

# INTERNATIONAL ORTHOPAEDIC TRAUMA CARE FORUM

**Wednesday,  
October 7, 2015**

## 2015 International Committee

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

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

## Target Audience

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

## Objectives

Attendees of the International Orthopaedic Trauma Care Forum will:

- ◆ Learn about the varied methods of treating fracture and trauma complications from around the world
- ◆ Understand the pros and cons of open reduction techniques of the difficult young intra-capsular NOF fracture
- ◆ Increase knowledge and understanding of the anterior and posterior approach to vertical shear pelvic fractures
- ◆ Become familiar with unique approaches to acetabulum fractures in the elderly treated in Germany
- ◆ Understand the most recent advances and controversies of post traumatic femoral AVN
- ◆ Gain insight as to best practices when things go wrong

## Program

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

7:35 am - 8:05 am **Symposium I**  
**Focus Surgical Techniques - Vertical Shear Pelvic Fracture: My Preferred Method of Reduction-Fixation**

Moderators: *William G DeLong Jr, MD*  
*Tim Chesser, MD*

–Anterior Approach – *Cyril Mauffrey, MD*  
–Posterior Approach – *Amir M Matityahu, MD*

8:05 am - 8:37 am **Session 1 – Acetabulum**

Moderators: *Keith Willett, MD*  
*Amir M Matityahu, MD*

8:05 am **Paper 1**  
**Acetabular Fractures in Elderly Patients: A Comparative Study of Low-Energy versus High-Energy Injuries**  
*Cyril Mauffrey, MD; Ji-Wan Kim, MD; Benoit Herbert, MD; Jiandong Hao, MD; William Min, MD; Bruce Ziran, MD*

8:13 am **Paper 2**  
**The State of Pelvic and Acetabular Surgery in the Developing World: A Global Survey of Orthopaedic Surgeons at SIGN Hospitals**  
*Paul Whiting, MD; Duane Anderson, MD; Daniel Galat, MD; Lewis Zirkle, MD; Hassan Mir, MD*

8:21 am **Paper 3**  
**Functional Outcome and Quality of Life after Surgical Management of Displaced Acetabular Fractures in Tanzania**  
*Edmund Eliezer, MD*

8:29 am Discussion

8:37 am - 9:09 am **Session 2 – Pelvic Injuries and Femur**

Moderator: *Ross K Leighton, MD*  
*Michael L Nerlich, MD*

8:37 am **Paper 4**  
**Impact of Pelvic Fracture on the Clinical Outcomes of Severely Injured Trauma Patients: Where We Stand in 2015**  
*Khalid Almahmoud, MD; Roman Pfeifer, MD; Philipp Lichte, MD; Thomas Dienstknecht, MD; Frank Hildebrand, MD; Hans-Christoph Pape, MD*

8:45 am **Paper 5**  
**Pelvic Fractures In Paediatric Polytrauma Patients: Classification, Concomitant Injuries And Early Mortality**  
*Theodoros Tosounidis, MD; Hassaan Sheikh, MD; Peter Giannoudis, MD*

8:53 am **Paper 6**  
**Predictors of Reoperation for Adult Femoral Shaft Fractures Managed Operatively in Sub-Saharan Africa**  
*Edmund Eliezer, MD; Billy Haonga, MD; Saam Morshed, MD; David Shearer, MD*

9:01 am Discussion

9:09 am Break

9:25 am - 9:45 am **SIGN Session**

Moderator: **Lewis G Zirkle, MD**

- Earthquake Nepal 2015  
*Bhaskar Raj Pant, MD*
- 2015 Earthquake Disaster Response by  
Nepal Orthopaedic Hospital  
*Saju Pradhan, MD*

9:45 am - 10:17 am **Session 3 – Knee Injuries**

Moderators: **Max Morandi, MD**  
**Paulo Roberto Lourenco, MD**

9:45 am **Paper 7**  
**Comminuted Patella Fractures in Adults: Management and Clinical Outcome**  
*Liam Walker, MD; Michalis Panteli, MD; Ippokrates Pountos, MD; Peter Giannoudis, MD*

9:53 am **Paper 8**  
**Internal Fixation without Bone Grafting for Depressed Articular Surface Fractures of the Tibial Plateau**  
*Tim Chesser, MD; Steven Morris, MD*

10:01 am **Paper 9**  
**Structural Bone Grafting as a Treatment for Periprosthetic Knee Fractures: A Review of 15 Cases**  
*Ion Carrera, MD; Angelica Millan, MD; Xavier Aguilera, MD; Julio De Caso, MD; Fernando Celaya, MD*

10:09 am Discussion

10:17 am - 10:49 am **Session 4 – Foot and Ankle**

Moderator: **Fernando de la Huerta, MD**  
**Hans-Christoph Pape, MD**

10:17 am **Paper 10**  
**Arthroscopic Assisted Minimally Invasive Fixation of the Supination-External Rotation Ankle Fractures**  
*Chao-Ching Chiang, MD; Ching-Kuei Huang, MD; Yun-Hsuan Tzeng, MD*

10:25 am **Paper 11**  
**Direct Comparison of Syndesmotic Reconstructive Techniques Using Weightbearing CT**  
*Jennifer Hagan, MD; Boyko Gueorguiev, PhD; R Geoff Richards, PhD; Kajetan Klos, MD; Paul Simons, MD*

10:33 am **Paper 12**  
**Close Reduction and Percutaneous Screw Fixation for Talar Neck Fractures**  
*Hu Wang, MD; Zhe Song, MD*

10:41 am Discussion

10:49 am - 11:16 am **Symposium II**  
**Debate: Open Reduction of the Difficult Young Intra-capsular NOF Fracture**

Moderator: **Mohit Bhandari, MD, PhD**  
-Anterior Open Reduction-Fixation Technique (video)  
*Christian Krettek, MD, FRACS*  
-Pros/Con – Best Evidence  
*Brad Petrisor, MD*

11:16 am - 11:48 am **Session 5 – Basic Science**

Moderators: **Cyril Mauffrey, FRCS (Ortho), MD**  
**Emil H Schemitsch, MD**

11:16 am **Paper 13**  
**The Impact of a Femur Fracture on Systemic Neutrophil Activation in Pigs**  
*Michel Teuben, MD; Marjolein Heeres, MD; Taco Blokhuis, MD; Roman Pfeifer, MD; Klemens Horst, MD; Leo Koenderman, MD; Hans-Christoph Pape, MD; Luke Leenen, MD*

11:24 am **Paper 14**  
**Angular Stable Intramedullary Nailing - Does It Provide Biomechanical Benefit?**  
*Peter Augat, MD; Stefanie Hoffmann, MD; Manuel Kessler, MD; Daniel Stephan, MD; Geert von Oldenburg, MD; Claus Gerber, MD*

11:32 am **Paper 15**  
**Nail Medullary Canal Ratio Affects Mechanical Axis Deviation during Femoral Lengthening with an Intramedullary Distractor**  
*Nael Hawi, MD; Mohamed Kenawey, MD; Christian Krettek, MD; Emmanouil Liodakis, MD*

11:40 am Discussion

# INTERNATIONAL ORTHOPAEDIC TRAUMA CARE FORUM, continued

11:48 am - 12:28 pm **Session 6 – Tibia Injuries**

Moderator: **Christopher G Moran, MD**  
**P Duffy, MD**

11:48 am **Paper 16**  
**Minimally Invasive Plate Osteosynthesis for Periprosthetic Tibial Fractures after Total Knee Arthroplasty**  
**Joon-Woo Kim, MD; Ki-Chul Park, MD;**  
**Jong-Keon Oh, MD; Chang-Wug Oh, MD;**  
**Hee-Soo Kyung, MD; Kyung-Hyun Park, MD**

11:56 am **Paper 17**  
**Bone Transport Combined with Open Wound Treatment for Tibial Fracture Infected Nonunion**  
**Hu Wang, MD; Pen-fei Wang, MD**

12:04 pm **Paper 18**  
**Outcomes of Tibia Fractures Treated with a SIGN Intramedullary Nail at Nepal Orthopedic Hospital**  
**Michael Self, MD; Jill Larson, MD;**  
**Anil Shrestha, MD; S David Stulberg, MD**

12:12 pm **Paper 19**  
**Lower Extremity Fractures in Uganda Continue to Impact Income, Quality of Life and the School Attendance of Dependents at One Year Post-injury**  
**Nathan O'Hara, MD; Rodney Mugarura, MD;**  
**Jeffrey Potter, MD; Trina Stephens, MD;**  
**Marit Rehavi, MD; Patrick Francois, MD;**  
**Piotr Blachut, MD; Peter O'Brien, MD;**  
**Tito Beyeza, MD; Gerard Slobogean, MD**

12:20 pm Discussion

12:28 pm LUNCH

1:00 pm - 1:25 pm **Symposium III**  
**Post Traumatic Femoral AVN**

Moderator: **Christian Krettek, MD, FRACS**  
–Core Decompression – **B Bouillon, MD**  
–Biological Based Therapies  
**Peter V Giannoudis, MD**

1:25 pm - 1:49 pm **Session 7 – Best of the Best**  
Moderator: **Thomas A (Toney) Russell, MD**  
**Florian Gebhard, MD, PhD**

1:25 pm **Paper 20**  
**Ilioinguinal Approach and Infrapectineal Plate Fixing Posterior Column for Complex Acetabular Fractures**  
**Yan Zhuang, MD; Hu Wang, MD**

1:31 pm **Paper 21**  
**Isolating only a Novel Mesenchymal Stem Cell Subpopulation Leads to a High Mitogenic and Osteogenic Outcome**  
**Ippokrates Pountos, MD; Karen Henshaw, MD;**  
**Peter Giannoudis, MD**

1:37 pm **Paper 22**  
**Reconstruction of Femoral Head Impaction Injuries using Osteochondral Shell Autografts Harvested from the Head-Neck Junction**  
**Marius Keel, MD; Jennifer Cullmann, MD;**  
**Salvatore Tomagra, MD; Harald Bonel, MD;**  
**Johannes Bastian, MD**

1:43 pm Discussion

1:49 pm **Keynote Speaker –**  
**Hans-Christoph Pape, MD**  
*University of Aachen*  
*Medical Center*  
*Aachen, Germany*  
Introduction: **Theodore Miclau III, MD**



2:14 pm – 3:19 pm **Symposium IV**  
**Guest Nation: Germany**  
**Acetabulum Fracture Fixation in the Elderly: My Preferred Method of Treatment**



Moderator: **Peter V Giannoudis, MD**  
**Theodore Miclau III, MD**  
–Non-operative Treatment  
**William G DeLong Jr, MD**  
–Fixation – **Michael L Nerlich, MD**  
–Replacement – **Florian Gebhard, MD, PhD**

3:19 pm Break

3:40 pm - 4:10 pm **Symposium V**  
**(My Worst Case: When Things Go Wrong Then /What?)**

Moderator: **Roy Sanders, MD**  
–Case 1 – **Christopher G Moran, MD**  
–Case 2 – **Daniel S Horwitz, MD**

4:10 pm - 4:42 pm **Session 8 – Proximal Femoral Fractures**  
Moderator: **Andrew H Schmidt, MD**  
**B Bouillon, MD**

4:10 pm **Paper 23**  
**Which Intramedullary Nailing Treatment for Intertrochanteric Femoral Fractures Results in Better Outcomes?**  
**Martin Hoffmann, MD; Debra Sietsema, MD;**  
**Justin Khoriaty, MD; Clifford Jones, MD**

4:18 pm **Paper 24**  
**Effect of Teriparatide on Atypical Complete Femoral Fractures treated with Intramedullary Nailing**  
*Hyun-Seok Joo, MD; Dong-Eun Kim, MD; Ji-Wan Kim, MD; Ki-Chul Park, MD; Jung-Jae Kim, MD*

4:26 pm **Paper 25**  
**Incidence of Bone Protection and Associated Fragility Injuries in Patients with Proximal Femoral Fractures**  
**Ignacio Aguado-Maestro, MD;**  
*Michalis Panteli, MD; Manuel Garcia-Alonso, MD; Alejandro Bañuelos-Diaz, MD; Roberto Escudero-Marcos, MD; Peter Giannoudis, MD*

4:34 pm Discussion

4:42 pm - 5:22 pm **Session 9 – Upper Extremity**  
 Moderator: **Douglas W Lundy, MD**  
**Nigel Rossiter, MD**

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

4:50 pm **Paper 27**  
**Prevention of Complex Regional Pain Syndrome Type 1 in Patients with Distal Radius Fracture - A Pilot Study**  
**Emily Boersma, MD; Henk Van de Meent, MD; Jan Paul Frölke, MD**

4:58 pm **Paper 28**  
**Diaphyseal Humeral Fractures in the Elderly: Results of Surgical Treatment**  
*Nimrod Snir, MD; Ron Batash, MD; Oleg Dolkart, MD; Eran Maman, MD; Gilad Eisenberg, MD; Yaniv Warschawski, MD; Ely Steinberg, MD*

5:06 pm **Paper 29**  
**Elbow Hinged External Fixator: Our Treatment Approach for Complex Elbow Dislocation in Elderly**  
**Pietro Maniscalco, MD; Marco Caforio, MD; Patrizia Mantelli, MD; Luigi Bisogno, MD**

5:14 pm Discussion

5:22 PM **ADJOURN TO INTERNATIONAL POSTER RECEPTION**

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

**Poster 1 Determinants of Access to Orthopaedic Surgery at Uganda's National Hospital**  
*Trina Stephens, MSc; Nathan O'Hara, MHA; Jeffrey Potter, MD; Rodney Mugarura, MBChB, M.Med; Piotr Blachut, MD; Peter O'Brien, MD; Tito Beyeza, MD; Gerard Slobogean, MD*

**Poster 2 Corrective Osteotomy of The Distal Femur: A Minimally Invasive Surgical Technique Using a Locking Plate and Temporary External Fixation**  
*Joon-Woo Kim, MD; Chang-Wug Oh, MD; Jong-Keon Oh, MD; Tae-Joon Cho, MD; Hee-Soo Kyung, MD; Hee-June Kim, MD*

**Poster 3 Possible Predictors for Difficult Removal of Locking Plates: A Case-Control Study**  
*Yang Lv, MD; Fang Zhou, MD; Yun Tian, MD; Hongquan Ji, MD; Zhishan Zhang, MD; Yan Guo, MD; Yunfei Hou, MD*

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

**Poster 5 The Global Burden of Spine Fractures: A Pilot Prospective Multicenter Evaluation**  
*Ilyas Aleem, MD; Dylan Demarco, BHSoc; Brian Drew, MD; Sohail Shariff, BSc; C.J. Foote, MD; Nathan Evaniew, MD; Vijay Shetty, MD; Mandeep Dhillon, MD; Raman Mundi, MD; Mohit Bhandari, MD*

**Poster 6 Functional Results After Fracture Dislocations of the Elbow**  
*Kaare Midtgaard, MD; Ida Sletten, MD; Jørgen Michelsen, MD; Jan Erik Madsen, MD; Gunnar Flugsrud, MD*

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

**Poster 8 Is Polyaxial Plating Technology Effective for Fixation of Distal Femoral Fractures?**  
*Kalliopi Lampropoulou-Adamidou, MD; Theodoros Tosounidis, MD; Nikolaos Kanakaris, MD; Peter Giannoudis, MD*

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

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

**Poster 11 Entrapment – A Risk Factor for Outcome in Multiple Trauma Patients?**  
*Christian Zeckey, MD; Philipp Mommsen, MD; Marika Sarakintsis; Marcel Winkelmann, MD; Christian Schröter, MD; Christian Krettek, MD; Christian Macke, MD*