



# OTA 36<sup>TH</sup> ANNUAL MEETING

Wednesday-Saturday  
September 30 – October 3, 2020

## PRELIMINARY PROGRAM

*Program Committee*

Stephen A. Kottmeier, MD *Program Chair*  
Gerard P. Slobogean, MD *Program Co-Chair*  
Andrew M. Choo, MD  
Brett D. Crist, MD  
Gregory J. Della Rocca, MD, PhD  
David J. Hak, MD  
Edward J. Harvey, MD  
Nirmal C. Tejwani, MD  
Harmeeth Uppal, MD

CME credits will be awarded for your participation at each activity except the Resident Course.

Details & Registration at  
[ota.org](http://ota.org)

Music City Center  
Nashville, Tennessee

#sneakpeekNashville

HOUSING  
NOW  
OPEN



## TARGET AUDIENCE

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

## MEETING HIGHLIGHTS

- 27 Breakout sessions including a variety of topics such as pelvic fractures, compartment syndrome, periprosthetic fractures, avoiding burnout, managing lawsuits, dealing with bone loss, open fractures, and many others.
- 74 high quality paper presentations, including session of Highlight Papers reflecting practice-changing research and over 180 posters
- 4 main symposia focusing on pelvic fractures, clinical practice guidelines, augmentation of fracture repair, and revision surgery
- Industry Symposia showcasing products, demonstrating techniques and/or presenting research offered at three convenient times.

Visit [ota.org](http://ota.org) for more details on papers, symposia and breakout sessions.

## LEARNING OBJECTIVES

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

- ✓ review the surgical and nonsurgical indications for the included upper extremity fractures
- ✓ understand that there is still a roll for nonoperative treatment of fractures and learn when to abandon nonsurgical treatment plans
- ✓ understand the outcomes with nonsurgical and surgical management

## BORDER LECTURER

**Stephen K. Benirschke, MD**  
Professor, Jerome H. Debs II Endowed Chair for Orthopaedic Traumatology, University of Washington Harborview Medical Center, Seattle, WA



## PRESIDENTS MESSAGE

**Michael D. McKee, MD**  
Professor and Chairman, Department of Orthopaedic Surgery University of Arizona College of Medicine– Phoenix Banner – University Medical Center Phoenix



## GUEST NATION



### ON DEMAND GOLD REGISTRATION (Annual Meeting Registration and Annual Meeting On Demand)

Early Bird Registration  
Until August 31. 

	On/Before 8/31/20	After 8/31/20
OTA Member (Incl. Guest Nation Attendees)	\$ 550	\$ 650
Non-member (Incl. MD, DO, MBBS, etc.)	\$ 1100	\$ 1200
Non-member Medical Resident, Fellow, Student	\$ 750	\$ 850
Non-member Health Care Personnel (incl. NP, PA, AH, PhD, etc.)	\$ 750	\$ 850
Additional Charge for USB	\$ 100	\$ 100

### ANNUAL MEETING (ONLY) REGISTRATION

	On/Before 8/31/20	After 8/31/20
OTA Member (Incl. Guest Nation Attendees)	\$ 250	\$ 350
Non-member (Incl. MD, DO, MBBS, etc.)	\$ 800	\$ 900
Non-member Medical Resident, Fellow, Student	\$ 450	\$ 550
Non-member Health Care Personnel (incl. NP, PA, AH, PhD, etc.)	\$ 450	\$ 550

# 2019 RESEARCH & EDUCATION DONORS

The Orthopaedic Trauma Association gratefully acknowledges 2019 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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## VENUE

The Orthopaedic Trauma Association's 36th Annual Meeting, all pre-meeting courses and the Resident Comprehensive Fracture Course will be held at the Music City Center in Nashville, Tennessee. Visit [OTA.org](http://OTA.org) in late May to register and make hotel reservations.

**Early Bird Registration:** Register by August 31st to save \$100 on the Annual Meeting and each Pre-Meeting Registration.



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[otaonline.org](http://otaonline.org)



# WELCOME

September 30 – October 3, 2020 🎵 Nashville, Tennessee



Stephen A. Kottmeier, MD  
Annual Meeting Program Chair

Dear Colleagues,

On behalf of the OTA Program Committee and President Michael McKee, MD, I am pleased to invite you to the Annual Meeting of the Orthopaedic Trauma Association (OTA) to be held September 30th – October 3rd. At the time of this invitation, we are all practicing distancing to address a global health crisis, with the hope and expectation that our required separation will enable us to gather again soon. As a professional society we have remained vibrant, and a long-awaited reunion is within our grasp. Spring will turn to summer and summer to fall, a time of year cherished for OUR Annual Meeting.

Despite the spring hardships, the Program Committee, with the support of the OTA, its members, and industry sponsors, have remained focused and productive. We plan an outstanding meeting that will provide highlights of the latest clinical and research advances selected from over 1300 scientific abstracts and 100 symposia proposals. This has culminated in a program that includes cutting-edge, high-quality research, and state-of-the-art techniques for musculoskeletal injuries. Paper presentations will begin with a “Program Highlights” session, featuring nine original research presentations of the highest quality, many with the potential to be practice-changing. On Friday and Saturday, a paper session of Randomized Controlled Trials and Prospective Studies, will offer exposure to quality science. Additionally, there will be many topic-centered paper presentations. There will be 27 concurrent breakout sessions, each with a specific focus to satisfy your interest. There will be 183 posters in the Exhibit Hall, and a novel category of Technical Tricks /Innovation in e-poster format.

Four main symposia will include controversies in the management of pelvic fractures; clinical practice guidelines for pain management; augmentation of fracture repair; and revision surgery. We are excited to welcome our Guest Nation, Colombia, and look forward to words of wisdom from John Border lecturer Stephen K. Benirschke, MD.

We also look forward to the return of highly successful pre-meeting courses, including:

- Orthopaedic Trauma Boot Camp
- International Trauma Care Forum
- Young Practitioners Forum
- Pelvis and Acetabulum Course
- OTA Fireside– The Case That I Have Learned The Most From: An Evening With Your Colleagues
- Orthopaedic Trauma for NPs and PAs
- E/M and Surgical Coding Course
- Resident Comprehensive Fracture Course
- Soft Tissue Coverage Skills Course



The OTA welcomes your presence and contributions to the meeting. We look forward to an academically engaging meeting with the social gratifications that accompany and nurture it. This year the 36th Annual Meeting of the OTA will be held in Nashville, Tennessee, home of the Grand Ole Opry and the Country Music Hall of Fame. I encourage you to familiarize or reacquaint yourself with country music, its charm, appeal, and the power of its positive messaging:

“There’s a healing in those guitars, and a spirit in the song  
No matter what condition your rhythm is in, the message goes on and on  
Music is the doctor” <sup>(1)</sup>

Sincerely,

  
Stephen A. Kottmeier, MD  
Program Chair

Reference: <sup>1</sup>Tom Johnston/Charlie Midnight/  
Eddie Schwartz-“The Doctor”:  
The Doobie Brothers 1989 album,  
Cycles. PMID. 🎵🎵🎵🎵🎵🎵

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## PRELIMINARY PROGRAM

### THURSDAY, October 1, 2020

1:00 PM - **WELCOME and DONOR AWARDS**  
1:20 PM  
Michael D. McKee, MD – President  
Stephen A. Kottmeier, MD – Program Chair

1:20 PM - **HOST WELCOME**  
1:25 PM  
William T. Obremsky, MD, MPH

#### 1:25 PM - **SYMPOSIUM I: Pelvic Fracture Symposium OTA 2020: Controversies in the Management of Pelvic Fractures**

Moderator: *Paul Tornetta III, MD*  
Faculty: *Steven A. Olson, MD*  
*Mark C. Reilly, MD*  
*Hassan Riaz Mir, MD, MBA*  
*Heather A. Vallier, MD*  
*David C. Templeman, MD*  
*Milton L. Routt, MD*  
*Henry Claude Sagi, MD*

#### Learning Objectives

- Understand the current thoughts regarding pelvic stability
- Understand the advantages and disadvantages of operative stress evaluation of the pelvis
- Understand the methods of decreasing hardware failure and avoiding malunions in operative pelvic fractures

#### Description

This symposium will delve into the controversies in the management of pelvic fractures. Current thoughts about how to evaluate pelvic injuries based on predicted outcomes as well as a debate about the use of stress examinations will be presented. Finally, strategies to avoid hardware failure and malunions for both anterior and posterior fixation will be reviewed.

2:55 PM - **Refreshment Break**  
3:25 PM

3:25 PM - **PAPER SESSION I:  
Program Highlights**  
4:59 PM  
Moderators: *Stephen A. Kottmeier, MD*  
*Gerard P. Slobogean, MD*

3:25 PM - **PAPER 61**  
3:31 PM  
**Accelerated Surgery versus Standard Care in Hip Fracture (HIP ATTACK): An International, Randomized, Controlled Trial**  
*Flavia K. Borges, PhD;*  
*Mohit Bhandari, MD, FRCSC, PhD;*  
*Ernesto M. Guerra-Farfan;*  
*Ameen Patel, MBChB;*  
*Jessica Vincent, CCRP, MSc;*  
*Kumar Balasubramanian; Valerie Harvey, BS;*  
*P.J. Devereaux, MD*

3:31 PM - **PAPER 62**  
3:37 PM  
**A Multi-Center, Randomized Trial Comparing Incisional Negative Pressure Wound Therapy and Standard Dressings with Surgical Incisions Associated with Fractures Following Major Trauma to the Lower Limbs - The WHIST Collaboration**  
*Matthew L. Costa, FRCS; Tim Chesser, FRCS*

3:37 PM - **PAPER 63**  
3:43 PM  
**Intramedullary Nailing versus Sliding Hip Screw Intertrochanteric Evaluation: The INSITE Trial**  
*Emil H. Schemitsch, MD;*  
*INSITE Investigators*

3:43 PM Discussion

3:48 PM - **PAPER 64**  
3:54 PM  
**Reverse Shoulder Arthroplasty Superior at 2 Years Compared with Plate Fixation for Displaced Proximal Humeral Fractures in the Elderly: A Multicenter Randomized Controlled Trial**  
*Alexander Nilsskog Fraser, MD;*  
*Jonas Bjørdal, MD; Tone Wagle;*  
*Anna Karlberg, MD; Odd Arve Lien;*  
*Lars Eilertsen, MD; Konrad Mader, MD, PhD;*  
*Hilde Apold, MD, PhD;*  
*Leif Boerge Larsen, MD;*  
*Jan Erik Madsen, MD, PhD;*  
*Tore Fjalestad, MD*

## THURSDAY, October 1, 2020, continued

3:54 PM - **PAPER 65**  
4:00 PM **A Prospective Randomized Trial to Assess Oral (PO) Versus Intravenous (IV) Antibiotics for the Treatment of Post-op Wound Infection After Extremity Fractures (POvIV)**  
**William T. Obremskey, MD, MPH;**  
*Robert V. O'Toole, MD; Saam Morshed, MD; Paul Tornetta III, MD; Clinton Kenneth Murray, MD; Clifford B. Jones, MD, FACS; Daniel Oscar Scharfstein; Tara J. Taylor, MPH; Anthony R. Carlini, MS; Jennifer Desanto, RN, MS; Renan C. Castillo, MD; Poviv METRC*

4:00 PM - **PAPER 66**  
4:06 PM **Supplemental Perioperative Oxygen to Reduce Surgical Site Infection After High-Energy Fracture Surgery (OXYGEN Study)**  
**Robert V. O'Toole, MD;**  
*Manjari Joshi; Anthony R. Carlini, MS; Yanjie Huang; Clinton Kenneth Murray, MD; Michael J. Bosse, MD; Daniel Oscar Scharfstein; Armagan Dagal, MD; Joshua Layne Gary, MD; Madhav A. Karunakar, MD; Michael John Weaver, MD; William T. Obremskey, MD, MPH; Todd Owen McKinley, MD; Gregory T. Altman, MD; Milan Kumar Sen, MD; Jean-Claude Gregoire D'Alleyrand, MD; Yasmin Degani, MPH; Susan Catherine Jane Collins, MSc; Julie Agel, ATC; Tara J. Taylor, MPH; Robert Sikorski, MD; Alec C. Stall, MD, MPH; Ebrahim Paryavi, MD, MPH; Amanda Holmes, MPH, MS; Mary Zadnik, MEd, OTR, SCD; Renan C. Castillo, MD; OXYGEN METRC*

4:06 PM Discussion

4:11 PM - **PAPER 67**  
4:17 PM **A Prospective Randomized Trial to Assess Fixation Strategies for Severe Open Tibia Fractures: Modern Ring External Fixators versus Internal Fixation (FIXIT Study)**  
**Robert V. O'Toole, MD; FIXIT METRC**

4:17 PM - **PAPER 68**  
4:23 PM **Vitamin D3 Supplementation does not Improve Fracture Healing: A Double-Blinded Randomized Control Trial**  
**Gerard Slobogean, MD, MPH, FRCSC;**  
*Nathan N. O'Hara, MHA; Zachary Hannan, BS; Sofia Bzovsky, MSc; Daniel Connelly, BS; Jonathan Derrick Adachi; Sheila Sprague, PhD; Vita-Shock Investigators*

4:23 PM - **PAPER 69**  
4:29 PM **The Wrist and Radius Injury Surgical Trial (WRIST): 24-Month Outcomes from a 24-Center North American Clinical Trial**  
**Bertrand Perey, FRCS (Ortho);**  
*Kevin C. Chung, MD, MS; Hyungjin Myra Kim, ScD; Sunita Malay, MPH; Melissa J. Shauver, MPH; The WRIST Group*

4:29 PM Discussion

4:59 PM - **PRESIDENT'S MESSAGE**  
5:29 PM **Michael D. McKee, MD**  
Professor and Chairman,  
Department of Orthopaedic Surgery  
University of Arizona College of  
Medicine—Phoenix Banner  
University Medical Center Phoenix



5:29 PM - **OTA Business Meeting** (Members Only)  
6:29 PM concurrent pre-reception in Exhibit Hall

5:29 PM - **Happy Hour - Exhibitor Reception**  
6:29 PM Sponsored by  **OsteoCentric**  
TECHNOLOGIES

6:30 PM - **WELCOME RECEPTION**  
8:30 PM **Marty Dickens Terrace, Music City Center**  
Join your colleagues for cocktails and hors d'oeuvres at the Marty Dickens Terrace, Music City Center.





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## FRIDAY, October 2, 2020

6:30 AM -  
7:30 AM**CONCURRENT BREAKOUT SESSIONS****Maximizing Outcomes in Tibial Pilon Fractures**Moderator: *Clay Spitler, MD*  
Faculty: *Matthew Graves, MD*  
*Brett D. Crist, MD*  
*J. Tracy Watson, MD***Learning Objectives**

- Understand fracture patterns and reduction techniques in order to maximize visualization and construct stability
- Understand soft tissue injuries including open fractures and fracture blisters and identify techniques to avoid complications
- Review pertinent approaches and understand how the sequence of approach and reduction can affect the final outcome.

**Description**

Complex tibial pilon fractures are among the most challenging fractures treated by orthopaedic surgeons. Bony and soft tissue injury patterns will be reviewed with emphasis on open fracture management, reduction/fixation sequence selection, and salvage options for the severe open fracture. We will review current literature and techniques to maximize outcomes while avoiding complications.

**Rehab to Optimize Outcomes: Getting Our Patients Back on their Feet**Moderator: *Daniel Stinner, MD*  
Faculty: *William T. Obremskey, MD*  
*Joseph R. Hsu, MD*  
*Kristin Archer, PhD***Learning Objectives**

- The audience will understand the typical norms for time to weight bearing following injuries to the lower extremity. They will also learn about current data where these norms have been challenged to optimize outcome.
- The audience will understand the impact that psychosocial factors have on outcome. They will also be instructed on methods to identify patients at higher risk for poor outcome and methods for intervening

early to optimize outcome.

- The audience will learn about various bracing options that can improve outcome (pain and function) in patients following foot and ankle trauma. They will also learn about several adjunct treatment therapies and the data to support or discount their use.

**Description**

This breakout will use evidence to challenge the current standards of rehabilitation following extremity trauma and will provide guidance on incorporating it into clinical practice. From recommendations on early weight bearing to bracing and blood flow restrictive training, this breakout will provide evidence-based tips on rehabilitation to help optimize the outcomes of patients following extremity trauma.

**From Fixation to Revision in Periprosthetic and Interprosthetic Hip & Knee Fractures: When, How and Getting it Right**Moderator: *Frank A. Liporace, MD*  
Faculty: *Richard S. Yoon, MD*  
*Derek James Donegan, MD*  
*Mark Gage, MD***Learning Objectives**

- Take away strategies for identifying stable versus loose implants in the periprosthetic (PPFx) THA/TKA Fracture setting. Additionally --- what do I do with an interprosthetic fracture?
- Fixation strategies, tips and tricks and avoiding pitfalls for PPFx about the acetabulum, proximal and distal femur.
- When and how --- revision strategies for a loose cup, loose femoral stem/component with and without good bone stock.

**Description**

This breakout session will offer a case-based, interactive strategy and update on the fixation and revision of periprosthetic THA/TKA fractures. Also, treatment of interprosthetic fractures will be highlighted for participants.

## FRIDAY, October 2, 2020, continued

6:30 AM - 7:30 AM **CONCURRENT BREAKOUT SESSIONS, cont'd**  
**Managing Complex Humerus Fractures: From Proximal to Distal**

Moderator: *Andrew M. Choo, MD*  
Faculty: *Timothy S. Achor, MD*  
*Michael J. Gardner, MD*  
*Eben A. Carroll, MD*

### Learning Objectives

- Identify fracture patterns and characteristics which can pose unique difficulties.
- Aid with decision-making, planning, and options for complex humerus fractures.
- Demonstrate surgical techniques to successfully manage these injuries.

### Description

This breakout session will present case-based discussions on the management of difficult problems with humerus fractures. Proximal, diaphyseal, and distal humerus fractures will be examined with special attention to unique fracture problems, including fracture dislocations, ballistic injuries, segmental fractures, bone loss, and nonunions/malunions.

### From Knee to Ankle: Tips and Strategies for Managing Tibial Shaft Fractures in Proximal, Middle, and Distal Thirds

Moderator: *Michael A. Maceroli, MD*  
Faculty: *Cory Alan Collinge, MD*  
*Sandeep Soin, MD*  
*John P. Ketz, MD*  
*Roberto C. Hernandez-Irizarry, MD*

### Learning Objectives

- Take-away strategies for reduction and fixation of extra-articular tibia fractures with specific focus on anatomic regions and the unique challenges each presents.
- Addressing the combined tibia shaft fracture with intra-articular involvement while maximizing quality of reduction and minimizing soft tissue disruption.
- What to do When it Doesn't Work --- strategies for managing tibial nonunions and bone loss with and without concomitant infection.

### Description

The goal of this breakout session is to provide an in-depth look at tibia fracture management separated by "anatomic thirds", highlighting specific challenges and techniques for each. Presentations will be case-based (with literature support) and include everything from surgical planning to implant selection to reduction techniques. Strategies will focus on the latest decision-making and fixation options to maximize outcomes.

7:30 AM - 9:00 AM **SYMPOSIUM II:**  
**Clinical Practice Guidelines for Pain Management in Acute Musculoskeletal Injury**

Moderator: *Rachel Seymour, PhD*  
Faculty: *Joseph R. Hsu, MD*  
*David C. Ring, MD*  
*Hassan Riaz Mir, MD, MBA*  
*Meghan Wally, MSPH*  
*Anna Noel Miller, MD*  
*Jarrod Edward Dumpe, MD*

### Learning Objectives

- Understand multimodal pain management strategies appropriate for acute musculoskeletal injury patients.
- Describe strategies for tapering patients from opioids following use for acute musculoskeletal injury.
- Identify system strategies for addressing balance of safety and comfort.

### Description

Balancing comfort and patient safety following acute musculoskeletal injury is possible when utilizing a true multimodal approach including cognitive, physical, and pharmaceutical strategies. In this guideline, we attempt to provide practical, evidence-based guidance for clinicians in both the operative and non-operative settings to address acute pain from musculoskeletal injury.

9:00 AM - 9:30 AM **Break/Breakfast**



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## FRIDAY, October 2, 2020, continued

9:30 AM - **PAPER SESSION II:**  
10:32 AM **Geriatrics**  
Moderator: *Animesh Agarwal, MD*

9:30 AM - **PAPER 70**  
9:36 AM **Predicting Early Mortality in High Risk Hip Fracture Patients Based on Time to OR: A Multicenter Study**  
*Michael Mchugh, MD; Nathaniel Schaffer, MD; Max Davis, MD; Aaron M. Perdue, MD; Mark Hake, MD*

9:36 AM - **PAPER 71**  
9:42 AM **Development and Validation of a Prediction Model for In-Hospital Mortality in Geriatric Hip Fracture Patients**  
*Henk Jan Schuijt, MD, MSc; Diederik Pieter Johan Smeeing; Franka S. Würdemann, MD; Han Hegeman, MD, PhD; Olivia Geraghty, ACNP-BC, ATC, BA, BOC, BOCO, BOCP, BS, B; Marijn Houwert, MD, PhD; Michael John Weaver, MD; Detlef Van Der Velde, MD, PhD*

9:42 AM - **PAPER 72**  
9:48 AM **The Use of Multi-Disciplinary Peer Review to Improve Clinical Performance: Experience from the National Hip Fracture Database of England, Wales and Northern Ireland**  
*Tim Chesser, FRCS; Cheryl Baldwick, MD; Paul Dixon, FRCS (Ortho)*

9:48 AM - **PAPER 73**  
9:54 AM **Protocol-Based Multidisciplinary Co-Management for Hip Fracture Care: Three Years of Experience in an Academic Medical Center**  
*Heather Roberts, MD; Stephanie Rogers, MD, MPH, MS; Utku Kandemir, MD; Derek Ward, MD*

9:54 AM Discussion

10:01 AM - **PAPER 74**  
10:07 AM **Expanded Use of Tranexamic Acid is Safe and Decreases Transfusion Rates in Patients with Geriatric Hip Fractures**  
*Joseph Bagrit Kahan, MD, MPH; Jensa Morris, MD; Don Li, MS; Mary Irene O'Connor, MD*

10:07 AM - **PAPER 75**  
10:13 AM **Direct Oral Anticoagulants Unnecessarily Delay Surgery in Low Energy Hip Fracture Patients**  
*Ashley Levack, MD; Harold Gregory Moore, BS; Stephen Stephan, MD; Sally Jo, MD; Ian Schroeder, MD; John Garlich, MD; Aidan Hadad; Milton Thomas M. Little, MD; Anna Noel Miller, MD, FACS; Stephen Lyman, PhD; Joseph M. Lane, MD*

10:13 AM - **PAPER 76**  
10:19 AM **Association Between Femoral Stem Type and the Risk of Aseptic Revision Following Hemiarthroplasty**  
*Kanu M. Okike, MD, MPH; Priscilla Hannah Chan, MS; Nithin C. Reddy, MD; Robert Alan Burri, MD; Liz Paxton, MA; Heather Ann Prentice, PhD*

10:19 AM - **PAPER 77**  
10:25 AM **Preoperative Cardiology Assessment of Hip Fractures; How Closely Are Guidelines Followed and Does It Affect Patient Care?**  
*Christopher Hoehmann, DO; Jeffrey Thompson, DO; Mitchell Long, DO; Michael Divella, DO; Swapna Munnangi, PhD; David Galos, MD*

10:25 AM Discussion

## FRIDAY, October 2, 2020, continued

10:32 AM - **PAPER SESSION III:  
Foot and Ankle**  
Moderators: *Brett D. Crist, MD*  
*Kyle M. Schweser, MD*

10:32 AM - **PAPER 78**  
10:38 AM **Risk Factors for AVN After Talar Fractures**  
**Maxwell C. Alley, MD;**  
*Paul Tornetta III, MD; Orthopaedic Trauma  
Research Consortium (OTRC)*

10:38 AM - **PAPER 79**  
10:44 AM **The 3-Dimensional Printed Total Talus  
Replacement: A Novel Treatment Option  
for Avascular Necrosis of the Talus**  
*Rishin Kadakia, MD; Craig C. Akoh, MD;*  
*Jie Chen, MD; Akhil Sharma, BS;*  
*Selene G. Parekh, MD, MBA*

10:44 AM - **PAPER 80**  
10:50 AM **Acute ORIF of Tibial Pilon Fractures -  
Is Staging Necessary?**  
**Reuben C. Lufrano, MD;** *Lazaro Mesa, MD;*  
*Paul Jordan Hannon; Brandon Reece Hull, MD;*  
*Joshua Mizels, BA; David Timothy Watson, MD;*  
*Anjan Rajni Shah, MD; Benjamin Maxson, DO;*  
*Anthony F. Infante, DO;*  
*David Donohue, MD; Katheryne Downes, PhD;*  
*Roy W. Sanders, MD;*  
*Hassan Riaz Mir, MD, FACS, MBA*

10:50 AM Discussion

10:55 AM - **PAPER 81**  
11:01 AM **Immediate Weight Bearing and Range of  
Motion After Internal Fixation of Unstable  
Ankle Fractures: A Retrospective  
Controlled Study**  
**Brianna Fram, MD;** *Ryan Gerald Rogero, BS;*  
*Gerard Chang, MD;*  
*James C. Krieg, MD;*  
*Steven M. Raikin, MD*

11:01 AM - **PAPER 82**  
11:07 AM **Risk Factors for the Development of  
Post-Traumatic Arthritis After Torsional  
Ankle Injury**  
**Alexander J. Benedick, MD;**  
*Megan Audet MD;*  
*Heather A. Vallier MD*

11:07 AM- **PAPER 83**  
11:13 AM **Long Term Trajectory of Recovery  
Following Pilon Fracture Fixation**  
**Scott Middleton, MD;**  
*Henry M. Broekhuysse, MD;*  
*Pierre Guy, MD; Peter Joseph O'Brien, MD;*  
*Kelly Ann Lefavre, MD*

11:13 AM Discussion



10:15 AM - **CONCURRENT BREAKOUT SESSIONS**  
11:15 AM **Upper Extremity Fractures –  
Operative and Nonoperative Treatment:  
What Does the Data Say?**  
Moderator: *Judith Siegel, MD*  
Faculty: *Stephen Kottmeier MD*  
*Clifford B. Jones, MD, FACS*  
*Andrew D. Duckworth, FRCS, MBChB*  
*Paul Tornetta III, MD*

### Learning Objectives

- review the surgical and nonsurgical indications for the included upper extremity fractures
- understand that there is still a roll for nonoperative treatment of fractures and learn when to abandon nonsurgical treatment plans
- understand the outcomes with nonsurgical and surgical management

### Description

This breakout will discuss operative and nonoperative treatment options along with the associated risks, benefits, and outcomes in treating clavicle, proximal humerus, humeral shaft, and distal radius fractures. We will review the current data and discuss the stigmata of nonsurgical management.

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## FRIDAY, October 2, 2020, continued

10:15 AM - **CONCURRENT BREAKOUT SESSIONS, cont'd**  
 11:15 AM **The Treatment of Peri-prosthetic Fractures in 2020: A Comprehensive Evidence-based Approach!**

Moderator: *Emil H. Schemitsch, MD*  
 Faculty: *Adam Anton Sassoon, MD*  
*Aaron Nauth, MD*  
*Michael J. Gardner, MD*  
*Andrew H. Schmidt, MD*

### Learning Objectives

- How to accurately classify peri-prosthetic fractures and the common pitfalls of classification.
- How to optimize the periprosthetic fixation construct to allow early weight-bearing.
- The role of revision arthroplasty in managing peri-prosthetic fractures about a THA and TKA.

### Description

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. The symposium will allow registrants to optimize surgical decision making and fixation and manage complications following these difficult injuries.

### Challenges in Non-union Treatment - A Case-Based Symposium

Moderator: *Paul S. Whiting, MD*  
 Faculty: *J. Spence Reid, MD*  
*Gerald J. Lang, MD*  
*David Goodspeed, MD*

### Learning Objectives

- Understand the mechanical and biological principles of fracture healing.
- Learn a systematic approach to non-union workup and pre-operative planning.
- Understand treatment principles and techniques for non-unions.

### Description

Faculty will use a case-based approach to illustrate principles and techniques of non-union treatment. Principles of fracture healing (mechanical and biological) and strategies

for non-union workup and pre-operative planning will also be reviewed.

### Navigating Work and Life Stressors as an Orthopaedic Traumatologist

Moderator: *Matthew R. Garner, MD*  
 Faculty: *Jonah Hebert-Davies, MD*  
*Derek J. Donegan, MD*  
*Milton T. Little, MD*  
*Milton L. Routt, MD*

### Learning Objectives

- An improved understanding of stressors and challenges that Orthopaedic Trauma surgeons face through discussion and personal experiences of faculty.
- Statistics surrounding physician suicide
- Tools and resources available for those experiencing stress, loss, or mental challenges

### Description

This session will focus discussing stressors that occur in a provider's life, both at work and at home. The faculty will use personal experiences to promote an open discussion of these stressors in hopes of starting a process of destigmatization. Participants will be encouraged to continue these conversations at their home institution with the goal of improving communication around topics that are often avoided.

11:18 AM - **Guest Nation Presentation**  
 11:48 AM





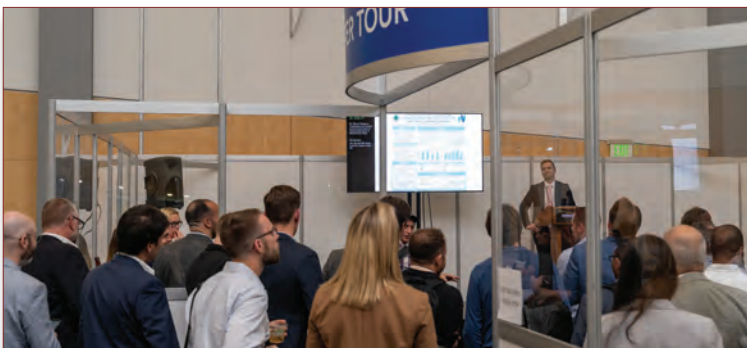
# OTA 36<sup>TH</sup> ANNUAL MEETING

September 30 – October 3, 2020 🎵 Nashville, Tennessee

## FRIDAY, October 2, 2020, continued

11:48 AM - Lunch  
12:48 PM **New Member Luncheon**  
**Kathy Cramer Women in Trauma Luncheon**

12:00 PM - **Lunch Poster & Video Tours**  
12:40 PM **Upper Extremity**  
**General Interest**



12:48 PM - **PAPER SESSION IV:**  
1:42 PM **Randomized Control Trials and Other Prospective Studies I**  
Moderator: *Gregory J. Della Rocca, MD, PhD,*

12:48 PM - **PAPER 84**  
12:54 PM **Fascia Iliaca Block Decreases Hip Fracture Postoperative Opioid Consumption: A Prospective Randomized Controlled Trial**  
**Jeffrey Thompson, DO;**  
*David Galos, MD; Mitchell Long, DO;*  
*Charles J. Ruotolo, MD;*  
*Rhyne Champ Dengenis, DO*

12:54 PM - **PAPER 85**  
1:00 PM **Intramedullary K-wires versus Titanium Elastic Nails for Pediatric Femur Fractures: Preliminary Results from a Randomized Clinical Trial in Dar es Salaam, Tanzania**  
**Edmund Ndalama Eliezer, MD, MMed;**  
*Msami Evarist Ngowi, MD;*  
*Revocatus Benard Luziba;*  
*Bryson McHaro Ikoshi, FRCS (Ortho);*  
*John Mina Ibrahim, MD;*  
*Emmanuel Roagthe Lema, MMED;*  
*David Shearer, MD; Saam Morshed MD;*  
*Patrick Curran, MD*

1:00 PM - **PAPER 86**  
1:06 PM **Treatment of Orthopaedic Infections: A Phase 2a Study to Assess Safety, Tolerability and Clinical Activity of Intra-surgical Administration of MBN-101 to Infected Bone**  
**Samir Mehta, MD;** *Annamarie Horan, PhD;*  
*Patricia A. McKernan, BS;*  
*Brett Hugh James Baker, MSc, DC*

1:06 PM Discussion

1:11 PM - **PAPER 87**  
1:17 PM **Closed Unstable Tibial Shaft Fractures: Ring Fixator or Reamed Intramedullary Nailing. A Randomized Controlled Trial**  
**Jan Erik Madsen, MD, PhD;**  
*Frede Frihagen MD;*  
*Gunnar Birkeland Flugsrud, MD;*  
*Mikael Sundfeldt, MD, PhD;*  
*Mette Renate Andersen, MD;*  
*Geir Andreassen, MD*

1:17 PM - **PAPER 88**  
1:23 PM **Utility of Fibular Fixation in Same-level Tibia and Fibula Fractures: A Randomized Controlled Trial**  
*Richard E. Buckley, MD; Paul James Duffy, MD;*  
*Robert Korley, MD; Ryan Martin, MD;*  
*Stephanie Yee, BS; Aftab Akbari, RN;*  
*Leah Schultz, RN;*  
**Prism Schneider, MD, PhD**

1:23 PM - **PAPER 89**  
1:29 PM **Functional Outcome of Operative versus Nonoperative Treatment of Humeral Shaft Fractures: Results of a Prospective Multicenter Cohort Study**  
**Dennis Den hartog;** *Kiran Mahabier;*  
*Michael Verhofstad, MD, PhD;*  
*Esther M.M. Van Lieshout, PhD;*  
**HUMMER Investigators**

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1:29 PM - **PAPER 90**  
 1:35 PM **Simple Decompression versus Anterior Transposition of The Ulnar Nerve for Distal Humerus Fractures Treated with Plate Fixation: Secondary Outcomes of a Randomized Trial**  
**Emil H. Schemitsch, MD;**  
*Gurrattan Chandhoke;*  
*Christine Schemitsch, BS;*  
*Nilooofar Dehghan, MD, FRCSC, MSc;*  
*Milena Vicente, RN; Aaron Nauth, MD;*  
*Jeremy Hall, MD, FRCS (ORTHO), MEd;*  
*Michael D. McKee, MD, FRCSC*

1:35 PM Discussion

1:42 PM - **PAPER SESSION V:**  
 2:56 PM **General Interest**  
 Moderator: *Andrew M. Choo, MD*

1:42 PM- **PAPER 91**  
 1:48 PM **Serologic and Nutritional Assessment of Nonunion: A Multicenter Investigation**  
*Robert F. Ostrum, MD;*  
**Joshua Shapiro, MD;** *Matthew Stillwagon, MD;*  
*Seth R. Yarboro, MD; Kyle James Jeray, MD;*  
*Paul Tornetta III, MD;*  
*Paul Edward Matuszewski, MD;*  
*Feng-Chang Lin, PhD*

1:48 PM - **PAPER 92**  
 1:54 PM **Utility of Common Biomarkers for Diagnosing Infection in Nonunion: A Prospective Cohort Study**  
*Mark R. Brinker, MD; Jenny Macek, PA-C;*  
**Warren Dunn, MD, MPH**

1:54 PM -  
 2:00 PM

**PAPER 93**  
**Is It Time to Stop Routine Cultures in Low-Risk Nonunion Surgeries?**  
*Ainsley Katherine Bloomer, BA, BS;*  
**Olivia Rice, MD;** *Louis Lewandowski, MD;*  
*Gisele Bailey; Amber Nicole Stanley, BS;*  
*Katheryn Marianne Peterson, BS;*  
*Matt Morris, BA; Susan Marie Odum, PhD;*  
*Ziqing Yu, MS; Meghan Wally, MSPH;*  
*Christine Churchill, BA;*  
*William T. Obremsky, MD, MPH;*  
*Elsa Beatriz Rodriguez, MD;*  
*Michael J. Bosse, MD;*  
*Laurence Kempton, MD;*  
*Kevin Daniel Phelps, MD;*  
*Rachel Seymour, PhD; Stephen H. Sims, MD;*  
*Madhav A. Karunakar, MD;*  
*Joseph R. Hsu, MD*

2:00 PM -  
 2:06 PM

**PAPER 94**  
**Evaluation and Treatment of Pediatric Pelvic Ring Injuries**  
**Elizabeth Park Davis, MD;**  
*Shiraz Ahmad Younas, MD;*  
*Milton L. Routt, MD*

2:06 PM -  
 2:12 PM

**PAPER 95**  
**Outcomes of Pediatric Acetabular Fractures Managed Operatively: Results of a Consecutive Series of Patients from a Large Academic Medical Center**  
**Clay A. Spitler, MD;** *Kyle Cichos, BS;*  
*Elie S. Ghanem, MD; Gerald McGwin, PhD*

2:12 PM Discussion

2:19 PM -  
 2:25 PM

**PAPER 96**  
**Decreasing Opioid Prescriptions Following Surgical Fixation in Orthopedic Trauma: The "Lopioid" Protocol**  
**Kenneth A. Egol, MD;** *Emma Landes, BA;*  
*Philipp Leucht, MD; Nirmal C. Tejwani, MD;*  
*Abhishek Ganta, MD; Sanjit R. Konda, MD*

## FRIDAY, October 2, 2020, continued

- 2:25 PM - PAPER 97  
2:31 PM **There Might be a Difference! Type II (Beta) Error Rates of Randomized Trials in Orthopaedic Trauma**  
**Nathan P. Olszewski, MD; Jeansol Kang, MD; Paul Tornetta III, MD**
- 2:31 PM - PAPER 98  
2:37 PM **Surgical Fixation of Rib Fractures Improves 30-Day Survival After Significant Chest Injury in Polytrauma: An Analysis of 10 Years of Prospective National Registry Data from England and Wales**  
**Simon John Craxford, MBBS; Ben Marson; Jessica Nightingale, BS; Alan Norrish, FRCS (Ortho), MBCHB, PhD; Daren Forward, MD; Benjamin Ollivere, MD, FRCS (Ortho), MA, MBBS**
- 2:37 PM - PAPER 99  
2:43 PM **An Ultrasound Based Method for Detecting Elevated Muscle Compartment Pressures: A Prospective Clinical Pilot Study**  
**Meir Tibi Marmor, MD; Matthew John Herring, MD; Erin Donohoe, MD; Jordan P. Barker, MD; Jacob Matz, MD**
- 2:43 PM - PAPER 100  
2:49 PM **Conditionally Essential Amino Acid Supplementation Reduces Postoperative Complications and Muscle Wasting in Orthopaedic Trauma Patients**  
**Nathan Hendrickson, MD; John Davison, MPH; Erin S. Wilson; Natalie Ann Glass, PhD; Aspen Miller, BS; Michael C. Willey, MD**
- 2:49 PM Discussion

1:50 PM -  
2:50 PM

## CONCURRENT BREAKOUT SESSIONS **Management of Geriatric Acetabular Fractures in 2020**

Moderator: *John Alan Scolaro, MD*  
Faculty: *Derek James Donegan, MD  
Joshua Layne Gary, MD  
Daniel Richard Dziadosz, MD*

### Learning Objectives

- Learn fracture and patient characteristics that are amenable to nonsurgical management
- Outline surgical techniques to improve reduction and fixation of geriatric acetabular fractures
- Recognize opportunities for use of arthroplasty in geriatric patients with acetabular fractures.

### Description

Geriatric acetabular fractures present multiple challenges to the orthopaedic surgeon. From decision making to advanced reconstructive techniques, we will improve your confidence in managing these difficult injuries.

## **'Gray Zone Pelvis'; What Do I Do?**

Moderator: *Jason W. Nascone, MD*  
Faculty: *Milton L. Routt, MD  
Adam Jennings Starr, MD  
Robert V. O'Toole, MD  
Henry Claude Sagi, MD*

### Learning Objectives

- The learner will understand the definition of "Gray Zone" pelvic ring injury and potential concerns that may lead to operative intervention
- The learner will understand and become familiarized with the components that various experienced pelvic surgeons use in making the decision between operative and non operative management
- The learner will understand the drivers of poor outcome with pelvic ring disruption and the treating surgeon's impact on these drivers.

### Description

Case based panel discussion centered on decision making in pelvic ring management. Cases will present diagnostic challenges with





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## FRIDAY, October 2, 2020, continued

1:50 PM -  
2:50 PM**'Gray Zone Pelvis'; What Do I Do?, cont'd**

regard to operative VS non operative management. Emphasis will be on how and why 'pelvic experts' decide on a treatment modality, when is non operative management appropriate and components of this decision making

**The Role of Arthroplasty in Acute and Failed Fracture Surgery**Moderator: *Emil H. Schemitsch, MD*

Faculty: *Hans J. Kreder, MD*  
*Amir Khoshbin, MD*  
*Andrew H. Schmidt, MD*  
*Adam Anton Sassoon, MD*  
*Michael D. McKee MD, FRCSC*

**Learning Objectives**

- When and how to perform arthroplasty for acute fracture management
- The role of arthroplasty for managing post-traumatic arthritis
- How to manage failed fracture surgery of the upper extremity and lower extremity

**Description**

This symposium 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. The evidence around the role of arthroplasty for failed fracture surgery of the upper and lower extremity will be presented.

**The Traumatized Midfoot: Tips and Tricks for Successful Reconstruction**Moderator: *Harmeeth Uppal, MD*

Faculty: *Brad J. Yoo, MD*  
*Gregory Della Rocca, MD*  
*Stephen K. Benirschke, MD*

**Learning Objectives**

- The registrant will learn surgical strategies and tips for successful midfoot reconstruction. Additional discussion and case examples will be on both surgical techniques and tips for initial provisional fixation as well as techniques for definitive ORIF vs primary fusion.

- The registrant will learn tips for successful fixation of Chopart fractures and/or dislocation injuries.
- The registrant will learn surgical strategies and tips for successful midfoot reconstruction. Additional discussion and case examples will be on both surgical techniques and tips for initial provisional fixation as well as techniques for definitive ORIF vs primary fusion.

**Description**

Through detailed case based discussion the registrant will further their knowledge on how to manage complex midfoot and Chopart joint injuries. Focus will be on scrutinizing x-rays and discussing surgical technique that highlights tips for obtaining stable mechanical fixation. Further discussion will address the proper management of complex midfoot injuries where initial definitive fixation has failed.

**Treatment of Supracondylar Femur Fractures: Plating, Nailing and Nonunions**Moderator: *Frank A. Liporace, MD*

Faculty: *Michael A. Maceroli, MD*  
*Richard S. Yoon, MD*  
*John P. Ketz, MD*  
*Marcus F. Sciadini, MD*

**Learning Objectives**

- Provide operative tips and techniques for treating supracondylar distal femur fractures with both locked plating and intramedullary strategies.
- Focus on the geriatric supracondylar femur fracture and the advent of the nail-plate combination technique to allow early weight bearing and prevent complications.
- When and how – strategies for addressing supracondylar nonunions in both the aseptic and infected settings.

**Description**

This breakout session will offer a case-based, interactive strategy and update on treatment techniques for supracondylar distal femur fractures with and without articular involvement. Treatment of supracondylar nonunions will be also be highlighted for participants.

2:56 PM - 3:26 PM

Break

## FRIDAY, October 2, 2020, continued

3:26 PM - **PAPER SESSION VI:**  
4:34 PM **Upper Extremity/Lower Extremity**  
Moderator: *Harmeeth Uppal, MD*

3:26 PM - **PAPER 101**  
3:32 PM **Displaced Midshaft Clavicle Fracture Union Can Be Accurately Predicted with a Delayed Assessment at 6 Weeks Following Injury: A Prospective Cohort Study**  
**Jamie A. Nicholson, MBCHB, MRCSED;**  
*Nicholas D. Clement, MRCS Ed;*  
*Andrew David Clelland;*  
*Deborah Jane Macdonald, BA;*  
*Hamish Robert Wallace Simpson, ChB, DMed, FRCS, MA, MB;*  
*Christopher M. Robinson, MD*

3:32 PM - **PAPER 102**  
3:38 PM **PROSPECT-Study: No Difference in Outcome of the Reverse Shoulder Fracture Prosthesis in Dislocated Proximal Humerus Fractures in Primary and Delayed Treatment**  
**Leanne Stephanie Blaas, MD;**  
*Robert Jan Derksen, MD, MSc, PhD;*  
*Charlotte M. Lameijer, MD, PhD*

3:38 PM - **PAPER 103**  
3:44 PM **Clinical and Radiographic Comparison of Splinting Constructs for Distal Radius Fracture: An Effort to Free the Elbow**  
**Nicole Stevens, MD; Zoe Norris;**  
*Nirmal C. Tejwani, MD*

3:44 PM - **PAPER 104**  
3:50 PM **Prospective Randomized Study on the Effectiveness of the Reduction of Extraarticular Distal Radius Fractures with Dorsal Displacement Under Haematoma Block versus Conscious Sedation**  
**Walimuni Yohan Mendis Abeysekera, MBBS, MD, MRCS;**  
*Chandika Sarathchandra, MBBS*

3:50 PM Discussion

3:57 PM - **PAPER 105**  
4:03 PM **Single Versus Dual Incision Approach for Dual Plating of Bicondylar Tibial Plateau Fractures: No Difference in Deep Infection or Need for Revision Surgery**  
**Theodore Guild, MD; Derek S. Stenquist, MD;**  
*Caleb Yeung, MD; Mitchel B. Harris, MD;*  
*Arvind Gabriel Von Keudell, MD;*  
*Raymond Malcolm Smith, MD*

4:03 PM - **PAPER 106**  
4:09 PM **What is the Appropriate Time for ORIF of Tibial Plateau Fractures with an Ipsilateral Compartment Syndrome? A Multicenter Retrospective Review**  
**Andrew G. Dubina, MD; George S. Morcos;**  
*Nathan N. O'Hara, MHA;*  
*Givenchy W. Manzano, MD;*  
*Heather A. Vallier, MD;*  
*Hassan Farooq, BS; Roman Natoli, MD;*  
*Donald Adams, DO, MS;*  
*William T. Obremsky, MD, MPH;*  
*Brandon G. Wilkinson, MD;*  
*Matthew Hogue MD; Justin Haller, MD;*  
*Lucas Scott Marchand, MD;*  
*Gavin Santini Hautala;*  
*Paul Edward Matuszewski, MD;*  
*Guillermo R. Pechero, BS;*  
*Joshua Layne Gary, MD;*  
*Christopher Doro, MD;*  
*Paul S. Whiting, MD;*  
*Michael James Chen, MD;*  
*Malcolm DeBaun, MD;*  
*Michael J. Gardner, MD;*  
*Alan W. Reynolds, MD; Gregory T. Altman, MD;*  
*Mitchel Obey, MD;*  
*Anna Noel Miller, MD, FACS;*  
*Douglas Haase, MD; Brent Wise, MD;*  
*Austin Wallace, MD;*  
*Jennifer Elizabeth Hagen, MD;*  
*Jeffrey A. O'Donnell, MD; Mark Gage, MD;*  
*Nicholas Johnson, MD;*  
*Madhav A. Karunakar, MD;*  
*Robert V. O'Toole, MD*

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## FRIDAY, October 2, 2020, continued

- 4:09 PM - **PAPER 107**  
4:15 PM **Outcomes of Primary Wound Closure of Open Tibia and Fibula Fractures (Including Tibia Plateau and Ankle) with a Combined Orthopaedic and Plastic Surgery Approach**  
*Kalina H. Hristova, MBBS, MRCS, MSc; Michael R. Whitehouse, PhD, FRCS (Tr & Ortho); Andrew Riddick, MBBS, FRCS (Ortho); Pei Ru Chew; Nada Al-Hadithy, MD; Thomas Wright, FRCS, MBCHB, MSc; Umraz Khan; Michael Kelly, MBBS, MD, FRCS (Ortho)*
- 4:15 PM - **PAPER 108**  
4:21 PM **Fracture-Dislocations of the Knee Have a Lower Incidence of Neurovascular Injury and Better Long Term Functional Outcomes Than Previously Thought**  
*Kristofer E. Chenard, MD; Mackenzie Bird; Leah Gonzalez, BS; Sanjit R. Konda, MD; Philipp Leucht, MD; Kenneth A. Egol, MD*
- 4:21 PM - **PAPER 109**  
4:27 PM **Narcotics are Unnecessary for Pain Control in Patients with Tibial Plateau or Pilon Fractures**  
*Isaac Fernandez, MD; Benjamin Randolph Childs, BS; Soumitra Lele; Rami Khalifa, MD, PhD; Michael Reich, MD; Mai P. Nguyen, MD*
- 4:27 PM Discussion

3:30 PM -  
4:30 PM

## CONCURRENT BREAKOUT SESSIONS

**Critical Bone Defects**Moderator: *Geoffrey Marecek, MD*Faculty: *Jeffrey S. Earhart, MD  
Mitchell Bernstein, MD  
Milton Thomas M. Little, MD  
John Alan Scolaro, MD***Learning Objectives**

- Pearls and Pitfalls of Induced Membrane technique
- Strategies for safe and effective use of distraction osteogenesis
- Indications and pitfalls for vascularized bone transfer or structural defect management

**Description**

Critical bone defects are challenging in the acute and post-traumatic setting. There are many options with advantages and disadvantages. This case-based discussion will highlight approaches to and options for these challenging problems

**Displaced Intra-Articular Calcaneus Fracture Management from “Soup to Nuts”: When, How, and Getting it Right**Moderator: *John P. Ketz, MD*Faculty: *Michael A. Maceroli, MD  
Roy W. Sanders, MD  
Mark Gage, MD***Learning Objectives**

- Present a detailed review of surgical technique for both the sinus tarsi and extensile lateral approaches.
- Provide an easily reproducible method for deciding the best surgical approach based on timing, patient and fracture characteristics.
- Special focus on open, intra-articular calcaneus fractures from soft tissue management and initial fixation to definitive surgery.

**Description**

Displaced intra-articular calcaneus fractures remain difficult to effectively treat and tend to spur intense debate regarding timing and approaches. The goal of this breakout session is to provide an overview of calcaneus





## FRIDAY, October 2, 2020, continued

3:30 PM -  
4:30 PM

**Displaced Intra-Articular Calcaneus, cont'd**  
fracture management, focusing specifically on the key techniques that will maximize outcomes. Talks will be case-based and will highlight specific factors that will demystify decisions related to the best surgical approach.

### Bringing Your Idea to Market- The Innovation Dream

Moderator: *Edward J. Harvey, MD*  
Faculty: *Charles Allan, MSc*  
*Thomas A. Russell, MD*  
*Brent L. Norris, MD*  
*Ross K. Leighton, MD*

#### Learning Objectives

- Learn how to get research translated to a commercial product
- Recognize the advantages of corporate partnership to with get an idea noticed or facilitate research goals
- Experience some of the pearls and pitfalls other people have been through on their entrepreneurial journeys

#### Description

We will outline how new ideas can either be incorporated into your research or clinical streams as well as identify commercial possibilities and how to fund them.

### There's More Than One Way to Skin a Cat and to Approach a Fracture. It's NOT Either Or!

Moderator: *Clifford B. Jones, MD*  
Faculty: *Paul Tornetta, III, MD*  
*Stephen Kottmeier, MD*  
*Cory A. Collinge MD*

#### Learning Objectives

- Understand that there are many surgical tactics for common fractures.
- Understand the various anatomic approaches for common orthopaedic conditions.
- Understand how surgical approaches and surgical tactic are related in planning surgery.

#### Description

This breakout will review the various surgical approach options for proximal humerus, plateau, pilon, and calcaneus fractures. We will review how the surgical tactic drives the choice of approach.

4:34 PM -  
5:04 PM

### JOHN BORDER LECTURE

**Stephen K. Benirschke, MD**  
Professor,  
Jerome H. Debs II Endowed Chair  
for Orthopaedic Traumatology,  
University of Washington  
Harborview Medical Center,  
Seattle, WA



5:04 PM -  
6:04 PM

### COVID-19: OTA PERSPECTIVE

4:34 PM -  
5:04 PM

### Suds N' Science Poster & Video Tours International Foot and Ankle



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## SATURDAY, October 3, 2020

6:30 AM - 7:30 AM **CONCURRENT BREAKOUT SESSIONS**  
**Pelvic and Acetabulum Fractures**Moderator: *Paul Tornetta III, MD*Faculty: *Michael S. Kain, MD*  
*David C. Templeman, MD*  
*Reza Firoozabadi, MD*  
*Andrew H. Schmidt, MD***Learning Objectives**

- To understand indications for surgery of pelvic and acetabular fractures
- To be exposed to multiple fixation and reduction tactics
- To understand the controversies in the management of pelvic and acetabular fractures

**Description**

This is a case-based review of controversial and complex pelvic and acetabulum fractures. It will focus on the indications for surgery as well as intra-operative reduction and fixation tactics.

**Current Strategies and Techniques for Operative Fixation of Complex Ankle Fractures and Fractures of the Tibial Plafond**Moderator: *Frank A. Liporace, MD*Faculty: *Richard S. Yoon, MD*  
*Mark Gage, MD*  
*Marcus F. Sciadini, MD*  
*Jason Warren Nascone, MD***Learning Objectives**

- Getting the diagnosis right - don't miss a higher level injury, not every ankle fracture is a bi- or trimalleolar ankle fracture!
- Deciding, how and when, to use approaches (anterior/posterior) and current update on the latest fixation strategies (i.e. minifragment, intramedullary nails for fibula/tibia)
- Salvage (fusions, frames, amputations) --- when to say enough is enough!

**Description**

The goal of this breakout session is to provide operative management strategies to avoid complications and achieve desired

outcomes. Presentations will be case-based and include everything from the simple to complex fractures. Strategies will focus on the latest decision-making and fixation options to maximize outcomes.

**Challenging Issues in Tibia Plateau Fractures**Moderator: *William T. Obrebsky, MD*Faculty: *Chad Matthew Corrigan, MD*  
*Clay A. Spitler, MD*  
*Matthew L. Graves, MD***Learning Objectives**

- Understand techniques and philosophy to avoid complications
- Review approaches and techniques for reducing difficult articular injuries
- Know associated injuries and understand indications for locking fixation

**Description**

Complex tibial plateau fractures as well as techniques for reduction and support of these fractures will be reviewed. Specific emphasis will be on unusual/complex fracture patterns i.e. bicondylar, posterior shear, segmental fractures etc. We will review current philosophy, literature, and techniques to minimize complications and improve outcomes.

**All Things Hip: Young, Old, Fix, Replace – What Does the Latest Evidence Tell Us to Do?**Moderator: *Niloofar Dehghan, MD*Faculty: *Emil H. Schemitsch, MD*  
*Michael D. McKee, MD, FRCS*  
*Prism Schneider, MD, PhD*  
*Lisa K. Cannada, MD***Learning Objectives**

- Discuss the need for open and closed reduction techniques for treatment of young patient with femoral neck fracture. Does open reduction have better outcomes?
- Discuss evidenced based treatment of femoral neck fractures in the elderly in terms of arthroplasty (THA or hemi) and fixation (DHS or cannulated screws).
- Discuss evidenced based treatment of pertrochanteric hip fractures: which fractures can be treated with a DHS, which fractures

## SATURDAY, October 3, 2020, continued

6:30 AM -  
7:30 AM

### All Things Hip, cont'd

need a nail, do we really need to use log nail?

#### Description

This symposium focuses on the latest evidence and publications for surgical treatment of hip fractures in young and elderly patients. We will review up to date evidence for hip fracture fixation techniques, and discuss which mode of fixation leads to best outcomes. We will also discuss hip arthroplasty and if there are better outcomes with total or hemi arthroplasty.

### Diversity and Inclusion in Orthopaedic Trauma

Moderator: *Joseph R. Hsu, MD*

Faculty: *Hassan Riaz Mir, MD, FACS*

*Paul B. Gladden, MD*

*Heather A. Vallier, MD*

*Anna Noel Miller, MD, FACS*

#### Learning Objectives

- Define the problem of lack of diversity among orthopaedic trauma surgeons.
- Discuss impact of improving diversity in the subspecialty on surgeons as well as patients.
- Identify practical solutions to execute this in own practice.

#### Description

Orthopaedic surgery has lagged behind other medical specialties in the recruitment and promotion of underrepresented minorities to include women; orthopaedic trauma has done even worse than many orthopaedic subspecialties in recruiting and promoting diverse surgeons. Data suggests that increased diversity in physicians decreases disparities in care. This panel will define the problem, describe opportunities to improve both quality of care for patients and for surgeons and other team members, and provide practical and actionable solutions to execute this in our own divisions, departments, and specialty.



7:30 AM -  
9:00 AM

### SYMPOSIUM III:

### Augmentation of Fracture Repair: Is Anything Ready for Prime Time?

Moderator: *Emil H. Schemitsch MD*

Faculty: *William T. Obremsky, MD, MPH*

*Aaron Nauth, MD*

*Brett D. Crist, MD*

*Michael J. Gardner, MD*

*J. Tracy Watson, MD*

*Anna Noel Miller, MD*

#### Learning Objectives

- To understand shifting views regarding the augmentation of fracture repair.
- To evaluate the recent evidence that has challenged traditional thinking regarding management of fracture healing problems.
- To achieve consensus regarding best evidence for surgical management of non-unions with and without associated bone defects.

#### Description

A primary goal of the symposium will be to achieve consensus opinions on many current issues and controversies regarding the augmentation of fracture repair and non-union management. The recent evidence that has challenged traditional thinking regarding management of fracture healing problems will be evaluated.

9:00 AM - 9:30 AM Break / Breakfast

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## SATURDAY, October 3, 2020, continued

9:30 AM - **PAPER SESSION VII:**  
10:33 AM **Randomized Control Trials and Other Prospective Studies II**  
Moderator: *Kelly A. Lefavre, MD, FRCSC*

9:30 AM - **PAPER 110**  
9:36 AM **How Successful is Antibiotic Treatment for Superficial SSIs Following Open Fracture? A XX Trial Cohort Secondary Analysis**  
**Carlos Prada, MD, MHA;**  
*Stephanie Lewis Tanner, MS;*  
*Francesc Antoni Marcano Fernandez, MBA, MD;*  
*Sofia Bzovsky, MSc;*  
*Emil H. Schemitsch, MD;*  
*Kyle James Jeray, MD;*  
*Brad Petrisor, MD; Mohit Bhandari, MD, FRCSC, PhD; Sheila Sprague, PhD*

9:36 AM - **PAPER 111**  
9:42 AM **Timing and Management of Surgical Site Infections in Patients with Open Fracture Wounds: A X Cohort Secondary Analysis**  
**Carlos Prada, MD, MHA;**  
*Francesc Antoni Marcano Fernandez, MBA, MD; Emil H. Schemitsch, MD;*  
*Sofia Bzovsky MSc; Kyle James Jeray, MD;*  
*Brad Petrisor, MD;*  
*Mohit Bhandari, MD, FRCSC, PhD;*  
*Sheila Sprague, PhD; FLOW Investigators*

9:42 AM - **PAPER 112**  
9:48 AM **What Factors Increase Revision Surgery Risk When Treating Displaced Femoral Neck Fractures with Arthroplasty: A Secondary Analysis of the XX Trial**  
**Michael Blankstein, MD, FRCSC;**  
*Emil H. Schemitsch, MD; Sofia Bzovsky, MSc;*  
*Rudolf W. Poolman, MD, PhD;*  
*Frede Frihagen, MD; Daniel Axelrod, MD;*  
*Diane Heels-Ansdell, MSc;*  
*Mohit Bhandari, MD, FRCSC, PhD;*  
*Sheila Sprague, PhD;*  
*Patrick Christopher Schottel, MD;*  
*HEALTH Investigators*

9:48 AM Discussion

9:53 AM - **PAPER 113**  
9:58 AM **Venous Thromboembolism in Hip Fracture Patients: A Sub-Analysis of the X and Y Trials**  
**David Robert Walker Macdonald;**  
*David William Neilly, FRCS (Ortho), MBCHB;*  
*Prism Schneider, MD, PhD;*  
*Sofia Bzovsky MSc; Sheila Sprague, PhD;*  
*Daniel Axelrod, MD;*  
*Rudolf W. Poolman, MD, PhD;*  
*Frede Frihagen, MD; Mohit Bhandari, MD, FRCSC, PhD; Marc F. Swiontkowski, MD;*  
*Emil H. Schemitsch, MD;*  
*Iain Stevenson, FRCS (Ortho), MBCHB;*  
*FAITH Investigators; HEALTH Investigators*

9:58 AM - **PAPER 114**  
10:04 AM **Predictors of Medical Serious Adverse Events in Hip fracture Patients: A Sub-Analysis of the XX Trial**  
**David William Neilly, FRCS (Ortho), MBCHB;**  
**David Robert Walker Macdonald;**  
*Sheila Sprague, PhD; Sofia Bzovsky, MSc;*  
*Daniel Axelrod MD; Rudolf W. Poolman, MD, PhD; Frede Frihagen, MD;*  
*Diane Heels-Ansdell, MSc;*  
*Mohit Bhandari, MD, FRCSC, PhD;*  
*Emil H. Schemitsch, MD;*  
*Iain Stevenson, FRCS (Ortho), MBCHB;*  
*HEALTH Investigators*

10:04 AM - **PAPER 115**  
10:10 AM **Acetabular Fractures in Older Patients Intervention Trial (AceFIT: ISRCTN16739011); Addenbrookes, Cambridge University Hospitals NHS Foundation Trust**  
**Andrew Douglas Carrothers, FRCS (Ortho), MD;**  
*Daud Chou, FRCS (Ortho), MBBS, MSc;*  
*Jaikirty Rawal, FRCS, MA, MBBS;*  
*Joseph Martin Queally, MD;*  
*Peter Hull, FRCS (Ortho), MBCHB*

10:10 AM Discussion



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## SATURDAY, October 3, 2020, continued

- 10:15 AM - **PAPER 116**  
10:21 AM **One Year Results of a Prospective Randomized Controlled Trial of Operative versus Nonoperative Fixation of Minimally Displaced Lateral Compression Pelvis Fractures: Secondary Analysis of Previously Reported Short Term Results**  
**Gerard Slobogean, MD, MPH, FRCSC;**  
*Greg E. Gaski, MD;*  
*Jason Warren Nascone, MD;*  
*Marcus F. Sciadini, MD; Roman Natoli, MD;*  
*Theodore Thomas Manson, MD;*  
*Christopher T. LeBrun, MD;*  
*Todd Owen McKinley, MD;*  
*Walter W. Virkus, MD; Anthony T. Sorkin, MD;*  
*Krista M. Brown, MS; Andrea Lynn Howe, BS;*  
*Joshua Rudnicki, BS;*  
*Blessing Enobun, MBBS, MPH;*  
*Nathan N. O'Hara, MHA;*  
*Robert V. O'Toole, MD*
- 10:21 AM - **PAPER 117**  
10:27 AM **General Health Outcomes for Operative Versus Nonoperative Treatment of Acute, Unstable Chest Wall Injuries: Results from a Previous Randomized Controlled Trial**  
**Christine Schemitsch, BS; Aaron Nauth, MD;**  
*Michael D. McKee, MD, FRCSC;*  
*Emil H. Schemitsch, MD;*  
*Milena Vicente, RN; Richard Jenkinson, MD;*  
*Hans J. Kreder, MD;*  
*Niloofer Dehghan, MD, FRCSC, MSc*
- 10:27 AM Discussion

10:33 AM - **PAPER SESSION VIII:**  
11:35 AM **Pelvis and Acetabulum**  
Moderator: *David J. Hak, MD*

- 10:33 AM - **PAPER 118**  
10:39 AM **Transverse Posterior Wall Fractures are at High-Risk for Conversion Total Hip Arthroplasty After Acetabular Fracture Fixation**  
**Kyle Cichos, BS; Elie S. Ghanem, MD;**  
*Jonathan H. Quade MD;*  
*Gerald McGwin, PhD;*  
*Clay A. Spitler, MD*
- 10:39 AM - **PAPER 119**  
10:45 AM **Predictors of Early Post-Traumatic Arthritis Secondary to Open Reduction and Internal Fixation of the Acetabulum**  
**Robert Matar, MD, MS; Tyler Ames, MD;**  
*Shayan A. Farahani, MS;*  
*Michael T. Archdeacon, MD;*  
*Theodore Toan Le, MD*
- 10:45 AM - **PAPER 120**  
10:51 AM **Intrawound Antibiotic Powder in Acetabular Fracture Open Reduction Internal Fixation Does Not Reduce Surgical Site Infections**  
**Kyle Cichos, BS; Elie S. Ghanem, MD;**  
*Jonathan H. Quade, MD;*  
*Brent A. Ponce, MD; Gerald McGwin, PhD;*  
**Clay A. Spitler, MD**
- 10:51 AM - **PAPER 121**  
10:57 AM **Thrombin Hemostatic Matrix Reduces Heterotopic Ossification in Acetabular Fractures Fixed via the Kocher-Langenbeck Approach**  
*Tyler Paul Montgomery, BS;*  
*Jeffrey Pearson, MD; Abhinav Agarwal, MD;*  
*Catherine Renee Olinger, MD;*  
*Devon Rochelle Tobey, MD;*  
*Michael J. Beebe, MD, BS;*  
*Gerald McGwin, PhD; Kyle Cichos, BS;*  
*Elie S. Ghanem, MD; Clay A. Spitler, MD;*  
*Candice Nicole Dubose, MD;*  
**Jonathan H. Quade, MD**



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## SATURDAY, October 3, 2020, continued

- 10:57 AM Discussion
- 11:04 AM - **PAPER 122**  
11:10 AM **Avoiding the Barber's Chair: Emergency Department Stress Radiographs of Lateral Compression Type 1 Pelvic Ring Injuries**  
**Graham John Dekeyser**; Patrick Kellam, MD;  
Lucas Scott Marchand, MD;  
Thomas F. Higgins, MD;  
Justin Haller, MD;  
David Lynn Rothberg, MD
- 11:10 AM - **PAPER 123**  
11:16 AM **Unilateral Sacral Fractures Demonstrate Slow Recovery of PROMs Irrespective of Treatment**  
**Brian Mullis, MD**; Paul Tornetta III, MD;  
Julie Agel ATC; Heather A. Vallier, MD;  
Jason Allen Lowe, MD;  
Anna Noel Miller, MD, FACS;  
Saam Morshed, MD;  
Theodore Miclau III, MD;  
Laurence Kempton, MD;  
Darin M. Friess, MD;  
Joshua Layne Gary, MD;  
Clay A. Spitler, MD;  
Clifford B. Jones, MD, FACS;  
Ross K. Leighton, MD; David C. Teague, MD;  
Jessica Schisel, BA
- 11:16 AM - **PAPER 124**  
11:22 AM **Morbid Obesity Negatively Impacts Short-Term Complications After Operative Pelvic Ring Fracture Treatment**  
**Mohamad Shaath, MD**;  
Annat Rabinovich, BS;  
Milton L. Routt, MD
- 11:22 AM - **PAPER 125**  
11:28 AM **Quantifying Urinary and Sexual Dysfunction Following Pelvic Fracture**  
**Kelly Ann Lefaivre, MD**; Pierre Guy, MD;  
Peter Joseph O'Brien, MD, FRCSC;  
Henry M. Broekhuysen, MD
- 11:28 AM Discussion

10:35 AM -  
11:35 AM**CONCURRENT BREAKOUT SESSIONS****The Syndesmosis: Getting it Right**

Moderator: Cyril Mauffrey, MD

Faculty: Joshua A. Parry, MD

Stephen Stacey, MD

David J. Hak, MD

Michael J. Gardner, MD

**Learning Objectives**

- Learn techniques for syndesmosis reduction and fixation.
- Learn how to avoid syndesmosis malreduction
- Learn why syndesmotic reduction matters.

**Description**

To many surgeons and trainees the syndesmosis remains a mystery. Syndesmotic malreduction is commonplace and may significantly impair patient outcomes. This symposium will address how to maximize your chances of an anatomic reduction, discuss fixation techniques, and what to do when fixation/reduction doesn't go as planned.

**Shoulder Girdle Injuries: Optimizing Decision Making and Surgical Management**

Moderator: Michael D. McKee, MD, FRCSC

Faculty: Peter A. Cole, MD

Jeremy Hall MD, FRCS (ORTHO)

Niloofer Dehghan, MD, FRCSC

Aaron Nauth, MD

**Learning Objectives**

- How to determine which clavicle fractures and shoulder girdle injuries need surgery
- How to optimize fixation of shoulder girdle injuries when surgery is indicated
- How to manage complications following shoulder girdle surgery

**Description**

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. The symposium will allow registrants to determine which injuries need surgery, optimize fixation when surgery is indicated and manage complications.

## SATURDAY, October 3, 2020, continued

10:35 AM - **CONCURRENT BREAKOUT SESSIONS, cont'd**  
11:35 AM **Difficult Decisions in the Critically Unwell Trauma Patient**

Moderator: *Benjamin Ollivere, MD, FRCS (Ortho)*  
Faculty: *Heather A. Vallier, MD*  
*Daren Forward, MD*  
*Michael J. Bosse, MD*

### Learning Objectives

- Outline different management strategies in the critically unwell polytraumatized patient
- Understand different approaches to management of key critical injuries including pelvis, chest, compartment syndrome and the mangled extremity.
- Understand how to optimise surgical decision making to improve outcomes

### Description

Time critical decision making in the critically unwell trauma patient are challenging. Comprehensive assessment of the patients physiology and development of a cohesive management plan are critical to survival, whilst maximising function. Specific issues to be addressed include a debate on early total care, damage control and early appropriate care. Controversies surrounding management of the open pelvic fracture and management of compartment syndrome in the unconscious patient will be explored. Assessment of the mangled extremity and severe chest injury and how and when to operate will be through worked case examples and panel discussion.

### Lower Extremity Osteotomies-Learning When and How to Make Them Work

Moderator: *Brett D. Crist, MD*  
Faculty: *Mark A. Lee, MD*  
*Mitchell Bernstein, MD*  
*Mauricio Kfuri, MD, PhD*

### Learning Objectives

- Recognize how to evaluate lower extremity deformity.
- Utilize lower extremity osteotomy techniques based on anatomical location, and deformity type.

- Identify how to avoid complications associated with osteotomies.

### Description

Participants will learn how to evaluate lower extremity deformities, and learn multiple techniques for femoral and tibial osteotomies-- periarticular and diaphyseal, and how to avoid complications. Some of the techniques to be discussed include clam shell, mathematically directed, rotational, and frame- and nail-assisted.

11:35 AM - **Lunch**  
12:45 PM

11:50 AM - **Lunch Poster & Video Tours**  
12:30 PM **Hip/Femur**  
**Knee/Tibia**

## 12:45 PM - **SYMPOSIUM IV:** 2:15 PM **Tolerate or Re-Operate:** **What to Do the Day After?**

Moderator: *Hans-Christoph Pape, MD*  
Faculty: *Miguel Alvaro Triana, MD*  
*Leonardo Lopez Almejo, MD*  
*Francisco Chana Rodríguez, MD, PhD*  
*Yoram A. Weil, MD*  
*Bertil Bouillon, Prof, Dr.*  
*Michael Verhofstad, MD, PhD*  
*Guy Putzeys, MD*

### Learning Objectives

- To understand principal criteria to evaluate the results of specific fracture treatments, arguments for and against revision surgery, and differences that may exist in different countries' practices
- To outline principles of revision surgery and likely outcomes in individual patients with specific fractures
- To highlight surgical approaches and tips and tricks for successful revision surgery

### Description

Surgeons constantly need to decide whether fracture reduction and fixation is satisfactory. This symposium seeks to define what is acceptable post-fixation and approaches to managing challenging problems, taking into account specific fractures, patient factors, and available resources.

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## SATURDAY, October 3, 2020, continued

2:15 PM - **PAPER SESSION IX:**  
3:23 PM **Hip/Femur**  
Moderators: *Edward J. Harvey, MD*  
*Prism Schneider, MD, PhD*

2:15 PM - **PAPER 126**  
2:21 PM **Implementation of a Novel MRI Protocol for Diagnosing Femoral Neck Fractures in High Energy Femur Fractures: One Year Outcomes**  
**Nathan Brian Rogers, MD;**  
*Manickam Kumaravel, FRCS, MD;*  
*Joshua Layne Gary, MD;*  
*John Wesley Munz, MD;*  
*Timothy S. Achor, MD;*  
*Andrew Moon Choo, MD;*  
*Milton L. Routt MD;*  
*Stephen James Warner, MD, PhD*

2:21 PM - **PAPER 127**  
2:27 PM **Does Fixation Implant or Vitamin D Supplementation Improve Patient Reported Function & Quality of Life in Young Femoral Neck Fractures? Results from the FAITH-2 Trial**  
*FAITH-2 Trial Investigators;*  
**Gerard Slobogean, MD, MPH, FRCSC**



2:27 PM - **PAPER 128**  
2:33 PM **Outcomes of Fifty-one Femoral Neck Fractures in Young Adults Treated with a “Medial” Buttress Plate to Augment Traditional Fixation**  
**Cory Alan Collinge, MD;**  
*Hassan Riaz Mir, MD, FACS, MBA;*  
*Michael T. Archdeacon, MD;*  
*Michael John Beltran, MD;*  
*Michael J. Gardner MD;*  
*Paul Tornetta III, MD;*  
*John Alan Scolaro, MD;*  
*John P. Ketz, MD; Jaimo Ahn, MD, PhD;*  
*Stephen A. Sems, MD; Chad Coles, MD;*  
*Brett D. Crist, MD;*  
*Andres Felipe Rodriguez-Buitrago, MD;*  
*Kyle James Jeray, MD;*  
*Patrick F. Bergin, MD; Joseph R. Hsu, MD;*  
*Andrew H. Schmidt, MD;*  
*Jesse Patton Robinette, MD;*  
*Walter W. Virkus, MD; Brian Mullis, MD;*  
*Timothy G. Weber, MD;*  
*Daniel Scott Horwitz, MD;*  
*Robert A. Hymes MD*

2:33 PM - **PAPER 129**  
2:39 PM **Does Distal Locking of Intertrochanteric Fractures Treated with Long Intramedullary Nails Enhance Functional Recovery?**  
*Hamid R. Mostafavi, MD;*  
**Lulu Wanlu Li BS; Paul Tornetta III, MD**

2:39 PM Discussion

2:46 PM - **PAPER 130**  
2:52 PM **A Comparison of Cemented versus Uncemented Hemiarthroplasty Outcomes in a Large US Integrated Health-Care System**  
**Kanu M. Okike, MD, MPH;**  
*Priscilla Hannah Chan, MS;*  
*Heather Ann Prentice, PhD; Liz Paxton, MA;*  
*Robert Alan Burri, MD*



## SATURDAY, October 3, 2020, continued

2:52 PM - **PAPER 131**  
2:58 PM **Long-Term Patient Reported Outcomes After Total Hip Arthroplasty for Displaced Hip Fractures**  
*Scott Middleton, MD;*  
**Rosemary Jane Hackney, MBBS;**  
*Neil David McNiven, MD;*  
*Raymond E. Anakwe, FRCS (Ortho), MBCHB;*  
*Paul John Jenkins, FRCS (Ortho), MBCHB, MD;*  
*Stuart Aitken, MD; John F. Keating;*  
*Matthew Moran, MSc, FRCS (Ortho)*

2:58 PM - **PAPER 132**  
3:04 PM **Outcomes After fixation of Vancouver B-Type Periprosthetic Fractures with Loose Stems**  
**Ameen Barghi, MD;** *Philip Hanna, MD;*  
*Nelson Merchan, MD; Aron Lechtig, MD;*  
*Michael John Weaver, MD;*  
*John J. Wixted MD;*  
*Paul T. Appleton MD;*  
*Edward Rodriguez MD*

3:04 PM - **PAPER 133**  
3:10 PM **"You Have to Wait 48hrs" or Do We Really? No Difference in Mortality or Complication Rate for Patients on Direct Factor Xa Inhibitors Undergoing Hip Fracture Surgery**  
**John Michael Yingling, DO;** *David Keller, DO;*  
*Deborah Li, BA; John Joseph Feldman, MD;*  
*Li Sun, DO; Frank A. Liporace, MD;*  
*Richard S. Yoon, MD*

3:10 PM - **PAPER 134**  
3:16 PM **Evaluation of International Normalized Ratio (INR) Thresholds for Complications in Hip Fractures Treated with Intramedullary Nailing: Analysis of 20,800 Cases**  
**Jerry Y. Du, MD;** *Nikunj Trivedi, MD;*  
*Noah Joseph, MD; Isaac Lapite;*  
*Heather A. Vallier, MD;*  
*George Ochenjele, MD*

3:16 PM Discussion



## MISSION STATEMENT

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

## VISION STATEMENT

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

## VALUE STATEMENT

The OTA is adaptable, forward thinking and fiscally responsible and is composed of a diverse worldwide 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.

## ACCREDITATION and CME CREDIT

The Orthopaedic Trauma Association (OTA) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians. OTA designates this live activity for a maximum of **20.75 AMA PRA Category 1 Credit(s)<sup>™</sup>**. Physicians should claim only the credits commensurate with the extent of their participation in the activity.

## CME MISSION STATEMENT

The mission of the Orthopaedic Trauma Association 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. We will plan, manage and evaluate evidence-based educational activities that enhance participant competence, performance and patient outcomes employing needs assessment data and identified professional education gaps. CME activities will consist of carefully planned programs based on adult learning principles, including live CME activities and enduring materials. It is expected that participants in these CME activities integrate what they learn into their practice to improve their competence and performance in areas of patient care, patient safety and professional practice.

## DISCLAIMER

The material presented at the 36th 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.

OTA disclaims any and all liability for injury or other damages resulting to any individual attending this event 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.

## PHILOSOPHY

In order to promote transparency and confidence in the educational programs and in the decisions of the Orthopaedic Trauma Association (hereinafter referred to as "OTA"), the OTA Board of Directors has adopted this mandatory disclosure policy.

The actions and expressions of OTA Members and Others providing education of the highest quality or in shaping OTA policy must be as free of outside influence as possible, and any relevant potentially conflicting interests or commercial relationships must be disclosed. Because the OTA depends upon voluntary service by Members to conduct its educational programs and achieve its organizational goals, this disclosure policy has been designed to be realistic and workable.

The OTA does not view the existence of these interests or relationships as necessarily implying bias or decreasing the value of your participation in the OTA.

## FDA STATEMENT

All drugs and medical devices used in the United States are administered in accordance with the 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 OTA 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 s/he wishes to use in clinical practice.

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### SPECIAL EVENTS

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### YOGA

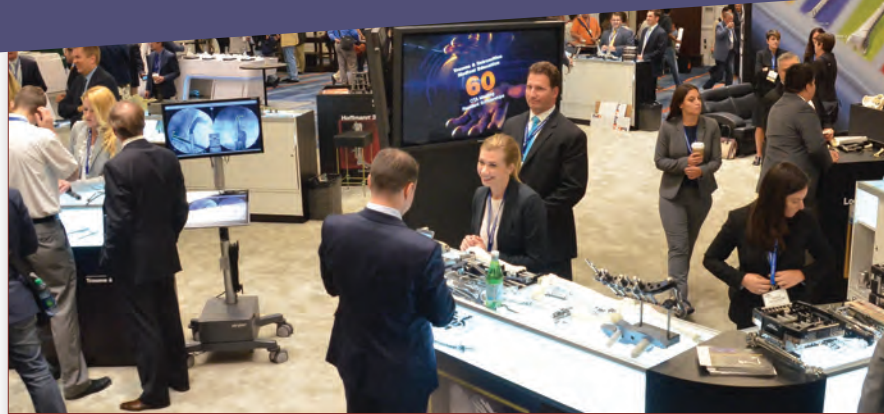
Wednesday 5:30 - 6:30 PM  
and Friday 6:15 - 7:15 PM

Research shows that exercise and the practice of some form of mindfulness is a helpful approach to reducing stress and burnout. Yoga is also a great opportunity for weight loss, flexibility, strengthening, balance and breath work. Join your fellow surgeons looking to recharge for a more positive learning experience at the Annual Meeting. GUESTS are welcome. We will provide for a trained instructor in hatha / vinyasa yoga, towel or yoga mat, and one-hour class. Instruction will be provided for the span of beginner to advanced levels.

### 6<sup>TH</sup> ANNUAL TOUR de BONE BIKE EVENT

Thursday 7:00 - 10:00 AM

Multiple studies show the benefits of aerobic exercise and learning capacity and memory. What better way to start off your OTA educational meeting! Join your fellow surgeons and GUESTS to explore these benefits. After registration, you will be contacted by SurgeonMasters with details on bike rental, fees and the organized ride. Questions? Email SurgeonMasters: paul@surgeonmasters.com



### EXHIBIT HALL HOURS

#### Thursday, October 1

2:30 PM - 5:00 PM

5:29 PM - 6:29 PM – Exhibitors' Reception

#### Friday, October 2

9:00 AM - 5:00 PM

#### Saturday, October 3

9:00 AM - 1:00 PM

### INDUSTRY SESSIONS

#### Wednesday, September 30

6:30 PM - 8:00 PM

#### Thursday, October 1

11:15 AM - 12:45 PM

#### Friday, October 2

6:30 PM - 8:00 PM

Please visit the OTA website at [ota.org](http://ota.org) for a complete listing of Industry Sessions.

