



September 30 – October 1, 2020 ♪ Nashville, Tennessee



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.

Wednesday, September 30 11:35 am -12:30 pm

INTERNATIONAL INDUSTRY **LUNCH SESSION**

Early Bird Registration > Until August 31.

 OTA Member
 OTA Member
 Non-Member
 Non-Member

 On/Before
 After
 On/Before
 After

 8/31/20
 8/31/20
 8/31/20
 8/31/20

Course Fee: \$250 \$150 \$200 \$200

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

SYMPOSIA

- International Orthopaedic Trauma Association (IOTA): Open Fracture Management Controversies
- Combined Session with Basic Science: Polytrauma: Update on Basic Science and Clinical Evidence
- Topical Symposia: Upper Extremity, Pelvis/Acetabulum, Geriatrics, and Lower Extremity

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.

COURSE AGENDA

INTERNATIONAL TRAUMA CARE FORUM

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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 9:03 AM 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

8:33 AM Discussion

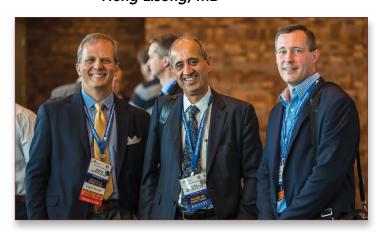
8:39 AM- **PAPER 33**

8:45 AM Combined Surgical Approach of

Anterior and Posterior for Ulnar

Coronoid Fracture of O'Driscoll Type 3B

Heng Lisong, MD





indicates 'Best of the Best

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WEDNESDAY, continued

8:45 AM-PAPER 34

Machine Learning to Estimate the 8:51 AM

> Probability for Fracture of the Distal Radius in Patients Presenting to the

Emergency Department with Sustained Wrist Trauma

D.W.G. Langerhuizen, BS;

Laurent Alexander Marijn Hendrickx;

Gino M. Kerkhoffs, MD, PhD; Ruurd Jaarsma, FRACS, MD, PhD;

Job N. Doornberg, MS; Marjolein Mulders;

J.C. Goslings, MD, PhD; Niels Schep

8:51 AM-PAPER 35

Do 3D Printed Hand Held Models 8:57 AM

> Improve Surgeon Reliability for Recognition of Intra-Articular Distal **Radius Fracture Characteristics?**

D.W.G. Langerhuizen, BS; Stein Jasper Janssen, MD; Gino M. Kerkhoffs, MD, PhD; Ruurd Jaarsma, FRACS, MD, PhD;

Job N. Doornberg MS

Discussion 8:57 AM

9:03 AM -SPECIAL INTEREST LECTURE

9:17 AM **General Aspects of a Geriatric**

Fracture Care -

Do We Have Evidence Based Results?

Carlos M. Olarte, MD

9:17 AM Morning Break 9:32 AM -SYMPOSIUM II

10:12 AM Pelvic Ring Injuries: Recent Advances

in Diagnosis and Treatment

Moderators: Paul S. Whiting, MD

H. Claude Sagi, MD

9:32 AM Overview

H. Claude Sagi, MD

9:35 AM **High-Energy Injuries:**

> Stopping the Bleeding Zsolt J. Balogh, MD, PhD

Which Ring Injuries are Unstable? 9:45 AM

Kees Jan 'KJ' Ponsen, MD

9:55 AM Unstable Injuries: Selecting the Right

> Approach and Fixation Milton L. Routt, MD

Discussion 10:05 AM

10:12 AM - PAPER SESSION II

11:16 AM Pelvis and Acetabulum

Moderators: Paul S. Whiting, MD

H Claude Sagi, MD

10:12 AM- PAPER 36

10:18 AM The Safety and Effectiveness of

> **Robot-Assisted Percutaneous** Screw Fixation in Treatment of **Unstable Pelvic Fractures**

Pengfei Wang, MD;

Utku Kandemir, MD; Bin-Fei Zhang;

Yan Zhuang; Kun Zhang, MD;

Yuxuan Cong; Ping-Cheng Liu, MD

10:18 AM- PAPER 37

10:24 AM SI-Screws as a Damage Control

Option in High-Energy Pelvic Trauma

- An Option in Hemodynamically

Unstable Patients?

Simon Tiziani; Adrian Knoepfe; Hans-Christoph Pape, MD; Valentin Neuhaus, MD





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WEDNESDAY, continued

10:24 AM- **PAPER 38**

10:30 AM High-Energy Blunt Pelvic Ring Injuries

and Intra-pelvic Arterial Lesions

Anna-Eliane 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 Hailu, 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- JOINT INDUSTRY LUNCH

12:30 PM

ZIMMER BIOMET

Solutions for the Treatment of Humeral Fractures

Speaker (tentative): **TBD**

Box Lunch Provided by OTA

12:30 PM Return to Room 207CD

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COURSE AGENDA, CONTINUED

INTERNATIONAL TRAUMA CARE FORUM

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WEDNESDAY, continued

12:35 PM - SYMPOSIUM III

Tibial Nailing: Pushing the Limit 1:15 PM

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

Distal Fractures: Is Nailing Superior? 12:58 PM

Guy Putzeys, MD

Discussion 1:08 PM

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

Rehabilitation Strategy After 1:21 PM

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

PAPER 45 1:21 PM-

Improved Reduction and 1:27 PM

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

Minimally invasive Surgical (MIS) 1:33 PM

> **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, PhD;

Raju Ahluwalia, FRCS (Ortho)

1:33 PM Discussion

PAPER 47 1:39 PM-

Treatment Patterns for the 1:45 PM

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







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WEDNESDAY, continued

1:45 PM- **PAPER 48**

1:51 PM 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- HUMANITARIAN SCHOLAR

1:57 PM 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 -SYMPOSIUM IV 2:45 PM Pilon Fractures -**Consensus and Controversy** Moderators: Theodore Miclau III, MD Rodrigo Pesantez, MD 2:03 PM Overview Theodore Miclau III, MD **Surgical Approaches in Pilon Fractures** 2:06 PM Rodrigo F. Pesantez, MD 2:14 PM **Preventing Complications: Pre- and Post-op Strategies** S. Kottmeier ORIF vs. Fusion: 2:22 PM What are the Indications? Kodi E. Kojima, MD **Complex Open Pilon Fractures:** 2:30 PM Limb Salvage vs. Amputation Carlos M. Olarte, MD Discussion 2:38 PM

2:45 PM - PAPER SESSION IV 3:27 PM General Interest

Moderators: Theodore Miclau III, MD

Florian T. Gebhard, MD, PhD

2:45 PM- PAPER 50

2:51 PM 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

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WEDNESDAY	, continued
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2:51 PM-PAPER 51

Implementation of a Mobile App for 2:57 PM

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

Discussion 2:57 PM

PAPER 52 3:03 PM-

Female Gender and Consultant Care are 3:09 PM

> 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

HUMANITARIAN SCHOLAR 3:09 PM-

3:15 PM 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-PAPER 54

3:21 PM **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

3:21 PM Discussion indicates 'Best of the Best 3:27 PM Proceed to Room 106 ABC

3:40 PM -**JOINT SESSION V**

4:45 PM Polytrauma: Update on Basic Science

and Clinical Evidence

Moderators: Aaron Nauth. MD

Hans-Christoph Pape, MD

Polytrauma: What is True and 3:40 PM

What is New?

Hans-Christoph Pape, MD

The Significance of Inflammation in 3:50 PM

Polytraumatized Patients

Todd McKinley, MD

4:00 PM Early Neutrophil Changes in

Polytrauma Patients and its

Prognostic Relevance

Luke PH Leenen, MD, PhD, FACS

Management of Major Fractures in 4:10 PM

Polytrauma, What Does the Clinical

Literature Tell Us? Frank Hildebrand, MD

Putting it all Together, When You 4:20 PM

Should Intervene Based on What We

Know Now!

Heather Vallier, MD

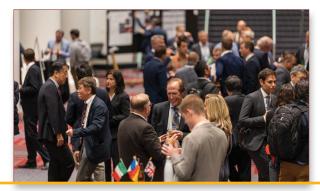
4:30 PM Discussion

4:45 PM Adjourn for the Day

INTERNATIONAL RECEPTION 4:50 PM-

6:00 PM (Davison BR Fover)

With special thanks and support from







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THURSDAY, October 1, 2020	THURSD	AY.	October	1	. 2020
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7:30 AM - INTRODUCTION (Room 207CD)

7:35 AM Theodore Miclau III, MD

7:35 AM - SYMPOSIUM VI

8:18 AM Hip Fracture Management:

Optimizing Outcomes

Moderators: Victor de Ridder, MD, PhD

Stephen L. Kates, MD

7:35 AM Overview

Stephen L. Kates, MD

7:38 AM **Developing an Orthogeriatric**

Program: Key Steps

Martin J. Heetveld, MD, PhD

7:48 AM Multicenter Studies: Is There Enough

Evidence to Change Practice?

Marc Swiontkowski, MD

7:58 AM Hip Fracture Augmentation:

Techniques and Outcomes

Carlos M. Olarte, MD

8:08 AM Discussion

8:18 AM - PAPER SESSION VI

9:14 AM Geriatric

Moderators: Victor de Ridder, MD, PhD

Stephen L. Kates, MD

8:18 PM- **PAPER 55**

8:24 AM

Screw-Calcar Related Tip-Apex

Distance Is the Most Reliable

Indicator for Compression Hip

Screw Failure

Chinyelu Menakaya, MB, BS, MRCS

RCSEng; Liza Osagie Clouard, MBBS, MD;

Turab Arshad Syed, MBBS

8:24 AM- PAPER 56

8:30 AM Orthogeriatric Trauma Units Improve

Patient Outcomes in Geriatric Hip

Fracture Patients

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

8:30 AM- PAPER 57

8:36 AM Orthogeriatric Co-Management for

Hip Fractures. Can Small Changes

Make a Big Difference?

Maic Werner, MS; Olaf Krause, MD;

Christian Macke, MD; Lambert Herold, MD; Christian Krettek, MD; Emmanouil Liodakis, MD

8:36 AM Discussion

8:46 AM- PAPER 58

8:52 AM The Impact of Nail Canal Ratio on

Postoperative Early Excessive Neck Shortening After Intramedullary Nailing of Trochanteric Fracture: A Retrospective Cohort Study

Takahiro Inui, MD;

Yoshinobu Watanabe, MD;

Yoshiaki Kurata, MD; Kentaro Matsui, MD;

Keisuke Ishii, MD; Takashi Suzuki, MD;

Taketo Kurozumi, MD, PhD; Hirotaka Kawano, MD, PhD

8:52 AM- **PAPER 59**

8:58 AM Relationship Between Clinical Results

and Reduction in Femoral Trochanteric Fractures Treated with Proximal

Femoral Nail Antirotation (PFNA)-II Etsuo Shoda, MD; Shimpei Kitada;

Etsuo Snoda, MD; Shimpei Kitadi Takahiro Niikura MD, PhD;

Keisuke Oe, MD, PhD;

Atsushi Sakurai, MD; Takeharu Sasaki, MD



COURSE AGENDA, CONTINUED

INTERNATIONAL TRAUMA CARE FORUM

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THURSDAY, continued

8:58 AM-PAPER 60

Factors Associated with Mortality 9:04 AM

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 -**IOTA SYMPOSIUM VII** 10:54 AM **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 **Antibiotic Administration:** 9:39 AM Type, Timing, and Route Hiroaki Minehara, MD Surgical Timing: Which Fractures, 9:50 AM 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 Open Fractures: What are the Top 10:23 AM Research Questions? Emil Schemitsch, MD

10:54 AM Adjourn to Industry Symposia

All Faculty

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.



10:34 AM Discussion