.

6:30 am – 7:30 am

Distal Femur Fractures – Not as Easy as You Think Moderator: *Samir Mehta, MD*

Faculty: Timothy Achor, MD; Derek Donegan, MD; Hobie Summers, MD

Fractures of the distal femur continue to be problematic in part due to the variability of fracture patterns and patient ages affected. The purpose of this case-based session is to review elementary and complex fractures to review diagnosis, treatment strategies, and technical considerations.

MINI-SYMPOSIA

No Charge. Seating available first come, first-served.

Friday, October 9, 2015

8:00 am – 9:30 am **Critical Aspects of Orthopaedic Trauma in 2015 that Can Impact your Financial Future** Moderator: *Peter Althausen, MD, MBA*

Faculty: Timothy Bray, MD; Austin Hill, MD, MPH; Chris McBride, MBA; Justin Walker, MD; Anthony Williams ChFC, RFC, CLU

The objective of this symposium is to provide orthopaedic trauma surgeons with an overview of the most important economic aspects of Orthopaedic Trauma which can affect all of us over the coming year. It is vital that we all understand the economic opportunities that exist nationwide to support our trauma systems, private practices, hospitals and personal finances.

8:00 am – 9:30 am **NSAIDs and Bone Healing: Clinical Practice and Understanding the Discrepancies in the Literature** Moderator: *Steven A Olson, MD* Faculty: *Kamal Ajam, MD; Farshid Guilak, PhD; Alejandro Marguez-Lara, MD*

The purpose of this session is to discuss the value of various pain management modalities around the time of orthopaedic surgery or trauma, with an emphasis on the use of NSAIDs. Additionally, participants will be able to critically analyze the quality of the published literature that evaluates the impact of NSAIDs on bone healing as well as to highlight possible causes for the variability in the interpretation of these reports. The clinical scenarios where it is considered safe and effective to use NSAIDs for the management of postoperative pain will be discussed.

8:00 am – 9:30 am Educating in Fracture Surgery

Moderator: *Samir Mehta, MD* Faculty: *Tim Achor, MD; Jaimo Ahn, MD; Matthew Graves, MD*

Education is a critical component of our obligation as orthopaedic surgeons. With the decrease in work hours, increase in fellows, and utilization of advanced providers, optimizing educational opportunities is critical.

1:15 pm – 2:45 pm

Pelvic Ring Disruption Decision Making: Assessment of Stability, Strategies of Fixation, and Determining What Needs To Be Fixed

Moderator: Jason Nascone, MD

Faculty: Joshua L Gary, MD; Pierre Guy, MD; Conor P Kleweno, MD; H Claude Sagi, MD; Adam J Starr, MD

This session will provide cased based examples with audience interaction to help the participant understand stability as it relates to pelvic ring disruptions. In addition the participants will learn strategies as to when fixation is needed and in what locations of the pelvis. Panel will also discuss indivudual indications for fixation as well as decision making process.

1:15 pm – 2:45 pm

Developing a Successful Clinical Research Program Moderator: *Heather A Vallier, MD*

Faculty: Mary Breslin, MD; William T Obremskey, MD

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

1:15 pm – 2:45 pm

Rib Fracture Fixation and the Surgical Management of Flail Chest Injuries: State of the Art Moderator: *Michael D McKee, MD*

Faculty: Peter Althausen, MD; Niloofar Dehghan, MD; Aaron Nauth, MD; Emil H Schemitsch, MD; Gerard Slobogean, MD

Rib fracture fixation in the setting of the flail or unstable chest wall injuries in trauma patients is gaining in popularity. Although it is a non-traditional area of surgical fixation, there is some preliminary evidence that stabilization of flail chest injuries may significantly decrease patient morbidity and improve outcomes. Increasingly, orthopaedic trauma surgeons are becoming involved in the surgical management and care of these patients. This symposia will examine the history, techniques, current status, and future of rib fracture fixation.

4:30 pm – 5:45 pm

Getting Your Fragility Fracture Program Off the Ground: A Primer for the Orthopaedic Trauma Surgeon Moderator: James A Goulet, MD Faculty: Kyle J Jeray, MD; Clifford B Jones, MD;

Joseph M Lane, MD; Debra Sietsema, MD

Orthopaedic surgeons are confronting a higher frequency of fragility fractures in their practices, as well as a considerably higher expectation that their practices will diagnose and treat the underlying basis of fragility fractures in their practices. This mini-symposium will expose attendees to methods for managing fragility fractures, and will review successful strategies for establishing and running their own fragility fracture services.

4:30 pm – 5:45 pm

The Social Savvy Surgeon: Strategies to Manage Your Online Reputation and Enhance Patient Care Moderator: Lisa K Cannada, MD

Faculty: Howard Luks, MD; Steven Mora; Jeffrey Smith, MD; Lisa Taitsman, MD

This session will arm attendees with the knowledge necessary to understand and skillfully navigate the

MINI SYMPOSIA, continued

social media healthcare realm. The emphasis will be on WHY this may be a necessity and will educate surgeons on the use of health care social media.

Attendees will walk away with an understanding of the benefits and risks associated with social media use and how it can affect their on-line reputation. This session will also explore how physician use of social media can enhance the care and improve outcomes of patients.

Saturday, October 10, 2015

9:30 am - 11:00 am Management of Soft Tissue Defects in the Mangled Extremity

Moderator: *Raymond A Pensy, MD* Faculty: *H Michael Frisch, MD; Joseph Hsu, MD; Stephen J Kovach III, MD*

This "Orthoplastics" Mini-Symposia will cover recent data regarding extremity (lower and upper) salvage vs amputation, covering and expanding upon the METAL-PeriS data. This symposia will cover non-microsurgical (muscle flap expansion, propeller / perforator flaps) and advanced micro-surgical options for recalcitrant non-unions (e.g. medial femoral condyle) Finally, this, symposia will cover the current concepts of further promoting the integration of the micro-vascular and orthopaedic surgeon.

9:30 am - 11:00 am **The Treatment of Periprosthetic Fractures in 2015: Can We Reach a Consensus?** Moderator: *Emil H Schemitsch, MD* Faculty: *George Haidukewych, MD; Michael D McKee, MD; Aaron Nauth, MD*

Peri-prosthetic fractures are increasing in frequency and complexity as the number patients with a joint replacement, and their activity levels post-surgery, steadily rise. The failure rate of operative intervention remains higher than that seen with other fractures and there remains significant room for improvement in the care of these injuries. A primary goal of the symposium will be to achieve consensus opinions on many current issues and controversies regarding the treatment of peri-prosthetic fractures.

11:00 am – 12:15 pm From Good to Great: Improving your Treatment of Pelvic Trauma

Moderators: Jaimo Ahn, MD and Derek Donegan, MD Faculty: Andrew R Burgess, MD; David L Helfet, MD; Milton L 'Chip' Routt, MD; H Claude Sagi, MD; Adam J Starr, MD

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

11:00 am - 12:15 pm

Disaster Management: Are You Prepared? Moderator: Samir Mehta, MD

Faculty: Paul T Appleton, MD; James C Krieg, MD; Christian N Mamczak, DO; Sagib Rehman, MD

Given the nature of geo-politics as well as the changing environment, orthopeadic trauma needs to be on the forefront in disaster management and acts of terror. The goal of this symposia is to provide concrete examples of disaster scenarios and management techniques. In addition, the goal is to provide the participant with tools to develop a local plan to address a catastrophic event.

11:00 am – 12:15 pm **The 8 Practices of Highly Successful Surgeons** Moderator: *Jeffrey M Smith, MD*

Faculty: Virginia Aherin, CPC; Tambre Leighn, CPC; Chris Moody, CPC

A rewarding and fulfilling surgical practice is more than the next surgical procedure. Athletes, performers, business owners and other professionals create a high level of success that is sustainable when they spend a comparable amount of time and energy learning, understanding and implementing practices that address areas beyond their specific trade or skill. This program gives an overview of the 8 essential practices and demonstrates where our standard training methods in medical school, residency, fellowship and practice actually lead to burnout or less fulfilling practice survival skills. This interactive session will also help each surgeon create action plans to create best practices for a sustainable lifestyle-friendly practice starting with energy and wellness, worklife balance, and complex problem solving (EMR, staff turnover, surgery scheduling, dealing with administrators, and so on.)

SKILLS LABS

MINI SYMPOSIA, continued

1:30 pm – 3:00 pm

From the Operating Room to the Boardroom -Applying an MBA to Benefit Orthopaedic Traumatology Moderator: Hassan R Mir, MD, MBA

Faculty: Peter L Althausen, MD, MBA; David J Hak, MD, MBA; M Bradford Henley, MD, MBA; Robert A Probe, MD; Craig S Roberts, MD, MBA; George V Russell, MD, MBA

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

1:30 pm - 3:00 pm

ORIF Versus Acute Arthroplasty for Common Extremity Injuries: What Does Evidence-Based Medicine Tell Us? Moderator: *Emil H Schemitsch, MD* Eacuth: Hans Kreder MD: Michael McKee, MD:

Faculty: Hans Kreder, MD; Michael McKee, MD; Aaron Nauth, MD; Andrew Schmidt, MD

Increasingly, evidence based medicine (EBM) is being promoted by various groups as the standard to define clinical care. This symposia will illustrate how the use of currently available EBM studies can aid in decision-making with regards to treatment of common extremity injuries with ORIF versus acute arthroplasty.

SKILLS LABS

No Charge. Seating available first come, first-served.

Friday, October 9, 2015

6:30 am – 7:30 am (SL1) SIGN Fracture Care International Lab Leader: *Lewis G Zirkle Jr, MD*

The SIGN IM nail interlocking screw system is designed for use in developing countries and for surgeons everywhere who would like to avoid radiation from use of C-arm. The distal interlocking screws can be placed consistently and quickly using a mechanical technique which has been used in 150,000 fractures of long bones. The goal of SIGN nail sawbones skills lab is to learn SIGN technique for stabilization of tibia and femur fractures. Table instructors will include surgeons who are OTA-SIGN Scholars.



NEW THIS YEAR! No pre-registration and no tickets! No more waiting lists.

All attendees will have an equal opportunity at attending the skills labs.

- Skills Labs will FILL QUICKLY
- Arrive EARLY to insure your space at a lab table
- Door monitors will close lab door when room reaches maximum

6:30 am – 7:30 am (SL2) Periprosthetic Fracture (Femur) Lab Leader: *Erik Kubiak, MD*

The incidence of periprosthetic fractures of the femur is increasing. This practical lab will demonstrate the modern principles of fixation of these fractures, and the contemporary implants available. Included will be a brief description of the role of allograft strut or additional plate augmentation of the fracture at high risk for fixation failure.

1:15 pm – 2:15 pm

(SL3) IM Nailing Proximal Tibia Fractures Lab Leader: Paul Tornetta III, MD

Proximal tibia fractures represent a challenge for the orthopaedist. This hands-on lab will focus on topics such as indications, surgical approach, start point, reduction manouvers, blocking screws and nail choice to enhance the ability to obtain and maintain a satisfactory reduction.

1:15 pm – 2:15 pm

(SL4) Fixation of Proximal Humerus Fractures Lab Leader: Andrew R Fras, MD

This lab will demonstrate a number of technical principles that are within the surgeon's control (i.e. accurate redution, no varus malignment, placement of a calcar screw) that can minimize mechanical failure after proximal humeral fracture fixation.

Saturday, October 10, 2015

6:30 am - 7:30 am

(SL5) Complex Ankle Fractures: Posterior Malleolus, Syndesmosis

Lab Leader: John Alan Scolaro, MA, MD

The functional outcome of complex ankle fractures is dependent on the accurate restoration of the posterior malleolus and the syndesmosis. This lab will focus on intra-operative techniques that facilitate anatomic reduction and stable fixation of these structures.

6:30 am – 7:30 am

(SL6) Fixation of Intra-Articular Distal Humeral Fractures Lab Leader: *Michael D McKee, MD*

This lab will demonstrate the advantages of parallel versus perpendicular plate fixation of these difficult to treat fractures. Attendees will also be able to familiarize themselves with features of modern plating systems that can maximize outcomes.

INDUSTRY SYMPOSIA

Wednesday, October 7, 2015

6:30 pm - 8:00 pm - *Registration Required*

DJO Global (IS8)

- 6:30 7:15 pm Eliminating Cost Variation on the Treatment of Distal Radius Fractures Guest Speaker: Foundation of Orthopedic Trauma (FOT) Surgeon
- 7:15 8:00 pm New, Efficient and Cost Effective Treatment for Ankle Fractures Guest Speaker: Kenneth J. Koval, MD,

Orlando Regional Medical Center, Orlando, FL

Participating surgeons will have the opportunity to learn more about this disruptive, innovative implant & instrumentation delivery system while reviewing the clinical appropriateness in both Distal Radius and Ankle fractures. The sawbone labs will be lead by renowned trauma surgeons and supported by Lab Instructors. All are encouraged to participate in this DJO Sponsored Symposium.

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Thursday, October 8, 2015

11:15 am - 12:45 pm – *Registration Required* (Boxed lunch available)

DePuy Synthes Trauma (IS1)

DePuy Synthes Trauma (IS2)



Stryker Trauma (IS3)

Current Trends, Clinical Applications and Case Studies of Orthobiologics in Orthopaedic Trauma

Faculty: Peter Giannoudis, MD, FRCS; Kenneth Koval, MD; Charles Moon, MD

Attendees will be introduced to the landscape of orthobiologics in Orthopedic Trauma. Professor Giannoudis, Dr Koval and Dr Moon will address the Current Trends, Clinical Applications and Case Studies of Orthobiologics in Orthopaedic Trauma. Topics discussed will include Masquelet, Synthetics Bone Graft Substitutes, Allografts and Next Generation Cellular Bone Allografts.

Zimmer Biomet (IS4)

Surgical Treatment Options for Challenging Hip Fractures

Acumed (IS5)

Posterior Malleolus Fracture Fixation: Tips and Pearls

Faculty: TBA

Lecture and sawbones lab session on posterior malleolus fracture management with the new Acumed Ankle Plating System 3.

Ellipse Technologies (IS6)

Revolutionary Intramedullary Limb Lengthening Solution for the Orthopaedic Trauma Surgeon

Moderator/Faculty: Austin Fragomen, MD; Robert Rozbruch, MD (HSS) & Mitchell Bernstein, MD Discussion on the latest advancement in limb lengthening surgery with a completely internal device. This session will include tips and tricks to help improve patient outcomes and avoid complications with this state-of-the-art device. The PRECICE is 100% internal and precisely adjusted with a remote control based on the patients individual needs.

Siemens (IS7)

Artis Zeego - Zero Malpositions with 3D Imaging, Vision or Reality? Take Imaging in Orthopedic Trauma Surgery to a New Level!

Moderator: Ina Schwabenland, MD, Siemens Healthcare GmbH, Therapy Systems, Forchheim, Germany

Faculty: Prof. Florian Gebhard, MD, PhD, Director Orthopedic Traumatology, Hand, Plastic, and Reconstructive Surgery,

University Hospital of Ulm, Ulm, Germany

David M. Kaehler, MD, Prof. Dept. of Orthopedic Surgery, University of Virginia, Charlottesville, VA, USA

Exciting experiences fresh from the Hybrid OR for 3D imagingempowered alignment with Siemens Artis zeego. Gain a fresh perspective and learn from two pioneers in the field.

Acelity (IS9)

CME credits are not available.

Absolutely no recording (audio or video) or photography is permitted.

REGISTRATION and ADDITIONAL INFORMATION

Disclaimer

The material presented at the 31st 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

The Manchester Grand Hyatt Hotel San Diego

The Orthopaedic Trauma Association's 31st Annual Meeting and all pre-meeting and concurrent courses will be held at the Manchester Grand Hyatt Hotel in beautiful, sunny San Diego, California.

About San Diego

San Diego, California's second largest city, is known for its idyllic climate, 70 miles of pristine beaches and a wide array of attractions. The average temperature for October is 75 degrees with a low of 60 degrees. Popular attractions include the world-famous San Diego Zoo and Wild Animal Park, Sea World San Diego and LEGOLAND California.

In San Diego's East County, the terrain varies from gentle foothills to mile-high mountains, down to the 600,000-acre Anza Borrego Desert State Park. Along the west, 70 miles of Pacific Ocean coastline supports outdoor recreation such as surfing, boating, sailing and swimming.

San Diego's arts and culture is booming. Balboa Park, the largest urban cultural park in the U.S., is home to 15 museums, numerous art galleries, beautiful gardens, and the Tony Award-winning The Globe Theatres.

San Diego County also features 92 golf courses, a variety of participatory and spectator sports, gaming, a dynamic downtown district, and annual special events.

To learn more about San Diego, check out these websites:

- San Diego Convention and Visitors Bureau: http://www.sandiego.org/
- The City of San Diego: http://www.sandiego.gov/
- Gaslamp District: www.gaslamp.org



REGISTRATION and ADDITIONAL INFORMATION, continued

Accommodations

The Manchester Grand Hyatt Hotel San Diego



The OTA has secured discounted room rates at the Manchester Grand Hyatt San Diego. Hotel reservations should be made no later than September 30th.

The Annual Meeting will take place at the Manchester Grand Hyatt Hotel.

Rates: Single/Double = \$287.00 + 12.5 % tax

 Online reservations are recommended. Reservations can be made on-line via the OTA website www.ota.org. Be sure to mention you are with the OTA.

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

Welcome Reception

Thursday, October 8, 2015 • 6:00 pm - 8:00 pm Manchester Grand Hyatt Pool Deck

Join your colleagues for cocktails and a generous assortment of hors d'oeuvres while taking in the magnificent views of downtown, San Diego Bay and the Pacific Ocean from the pool deck of the Manchester Grand Hyatt.

Airline Reservations

NEW IN 2015 – AmTrav is OTA 's preferred



travel agency. To welcome OTA travelers to AmTrav, all attendees booking via the OTA personalized travel link, will be entered into a drawing for your choice of: • 2016 Complimentary Dues or • 2016 Complimentary Annual Meeting Registration.

AmTrav's goal is to make traveling for OTA attendees as easy as possible. No one airline company is preferred. The lowest airline rates on all airlines, including Southwest, are provided to you. You choose and you keep all airline points.AmTrav provides 24/7 in-house support through a team of highly experienced travel agents and a convenient, online OTA specialized booking tool at http://www.amtrav.com/ota.

Service Fees:

- 1. Website: http://www.AmTrav.com \$9 charge for airline booking; no fee for hotel or car online booking.
- 2. Phone: 800-795-8371 or 312-629-0590 \$29 charge to book travel via phone call.
- 3. EmailTravelerSupport@AmTrav.com Never a charge for email support.
- 4. Live Chat: See the "Live Chat" icon on the http://www.amtrav.com/ota website No charge for live chat.

Ground Transportation

To/From San Diego International Airport (SAN)

It is approximately a 10-minute drive from the San Diego International Airport to the Manchester Grand Hyatt. A cab ride from the airport to the hotel costs approximately \$10 - \$13. There are several companies who provide taxicab service at the airport; imply follow the signs leading to the Transpo-tation Plazas.

Shuttle service is also available from the airport to the hotel. There are a number of shuttle service companies who provide transportation. Shuttles are available at the Transportation Plazas across from Terminals 1 and 2, and curbside at the Commuter Terminal. SuperShuttle offers one-way transportation between the airport and the hotel for \$8.



REGISTRATION and ADDITIONAL INFORMATION, continued

Registration Information – Register Early!

- Register online at www.ota.org using your OTA username. E-mail ota@aaos.org for your OTA username.
- FAX completed form directly to: (847)430-5140
- Check made payable to OTA and drawn from a US bank in US dollars. Mail form and check by September 15 to: OTA 9400 W. Higgins Rd, Suite 305, Rosemont, IL 60018, USA
- Registrations postmarked after September 15 will not be processed; on-site registrations will require an additional \$100 USD late fee.
- All pre-registrations will receive confirmation by E-mail. Badges will NOT be mailed; but rather picked up on-site. Attendees will be able to pre-register online until September 30, 2015.
- The pre-registration form may be photocopied as needed.

Cancellations and Refunds

- Submit cancellation in writing to OTA office via fax: (847)430-5140 or E-mail: OTA@ota.org
- Refunds less a \$100 USD processing fee per registration will be made in a timely basis by OTA after the close of the OTA Annual Meeting, if cancelled prior to October 7th.
- No refunds after October 7, 2015.

Annual Meeting Posters

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

Guided Poster Tours and Industry Lunch Symposia

- Ensure your space in Guided Poster Tours and Industry Lunch Symposia register early.
- Poster and Industry Symposia FILL QUICKLY and may not be available to on-site registrants.
- Choose the Symposia in order of your preference.

On-site Registration

- Registrations received after September 30 will be accepted on-site plus an additional \$100 USD late fee.
- On-site Registration available: Tuesday, October 6: 3:00 – 6:00 pm; Wednesday - Saturday, Oct. 7-10: 6:15 am – 5:00 pm

Skills Labs



NEW THIS YEAR! No pre-registration and no tickets! No more waiting lists.

All attendees will have an equal opportunity at attending the skills labs.

- Skills Labs will FILL QUICKLY
- Arrive EARLY to insure your space at a lab table
- Door monitors will close lab door when room reaches maximum



31st Annual Meeting Check List

- Completed the Meeting Registration Form?
- Indicated your preferences for Industry Lunch Symposia and Guided Poster Tours (page 59)?
- Included your Payment with the Registration Form?
- Made your hotel reservation with The Manchester Grand Hyatt Hotel online at www.ota.org?

Secure on-line registration at www.ota.org or Fax Registration Forms with Credit Card payment to (847)430-5140

Mail Registration with USD Check Payment to the OTA staff office: Orthopaedic Trauma Association 9400 W. Higgins Road, Suite 305 Rosemont, IL 60018 USA

- All Badges will be picked up at the Registration Desk in San Diego none will be mailed.
 - Pre-registrations will receive confirmation via E-mail. Badges will be printed and picked up in the Express Registration line in San Diego.
 - Please REMEMBER to bring your meeting registration confirmation.

Registration faxed or post-marked by September 15, 2015. Register on-line by September 30, 2015

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

Registration Form

Registration Form

REGISTRATION DEADLINE (ONLINE or FAX) SEPTEMBER 30, 2015

MAILED REGISTRATIONS MUST BE POSTMARKED ON or PRIOR TO SEPTEMBER 15, 2015 REGISTER ONSITE AFTER SEPTEMBER 30, 2015 – \$100 FEE WILL APPLY

PERSONAL INFORMATION (PLEASE PRINT CLEARLY)

 OTA Member Non-member Medical Resident Non-member* or Non-member Health Care Personnel* Please provide Residency Program Director:	POSTAL CODE E-MAIL Office	COUNTRY Personal <i>; 2015. Fees increased \$100 USD on</i> \$250.00 USD \$750.00 USD
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Please provide Residency Program Director: WEDNESDAY, OCTOBER 7 Basic Science Focus Forum Orthopaedic Trauma Boot Camp International Orthopaedic Trauma Care Forum International Reception (All International Participants Welcome) ICD-10 Coding for Trauma Surgeons Residents Comprehensive Fracture Course 10/7/15 – 10/10/15 THURSDAY, OCTOBER 8 Young Practitioners Forum 'Orthopaedic Trauma for PAs and NPs 10/8/15 – 10/10/15 Welcome Reception Guest Reception Ticket(s)# of persons attending X \$65.00 USD 'NOTE: Do not register for the Annual Meeting if you are attending the Orthopaedic Trauma for Paesition and persons attending the Orthopaedic Trauma for Paesition and Paesition of the Paesition of th		
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FRIDAY, OCTOBER 9	or PAs and NPs Course	
Women in Orthopaedic Trauma Luncheon	FREE	FREE
New Member Luncheon	FREE	FREE
Military Reception	FREE	FREE
PA/NP Reception	FREE	FREE
ТОТ	AL\$	
SERVED SESSIONS TICKETS REQUIRED 1st Choice # (Only check o	ne)	2nd Choice # (Only check one)
Industry Symposia		
Wednesday Evening 6:30 pm – 8:00 pm		
Thursday Lunch 11:15 am - 12:45 pm IS1 IS2 IS3 IS4 IS5 IS6	IS7 IS9 IS1	🗆 IS2 🗆 IS3 🗆 IS4 🗔 IS5 🗔 IS6
Poster Tours		
Friday Lunch 12:30 pm – 1:15 pm 🗖 PT1 🗖 PT2	D PT1	DPT2
Friday Evening 5:48 pm – 6:45 pm 🔲 PT3 🛄 PT4	🗆 PT3	3 🗅 PT4
Saturday Lunch 12:35 pm – 1:20 pm 🛛 PT5 🖵 PT6	D PT5	5 🗖 PT6
Skills Labs		
Friday Morning 6:30 am – 7:30 am NEW THIS YEAR! No pre-regist	ration and no tickets! No	o more waiting lists.
Friday Afternoon 1:15 pm – 2:15 pm Skills Labs will FILL QUICKLY	Arrive EARLY to insure y	our space at a lab table
Saturday Morning 6:30 am – 7:30 am Door monitors will close la	ab door when room reach	nes maximum
THOD OF PAYMENT		
Check Enclosed VISA MasterCard American Express		•
CARD NUMBER EXP. DATE CVV #		
NAME (AS IT APPEARS ON CARD)	_ (San
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 process		
NO refunds after October 7, 2015. Make checks payable to: Orthopaedic Trauma Association, 9400 W. Higgins Rd, Suite 305, Rosemont, IL d	sing fee.	

All company representatives must use Exhibitor Registration Form (email OTA@ota.org).

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Member Services

Take advantage of the many OTA member services...

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



Education

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

The OTA offers educational opportunities for:

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

Scholarships offered for most resident and fellows programs.

Research

- Research Grants
- Trauma Registry
- 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 and Practice Management

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







SAVE THE DATE...

Membership Application Deadline

(Apply Online) November 1, 2015

2016 OTA Events

January 29 - 30, 2016 Residents Advanced Trauma Techniques Course Orlando, Florida

February, 2016 AAOS/OTA Trauma Update Orlando, Florida

March 5, 2016 OTA Specialty Day Orlando, Florida

April 13 - 16, 2016 OTA Spring Residents Comprehensive Fracture Course Chicagoland, Illinois

April, 2016 OTA Fellows Course Boston, Massachusetts

October 5 - 8, 2016 OTA Annual Meeting Annual Meeting Abstract Deadline: February 1, 2016

Webinars

Please visit the OTA website for exact dates:

(September) Pilon Fractures: Strategies to Optimize Outcomes Moderator: *David P Barei, MD*

(November) A Patient's Guide to Atypical (Bisphosphonate Related) Femur Fractures: Who's at Risk, How and When to Treat, and Recovery Moderator: *William M Ricci, MD*

Orthopaedic Trauma Association 9400 W. Higgins Road, Suite 305, Rosemont, IL 60018-4975 Tel: (847) 698-1631 | Fax: (847) 430-5140 | E-mail: OTA@ota.org







Pre-registration Deadlines: Registration faxed or post-marked by September 15, 2015. Register on-line by September 30, 2015 Hotel Deadlines: September 30, 2015

Register Today at www.ota.org



CME Credits

23.5 AMA PRA Category 1 Credits[™] for attending the Annual Meeting. Additional credits are also available if you attend premeeting events:

Basic Science Focus Forum (11.5 AMA PRA Category 1 Credits[™]) ICD-10 Coding for Trauma Surgeons (6 AMA PRA Category 1 Credits[™]) International Trauma Care Forum (8.75 AMA PRA Category 1 Credits[™]) Orthopaedic Trauma Boot Camp (12.75 AMA PRA Category 1 Credits[™]) Young Practitioners Forum (4 AMA PRA Category 1 Credits[™]) PA/NP Course (19.5 AAPA Category 1 CME Credits[™])