INTERNATIONAL TRAUMA CARE FORUM

Wednesday-Thursday
September 30 – October 1, 2020

Program Committee
Theodore Miclau III, MD Co-Chair
Hans-Christoph Pape, MD, FACS Co-Chair
Zsolt J. Balogh, MD, PhD
Victor de Ridder, MD, PhD, MBA
Anjan R. Shah, MD
Paul S. Whiting, MD
Robert D. Zura, MD

11.25 AMA PRA Category 1 Credits™

2020 OTA ANNUAL MEETING
September 30 – October 3, 2020

Details & Registration: ota.org

#sneakpeekNashville

Music City Center
Nashville, Tennessee

#OTA2020
OVERVIEW

The International Trauma Care Forum is focused on gathering trauma surgeons from across the globe together to exchange ideas and knowledge on the differences in treatment from a global perspective. This one and a half day session is comprised of 34 papers and 7 symposia, which include 2020 Guest Nation, Colombia and International Orthopaedic Trauma Association symposia.

Attendees of the International Trauma Care Forum will collaborate with the attendees of the Basic Science Focus Forum and exchange ideas during their joint session symposium. This combined session has proved to be a great way to come together to discuss ideas with basic science researchers.

TARGET AUDIENCE

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

LEARNING OBJECTIVES

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

- Assess current techniques of the management of patients with pelvic instability.
- Discuss the latest treatments for fracture management in geriatric patients.
- Understand the treatment options, planning, and outcomes of patients with distal tibia fractures.
- Outline all the latest upper and lower extremity fracture fixation techniques.
- Review the latest recommendations for the treatment of patients following multiple injuries.

Early Bird Registration

On/Before 8/31/20

After 8/31/20

Course Fee:

OTA Member $150

Non-Member $200

OTA Member $200

Non-Member $250

@otatrauma

@otatrauma

Register Today at ota.org
WEDNESDAY, September 30, 2020

7:30 AM - INTRODUCTION (Room 207CD)
7:35 AM Hans-Christoph Pape, MD

7:35 AM - SYMPOSIUM I
8:15 AM Humerus Fractures: Selecting Fixation for a Successful Outcome
Moderators: Hans-Christoph Pape, MD
              Michael D. McKee, MD
7:35 AM Overview
Michael D. McKee, MD
7:38 AM Nonoperative Management: Indications
Lars Mueller, MD
7:48 AM ORIF: Indications and Techniques
Stefaan J. Nijs, MD
7:58 AM Reconstruction of Humeral Nonunions
Peter Cole, MD
8:08 AM Discussion

8:15 AM - PAPER SESSION I
Upper Extremity
Moderators: Hans-Christoph Pape, MD
              Michael D. McKee, MD
8:15 AM - PAPER 30
8:21 AM Hemiarthroplasty versus Nonoperative Treatment of Comminuted Proximal Humeral Fractures: Results of the ProCon Multicenter Randomized Clinical Trial
Dennis Den Hartog; Niels Schep; Kiran Mahabier; Aron Jasper Marius De Zwart, BS; Stefaan J.B. Nijs; Michael Verhofstad MD, PhD; Esther MM Van Lieshout, PhD; Procon Investigators

8:21 AM - PAPER 31
8:27 AM Comparative Analysis of Locking Plate Osteosynthesis Versus Coracoclavicular Stabilization Using a Suture Button Device for Neer Type IIB Lateral Clavicle Fractures
Chul-Hyun Cho MD, PhD; Beom-Soo Kim, MD; Du Han Kim, PhD; Chung-Shin Bek, MD

8:27 AM - PAPER 32
8:33 AM Predictors of Humeral Diaphyseal Nonunion: NSAIDs, BMI, and Nonoperative Management Are Associated With an Increased Risk of Nonunion
William M. Oliver, MBBS, MRCSED; Henry Searle; Zhan Herr Ng; Samuel Molyneux, FRCS (Ortho), MSc; Timothy O. White MD, FRCS; Nicholas D. Clement, MRCS Ed; Andrew David Duckworth, FRCS, MBCHB, MSc, PhD

8:27 AM - PAPER 33
8:33 AM Discussion

8:39 AM - PAPER 33
8:45 AM Combined Surgical Approach of Anterior and Posterior for Ulnar Coronoid Fracture of O’Driscoll Type 3B
Heng Lisong, MD

Register Today at ota.org
## INTERNATIONAL TRAUMA CARE FORUM
September 30 – October 1, 2020  ♦  Nashville, Tennessee

### COURSE AGENDA, continued

#### WEDNESDAY, continued

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>8:45 AM</td>
<td>PAPER 34</td>
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<tr>
<td>8:51 AM</td>
<td>Machine Learning to Estimate the Probability for Fracture of the Distal Radius in Patients Presenting to the Emergency Department with Sustained Wrist Trauma</td>
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<td><strong>D.W.G. Langerhuizen, BS;</strong></td>
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<td></td>
<td>Laurent Alexander Marjin Hendrickx;</td>
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<td>Gino M. Kerkhoffs, MD, PhD;</td>
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<td>Ruurd Jaarsma, FRACS, MD, PhD;</td>
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<td>Job N. Doornberg, MS;</td>
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<td>Marjolein Mulders;</td>
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<td>J.C. Goslings, MD, PhD;</td>
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<td>Niels Schep</td>
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<td>8:51 AM</td>
<td>PAPER 35</td>
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<tr>
<td>8:57 AM</td>
<td>Do 3D Printed Hand Held Models Improve Surgeon Reliability for Recognition of Intra-Articular Distal Radius Fracture Characteristics?</td>
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<td><strong>D.W.G. Langerhuizen, BS;</strong></td>
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<td>Stein Jasper Janssen, MD;</td>
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<td>Job N. Doornberg MS</td>
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<td>8:57 AM</td>
<td>Discussion</td>
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<td>9:03 AM</td>
<td>SPECIAL INTEREST LECTURE</td>
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<td>9:17 AM</td>
<td>General Aspects of a Geriatric Fracture Care - Do We Have Evidence Based Results?</td>
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<td><strong>Carlos M. Olarte, MD</strong></td>
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<td>9:17 AM</td>
<td>Morning Break</td>
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<tr>
<td>9:32 AM</td>
<td>SYMPOSIUM II</td>
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<tr>
<td>10:12 AM</td>
<td>Pelvic Ring Injuries: Recent Advances in Diagnosis and Treatment</td>
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<td><strong>Moderators:</strong> Paul S. Whiting, MD</td>
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<td>H. Claude Sagi, MD</td>
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<td>9:32 AM</td>
<td>Overview</td>
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<td><strong>H. Claude Sagi, MD</strong></td>
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<td>9:35 AM</td>
<td>High-Energy Injuries: Stopping the Bleeding</td>
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<td><strong>Zsolt J. Balogh, MD, PhD</strong></td>
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<td>9:45 AM</td>
<td>Which Ring Injuries are Unstable?</td>
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<td><strong>Kees Jan ‘KJ’ Ponsen, MD</strong></td>
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<td>9:55 AM</td>
<td>Unstable Injuries: Selecting the Right Approach and Fixation</td>
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<td><strong>Milton L. Routt, MD</strong></td>
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<td>10:05 AM</td>
<td>Discussion</td>
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<td>10:12 AM</td>
<td>PAPER SESSION II</td>
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<td>11:16 AM</td>
<td>Pelvis and Acetabulum</td>
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<td><strong>Moderators:</strong> Paul S. Whiting, MD</td>
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<td>H Claude Sagi, MD</td>
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<td>10:12 AM</td>
<td>PAPER 36</td>
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<td>10:18 AM</td>
<td>The Safety and Effectiveness of Robot-Assisted Percutaneous Screw Fixation in Treatment of Unstable Pelvic Fractures</td>
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<td><strong>Pengfei Wang, MD;</strong></td>
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<td>Utku Kandemir, MD; Bin-Fei Zhang; Yuxuan Cong; Ping-Cheng Liu, MD</td>
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<td>10:18 AM</td>
<td>PAPER 37</td>
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<td>10:24 AM</td>
<td>SI-Screws as a Damage Control Option in High-Energy Pelvic Trauma – An Option in Hemodynamically Unstable Patients?</td>
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<td><strong>Simon Tiziani; Adrian Knoepfe;</strong></td>
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<td>Hans-Christoph Pape, MD</td>
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<td>Valentin Neuhaus, MD</td>
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*indicates ‘Best of the Best’
WEDNESDAY, continued

10:24 AM - PAPER 38
10:30 AM
High-Energy Blunt Pelvic Ring Injuries and Intra-pelvic Arterial Lesions
Anna-Elian Abboud;
Sana Boudabbous;
Elisabeth Andereggen;
Axel Gamulin, MD

10:30 AM - PAPER 39
10:36 AM
Dynamic Testing for Occult Pelvic Ring Instability Lacks Standardization and Reproducibility
Adam K. Lee, MD; Douglass Tucker, BS;
Geoffrey Marecek, MD;
Cory Alan Collinge, MD

10:36 AM Discussion

10:44 AM - PAPER 40
10:50 AM
Does the Implant Failure of Symphysis Plating After Symphysis Ruptures Lead to a Worse Outcome?- A Long Term Follow-Up
Philipp Pieroh, MD; Eva Knorr, MD;
Georg Osterhoff, MD;
Ulrich J.A. Spiegl, MD; Andreas Hinz;
Johannes Fakler, MD;
Andreas Höch, MD

10:50 AM - PAPER 41
10:56 AM
Combined Pelvic Ring and Acetabular Fractures: Treatment, Complications and Outcomes
Will Robert Kitchen, BA;
Rachael Clegg, MBCHB;
Hussein Taki, MBCHB, MRCS;
Elizabeth Shirland, RN;
Jaikirty Rawal, FRCS (Ortho), MA, MBBS;
Peter Hull, FRCS (Ortho), MBCHB;
Andrew Douglas Carrothers, FRCS (Ortho), MD;
Daud Chou, FRCS (Ortho), MBBS, MSc

10:56 AM - PAPER 42
11:02 AM
The Indications for Acute Total Hip Arthroplasty in Elderly Patients with Acetabular Fracture: A Systematic Review and Meta-Analysis of Current Situation
Bin-Fei Zhang; Pengfei Wang, MD;
Yan Zhuang

11:02 AM - HUMANITARIAN SCHOLAR
11:08 AM
Ethiopia

PAPER 43
Patient-Reported Outcome Measures of Surgically Treated Acetabular Fractures Without C-Arm in Ethiopia
Samuel Haiul, MD;
Amanuel Leulseged Wolde, MD;
Shikuria Lemma Nida;
Samuel Tesfaye Shiferaw, MD;
Jonathan Yates, MBCHB, MRCS

11:08 AM Discussion

11:16 AM - KEY NOTE LECTURE
11:30 AM
Surgical Approaches in Tibial Plateau Fractures
Rodrigo Pesantez, MD

11:30 AM Proceed to Room 106 ABC

11:35 AM - 12:30 PM JOINT INDUSTRY LUNCH
ZIMMER BIOMET
Solutions for the Treatment of Humeral Fractures
Speaker (tentative): TBD
Box Lunch Provided by OTA

12:30 PM Return to Room 207CD

Register Today at ota.org
COURSE AGENDA, CONTINUED

INTERNATIONAL TRAUMA CARE FORUM
September 30 – October 1, 2020  ●  Nashville, Tennessee

WEDNESDAY, continued

12:35 PM - SYMPOSIUM III
1:15 PM  Tibial Nailing: Pushing the Limit
    Moderators: Zsolt J. Balogh, MD, PhD
                Phil Wolinsky, MD

12:35 PM  Overview
    Phil Wolinsky, MD

12:38 PM  Proximal Fractures: Challenges, Tricks and Outcomes
    Christian Krettek, MD, FRACS

12:48 PM  Midshaft Segmental Fractures: Benefits and Limits
    Sean E. Nork, MD

12:58 PM  Distal Fractures: Is Nailing Superior?
    Guy Putzeys, MD

1:08 PM  Discussion

1:15 PM - PAPER SESSION III
2:03 PM  Lower Extremity
    Moderators: Zsolt J. Balogh, MD, PhD
                Phil Wolinsky, MD

1:15 PM - PAPER 44
1:21 PM  Rehabilitation Strategy After Nonsurgical Treatment of Achilles Tendon Rupture: UKSTAR, a Multicenter Randomized Controlled Trial and Economic Evaluation
    Matthew L. Costa, FRCS; Juul Achten, PhD, MSc; Ioana Marian, MSc; Benjamin Ollivere, MD, FRCS (Ortho), MA, MBBS; Susan Dutton, MSc; Mandy Maredza, PhD; Stavros Petrou; Rebecca Kearney, PhD

1:21 PM - PAPER 45
1:27 PM  Improved Reduction and Alignment of Distal Third Tibial Fractures with Suprapatellar Intramedullary Nailing
    Matthew Hague, MBCHB; Dominic Xavier Texeira; Thomas Richard Edward Anderson, MBBS; Michael Williamson, MD; Alex Trompeter

1:27 PM - PAPER 46
1:33 PM  Minimally invasive Surgical (MIS) Operative Outcomes Compared with Nonoperative Treatment of Displaced Intra-Articular Calcaneal Fractures (DIACF): Early Results
    Imogen Chappelow, MBCHB; Theodore Howard, MBBS; Ines Lore Hildegard Reichert, FRCS (Ortho), MD, Ph.D; Raju Ahluwalia, FRCS (Ortho)

1:39 PM - PAPER 47
1:45 PM  Treatment Patterns for the Management of Open Tibial Shaft Fractures in Latin America
    Patrick Albright, BS, MS; Madeline Mackechnie, MSc; Heather Roberts, MD; David Shearer, MD, FAAOS; Luis Padilla, MD; Julio Segovia, MD; Jose Eduardo Quintero, MD; Rafael Eduardo Amadei, MD; Fernando B. Reis, FACS; Saam Morshed, MD; Theodore Miclau, MD

indicates ‘Best of the Best’
INTERNATIONAL TRAUMA CARE FORUM
September 30 – October 1, 2020  ♦  Nashville, Tennessee

WEDNESDAY, continued

1:45 PM - 1:51 PM  PAPER 48
Two-stage Orthoplastic Debridement of Type IIIB Open Tibial Shaft Fractures is Protective of Acute Compartment Syndrome
Khalid Al-Hourani, MD; Michael Thomas Stoddart, MBBS; Umraz Khan; Michael Kelly, MBBS, MD, FRCS (Ortho)

1:51 PM - 1:57 PM  HUMANITARIAN SCHOLAR
Pakistan
PAPER 49
Outcomes of Early Intramedullary Nailing in Open Tibia Fractures In Low And Middle Income Countries
Faseeh Shahab, MD; Shahab Ud Din; Lewis G. Zirkle, MD

1:57 PM  Discussion

2:03 PM - 2:06 PM  Overview
Theodore Miclau III, MD

2:06 PM  Surgical Approaches in Pilon Fractures
Rodrigo F. Pesantez, MD

2:14 PM  Preventing Complications: Pre- and Post-op Strategies
S. Kottmeier

2:22 PM  ORIF vs. Fusion: What are the Indications?
Kodi E. Kojima, MD

2:30 PM  Complex Open Pilon Fractures: Limb Salvage vs. Amputation
Carlos M. Olarte, MD

2:38 PM  Discussion

2:45 PM - 3:27 PM  PAPER SESSION IV
General Interest
Moderators: Theodore Miclau III, MD; Florian T. Gebhard, MD, PhD

2:45 PM - 2:51 PM  PAPER 50
Very Distal Femoral Periprosthetic Fractures: Replacement Versus Fixation, a Systematic Review
Luc Rubinger, MD; Hassaan Abdel Khalik, BS; Aaron M. Gazendam, MD; Jesse Isaac Wolfstadt, MD; Amir Khoshbin, MD; Daniel Tushinski, BA, FRCSC, MD; Herman Johal, MD
COURSE AGENDA, CONTINUED
INTERNATIONAL TRAUMA CARE FORUM
September 30 – October 1, 2020  •  Nashville, Tennessee

WEDNESDAY, continued

2:51 PM - 2:57 PM  PAPER 51
Implementation of a Mobile App for Trauma Education: Results from a Multicenter Study
Benjamin Randolph Childs, BS; Brendan Andres, BA; Mary Alice Breslin, BA; Mai P. Nguyen, MD; Natasha Simske, BS; Paul S. Whiting, MD; Aswinkumar Vasireddy, MBBS; Heather A. Vallier, MD

2:57 PM  Discussion

3:03 PM - 3:09 PM  PAPER 52
Female Gender and Consultant Care are Predictive of Not Receiving Protocolled Post-Op Assessment in Orthopaedic Trauma: Case Study of 249 Patients Undergoing Intramedullary Nailing for Tibial Shaft Fractures
Laurent Alexander Marijn Hendrickx; James Virgin, MD; Job N. Doornberg, MS; Gino M. Kerkhoffs, MD, PhD; Ruurd Jaarsma, FRACS, MD, PhD

3:09 PM - 3:15 PM  HUMANITARIAN SCHOLAR
Kenya
PAPER 53
Can a Standardized “Squat-and-Smile” Assessment Avoid X-ray Check and Increase Follow-up Rate of Trauma Patients in Hardship Areas?
Daniele Sciuto

3:15 PM - 3:21 PM  PAPER 54
Adolescent Clavicle Fractures: Epidemiology and Risk of Re-intervention following Non-Operative Management
Jamie A. Nicholson, MBCHB, MRCSED; Nathan Ng, MBCHB; Pengchi Chen; Liam Yapp MBCHB, MRCSED; Mark Gaston, MB, ChB; Christopher M. Robinson, MD

3:27 PM  Proceed to Room 106 ABC

3:40 PM - 4:45 PM  JOINT SESSION V
Polytrauma: Update on Basic Science and Clinical Evidence
Moderators: Aaron Nauth, MD
Hans-Christoph Pape, MD

3:40 PM  Polytrauma: What is True and What is New?
Hans-Christoph Pape, MD

3:50 PM  The Significance of Inflammation in Polytraumatized Patients
Todd McKinley, MD

4:00 PM  Early Neutrophil Changes in Polytrauma Patients and its Prognostic Relevance
Luke PH Leenen, MD, PhD, FACS

4:10 PM  Management of Major Fractures in Polytrauma, What Does the Clinical Literature Tell Us?
Frank Hildebrand, MD

4:20 PM  Putting it all Together, When You Should Intervene Based on What We Know Now!
Heather Vallier, MD

4:30 PM  Discussion

4:45 PM  Adjourn for the Day

4:50 PM - 6:00 PM  INTERNATIONAL RECEPTION
(Davison BR Foyer)
With special thanks and support from

3M + KCI

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### Thursday, October 1, 2020

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<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
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<tr>
<td>7:30 AM</td>
<td>INTRODUCTION (Room 207CD)</td>
<td>Theodore Miclau III, MD</td>
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<tr>
<td>7:35 AM</td>
<td>SYMPOSIUM VI</td>
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<tr>
<td>7:35 AM</td>
<td>Hip Fracture Management: Optimizing Outcomes</td>
<td>Victor de Ridder, MD, PhD; Stephen L. Kates, MD</td>
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<tr>
<td>7:35 AM</td>
<td>Overview</td>
<td>Stephen L. Kates, MD</td>
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<td>7:38 AM</td>
<td>Developing an Orthogeriatric Program: Key Steps</td>
<td>Martin J. Heetveld, MD, PhD</td>
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<td>7:48 AM</td>
<td>Multicenter Studies: Is There Enough Evidence to Change Practice?</td>
<td>Marc Swiontkowski, MD</td>
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<tr>
<td>7:58 AM</td>
<td>Hip Fracture Augmentation: Techniques and Outcomes</td>
<td>Carlos M. Olarte, MD</td>
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<td>8:08 AM</td>
<td>Discussion</td>
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<td>8:18 AM</td>
<td>PAPER SESSION VI</td>
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<td>8:18 AM</td>
<td>Geriatric</td>
<td>Victor de Ridder, MD, PhD; Stephen L. Kates, MD</td>
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<td>8:18 PM</td>
<td>PAPER 55</td>
<td>Chinyelu Menakaya, MB, BS, MRCS RCSEng; Liza Osagie Clouard, MBBS, MD; Turab Arshad Syed, MBBS</td>
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<tr>
<td>8:24 AM</td>
<td>Orthogeriatric Trauma Units Improve Patient Outcomes in Geriatric Hip Fracture Patients</td>
<td>Henk Jan Schuijt, MD, MSc; Jip Kusen, BS; Jan Jonas Van Hernen, MD; Olivia Geraghty, ACNP-BC, ATC, BA, BOC, BOCO, BOCP, BS; B; Diederik Pieter Johan Smeeing; Detlef Van Der Velde, MD, PhD</td>
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<td>8:30 AM</td>
<td>PAPER 57</td>
<td>Orthogeriatric Co-Management for Hip Fractures. Can Small Changes Make a Big Difference?</td>
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<td>8:36 AM</td>
<td>Discussion</td>
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<td>8:46 AM</td>
<td>PAPER 58</td>
<td>The Impact of Nail Canal Ratio on Postoperative Early Excessive Neck Shortening After Intramedullary Nailing of Trochanteric Fracture: A Retrospective Cohort Study</td>
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<td>8:52 AM</td>
<td>Relationship Between Clinical Results and Reduction in Femoral Trochanteric Fractures Treated with Proximal Femoral Nail Antirotation (PFNA)-II</td>
<td>Etsuo Shoda, MD; Shimpei Kitada; Takahiro Niikura MD, PhD; Keisuke Oe, MD, PhD; Atsushi Sakurai, MD; Takeharu Sasaki, MD</td>
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THURSDAY, continued

8:58 AM - 9:04 AM  PAPER 60  Factors Associated with Mortality Following Surgical Management of Hip Fractures  
Sofia Bzovsky, MSc;  
Emil H. Schemitsch, MD;  
Marc F. Swiontkowski, MD;  
Diane Heels-Ansdell, MSc;  
Frede Frihagen, MD;  
Mohit Bhandari, MD, FRCSC, PhD;  
Sheila Sprague, PhD;  
FAITH Investigators;  
HEALTH Investigators

9:04 AM  Discussion

9:14 AM  Morning Break

9:34 AM - 10:54 AM  IOTA SYMPOSIUM VII

IOTA - Open Fractures: Current Treatment Perspectives

Moderators:  
Theodore Miclau III, MD  
Yun Tian, MD  
Sushrut Babhulkar, MD

9:34 AM  Overview  
Theodore Miclau III, MD

9:39 AM  Antibiotic Administration: Type, Timing, and Route  
Hiroaki Minehara, MD

9:50 AM  Surgical Timing: Which Fractures, What Time?  
Rafael Amadei, MD

10:01 AM  Critical Sized Bone Defects: Current Evidence  
Achille Contini, MD

10:12 AM  Wound Coverage: Vacs to Flaps – When and How  
Michael Kelly, MD

10:23 AM  Open Fractures: What are the Top Research Questions?  
Emil Schemitsch, MD

10:34 AM  Discussion  
All Faculty

10:54 AM  Adjourn to Industry Symposia

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME). The Orthopaedic Trauma Association is accredited by the ACCME to provide continuing medical education for physicians. The Orthopaedic Trauma Association designates this live activity for a maximum of 11.25 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.