

# 2017 OTA ANNUAL MEETING

THURSDAY, OCTOBER 12

## GENERAL SESSION

1:00pm – 1:20pm

**WELCOME AND DONOR AWARDS**  
**Michael D. McKee, MD**  
*Program Committee Chair*

Kelly A. Lefavre, MD, Peter J. O'Brien, MD  
and Pierre Guy, MD  
*Local Hosts*

1:20pm – 2:50pm

**SYMPOSIUM I: Hot Off the Press - How Evidenced Based Medicine Has Changed Fracture Treatment in 2017**

**Moderator:** Niloofar Dehghan, MD

### Objectives:

- Discuss and highlight recently presented clinical trials in orthopaedic trauma.
- Explain evidenced based recommendations for the treatment of common fractures.
- Explain how to help change practice based on historic trends, to updated treatment strategies based on evidenced based medicine.

### Description

The aim of this symposium is to highlight practice changing clinical trials conducted in the recent years, and provide clear evidenced based recommendations for the treatment of common fractures.

### Presentations:

**Open Fractures: Which Type of Fluid and Pressure is Best?**

Ross K. Leighton, MD

**Distal Clavicle Fractures: Should We Fix Them?**

Jeremy Alan Hall, MD

**AC Joint Injuries: When to Fix and When to Treat With a Sling?**

Michael D. McKee, MD

**Treatment of the Ulnar Nerve after Distal Humerus Fractures: Transpose or Leave in Situ?**

Emil H. Schemitsch, MD

**Non-operative Treatment of Olecranon Fractures In Elderly: It is Possible!**

Andrew D. Duckworth, MD, PhD

**Hip Fracture ORIF: Cannulated Screws or DHS?**

Michael Blankstein, MD

**Don't Be Afraid to Allow Early Weight Bearing After Ankle and Tibia Fracture Fixation!**

Niloofar Dehghan, MD

**Syndesmotic Ankle Injuries: When Do You Remove the Screws? Should We Use Tightrope Instead?**

David W. Sanders, MD

### Questions

2:50pm – 3:20pm

**Refreshment Break**  
Exhibit hall opens at 2:30

3:20pm – 4:29pm

**PAPER SESSION I:  
PROGRAM HIGHLIGHTS**  
Michael D. McKee, MD  
Michael J. Gardner, MD

Moderators:

3:20pm – 3:26pm

**Paper 1**  
**Improved Reduction of the Tibio-Fibular Syndesmosis with Tightrope compared to Screw Fixation: Results of a Randomized Controlled Study (COTS) Canadian Orthopaedic Trauma Society; David W. Sanders, MD; Prism Schneider, MD, PhD; Christina Tieszer, BSc, MSc; Abdel-Rahman Lawendy, MD; Michel Taylor, MD**

3:26pm – 3:32pm

**Paper 2**  
**Fixation of Distal Tibia Fractures (UK FixDT): A Randomised Controlled Trial of "Locking" Plate Fixation Versus Intramedullary Nail Fixation in the Treatment of Adult Patients with a Displaced Fracture of the Distal Tibia**  
Matthew Costa, PhD

3:32pm – 3:38pm

**Paper 3**  
**UK Wound management of Open Lower Limb Fractures (UK WOLLF) – A Randomised Controll Trial of Standard Wound Management versus Negative Pressure Would Therapy in the Treatment of Adult Patients with an Open Wound Fracture of the Lower Limb**  
Matthew Costa, PhD

3:38pm – 3:43pm

**Discussion**

3:43pm – 3:49pm

**Paper 4**  
**Operative vs. Non-operative Treatment of Acute Displaced Distal Clavicle Fractures: A Multicentre Randomized Controlled Trial (COTS) Canadian Orthopaedic Trauma Society; Jeremy Hall, MD; Niloofar Dehghan, MD; Emil H. Schemitsch, MD; Aaron Nauth, MD; Robert Korley, MDCM; Robert McCormack, MD; Pierre Guy, MD; Steven Papp, MD; Michael D. McKee, MD**

## GENERAL SESSION

3:49pm – 3:55pm

**Paper 5**  
**Does Motion at 8 Weeks Predict Nonunion in Nonoperatively Managed Humeral Shaft Fractures: A Prospective Multicenter Evaluation**  
**Paul Tornetta, III, MD;**

Lisa K. Cannada, MD; Robert Hymes, MD; Clifford B. Jones, MD; Brian Mullis, MD; Eben Carroll, MD; Raymond Wright, MD; Andrew Marcantonio, DO; David C. Teague, MD; Robert Ostrum, MD; Michael Tucker, MD; Dirk Kiner, MD; Lauren Germany; Michael Del Core, MD; Sarah Dawson; Heidi Israel, PhD

3:55pm – 4:01pm

**Paper 6**  
**Multicenter Retrospective Analysis of Humeral Shaft Fractures: Are Sarmiento's Results Widely Reproducible?**

**Rafael Serrano, MD;** Hassan Mir, MD; H. Claude Sagi, MD; Daniel Horwitz, MD; John Tidwell, MD; John Ketz, MD; Brian Kistler, MD; Jonathan Quade, MD; Michael Beebe, MD; Anjan Shah, MD

4:01pm – 4:07pm

**Paper 7**  
**The FaB (Fractures and Bisphosphonates) Trial: A Multi-Centre Double-Blind, Randomised Controlled Trial On The Effect Of Alendronic Acid On Healing And Clinical Outcomes Of Wrist Fractures**

**Andrew Duckworth, MD PhD;** Christopher Tuck, BSc; Aryelly Rodriguez, MSc; Gordon Murray, PhD; Stuart Ralston, MD

4:07pm – 4:12pm

**Discussion**

4:12pm – 4:18pm

**Paper 8**  
**Costs and Complications of Single Stage Fixation Versus Two-Stage Treatment of Select Bicondylar Tibial Plateau Fractures**  
**Walter Virkus, MD;** Jesse Caballero, BS; Laurence Kempton, MD; Matthew Cavallero, MD, Rich Rosales, BS; Todd O. McKinley, MD; Greg Gaski, MD

4:18pm – 4:24pm

**Paper 9**  
**Locking Plate Fixation of Bicondylar Tibial Plateau Fractures Raises Treatment Costs without Clinical Benefit**  
**Matthew Cavallero, MD;** Rich Rosales, BS; Jesse Caballero, BS; Walter Virkus, MD; Laurence Kempton, MD; Todd O. McKinley, MD; Greg Gaski, MD

4:24pm – 4:29pm

**Discussion**

4:30pm – 5:10pm

**SESSION OF GENERAL INTEREST:**  
**“Building a Strong Public Health Care: The Dangers of Monopoly and Bureaucracy”**  
 Brian Day, MD

5:10pm – 6:10pm

**OTA BUSINESS MEETING**  
 (Members Only)

5:10pm – 6:10pm

**PRE-RECEPTION WITH EXHIBITORS**  
 (All Meeting Attendees Invited)

6:10pm – 8:10pm

**WELCOME RECEPTION**



GENERAL SESSION

7:45am – 9:29am

**PAPER SESSION II:  
FOOT AND ANKLE**

Moderator:

Brett D. Crist, MD

7:45am – 7:51am

**Paper 10**  
**Single Screw Fixation Compared With Double Screw Fixation For Treatment Of Medial Malleolar Fractures: A Prospective Randomized Trial**  
**Richard Buckley, MD FRCPC;** Ernest Beng Kee Kwek, MD; Paul Duffy, MD; Robert Korley, MDCM; Emilia Moller, MD; Andrew Buckley; Prism Schneider, MD, PhD

7:51am – 7:57am

**Paper 11**  
**Weight-Bearing Or Non-Weight-Bearing After Surgical Treatment of Ankle Fractures, The WOW! Study: A Multicenter Randomized Controlled Trial**  
**Diederik Smeeing, MD;** Roderick Houwert; Jan Briet; Koen Lansink, MD, PhD; Loek Leenen, MD, PhD; Peer Van der Zwaal; Stephan Van Zuthpen; Bas Twigt; Jochem Hoogendoorn; Egbert Verleisdonk; Michiel Segers; Falco Hietbrink

7:57am – 8:03am

**Paper 12**  
**The AIM Trial Extended Follow-up: Three-year Outcomes from an Equivalence Randomized Clinical Trial Comparing Close Contact Casting with Internal Fixation Surgery for Unstable Malleolar Fractures in Patients Over 60 Years**  
**Keith Willett, MBBS;** David Keene, PhD; Robert Handley, MB BS; Tim Chesser, MBBS; Ian Pallister, MD; Dipesh Mistry, PhD; Susan Wagland, PhD; Scott Parsons, Ranjit Lall; Sallie Lamb, PhD

8:03am – 8:08am

**Discussion**

8:08am – 8:14am

**Paper 13**  
**An Immediate Weight-bearing Protocol for the Determination of Ankle Stability In Patients with Isolated Distal Fibular Fractures**  
Eric Bonness, MD; **Justin Siebler, MD;** Lori Reed, MD; Matthew Mormino, MD

CONCURRENT SESSION

6:30am –7:30am

**COMPLEX BICONDYLARTIBIAL PLATEAU FRACTURES**

Moderator: John Scolaro, MD

Faculty: Timothy Achor, MD  
David Barei, MD  
Samir Mehta, MD  
Gilbert Ortega, MD  
J. Tracy Watson, MD

**Objectives:**

- Anticipate and identify common fracture characteristics
- Develop a strategy for surgical reduction and fixation
- Recognize common pitfalls of management

Bicondylar tibial plateau fractures are complex injuries. Join our panel of experts to discuss the various surgical techniques that can be utilized to reduce and fix these difficult fractures.

6:30am –7:30am

**REGISTRIES: WHAT CAN WE LEARN FROM THEM?**

Moderator: Pierre Guy, MD

Faculty: Matthew Costa, FRCS, PhD  
Brad Petrisor, MD  
Cecilia Rogmark, MD  
Boris Sobolev, MD

**Objectives:**

- Review the definition of a Registry
- Contrast the results of Registries vs RCTs in guiding clinical practice
- Integrate results of Registry data into clinical, economic, and administrative decision making

Registries are becoming an increasingly important part of the reported Orthopedic Trauma research landscape. This session will serve as a primer for Registries and will contrast them with RCTs.

6:30am –7:30am

**EXPEDITED HIP FRACTURE MANAGEMENT**

Moderator: Kyle Judd, MD, MS

Faculty: Damien Billow, MD  
John T. Gorczyca, MD  
Catherine Humphrey, MD  
A. Alex Jahangir, MD  
Daniel Mendelson, MD  
Gillian Soles, MD

**Objectives:**

- Appropriate patient selection for expedited hip fracture care and principles of pre operative evaluation
- Effect of expedited hip fracture care on patient outcome
- Financial impact of expedited hip fracture care

A discussion of expedited hip fracture management and its impact on geriatric fracture care, including: financial implications for health care system, appropriate patient selection and how to operationalize an expedited hip fracture program.

**8:00AM-9:00AM SKILLS LABS****DISTAL FEMUR PLATING****Lab Leader: Gerard P. Slobogean, MD****Lab Description**

Fractures of the distal femur can be challenging. This lab will examine the indications for nailing versus plating, and focus on techniques for obtaining an accurate reduction. Newer plate/screw technologies that may minimize deformity and enhance the healing of these difficult injuries will be demonstrated.

**Learning Objectives**

1. Describe the indications for plating versus intramedullary nailing for fractures of the distal femur.
2. Identify techniques to establish optimal fracture reduction in a minimally invasive approach.
3. Illustrate how newer plate/screw fixation methods may improve the biology of distal femoral fracture healing.

**SIGN FRACTURE CARE INTERNATIONAL****Lab Leader: Lewis G. Zirkle Jr., MD****Lab Description**

The SIGN Fracture Care International (SIGN) IM Nail interlocking screw system is designed for use in developing countries and for surgeons everywhere who should 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 177,000 fractures of long bones. The goal of SIGN nail sawbones skills labs is to learn SIGN technique for stabilization of tibia and femur fractures. Table instructors will include surgeons who are OTA-SIGN scholars.

**Learning Objectives**

1. Identify the difference in performing IM nail interlocking screw fixation without power or C-arm.
2. Evaluate the use of mechanical methods to ream in place distal interlocking screws using SIGN technique.
3. Discuss the different long bones that can be treated with the same nail and instrument set.

**PILON FRACTURE PLATING****Lab Leader: John Scolaro, MD****Lab Description**

Pilon fractures are difficult to treat definitively. The unique bone topography often makes implant application challenging. In this lab, participants will review common fracture fragments and appropriate stabilization techniques

**Learning Objectives**

1. Recognize the typical fracture fragments associated with pilon fractures
2. Understand general potential reduction strategies for pilon fractures
3. Review currently available periarticular plating options available and the nuances associated with their application

**1:15PM-2:15PM SKILLS LABS****DISTAL HUMERUS PLATING****Lab Leader: Lisa K. Cannada, MD****Lab Description**

In this lab, participants will review the relevant bony and soft tissue anatomy with respect to treating distal humerus fractures, and will cover common plating applications and pitfalls.

**Learning Objectives**

1. Understand the various common fracture patterns regarding distal humerus fractures.
2. Familiarize with the biomechanical data regarding plate type and position
3. Understand common plating applications with periarticular contoured plates

**ANKLE SPANNING EXTERNAL FIXATION****Lab Leader: Julius A. Bishop, MD****Lab Description**

In this lab, participants will discuss indications and techniques for delta-frame ankle-spanning external fixator application

**Learning Objectives**

1. Understand the indications for ankle spanning external fixation
2. Recognize the pertinent soft tissue anatomy when placing pins
3. Understand mechanical factors to maximize strength of external fixator

**IM NAILING OF PROXIMAL TIBIAL FRACTURES****Lab Leader: Paul Tornetta III, MD****Lab Description**

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

**Learning Objectives**

1. Identify the indications for the use of intramedullary nailing for a proximal tibial fracture
2. Describe the surgical approach options for proximal tibial intramedullary nailing.
3. Practice the technical aspects of reduction and nail insertion to minimize the potential for deformity.

## GENERAL SESSION

8:14am – 8:20pm

**Paper 14**  
**Rate of Syndesmotic Instability Following Anatomic Posterior Malleolar Fracture Open Reduction and Internal Fixation**  
 Matthew Miller, MD; Clay Spitler, MD; Matt Graves, MD; William Replogle, PhD; Josie Hydrick, BS; LaRita Jones, PhD;  
**Patrick Bergin, MD**

8:20am – 8:26am

**Paper 15**  
**Posterior Malleolar Fracture Morphology Determines Outcome in Rotational Type Ankle Fractures: A Prospective Clinical Trial**  
**Robin Blom, PhD Candidate;**  
 Diederik Meijer, MD; Robert-Jan De Muinck Keizer MD, PhD; Inger Sierevelt, MSc; Tim Schepers, MD, PhD; Sjoerd Stufkens, MD, PhD; Gino Kerkhoffs, MD, PhD; J.C. Goslings, MD, PhD; Job Doornberg, MD, PhD

8:26am – 8:31am

**Discussion**

8:31am – 8:37am

**Paper 16**  
**The Major Extremity Trauma Research Consortium– Multi-site Evaluation of a Custom Energy-Storing Carbon Fiber Orthosis for Lower Limb Trauma Patients with Residual Disability**  
**Benjamin Potter, MD;** Kevin Kuhn, MD; John Ferguson, Joseph Hsu, MD; Wade Gordon, MD; Johnny Owens, Jessica Rivera, MD; Robert Sheu, MD; Daniel Stinner, MD; Jason Wilken, PhD; Michael Bosse, MD; Jennifer DeSanto, RN MPH; Daniel Scharfstein, PhD; Yanjie Huang, MS; Ellen MacKenzie, PhD

8:37am – 8:43am

**Paper 17**  
**Limb Salvage and Amputation Outcomes Following Severe Distal Tibia and Hindfoot Injuries: A Multi-center Prospective Evaluation**  
**Michael Bosse, MD;** Lisa Reider, PhD; Joshua Gary, MD; Wade Gordon, MD; Daniel Scharfstein, PhD; Saam Morshed, MD PhD; Eben Carroll, MD; Reza Firoozabadi, MD; Jason Luly, MS; Clifford Jones, MD; Ellen MacKenzie, PhD; METRC OUTLET Study Team

## CONCURRENT SESSION

6:30am –7:30am

**MANAGING COMPLICATIONS IN FRACTURE SURGERY: A TRAUMA SURGEON'S GUIDE!**

Moderator: Emil H. Schemitsch, MD

Faculty: Niloofar Dehghan, MD  
 Michael D. McKee, MD  
 Theodore Manson, MD  
 Aaron Nauth, MD  
 Benjamin Potter, MD

**Objectives:**

- When and how to restore function when complications occur after fracture surgery fails
- Evaluate the evidence around management of common complications of fracture surgery
- How to manage acute infection, nonunion, malunion, broken hardware, heterotopic ossification and arthritis after fracture fixation

A primary goal of the symposium will be to achieve consensus opinions on many current issues and controversies regarding the treatment of complications following fracture management.

6:30am – 7:30am

**PELVIS AND ACETABULUM FRACTURES**

Moderator: Paul Tornetta, III, MD

Faculty: Reza Firoozabadi, MD  
 David C. Templeman, MD  
 Joshua Layne Gary, MD  
 Cory A. Collinge, MD

**Objectives:**

Summarize initial management, identify operative treatment options, and outline expected outcomes of pelvic and acetabular fractures.

**Description:**

Cases presented highlight the initial management, operative treatment options, and expected outcomes of pelvic and acetabular fractures. Expert panel will provide personal insight and varying options for these injuries.

8:00am –9:30am

**MANAGEMENT OF SCAPULAR FRACTURE**

Moderator: William T. Obremsky, MD

Faculty: Clifford B. Jones, MD  
 Paul Tornetta III, MD  
 Peter Cole, MD

**Objectives:**

- Understand associated injuries with scapular fractures
- Comprehend and occasions for operative and nonoperative management
- Review technique for fixation of fractures and malunion of the scapula

We will discuss associated injuries and initial evaluation for associated injuries. Indications for operative and nonoperative treatment as well as techniques for fixation and results of malunion will be discussed.

## GENERAL SESSION

8:43am – 8:49am	<b>Paper 18</b> <b>Calcaneal Avulsion Fractures in 34 Consecutive Patients Treated Over 16 Years at a Level One Trauma Center: An Injury Pattern Fraught with Soft-tissue and Bony Complications</b> <b>Phillip Mitchell, MD;</b> David O'Neill, BA; Cory Collinge, MD
8:49am – 8:54am	<b>Discussion</b>
8:54am – 9:00am	<b>Paper 19</b> <b>Syndesmotic Disruption in Tibial Plafond Fractures: What Are The Risk Factors For Missing the Diagnosis?</b> <b>Justin Haller, MD;</b> Michael Githens, MD; David Rothberg, MD; Thomas Higgins, MD; David Barei, MD; Sean Nork, MD
9:00am – 9:06am	<b>Paper 20</b> <b>Computerized Adaptive Testing for Patient Reporting Outcomes in Ankle Fracture Surgery</b> <b>Elizabeth Gausden, MD;</b> Benedict Nwachukwu, MD; Ashley Levack, MD; Danielle Sin, MS; David Wellman, MD; Dean Lorich, MD
9:06am – 9:12am	<b>Paper 21</b> <b>Measuring Outcomes Over Time in Tibial Plafond Fractures: A Comparison of Generic, Musculoskeletal Specific and Foot and Ankle Specific Outcome Measures.</b> <b>Aresh Sepehri, MD;</b> Kelly Lefavre, MD; Peter O'Brien, MD; Henry Broekhuysse, MD; Abdullah Mamun; Pierre Guy, MD
9:12am – 9:18am	<b>Paper 22</b> <b>Prophylaxis of Venous Thromboembolism in Patients With a Nonsurgical Fracture of the Lower Extremity Immobilized in a Below-Knee Plaster Cast; A Randomized Controlled Trial</b> <b>Marlieke Bruntink, MD;</b> Yannick Groutars; Roelf Breederveld, MD, PhD; Wim Tuinebreijer; Robert Jan Derksen MD, PhD
9:18am – 9:24am	<b>Paper 23</b> <b>Determinants of Functional Outcomes following Ankle Fracture</b> <b>Megan Audet, BA;</b> Chang-Yeon Kim, MD; Heather Vallier, MD
9:24am – 9:29am	<b>Discussion</b>
9:30am – 10:00am	<b>Refreshment Break</b>

## CONCURRENT SESSION

**8:00am –9:30am**  
**AN OUTCOMES BASED APPROACH TO DISTAL RADIUS FRACTURE MANAGEMENT**

Moderator: Raymond Pensy, MD

Faculty: Asif Ilyas, MD;  
Jesse Jupiter, MD  
David Ring, MD**Objectives:**

- Review rationale for operative criteria
- Review best RCTs in the treatment of distal radius fractures
- Managing complications of operative and non-operatively treated distal radius fractures

The distal radius fracture is among the most common and best studied fractures, with a growing number of RCT's available to better guide treatment.

**8:00am –9:30am**  
**MENTAL HEALTH IN ORTHOPAEDIC TRAUMA-PATIENTS AND PROVIDERS**

Moderator: Anna N. Miller, MD

Faculty: Joseph Hsu, MD  
Hassan Mir, MD  
Jeffrey M. Smith, MD  
Heather Vallier, MD**Objectives:**

- Understand mental health aspects that can affect patient care in orthopaedic trauma
- Understand mental health aspects that can affect providers and physician burnout in orthopaedic trauma
- Understand mental health aspects that can affect residents in orthopaedic trauma

Mental health has a strong influence on patient care at all levels of orthopaedic trauma. This symposium explores mental health research from caring for traumatized patients to avoiding physician burnout.

**8:00am –9:30am**  
**PERIPROSTHETIC FEMUR FRACTURES**

Moderator: John T. Gorczyca, MD

Faculty: Catherine Humphrey, MD  
Matthew Jimenez, MD  
Kyle Judd, MD**Objectives:**

- To understand the basic principles of periprosthetic femur fracture treatment
- To understand when the basic principles won't work
- To learn innovative techniques for addressing complex periprosthetic fractures

A variety of simple and complex periprosthetic femur fractures will be presented and discussed to review basic principles and to learn when to use alternative techniques.

## GENERAL SESSION

10:00am – 11:30am

**SYMPOSIUM II: Changing the System: Can We Improve Trauma Care? Experience From the Guest Nation****Moderator:** Tim Chesser, MBBS**Objectives:**

- To describe the benefits of an integrated major trauma network.
- To explain how audit has been used to change standards and improve care in a nation for hip fractures and open fractures.
- To outline how a national trauma research network has been established and report on early results.

To describe the reorganisation of trauma care in the UK and the impact on patient outcome. Exploring the similarities and differences between health care systems of UK and North America.

**Presentations:****Introduction**

John F. Keating, MD

**Comparisons and Differences of Health Care Systems and Trauma Care Between UK and North America**

Keith Willett, MBBS

**Can We Improve The Outcome of Major Trauma Patients With a Trauma Network?**

Christopher G. Moran, MD

**Hip Fractures - Does Standardisation and Audit Make a Difference?**

Tim Chesser, MBBS

**Open Fractures - Centralisation of Care, What We Have Learnt**

Michael Kelly, MBBS

**Establishing a Multicentre Trauma Research Network - Early Results**

Matthew L. Costa, PhD

**Questions**

11:30am – 12:00pm

**JOHN BORDER, MD**  
**MEMORIAL LECTURER**  
**“OBSERVATIONS IN**  
**INNOVATION”**  
 Roy Sanders, MD

12:10am – 1:10pm

**LUNCH**  
**New Member Luncheon**  
**Women in Orthopaedic**  
**Trauma Luncheon**

12:25pm – 1:10pm

**LUNCHTIME GUIDED**  
**POSTER AND VIDEO TOURS**  
**Foot/Ankle**  
 Guide: Paul Tornetta III, MD  
**Knee/Tibia**  
 Guide: Stephen A. Kottmeier, MD  
**Video**  
 Guide: TBD

## CONCURRENT SESSION

8:00am –9:30am

**MULTI-CENTER TRIALS IN ORTHOPAEDIC TRAUMA: LESSONS LEARNED****Moderator:** Gregory J. Della Rocca, MD, PhD, FACS**Faculty:** Mohit Bhandari, MD

Richard E. Buckley, MD, FRCPC

Robert V. O'Toole, MD

Paul Tornetta III, MD

Emil H. Schemitsch, MD

**Objectives:**

- Explain how to contemplate organization of multi-center trials for orthopaedic trauma
- Summarize how, as a new investigator or an investigator at a non-research institution, one can participate or lead a multi-center trial in orthopaedic trauma
- Describe the pitfalls encountered during the organization of multi-center trials in orthopaedic trauma

Multi-center clinical trials in orthopaedic trauma are needed for adequately powered results that can change practice. This symposium will discuss logistics and potential pitfalls of organizing such trials.

8:00am –9:30am

**DISTAL HUMERUS FRACTURES: TIPS AND TRICKS****Moderator:** Utku Kandemir, MD**Faculty:** Milan Sen, MD

Michael J. Gardner, MD

Michael D. McKee, MD

**Objectives:**

- Understand pros and cons of different surgical approaches
- Summarize tips of reduction and fixation techniques
- Describe postoperative rehabilitation

Knowledge of surgical approaches, reduction and fixation techniques, and postoperative management is critical in order to achieve best outcome in distal humerus fractures.

1:15pm –2:45pm

**THE COMING BUNDLE****Moderator:** Kenneth A. Egol, MD**Faculty:** Joseph Bosco, MD,

Roy Davidovitch, MD

A. Alex Jahangir, MD

Sanjit Konda, MD

**Objectives:**

- Understand the era of value based medicine and the current state of “bundle payments”
- Understand the impact of the “bundle payment” system on the trauma community particularly hip and femur fracture patients
- Summarize strategies to help prepare for continued changes in reimbursement for hip and femur fracture Medicare patients

This session will discuss the coming era of VBM and outline strategies for orthopaedic trauma surgeons to prepare for the coming changes in reimbursement for hip and femur fractures.

## GENERAL SESSION

1:15pm – 2:24pm

Moderators:

**PAPER SESSION III:  
PELVIS AND ACETABULUM**David W. Sanders, MD  
David J. Stephen, MD

1:15pm – 1:21pm

**Paper 24**  
**Assessing Quality of Reduction after Acetabular Fracture Surgery: Importance of Gap versus Step Displacement**  
**Diederik Verbeek, MD;**  
Jelle van der List, MD;  
Camden Tissue, MD; David Helfet, MD

1:21pm – 1:27pm

**Paper 25**  
**Acetabular Fractures with a Posterior Dislocation: A 20 year Prospective Cohort Study**  
**John Keating, MD;** Issaq Ahmed, MD

1:27pm – 1:33pm

**Paper 26**  
**The Longitudinal Short, Medium, and Long Term Functional Recovery after Unstable Pelvic Ring Injuries**  
**Michael Neufeld, MD;** Kelly Lefavre, MD;  
Peter O'Brien, MD; Pierre Guy, MD;  
Abdullah Mamun; Henry Broekhuysse, MD

1:33pm – 1:38pm

**Discussion**

1:38pm – 1:44pm

**Paper 27**  
**Preperitoneal Pelvic Packing for Acute Hemorrhage Control is Not Associated With an Increased Risk of Infection After Anterior Pelvic Ring Fixation**  
**Philip Stahel, MD;** Clay Cothren Burlew, MD; Corey Henderson, MS;  
Fredric Pieracci, MD; Ernest Moore, MD

1:44pm – 1:50pm

**Paper 28**  
**Contrast Blush on CT is a Poor Predictor of Active Bleeding on Pelvic Angiography**  
**Andrew Do, BS;** Benjamin Childs, BS;  
Sarah Gael, MD; Heather Vallier, MD

1:50pm – 1:56pm

**Paper 29**  
**Does Reduction Technique for Pelvic and Acetabular Injuries Affect Trauma-Induced Coagulopathy? A Prospective, Cohort Study**  
**Zackary Byrd, MD;** Elizabeth Davis, MD;  
Prism Schneider, MD PhD; Anabel Acuna, BS; April Vanderslice; Bryan Cotton, MD MPH; Milton Routt, MD;  
Joshua Gary, MD

## CONCURRENT SESSION

1:15pm – 2:45pm

**COMPARTMENT SYNDROME: WHAT YOU NEED TO KNOW TO STAY OUT OF TROUBLE.**

Moderator: Cyril Mauffrey, MD, FACS, FRCS

Faculty: David J. Hak, MD  
Mark Hake, MD  
Alan Johnstone, MD  
Andrew Schmidt, MD**Objectives:**

- To understand the pathophysiology of compartment syndrome
- To review and discuss diagnostic modalities and their accuracies and pitfalls
- To discuss best practices and treatment strategies

The decision to take a patient to the OR is an inexact science. We focus on established research and experience of the speakers to review the topic and current practices.

1:15pm – 2:45pm

**CONTROVERSIES IN PATIENT SAFETY AND ETHICS**

Moderator: Douglas W. Lundy, MD

Faculty: Michael T. Archdeacon, MD;  
John Campbell, MD  
Samir Mehta, MD  
Douglas Roger, MD, JD  
Jeffrey M. Smith, MD  
Wade R. Smith, MD  
Philip Stahel, MD;  
Todd Swenning, MD  
Nirmal Tejwani, MD**Objectives:**

- Better understand the concepts and controversies concerning patient safety and advocacy.
- Better understand the legal ramifications of power of attorney, end of life issues and consent.
- Develop a better understanding of alternative views on the specific topics of concurrent room surgery, resident work hour restrictions, and conflict of interest disclosure as they pertain to your practice.

Regulatory and administrative hurdles raise challenges for surgeons in terms of patient safety and advocacy. This symposium takes an in depth look at the controversial topics related to patient safety.

1:15pm – 2:45pm

**HOW TO USE RING FIXATORS (TSF AND ILIZAROV) FOR TIBIA FRACTURES**

Moderator: Theodore Manson, MD

Faculty: Joseph Hsu, MD  
Stephen Quinnan, MD  
J. Tracy Watson, MD**Objectives:**

- Learn the basics of ring fixator application
- Summarize how to treat tibial plateau and pilon fractures using a ring fixator
- Describe how to use ring fixators to treat tibial bone loss

This course will allow the trauma surgeon to incorporate Ring Fixators (TSF and Ilizarov) into their practice for the treatment of tibial plateau, pilon and shaft fractures with bone loss.



## GENERAL SESSION

1:56pm – 2:01pm	<b>Discussion</b>
2:01pm – 2:07pm	<b>Paper 30</b> <b>Percutaneous Transiliac–Transsacral Fixation of Sacral Insufficiency Fractures Improves Ambulation and Rate of Disposition to Home</b> <b>Joseph Walker, MD; Sean Mitchell, MD; Sean Karr, MD; Jason Lowe; Clifford Jones</b>
2:07pm – 2:13pm	<b>Paper 31</b> <b>Fixation Strategy using Sequential Intraoperative Examination Under Anesthesia for Unstable LC Pelvic Ring Injuries Reliably Predicts Union with Minimal Displacement</b> <b>Frank Avilucea, MD; Michael Archdeacon, MD; Cory Collinge, MD; Marcus Sciadini, MD; H. Claude Sagi, MD; Hassan Mir, MD</b>
2:13pm – 2:19pm	<b>Paper 32</b> <b>Unstable Pelvic Ring Fixation: How Soon Can Patients Safely Bear Weight?</b> <b>Lucas Marchand; Zachary Working, MD; Ajinkya Rane, MD; Abby Howenstein, MD; Iain Elliott, MD; Justin Haller, MD; David Rothberg, MD; Thomas Higgins, MD</b>
2:19pm – 2:24pm	<b>Discussion</b>
2:24pm – 3:16pm	<b>PAPER SESSION IV: UPPER EXTREMITY</b> Moderators: Gregory J. Della Rocca, MD, PhD, FACS David C. Ring, MD, PhD
2:24pm – 2:30pm	<b>Paper 33</b> <b>Comparison of PROMIS to Legacy Patient Reported Outcome Scores in Upper Extremity Trauma</b> <b>Elizabeth Gausden; Danielle Sin, MS; Ashley Levack, MD; Andrew Nellestein, MS; Peter Fabricant, MD; David Wellman, MD; Dean Lorich, MD</b>
2:30pm – 2:36pm	<b>Paper 34</b> <b>Randomized, Placebo–controlled Clinical Trial Evaluating Ketotifen Fumarate in Reduction of Post-traumatic Elbow Joint Contracture</b> <b>Prism Schneider, MD PhD; Nicholas Mohtadi MD, MSc; Tolulope Sajobi; Meng Wang; Neil White; Alexandra Garven, BSc; Kevin Hildebrand, FRCSC, MD</b>

## CONCURRENT SESSION

**1:15pm –2:45pm**  
**COMPLEX ELBOW FRACTURE DISLOCATIONS**

Moderator: William T. Obremsky, MD

Faculty: Lisa K. Cannada, MD

Chad Corrigan, MD

Nilooofar Dehghan, MD

Michael D. McKee, MD

Emil H. Schemitsch, MD

**Objectives:**

- Recognize EBM principles of distal humerus fracture fixation
- Define how to improve fixation of proximal radius and ulna fractures
- Recognize and manage complex elbow dislocations

We will review complex elbow dislocations of the distal humerus, proximal radius and ulna as well as dislocations.

**1:15pm –3:10pm**  
**PEARLS AND PITFALLS IN ORIF OF PROXIMAL HUMERUS FRACTURES**

Moderator: Utku Kandemir, MD

Faculty: Michael J. Gardner, MD

John T. Gorczyca, MD

Michael D. McKee, MD

Milan Sen, MD

**Objectives:**

- Illustrate of nonoperative vs operative treatment
- Review and pitfalls in simple and complex fracture patterns
- Review management and dealing with complications

While ORIF is the most common type of treatment when surgery is indicated in proximal humerus fractures, it is prone to complications associated with the surgical technique.

A case-based panel discussion will be held specifically addressing the indication of nonoperative and operative treatment, pearls and pitfalls of ORIF of simple and complex fracture patterns, intraoperative problems, and postoperative management.

## GENERAL SESSION

2:36pm – 2:42pm

**Paper 35**  
**Radial Nerve Injury and Recovery After Humeral Nonunion Surgery**  
 Paul Tornetta, III, MD; **Justin Koh, MD**; Clifford B. Jones, MD; Joseph Walker, MD; Andrew Sems, MD; Sharul Saxena; Henry Boateng, MD; Kathleen Ringenbach, PhD; Clay Spitler, MD; Hassan Mir, MD; Shaan Patel; Reza Firoozabadi, MD; Kate Bellevue, MD; Daniel Horwitz, MD; Lisa K. Cannada, MD; Michael Bosse, MD; J. Stewart Buck, MD; Jerald Westberg, BA; Andrew Schmidt, MD; Laurence Kempton, MD; Andrew Marcantonio, DO; Peter Krause, MD; Matthew Delarosa, MD; Tayseer Shamaa, MD; Brian Mullis, PhD; Andrew Gudeman; Ross K. Leighton, MD Amro Alhoukail, MD; Saam Morshed, MD PhD; Abigail Cortez, BA; David W. Sanders, MD; Christina Tieszer, BSc, MSc

2:42pm – 2:47pm

**Discussion**

2:47pm – 2:53pm

**Paper 36**  
**Minimally Displaced, Isolated Radial Head Fractures Do Not Require Formal Physical Therapy: Results of a Prospective Randomized Trial**  
**Jack Haglin, BS**; Ariana Lott, BA; Rebekah Belayneh, MD; David Kugelman, BS; Abdullah Qatu, BS; Sanjit Konda, MD; Kenneth Egol, MD

2:53pm – 2:59pm

**Paper 37**  
**The Influence of Shortening on Clinical Outcome in Healed, Displaced, Midshaft Clavicle Fractures After Nonoperative Treatment**  
**Ewan Goudie, MD**; Nicholas Clement, MBBS; Iain Murray, PhD; C. M. Robinson, FRCS

## CONCURRENT SESSION

3:45pm – 5:15pm

**WHAT TO DO WITH THE FRONT:  
 ANTERIOR PELVIC RING MANAGEMENT**

Moderator: John Scolaro, MD  
 Faculty: Jonathan Eastman, MD  
 Reza Firoozabadi, MD  
 Geoffrey Marecek, MD  
 Milton Routt, MD  
 Rahul Vaidya, MD  
 Raymond Wright, MD

**Objectives:**

- Demonstrate how to determine anterior pelvic ring instability
- Define options and rationale for stabilization modalities of the anterior pelvic ring
- Summarize options and rationale for modality of stabilization
- Demonstrate techniques utilized for anterior pelvic ring fixation

The management of pelvic ring instability continues to elicit discussion and debate. Learn how to diagnose and stabilize the anterior pelvic ring from our experienced panel.

3:45pm – 5:15pm

**THE BLASTED DISTAL FEMUR FRACTURE:  
 HOW TO IMPROVE OUTCOMES**

Moderator: Lisa K. Cannada, MD  
 Faculty: Cory Collinge, MD  
 Robert Hymes, MD  
 Kyle Jeray, MD  
 Thomas Jones, MD  
 Erik Kubiak, MD

**Objectives:**

- Identify complications which can occur after Distal Femur Intraarticular Fractures
- Discuss techniques of fixation of severe distal femur fractures
- Summarize how to control the stiffness of the fixation construct

High energy distal femur fractures can present with severe comminution and bone loss. This symposia will discuss traditional and novel fixation techniques for this difficult fracture to minimize complications.

## GENERAL SESSION

2:59pm – 3:05pm **Paper 38**  
**Proximal Humeral Fracture Fixation Using the PH Cage – A Retrospective Study of 125 Patients to a minimum of 6 months Post Treatment**  
**Eric Fulkerson, MD; Paul Paterson, MD**

3:05pm – 3:11pm **Paper 39**  
**Reliability, Validity, Responsiveness, and Minimal Important Change of the Disabilities of the Arm, Shoulder and Hand and Constant-Murley Scores in Patients with a Humeral Shaft Fracture**  
**Kiran Mahabier, MD; Dennis Den Hartog, MD PhD; Nina Theyskens; Michael Verhofstad, MD PhD; Esther Lieshout, MSc; On behalf of HUMMER Investigators**

3:11pm – 3:16pm **Discussion**

3:16pm – 3:46pm **Refreshment Break**  
 Exhibit hall open 3:00pm–6:15pm

3:46pm – 5:30pm **PAPER SESSION V:  
 WRIST, HAND, TIBIA  
 AND PEDIATRIC**  
 Moderator:  
 David J. Hak, MD

3:46pm – 3:52pm **Paper 40**  
**Volar Internal Plate Fixation versus Plaster in Displaced Extra-Articular Distal Radius Fractures: a Randomized Controlled Trial**  
**Marjolein Mulders, MD;**  
 Monique Walenkamp, MD, PhD;  
 J. Carel Goslings, MD, PhD;  
 Niels Schep, MD, PhD

3:52pm – 3:58pm **Paper 41**  
**The Efficacy of Mini-C-Arm Fluoroscopy for the Closed Reduction of Distal Radius Fractures in Adults: A Randomized Controlled Trial**  
**Steven Dailey, MD; Ashley Miller, MD; Rafael Kakazu, MD; John Wyrick, MD; Peter Stern, MD**

3:58pm – 4:04pm **Paper 42**  
**Vehicle Steering Errors and Reaction Time Following Distal Radius Fracture Surgical Fixation**  
**Lyle Jackson, MD; Michael Koerner, MD; Stephanie Tanner; Rebecca Snider; Jennifer McKay, OT; Johnell Brooks, PhD; Kyle J. Jeray, MD**

## CONCURRENT SESSION

3:45pm –5:15pm  
**DEVELOPING AND MAINTAINING A SUCCESSFUL CLINICAL RESEARCH PROGRAM**

Moderator: Heather Vallier, MD  
 Faculty: Mary Breslin, BA  
 Julie Agel, ATC  
 William T. Obrebsky, MD

**Objectives:**

- Develop personnel, infrastructure, and other resources to establish a clinical research program.
- Describe roles, responsibilities, and important attributes of a productive research coordinator.
- Identify opportunities for research collaboration, and demonstrate strategies for participation and funding.

This 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.

3:45pm –5:15pm  
**ORTHOAEDIC TRAUMA CODING**

Moderator: Paul T. Appleton, MD  
 Faculty: J. Scott Broderick, MD  
 William R. Creevy, MD  
 Brett D. Crist, MD  
 M. Bradford Henley, MD

**Objectives:**

- Identify ICD10 updates
- Summarize CPT changes (closed fracture codes)
- Explain RVUs update committee(RUC)–valuation process
- Describe how CPT codes are created.

The seminar will be divided into several sections related to orthopaedic coding in trauma, including case presentations.



## GENERAL SESSION

4:04pm – 4:10pm

**Paper 43**  
**Effectiveness of Postoperative Analgesic Immobilization in Patients with Distal Radius Fracture Treated with Volar Locking Plating: a Prospective, Randomized Clinical Trial**  
**Fernando Andrade-Silva, MD PhD;**  
 Joao Rocha, MD; Adriana Carvalho, BSc;  
 Kodi Kojima; Jorge Silva, MD PhD

4:10pm – 4:15pm

**Paper 44**  
**A Prospective Randomized Controlled Trial Comparing Open Reduction and Internal Fixation, Non-Spanning External Fixation, and Closed Reduction With Percutaneous Fixation for Dorsally Displaced Distal Radius Fractures**  
 Stephane Bergeron, MD MPH; Rudolf Reindl, MD; Edward Harvey, MD MsC;  
 Hans Kreder, MD; Elham Rahme, PhD;  
**Gregory Berry, MD;** Canadian Orthopaedic Trauma Society

4:16pm – 4:21pm

**Discussion**

4:21pm – 4:27pm

**Paper 45**  
**Role of the Fibula in Predicting Tibial Nonunions after Intramedullary Nailing**  
**Robert Wojahn, MD;**  
 Amanda Spraggs-Hughes; Michael J. Gardner, MD; William M. Ricci, MD;  
 Christopher McAndrew, MD, MS

4:27pm – 4:33pm

**Paper 46**  
**Incidence of Rotational Malalignment After Intramedullary Nailing of Tibial Fractures: Efficacy of Routine Post-Operative Computed Tomography**  
 Job Doornberg, MD PhD;  
 Ruurd Jaarsma, MD PhD;  
**Nils Jan Bleeker, MSc**

4:33pm – 4:39pm

**Paper 47**  
**Suprapatellar versus Infrapatellar Approach to IMN of Tibia Fractures: An Objective Measure of Knee Cartilage**  
**Derek Donegan, MD;**  
 Kevin D'Aquilla, BS; Thomas Rose;  
 Annamarie Horan, PhD; Patrick Hesketh, BS;  
 Ravinder Reddy, PhD; Samir Mehta

4:39pm – 4:44pm

**Discussion**

## CONCURRENT SESSION

3:45pm – 5:15pm

**THE SMOOTH HIP FRACTURE ADMISSION – TOP 15 IN BEST EVIDENCE TO AVOID COMPLICATIONS**

Moderator: Pierre Guy, MD  
 Faculty: Stephen Kates, MD  
 Eric Meinberg, MD  
 Daniel Mendelson, MD

**Objectives:**

At the end of this session participants will be able to:

- Explain the true medical reasons to delay a case
- Discuss what implant should be used
- Summarize the best models of care
- Describe Ortho-geriatrics co-management?

This case-supported session will proactively address pre and post-op medical and surgical issues surrounding a hip fracture admission, promoting best practices and efficient models of care.



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## GENERAL SESSION

4:44pm – 4:50pm

**Paper 48**  
**Is Continuous Near Infrared Spectroscopy a Reliable Method to Monitor Development of Acute Compartment Syndrome in Patients with Lower Leg Injuries?**  
**Andrew Schmidt, MD;** Michael Bosse, MD; Robert V. O'Toole, MD; Raymond Wright, MD; Vadim Zipunnikov, PhD; Junrui Di, PhD Candidate; Katherine Frey, MPH; Ellen MacKenzie, PhD; The Major Extremity Trauma Research Consortium

4:50pm – 4:56pm

**Paper 49**  
**Does Early Administration of Antibiotics After Open Tibia Fractures Really Decrease Infection Rates?**  
**Steven Shannon, MD;** Daniel Mascarenhas, BS; Manjari Joshi, MD; Daniel Connelly, BA/BS; Robert V. O'Toole, MD

4:56pm – 5:01pm

**Discussion**

5:01pm – 5:07pm

**Paper 50**  
**Best Trauma Paper at the 2017 POSNA Annual Meeting**  
**What is an "Acceptable Reduction" for Supracondylar Humerus Fractures in Children?**  
**Unni Narayanan FRCSC;** William Wood MD; Tony Tan; James Turner; Anshika Gangwar MD, Martin Gargan, MD



5:07pm – 5:13pm

**Paper 51**  
**Single versus Both Bone Fixation: A Retrospective Review of 10 Years of Pediatric Forearm Fractures**  
**Ashley Miller, MD;** Tyler Keller; Kevin Little, MD

## GENERAL SESSION

5:13pm – 5:19pm

**Paper 52**  
**The Utility of Intra-Operative Arthrogram in the Management of Pediatric Lateral Condyle Fractures of the Humerus**  
**John Vorhies, MD;** Shawn Funk, MD; Marilyn Elliott, BS; Anthony Riccio, MD; Brandon Ramo, MD

5:19pm – 5:25pm

**Paper 53**  
**Is Less More? Assessing the Value of Early Clinical and Radiographic Follow-Up for Operative Supracondylar Humerus Fractures**  
**Rachel Thompson, MD;** Elizabeth Hubbard, MD; Marilyn Elliott, BS; Anthony Riccio, MD; Daniel Sucato, MD, MS

5:25pm – 5:30pm

**Discussion**

4:30pm – 6:00pm

**SPEED MENTORING**

Lisa K. Cannada, MD  
 Michael T. Archdeacon, MD

This session is geared towards young practitioners, residents and fellows that would benefit from the knowledge of OTA faculty that have been practicing for a number of years.

- 15 minute Panel to discuss work-life balance
- Followed by the 6 round table discussion topics:
  1. Contract Negotiations
  2. Building a Clinical Practice
  3. Research
  4. Organization / Time
  5. How to Allocate your Time-Clinical
  6. Being a Boss

Registration for this event is free.

5:30pm – 6:30pm

**MILITARY RECEPTION**

5:35pm – 6:20pm

**SUDS N' SCIENCE**  
**GUIDED POSTER AND VIDEO TOURS**  
**Upper Extremity**  
 Guide: Michael D. McKee, MD

**General Interest**  
 Guide: Michael J. Gardner, MD

**Video Tour**  
 Guide: TBD

## GENERAL SESSION

7:30am – 9:00am

### **SYMPOSIUM III: Managing Infection in Orthopaedic Trauma: Reaching Consensus and the Role of Emerging Technologies**

**Moderators:** Robert V. O'Toole, MD  
Emil H. Schemitsch MD

**Objective:**

- Generate consensus around standard definitions of the infected fracture
- Develop agreement regarding best evidence for management of infected fractures
- Assess best evidence for the use of adjuncts to eradicate infection after fracture fixation

**Description**

A primary goal of the symposium will be to achieve consensus opinions on many current issues and controversies regarding the treatment of infected fractures. There are a host of technologies on the horizon or nearing clinical application that show great promise for the future of diagnosing and treating orthopaedic trauma infections.

**Presentations:**

**Introduction**

Emil H. Schemitsch, MD

**The Infected Fracture: Can We Agree on Standard Definitions?**

Cyril Mauffrey, MD, FACS, FRCS

**Diagnosing Infection in Orthopaedic Trauma: We Have a Problem!**

Robert V. O'Toole, MD

**Infection Diagnosis, Treatment, and Prevention Technologies on the Horizon**

Mark E. Shirliff, PhD

**Hardware Considerations: When and How to Remove or Revise the Fixation!**

Paul Tornetta III, MD

**Acute and Chronic Infection: Is There a Gold Standard for Management of the Wound and Bone Defect?**

Peter V. Giannoudis, MD, FACS, FRCS

**Question, Answer and Case Discussion**

## CONCURRENT SESSION

6:30am –7:30am

### **MANAGEMENT OF DISTAL TIBIA FRACTURES: PEARLS AND PITFALLS**

Moderator: Derek Donegan, MD

Faculty: Frank Liporace, MD  
Stephen Quinnan, MD  
John Scolaro, MD  
Heather Vallier, MD

**Objectives:**

- Recognize common challenges of distal tibia fractures
- Learn to evaluate and select the most appropriate fixation strategy
- Acquire surgical pearls for successful reduction and fixation

Join our panel of experts as they address the current controversies regarding fixation of distal tibia fractures. Learn the surgical techniques used to maximize successful management of these injuries.

6:30am –7:30am

### **STAY OUT OF TROUBLES IN OPERATIVE PEDIATRIC FRACTURES**

Moderator: Stephen Heinrich, MD

Faculty: Amir Abdelgawad, MD  
Ahmed Thabet Hagag, MD  
Enes Kanlic, MD

**Objectives:**

- Summarize how to stay out of troubles in pediatric elbow fractures
- Describe tips and tricks in management pediatric femur fractures
- Compare operative vs nonoperative treatment for pediatric forearm fractures

**Description**

Our goal is to discuss the indications for operative treatment of pediatric fractures. We will present tips and pitfalls in operative management of pediatric fractures including elbow, femur and forearm.

6:30am –7:30am

### **CHALLENGES IN INTERTROCHANTERIC HIP FRACTURES**

Moderator: Theodore Manson, MD

Faculty: Eben Carroll, MD  
Cyril Mauffrey, MD, FACS, FRCS

**Objectives:**

- Describe the latest controversies in implant selection for intertrochanteric hip fracture management
- Summarize techniques for improving the reduction of intertrochanteric and pertrochanteric fractures.
- Recommend salvage techniques should initial fracture fixation fail

This course will address implant selection and reduction techniques for both routine and challenging intertrochanteric and pertrochanteric fractures. In addition, salvage options should fracture fixation fail will be addressed.

## GENERAL SESSION

9:00am – 10:38am

**PAPER SESSION IV:  
POLYTRAUMA AND POST  
TRAUMATIC RECONSTRUCTION**

Moderator:

Michael D. McKee, MD

9:00am – 9:06am

**Paper 54**  
**Incidence of Complications and Mortality in Polytrauma Patients Managed Either with ETC or DCO: Lessons Learned**  
**Siddharth Shah, MBBS;**  
Michael McArdle,  
Peter V. Giannoudis, MD, FACS, FRCS

9:06am – 9:12am

**Paper 55**  
**Extremity Trauma Results in Severe Coagulopathy and Impaired Fibrinolysis Based on Serial Rapid Thrombelastography**  
**Prism Schneider, MD PhD;**  
Ioannis Liras; Ellie Rahbar, PhD;  
Mark Prasarn, MD; Joshua Gary, MD;  
Bryan Cotton, MD, MPh

9:12am – 9:18am

**Paper 56**  
**The Early Immunologic Response in Multiply Injured Patients with Orthopaedic Injuries is Associated with Organ Dysfunction**  
**Greg Gaski, MD;** Cameron Metzger, BS;  
Robert Wessel, MD; Jeremy Adler, BS;  
Tyler McCarroll, BS; Andrew Cutshall, BS;  
Yoram Vodovotz, PhD; Timothy Billiar, MD;  
Todd O. McKinley, MD

9:18am – 9:23am

**Discussion**

9:23am – 9:29am

**Paper 57**  
**Significant Reduction of Pulmonary Embolism in Orthopaedic Trauma Patients**  
Adam Starr, MD; **Zachary Shirley, MD;**  
Michael Cripps, MD; Patrick Sutphin,  
MD PhD; Gene Hu, BS; Drew Sanders, MD;  
Brigham Au, MD; Ashoke Sathy, MD;  
Aaron Gebrelul, MD;  
Alexander Eastman, MD

9:29am – 9:35am

**Paper 58**  
**Limitations in Upper Extremity Weight-bearing Increase Length of Stay in Polytraumatized Patients**  
**Ida Leah Gitajn, MD;** Nicole Krum, OT;  
Nathan O'Hara; Gerard P. Slobogean, MD;  
Robert V. O'Toole, MD;  
Raymond Pensey, MD

## CONCURRENT SESSION

6:30am –7:30am

**SOFT TISSUE MANAGEMENT OF THE MANGLED UPPER AND LOWER EXTREMITY**

Moderator: Raymond Pensey, MD

Faculty: John Ingari, MD

Asif Ilyas, MD

Daniel A. Osei, MD

**Objectives:**

- Outline Temporizing and Definitive Skeletal Fixation
- Understand Methods and Timing for Temporizing and Definitive Vascular Reconstruction
- Outline Techniques for Soft Tissue Coverage and Management

The mangled upper extremity is a daunting surgical challenge. A solid foundation in the methods for acute and definitive fixation, revascularization, and soft tissue coverage are integral to functional recovery.

6:30am –7:30am

**PELVIC RING DISRUPTION CASE CONTROVERSIES: DIAGNOSIS AND TREATMENT**

Moderator: Jason Nascone, MD

Faculty: Pierre Guy, MD

Robert V. O'Toole, MD

H. Claude Sagi, MD

Adam Starr, MD

**Objectives:**

- Improve understanding of current diagnostic techniques to assess pelvic stability and level of injury
- Increase appreciation of management controversies of pelvic ring disruptions
- Increase understanding of current literature with regards to pelvic ring disruptions

Case-based discussion emphasizing diagnostic and management controversies of pelvic ring disruptions. Experts in management of these injuries will discuss diagnosis and management in an interactive case-based panel discussion.

## GENERAL SESSION

- 9:35am – 9:41am **Paper 59**  
**Extra-articular Malunions and Nonunions of the Scapula: A Comparison of Functional Outcome Before and After Reconstruction**  
**Joseph Schirmers, MD;** Jeff Gilbertson; Lisa Schroder; Joscelyn Tatro; Peter Cole, MD
- 9:41am – 9:46am **Discussion**
- 9:46am – 9:52am **Paper 60**  
**Timing of Definitive Fixation With Respect to Flap Coverage in Open Tibia Fractures**  
**Paul Tornetta, III, MD; Casey Kuripla, MD;** Justin Koh, MD; Andrew Sems, MD; Tayseer Shamaa; Hassan Mir, MD; Benjamin Streufert; Clay Spitler, MD; Heather Vallier, MD; Debi Sorg; Brian Mullis, MD PhD; Brian McGowan; John Weinlein, MD; Lisa K. Cannada, MD; Jonathan Charlu; Jerald Westberg, BA; Emily Wagstrom; Saam Morshed, MD PhD; Abigail Cortez, BA; Peter Krause, MD; Andrew Marcantonio, DO; Gillian Soles, MD; Jason Lipof, MD
- 9:52am – 9:58am **Paper 61**  
**Rates of surgical site infection after open fractures: findings of the UK Wound management of Open Lower Limb Fractures (WOLLF) trial.**  
**James Masters, MB, BS;** Julie Bruce, PhD; Nick Parsons; Matthew Costa, PhD
- 9:58am – 10:04am **Paper 62**  
**Impact of Management on Reoperation Rates in Gustillo-Anderson Grade III Open Fractures of the Lower Limb**  
**Pieter Vermaak,** Luke Parsons; Fergus Liggins; Miguel Fernandez, MBBS; Joseph Hardwicke, Jayne Ward, MBBS
- 10:04am – 10:09am **Discussion**
- 10:09am – 10:15am **Paper 63**  
**NURD 2.0: Prediction of Tibial Non-Union at Any Time within 3 Months of Injury**  
**Robert V. O'Toole, MD;** Josef Jolissaint, BS; Kevin O'Halloran, MD; Anthony Carlini, MS; Keir Ross, BS; Justin Fowler, MD; Renan Castillo, PhD

## CONCURRENT SESSION

**9:00am – 10:30am**  
**SHOULDER GIRDLE INJURIES: OPTIMIZING DECISION MAKING AND SURGICAL MANAGEMENT IN 2017**

Moderator: Emil H. Schemitsch, MD

Faculty: Peter Cole, MD

Niloofer Dehghan, MD

Clifford B. Jones, MD

Frank Liporace, MD

Aaron Nauth, MD

**Objectives:**

- Conclude which clavicle fractures and shoulder girdle injuries need surgery
- Summarize how to optimize fixation of shoulder girdle injuries when surgery is indicated
- Explain how to manage complications following shoulder girdle surgery

A primary goal of the symposium will be to achieve consensus opinions on many current issues and controversies regarding the treatment of shoulder girdle injuries.

**9:00am – 10:30am**  
**FRAGILITY FRACTURES AND BONE HEALTH: CURRENT STATE OF THE ART**

Moderator: Michael J. Gardner, MD

Faculty: Kenneth A. Egol, MD

Kyle J. Jeray, MD

Clifford B. Jones, MD

Joseph Lane, MD

- Describe the size and scope of fragility fracture epidemic, and the impact of treatment.
- Identify methods for managing current fragility fractures and preventing future fragility fractures.
- Create an appreciation of successful strategies for establishing and running their own fragility fracture services.

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.



## GENERAL SESSION

10:15am – 10:21am **Paper 64**  
**Delay in Flap Coverage For Type IIIB/C Open Tibia Fractures Increases Complications: A Cohort Study from the Trauma Quality Improvement Program**  
**Daniel Pincus, MD;** James Byrne, MD; Avery Nathens; Anna Miller, MD; Philip Wolinsky, MD; David Wasserstein, MD; Bheeshma Ravi; Steven Borland; Richard Jenkinson, MD

10:21am – 10:27am **Paper 65**  
**Treatment of Bone Defects in Open Tibia Fractures Treated with an IMN**  
**Raymond Wright, MD;** Paul Tornetta, III, MD; Saam Morshed, MD PhD; Robert V. O'Toole, MD; Joseph Hsu, MD; Ellen MacKenzie, PhD; Katherine Frey, MPH; Michael Bosse, MD; Jason Luly, MS

10:27am – 10:33am **Paper 66**  
**Predictors of Complications in Severe Open Fractures**  
**Ida Leah Gitajn;** Sheila Sprague, PhD; Brad Petrisor, MD; Kyle Jeray, MD; Nathan O'Hara; Jason Nascone, MD; Mohit Bhandari, MD; Gerard P. Slobogean, MD

10:33am – 10:38am **Discussion**

10:38am – 11:08am **Refreshment Break**

11:08am – 12:40pm **PAPER SESSION VII: GENERAL INTEREST**  
Moderators: Michael J. Gardner, MD  
Stephen A. Kottmeier, MD

11:08am – 11:14am **Paper 67**  
**Wound Infections Following Implant Removal Below the Knee: the Effect of Antibiotic Prophylaxis; Results of the WIFI-trial, a Multi-center Randomized Controlled Trial.**  
**Siem Dingemans, MD;** Manouk Backes, MD; J. Carel Goslings, MD PhD; Tim Schepers, MD, PhD

## CONCURRENT SESSION

9:00am – 10:30pm **DISPLACED FEMORAL NECK FRACTURES – WHAT IS THE EVIDENCE?**

Moderator: John T. Gorczyca, MD  
Faculty: Catherine Humphrey, MD  
Robert Dunbar, MD  
Kyle Judd, MD  
Gillian Soles, MD  
David Stephen, MD

**Objectives:**

- Summarize how to evaluate the femoral neck fracture patient for lifestyle and expectations
- Explain when best to use each of the various treatment options
- Outline some tips and tricks for treating displaced femoral neck fractures

This symposium will critically review the science available regarding displaced femoral neck fractures in patients of all ages and mechanisms.

9:00am – 10:30am **ANTERIOR APPROACHES TO THE ACETABULUM: CAN WE ALL JUST GET ALONG?**

Moderator: Jason Nascone, MD  
Faculty: Pierre Guy, MD  
Keith Mayo, MD  
Marcus F. Sciadini, MD

**Objectives:**

- Explain the evolution of the ilioinguinal and anterior intrapelvic approaches
- Summarize Ways to Increase Visualization and Access with Both Iliioinguinal and Anterior Intrapelvic Approach

Much debate exists regarding optimal approach to anterior acetabular fracture patterns. The evolution of the ilioinguinal and anterior intrapelvic approach brings these two exposures much closer together yet differences remain.

10:40am – 12:10pm **NEXT LEVEL: 8 PRACTICES FOR SURGEON WELLNESS**

Moderator: Jeffrey M. Smith, MD  
Faculty: James Ficke, MD  
Wade R. Smith, MD  
Philip Stahel, MD  
Todd Swenning, MD

**Objectives:**

- Summarize the 8 PRACTICES of Highly Successful Surgeons and understand why knowledge of these are your empowerment to create a sustainable and fulfilling surgical practice.
- Demonstrate specific strategies to deal with common challenges in a surgical practice.
- Discuss interactively the process of goal setting for fairly complex problems, so that attendees will have proactive plans for implementing their performance improvement plan.

This is an advanced format progressing some of the critical skills for creating a highly successful lifestyle-friendly practice.

## GENERAL SESSION

- 11:14am – 11:20am **Paper 68**  
**Screening For and Treating Intranasal Staphylococcus Carriage Correlates with Reduced Surgical Site infections Complicating Operative Fracture Repair**  
**Abigail Cortez, BA**; James Burns, MS; Moses Lee, BA; Mariya Samoylova, BS; Eleni Berhaneselase, BA; Pouriya Ghayoumi, MD; Alexander Theologis, MD; Saam Morshed, MD PhD
- 11:20am – 11:26am **Paper 69**  
**Decreased Time to Antibiotic Prophylaxis for Open Fractures at a Level One Trauma Center**  
**Joseph Johnson, MD**; Avi Goodman, MD; Adam Haag, MD; Roman Hayda, MD
- 11:26am – 11:32am **Paper 70**  
**Diagnostic Accuracy of Various Modalities Relative to Open Bone Biopsy for Detection of Long Bone Posttraumatic Osteomyelitis**  
Vivek Chadayammuri, BS; Herbert Benoit; Jiandong Hao; Juan Quispe; Ji-Wan Kim, MD; Heather Young; Mark Hake, MD;  
**Cyril Mauffrey, MD , FACS, FRCS**
- 11:32am – 11:37am **Discussion**
- 11:37am – 11:43am **Paper 71**  
**Significant Reduction of Intraoperative Material Costs Through Surgeon Intervention**  
**Laurence Kempton, MD**;  
Todd O. McKinley, MD; Greg Gaski, MD; Anthony Sorkin, MD; Walter Virkus, MD
- 11:43am – 11:49am **Paper 72**  
**Operative Treatment Of Tibial Plateau Fractures: Does A Sub-meniscal Arthrotomy Improve Long Term Patient Outcome? A Prospective Surgeon Randomized Clinical Trial**  
**Richard Buckley, MD FRCPC**;  
Paul Duffy; Robert Korley, MDCM; Emilia Moller, MD; C. Ryan Martin, MD; Rafael Gallino, MD;  
Prism Schneider, MD, PhD
- 11:49am – 11:54am **Discussion**

## CONCURRENT SESSION

**10:40am – 12:10pm**  
**LIMB RECONSTRUCTION AND AMPUTATION IN CRISIS AND CONFLICT RELATED INJURIES**

Moderator: Daniel Stinner, MD  
Faculty: Michael Beltran, MD  
Jowan Penn-Barwell, MBBS  
Joseph Hsu, MD

**Objectives:**

- Describe the orthopaedic surgeon's role in resuscitation and basic principles of the physiology following penetrating trauma.
- Apply new tips and tricks for soft tissue management to minimize infection following severe extremity trauma.
- Summarize the principles in decision making when pursuing either limb salvage or amputation following crisis or conflict injuries.

High-energy injuries continue to be the primary source of morbidity in survivors of crisis and conflict. We will demonstrate techniques to limit infection and reconstruct bone defects when possible.

**10:40am – 12:10pm**  
**THE TREATMENT OF PERI-PROSTHETIC FRACTURES IN 2017: CAN WE REACH A CONSENSUS?**

Moderator: Emil H. Schemitsch, MD  
Faculty: George Haidukewych, MD  
Michael D. McKee, MD  
Aaron Nauth, MD  
William M. Ricci, MD  
Andrew Schmidt, MD

**Objectives:**

- Describe the advantages and disadvantages of various fixation strategies for peri-prosthetic fractures of the lower extremity.
- Explain the role of revision arthroplasty in managing peri-prosthetic fractures about a THA and TKA.
- Define how to manage peri-prosthetic fractures of the upper extremity.

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.

**10:40am – 12:10pm**  
**FEMORAL NECK FRACTURES IN THE YOUNG ADULT: ARE WE GETTING BETTER?**

Moderator: Cory Collinge, MD  
Faculty: Hassan Mir, MD  
Christopher McAndrew, MD  
John Scolaro, MD

**Objectives:**

- Explain the pathoanatomy and mechanics of this injury
- Describe how to create a treatment plan that may maximize chances for clinical success
- Discuss complications of this injury and how to deal with them

The mechanics of the vertical neck fracture create treatment problems and unique complications. Solutions are just now evolving that appear to be improving clinical results.

## GENERAL SESSION

11:54am – 12:00pm	<p><b>Paper 73</b>  <b>Sleep Disturbance in Orthopaedic Trauma Patients</b>  <b>Matthew Swann, MD;</b> Miles Batty, BS; Gene Hu, BS; Thomas Mitchell, BS; Hayden Box, MD; Adam Starr, MD</p>
12:00pm – 12:06pm	<p><b>Paper 74</b>  <b>Inpatient Compliance with Venous Thromboembolism Prophylaxis in Orthopaedic Trauma: A Pragmatic Randomized Controlled Trial of Aspirin vs. Low Molecular Weight Heparin</b>  <b>Bryce Haac, MD;</b> Richard Van Besien, BA; Nathan O'Hara; Gerard Slobogean, MD; Deborah Stein, MD MPH; Robert V. O'Toole, MD; Theodore Manson, MD</p>
12:06pm – 12:12pm	<p><b>Paper 75</b>  <b>Tranexamic Acid Use in High Energy Pelvic, Acetabular, and Femoral Fractures</b>  <b>Clay Spitler, MD;</b> Elliot Row, MD; Warren Gardner, MD; Michael Hankins; Rachel Swafford, MPH; Peter Nowotarski, MD; Dirk Kiner, MD</p>
12:12pm – 12:17pm	<p><b>Discussion</b></p>
12:17pm – 12:23pm	<p><b>Paper 76</b>  <b>How to Best Measure Changes in Clinical Status over Time: An Analysis of the Performance of Generic and Musculoskeletal Specific Functional Outcome Measures in Single Injury and Multiple Injury Patients</b>  <b>Graham Sleat,</b> Kelly Lefavre, MD; Pierre Guy, MD; Henry Broekhuysse, MD; Abdullah Mamun; Peter O'Brien, MD</p>
12:23pm – 12:29pm	<p><b>Paper 77</b>  <b>Early Effects of the Trauma Collaborative Care Intervention: Results from a Prospective Multicenter Cluster Clinical Trial</b>  <b>Stephen Wegener, PhD;</b> Kristin Archer, P; Michael Bosse, MD; Eben Carroll, MD; Joshua Gary, MD; Clifford Jones, MD; Anna Newcomb, PhD; Andrew Pollak; Debra Sietsema, PhD; Heather Vallier, MD; Renan Castillo, PhD; Susan Collins, MSc; Katherine Frey, MPH; Yanjie Huang, MS; Daniel Scharfstein, PhD; Ellen MacKenzie, PhD; METRC Major Extremity Trauma Research Consortium</p>

## CONCURRENT SESSION

**1:40pm –3:10pm**  
**COMPLEX KNEE DISLOCATIONS**  
Moderator: William T. Obremskey, MD  
Faculty: John Adams, MD  
Frank Avilucea, MD  
William Harvin, MD

**Objectives:**

- Define emergent treatment and associated injuries
- Review acute, staged, and delayed treatment options for knee dislocation
- Summarize complications and long-term results of knee dislocations

Participants will understand emergent management as well as options of acute staged and delayed treatment of this complex injury. We will also review complications and expected long-term outcomes.

**1:40pm –3:10pm**  
**CONTROVERSIES IN ANKLE FRACTURES**  
Moderator: John T. Gorczyca, MD

Faculty: John Ketz, MD  
Raymond Wright, MD  
Gillian Soles, MD  
Kevin Pugh, MD

- To review basic principles of ankle fracture fixation
- To analyze the evidence on emerging controversies in ankle fractures
- To summarize technical tips for difficult ankle problems

This symposium will concentrate on reviewing controversies in ankle fracture surgery and will provide an analysis of the evidence that will guide the surgeon in treating ankle fractures.

**1:40pm –3:10pm**  
**THE JOINT IS A MESS, NOW WHAT? HOW TO RESTORE FUNCTION WHEN INTRA-ARTICULAR FRACTURE SURGERY FAILS**

Moderator: Emil H. Schemitsch, MD  
Faculty: Michael D. McKee, MD  
Chad Myeroff, MD  
Aaron Nauth, MD  
David W. Sanders, MD

**Objectives:**

- When and how to restore function when fracture surgery fails
- The role of arthroplasty and fusion in managing post-traumatic arthritis
- How to manage failed fracture surgery of the upper extremity and lower extremity

A primary goal of the symposium will be to achieve consensus opinions on many current issues and controversies regarding the treatment of post-traumatic arthritis.

## GENERAL SESSION

12:29pm – 12:35pm **Paper 78**  
**Predicting Completion of a Follow-up in Long Term Prospective Orthopedic Trauma Research**  
**Graham Sleat**; Kelly Lefaivre, MD; Pierre Guy, MD; Henry Broekhuysse, MD; Abdullah Mamun; Peter O'Brien, MD

12:35pm – 12:40pm **Discussion**

12:40pm – 1:40pm **LUNCH**  
 Exhibit hall closes at 1:45pm

12:25pm – 1:10pm **LUNCHTIME GUIDED POSTER AND VIDEO TOURS Hip/Femur**  
 Guide: Brett D. Crist, MD

**International**  
 Guide:  
 Peter V. Giannoudis, MD, FACS, FRCS

**Video Tour**  
 Guide: TBD

1:40pm – 3:59pm **PAPER SESSION VIII: HIP, FEMUR AND GERIATRIC**  
 Moderators:  
 Gilbert R. Ortega, MD  
 Gerard P. Slobogean, MD

1:40pm – 1:46pm **Paper 79**  
**A Randomised Controlled Trial Comparing the Thompsons versus the Exeter® Polished Taper Stem and Unitrax® Head in the Treatment of Displaced Intracapsular Fractures of the Hip: The WHITE 3: HEMI Trial**  
**Alex Sims**; Nick Parsons; Juul Achten; Xavier Griffin; Matthew Costa, PhD; Mike Reed

1:46pm – 1:52pm **Paper 80**  
**THR Versus Hemiarthroplasty for Displaced Intracapsular Fractures: Predicting Outcomes and Selecting Patients**  
**Julie Craig, MB BS**; Sinead McDonald; R. John Barr, MB, BS

1:52pm – 1:58pm **Paper 81**  
**Continuous Femoral Nerve Catheters Decrease Opioid Related Side Effects and Increase Home Disposition Rates among Geriatric Hip Fracture Patients**  
**Diren Arsoy, MD**; Michael J. Gardner, MD; Stuart Goodman, MD PhD; William Maloney, MD; James Huddleston, MD; Derek Amanatullah, MD PhD; Julius A. Bishop, MD

## GENERAL SESSION

1:58pm – 2:03pm **Discussion**

2:03pm – 2:09pm **Paper 82**  
**A Novel Tool to Predict Inpatient Triage and Hospital Quality Measures in the Geriatric Trauma Population at Time of Admission**  
**Sanjit Konda, MD**; Ariana Lott, BA; Hesham Saleh, BS; Thomas Lyon, MD; Kenneth A. Egol, MD

2:09pm – 2:15pm **Paper 83**  
**Any Femoral Neck Shortening Post Fracture Fixation Negatively Impacts Functional Outcomes**  
**Gerard P. Slobogean, MD**; Gregory J. Della Rocca, MD, PhD, FACS; Susan Liew; Robert Haverlag; Sheila Sprague, PhD; Nathan O'Hara; Marc Swiontkowski, MD; Mohit Bhandari, MD; FAITH Investigators

2:15pm – 2:21pm **Paper 84**  
**Gait Analysis Following Intertrochanteric Hip Fractures: Does Shortening Result in Gait Impairment?**  
**Elizabeth Gausden, MD**; Ashley Levack, MD; Lauren Wessel, MD; Gele Moloney, MD; Danielle Sin, MS; Joseph Lane, MD; Dean Lorich, MD

2:21pm – 2:26pm **Discussion**

2:26pm – 2:32pm **Paper 85**  
**Hip Fracture Patients on Non-Warfarin Anticoagulants: Is Surgical Delay Warranted?**  
**Ariana Lott, BA**; Jack Haglin, BS; Rebekah Belayneh; Sanjit Konda, MD; Philipp Leucht, MD; Kenneth A. Egol, MD

2:32pm – 2:38pm **Paper 86**  
**Prognostic Factors for Predicting Revision Surgery after Operative Management of Hip Fractures**  
 Sheila Sprague, PhD;  
**Emil H. Schemitsch, MD**; Gregory J. Della Rocca, MD, PhD, FACS; Kyle J. Jeray, MD; Susan Liew; Gerard P. Slobogean, MD; Diane Heels-Ansdell, BSc; Marc Swiontkowski, MD; Mohit Bhandari, MD; FAITH Investigators

## GENERAL SESSION

2:38pm – 2:44pm

**Paper 87**  
**Short versus Long InterTAN Fixation for Geriatric Intertrochanteric Hip Fractures: A Prospective, Multi-Centre Head-to-Head Comparison.**  
**Michael Sellan, MD;** Christina Tieszer, BSc; Diane Bryant; Steven Papp, MD; Abdel-Rahman Lawendy; Timothy Carey, MD; J. Andrew Trenholm; Mark MacLeod; Darius Viskontas; Chad Coles; Wade Gofton; Trevor Stone; Allan Liew; Ross Leighton, MD; David W. Sanders, MD

2:44pm – 2:49pm

**Discussion**

2:49pm – 2:55pm

**Paper 88**  
**Fixation Failure and Time to Reoperation After Internal Fixation of Young Femoral Neck Fractures: A Population-Based Study**  
**David Stockton, MD;** Lyndsay O'Hara, PhD; Nathan O'Hara; Kelly Lefavre, MD; Peter O'Brien, MD; Gerard P. Slobogean, MD

2:55pm – 3:01pm

**Paper 89**  
**Open Reduction is Associated with Greater Propensity-Adjusted Odds of Reoperation at 6 Months and 2 Years after Internal Fixation of Femoral Neck Fractures in Adults 18-65 Years**  
**Joseph Patterson, MD;** Keisuke Ishii, MD; Paul Tornetta, III, MD; Darin Friess, MD; Clifford Jones, MD; Ross K. Leighton, MD; Ari Levine, MD; Brian Mullis, MD; Raymond Wright, MD; Robert Ostrum, MD; Anas Saleh, MD; Andrew Schmidt, MD; David C. Teague, MD; Antonios Tsismenakis, MD; J. Spence Reid, MD; Theodore Mclau III, MD; Saam Morshed, MD, PhD

3:01pm – 3:07pm

**Paper 90**  
**Femoral Neck Stress Fractures: Clinical Course and MRI Risk Factors for Progression**  
**Clarence Steele, MD;** Grant Cochran, MD; Bradley Deafenbaugh, MD; Chris Renninger, MD; Kevin Kuhn, MD

3:07pm – 3:12pm

**Discussion**

3:12pm – 3:18pm

**Paper 91**  
**Treatment of Femoral Neck Fractures in Patients 45 to 64 Years of Age**  
**Joseph Johnson, MD;** Justin Kleiner, BS; Avi Goodman, MD; Joseph Gil, MD; Alan Daniels; Roman Hayda, MD

## GENERAL SESSION

3:18pm – 3:24pm

**Paper 92**  
**Is Distal Locking Necessary In Long Cephalomedullary Nailing of Intertrochanteric Fractures?**  
**Hamid Mostafavi, MD;** Arianna Caruso, BS; Margaret Cooke, MD; Andrew Lee, MD MS; Nicholas Teri, BS; Paul Tornetta, III, MD

3:24pm – 3:30pm

**Paper 93**  
**Early Comparative Outcomes of of Continuous Carbon Fiber Reinforced Polymer Plate in Fixation of Distal Femur Fractures**  
**Adam Lee, MD;** Phillip Mitchell, MD; Bruce Ziran, MD; A Jahangir, MD

3:30pm – 3:36pm

**Discussion**

3:36pm – 3:42pm

**Paper 94**  
**New versus Old. A Prospective, Randomized Controlled Trial Comparing the 95 Degree Angled Blade Plate with the Locking Condylar Plate for Distal Femur Fractures**  
**Brendan Patterson, MD MBA;** Mary Breslin, BA; Leanne Wadenpfehl, BA; Heather Vallier, MD

3:42pm – 3:48pm

**Paper 95**  
**A Prospective Randomized Control Trial comparing Immediate Weight Bearing as Tolerated versus Touch Down Weight Bearing in Extraarticular Supracondylar Distal Femur Fractures**  
**Daniel Bravin, MD;** David Hubbard, MD; Lindsey Bravin, MD; John C. France, MD; Michelle Bramer, MD

3:48pm – 3:54pm

**Paper 96**  
**Radiographic Healing of Far Cortical Locking Constructs in Distal Femur Fractures: A Comparative Study with Standard Locking Plates**  
**Yanin Plumarom, MD;** Michael Willey, MD; Yubo Gao, PhD; Brandon Wilkinson, MD; J. Lawrence Marsh, MD; Matthew Karam, MD

3:54pm – 3:59pm

**Discussion**

4:00pm

**Meeting Adjourns**