

2019 OTA ANNUAL MEETING

SEPTEMBER 26 - 28, 2019 ■ DENVER, COLORADO ■ #OTA2019



INTERNATIONAL TRAUMA CARE FORUM

COURSE AGENDA

Wednesday-Thursday,
September 25-26, 2019



Peter V. Giannoudis, MD, FACS, FRCS
International Committee Chair

11.5 AMA PRA Category I Credits™



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, one of which features presenters from the OTA 2019 Guest Nation, Argentina.

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.

INTERNATIONAL COMMITTEE

Peter V. Giannoudis, MD, FACS, FRCS *Chair*
Ney Amaral, MD
Fernando de la Huerta, MD
Theodore Toan Le, MD
Hans-Christoph Pape, MD, FACS
Anjan R. Shah, MD
Robert D. Zura, MD

FEATURED SYMPOSIA

- Surgical Techniques: How I Do It? Pelvic Instability Revisited
- IOTA: Tibial Plateau Fractures: Global Perspectives on a Complex Problem
- Rotator Cuff Lesions
- Femoral Neck Non-Union
- Joint Session: Local Delivery of Antibiotics for Bone Infections: Current Insights
- IOTA Fragility Fracture Care: Advances in Management

LEARNING OBJECTIVES

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

- ✓ Revisit surgical techniques of pelvic and acetabulum reconstruction.
- ✓ Understand internal fixation principles to guide treatment for tibial plateau and fragility fractures.
- ✓ Comprehend the parameters affecting salvage versus amputation for severe lower limb injuries.
- ✓ Outline all the latest upper and lower extremity fracture fixation techniques.
- ✓ Explore all the latest advances in treating bone infections.



Early Bird
Registration
Until September 10.



OTA Member On/Before 9/10/19	OTA Member After 9/10/19	Non-Member On/Before 9/10/19	Non-Member After 9/10/19
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Course Fee:	\$ 150	\$ 200	\$ 200	\$ 250
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WEDNESDAY, September 25, 2019

7:30 AM Introduction (601/603)
Peter V. Giannoudis, MD, FACS, FRCS

7:35 AM–
8:15 AM **SYMPOSIUM I**
Surgical Techniques: How I Do It?
Pelvic Instability Revisited

Moderators: *Ross K. Leighton, MD*
Christian Allende, MD

7:35 AM **Introduction**
Ross K. Leighton, MD

7:37 AM **When I Do Pubis Symphysis and How?**
Paul Tornetta III, MD

7:47 AM **Sacroiliac Joint Open: My Preferred Method of Reconstruction**
Peter V. Giannoudis, MD, FACS, FRCS

7:57 AM **Sacroiliac Joint MIS: What Implant and Why?**
Mark Riley, MD

8:07 AM Discussion

8:15 AM–
8:47 AM **PAPER SESSION I**
Acetabulum - Femoral Head Injuries

Moderators: *Hans-Christoph Pape, MD*
Erik Kubiak, MD

8:15 AM **PAPER 28**
Morphometric Analysis and Safety of Percutaneous Fixation of Anterior Column of Acetabulum in an Indian Population: A Preliminary Report
Vivek Trikha, MD

8:21 AM **PAPER 29**
Internal Fixation of Acetabular Fractures in an Older Population Using the Lateral-Rectus Approach: Short-Term Outcomes of a Retrospective Study
Shicai Fan, MD; Jiahui Chen; Han Liu; Canbin Wang

8:27 AM **PAPER 30**
Safety of Surgical Hip Dislocation in Femoral Head Fracture-dislocation
Jeong Heo; Chang-Wug Oh, MD; Joon-Woo Kim, MD, PhD; Kyeong Hyeon Park, MD; Il Seo, MD

8:33 AM **PAPER 31**
Clinical Results of Osteochondral Autograft from Ipsilateral Femoral Head for Femoral Head Defect after Posterior Hip Fracture Dislocation – Short Term Preliminary Study
Yougun Won, MD; Gisoo Lee; Chan Kang, MD, PhD

8:39 AM Discussion

8:47 AM Morning Break



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 11.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

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COURSE
AGENDA, CONT'D
Wednesday, 9.25.19

9:00 AM–
10:02 AM



IOTA / Symposium II Tibial Plateau Fractures:

Global Perspectives on a Complex Problem

Moderators: *Peter V. Giannoudis, MD, FACS, FRCS*
Achille Contini, MD
Rafeal Amadei, MD

9:00 AM **Overview**
Peter V. Giannoudis, MD, FACS, FRCS

9:02 AM **Complex Plateau Fractures:
Initial Management and Timing of
Definitive Treatment**
Kees Jan Ponsen, MD, PhD

9:12 AM **Post-Fixation Stability: What is the
Optimal Construct for Early Mobility?**
Kodi Kojima, MD

9:22 AM **The Posteromedial Fragment:
When and How to Fix**
Sushrut Babhulkar, MD

9:32 AM **Posterior Plateau Fractures:
Approach and Fixation**
Francisco Chana, MD

9:42 AM **Compartment Syndrome and Plateau
Fracture: Treatment Approach and
Recommendations**
Bertil Bouillon, MD

9:52 AM Discussion

10:02 AM–
10:44 AM **SYMPOSIUM III
GUEST NATION SYMPOSIUM**

Moderators: *Heather Vallier, MD*
Bibiana Dello Russo, MD

10:02 AM **Overview**
Bibiana Dello Russo, MD

10:04 AM **Haggled Extremity Scoring Systems:
Still Valid?**
Marcelo Rio, MD

10:14 AM **How Do I Proceed with Salvage?**
Guido Carabelli, MD

10:24 AM **What Do I Consider as the Gray Zone
Making It Difficult to Decide**
David Teague, MD

10:34 AM Discussion



10:44 AM–
11:14 AM **SYMPOSIUM IV
Rotator Cuff Lesions**

Moderators: *Michael D. McKee, MD*
Kodi Kojima, MD

10:44 AM **Early Reconstruction: Why and How?**
Lonnie Douglas, MD

10:54 AM **Late Reconstruction:
My Preferred Method - Outcomes**
Chad Myeroff, MD

11:04 AM Discussion

11:14 AM Walk to Room 401-404

11:25 AM–
12:25 PM **INDUSTRY LUNCH**



ZIMMER BIOMET

Principles of Proximal Humeral Fracture Fixation: A Case-Based and Comparative Review of Current Technologies in Plating and Nailing

Presenter: *Frank Liporace, MD*
Box Lunch Provided by OTA
(No CME credits offered)

12:25 PM Return to Room 601/603

12:35 PM–
1:09 PM **PAPER SESSION II**
Pelvic Injuries

Moderators: *R. Malcolm Smith, MD*
Fernando de la Huerta, MD

12:35 PM **PAPER 32**

The Intra- and Interrater Reliability of the Fragility Fractures of the Pelvis Classification and Their Therapeutic Relevance: A Multicenter Assessment

Philipp Pieroh, MD; Andreas Höch; Florian Gras, MD; Sven Märdian; Alexander Pflug; Silvan Wittenberg; Christoph Ihle; Notker Blankenburg; Kevin Dallacker-Losensky, MD; Tanja Lieselotte Schröder; Steven C. Herath, MD; Daniel Wagner, MD; Hans-George Palm, MD, MBA; Christoph Josten Prof; Fabian Stuby, MD

12:41 PM **PAPER 33**

Accuracy of Percutaneous Sacro-Iliac Screw Fixation for Pelvic Ring Injuries using Standardized Image Intensifier Protocol with Lateral Shots as the Corner Stone for Screw Placement: Prospective Cohort Study with Post-Op Computed Tomography as the Reference Standard

Job N. Doornberg, MS; Jan Erik Madsen, MD, PhD; Mark Rickman, MD

12:47 PM **PAPER 34**

Use of Ultrasonography for Evaluation of Stability of Lateral Compression Type 1 (LC-1) Pelvic Fractures to Assist Determination of Treatment Strategy
Bin-Fei Zhang; Pengfei Wang, MD; Yan Zhuang

12:53 PM **PAPER 35**

Quality of Life After Pelvic Ring Fractures: Long-Term Outcomes: A Multicentre Study
Erik Hermans MD; Lars Brouwers; Thijs Van Gent; Jan Biert; Mariska Adriana De Jongh, PhD; Koen Lansink, MD, PhD; Michael Edwards, MSc, PhD

12:59 PM Discussion

1:09 PM–
1:25 PM

SPECIAL INTEREST LECTURE
IM Nail Rescue with Plate Fixation
Santiago Svarzchtein, MD



1:25 PM–
2:13 PM

PAPER SESSION III
Lower Limb Injuries

Moderators: *Victor A. de Ridder, MD*
Theodore Toan Le, MD

1:25 PM

PAPER 36
Comprehensive Evaluation and Treatment Strategy of Tibia Plateau Fracture with Knee Dislocation
Zhe Song, MD; Yangjun Zhu, MD; Kun Zhang, MD; Weilou Feng, MD

1:31 PM

PAPER 37
Poor Sporting Abilities After a Tibial Plateau Fracture Involving the Posterior Column - How Can We Do Better?
Liselore Quintens, MD; Juriaan Van Den Berg, MD; Maike Reul; Esther MM Van Lieshout, PhD; Siebe De Boer, MD; Michael Verhofstad; Harm Hoekstra

1:37 PM **PAPER 38**
The Application of a New Type
Ultradistal Locking Tools for
Intramedullary Nailing in the Treatment
of Tibial Fractures
Hongliang Liu, MD; Cheng Ren, MD

1:43 PM Discussion

1:49 PM **PAPER 39**
Secondary Intramedullary Nailing
Following External Fixation for Tibial
Shaft Fracture: What are the Factors
that Affect Infection?
*Joon-Woo Kim, MD; Chang-Wug Oh, MD;
Il Seo, MD; Kyeong Hyeon Park, MD;
Jeong Heo, MD*

1:55 PM **PAPER 40**
Periprosthetic Atypical Femoral
Fractures Exist and are Associated with
Duration of Bisphosphonate Therapy
*Samuel Mackenzie, MBChB;
Richard Ng, MD; Gordon Thomas Snowden;
Matilda Powell-Bowns, MRCSEd;
Andrew D. Duckworth, FRCS, MBChB,
MSc, PhD; Chloe Scott, FRCS*

2:01 PM **PAPER 41**
Functional Outcome of Open Distal
Femoral Fractures Managed with
Lateral Locking Plates
*Raghav Arora, MBBS, MS;
Deepak Jain, MS;
Harpal S. Selhi, MD;
Rajnish Garg, MD, MBBS, MS*

2:07 PM Discussion

2:13 PM–
3:03 PM **SYMPOSIUM V**
Femoral Neck Non-Union
Moderators: *Cyril Mauffrey, MD
Florian T. Gebhard, MD, PhD*

2:13 PM **Pre-operative Investigations:
What I Need to Know?**
Steven A. Olson, MD

2:23 PM **Intertrochanteric Valgus Osteotomy:
When and How?**
William M. Ricci, MD

2:33 PM **Subtrochanteric Valgus Osteotomy:
Indications-My Preferred Method of
Treatment?**
Henry Broekhuysen, MD

2:43 PM **Femoral Neck Non Union Associated
with Femoral Head AVN**
Peter Giannoudis, MD, FACS, FRCS

2:53 PM Discussion

Walk to Room 401-404

3:03 PM Break (Refreshments) (401-404)

3:15 PM–
4:20 PM **JOINT SESSION VI:** (401-404)
**Local Delivery of Antibiotics for Bone
Infections: Current Insights**
Moderators: *Peter V. Giannoudis, MD, FACS, FRCS
Edward J. Harvey, MD*

3:15 PM **Overview**
Peter V. Giannoudis, MD, FACS, FRCS

3:20 PM **Cement Bids and Cement Spacers:
An Update**
David J. Hak, MD

3:30 PM **Matrices**
Edward J. Harvey, MD

3:40 PM **Bone Substitute Options and
Effectiveness**
Peter V. Giannoudis, MD, FACS, FRCS

3:50 PM **Coated Nails**
Brett D. Crist, MD

4:00 PM **The Role of Bioglass**
Nikolaos Kanakaris, MD, PhD

4:10 PM Discussion

4:20 PM–
4:35 PM **KEY NOTE LECTURE**
Non-Union Decision Making
Christian Allende, MD

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COURSE AGENDA

Wed.-Thurs., 9.25-26.19

- 4:35 PM–
5:17 PM **PAPER SESSION IV**
Best of the Best - Paper Session
Moderators: *Michael D. McKee, MD*
Thomas A. (Toney) Russell, MD
Cesar Pesciallo, MD
- 4:35 PM **Overview**
Michael D. McKee, MD
- 4:37 PM **PAPER 42**
Predictors of Hip Fracture Mortality in Ghana: A Single-Center Prospective Study
Paa Kwesi Baidoo, MD;
James Beguah Odei, PhD;
Velarie Yaa Ankrah Ansu, MS;
Michael Segbefia;
Henry Holdbrook-Smith, MD
- 4:43 PM **PAPER 43**
Treatment for Coexisting Fractures of the Proximal Humerus and Humeral Shaft: ORIF or MIPPO?
Zhe Song; Weilou Feng, MD
- 4:49 PM **PAPER 44**
Excellent Outcome After Double Locked Plating in Su Type II or III Periprosthetic Distal Femoral Fractures
Kyeong Hyeon Park, MD;
Chang-Wug Oh, MD; Ki Chul Park;
Jeong Heo; Joon-Woo Kim, MD, PhD
- 4:55 PM **PAPER 45**
Coned Hemipelvis and Total Hip Replacement in Osteoporotic Acetabular Fractures of the Elderly
Samuel Edward McMahon;
Owen J. Diamond, MD;
Laurence A. Cusick, FRCS (Ortho), MBChB
- 5:01 PM **PAPER 46**
Prospective Evaluation of Functional Outcome Along with Histological Features of Induced Membrane in Patients with Infective Nonunion Managed with Masquelet Technique
Vivek Trikha, MD; Anupam Gupta;
Arulselvi Subramanian, MD


- 5:07 PM Discussion
- 5:17 PM Adjourn for the Day
- 5:25 PM–
6:25 PM **INTERNATIONAL RECEPTION** *(Four Seasons Ballroom Pre-Function Area)*
Join your colleagues for networking, viewing of the international posters display and special awards program—*With special thanks and support from KCI an Acelity Company.*



THURSDAY, September 26, 2019

- 7:30 AM **Introduction** *(601/603)*
Peter V. Giannoudis, MD, FACS, FRCS
- 7:32 AM–
8:20 AM **PAPER SESSION V**
Pelvis and Hip Fractures
Moderators: *Brent Norris, MD*
Takashi Matsushita, MD, DMSc
- 7:32 AM **PAPER 47**
Application of Measurement of Femoral Eccentricity on Orthopaedic-Position Radiographic Film of Hip Joint in Total Hip Arthroplasty
Junzui Li, MD

- 7:38 AM **PAPER 48**
Arthroplasty Can Improve Long-Term Survival of Female Patients Sustained Femoral Neck Fracture Age Over Ninety: The Ten Years Results of Compare to Conservative Treatment
Liu Yang, DC
-
- 7:44 AM **PAPER 49**
Hemiprosthesis After Hip Fracture in Geriatric Patients with Dementia Increases Mortality and Lacks Functional Recovery
Konrad Schütze, MD;
Peter H. Richter, MD; Alexander Eickhoff;
Florian T. Gebhard, MD, PhD;
Christian Matthias Ehrnthaller
-
- 7:50 AM Discussion
-
- 7:56 AM **PAPER 50**
Venous Thromboembolism Following Delayed Surgery of a Hip Fracture
Ji Wan Kim, MD; Eic Ju Lim; Ki Chul Park
-
- 8:02 AM **PAPER 51**
Changes in Patellar Fracture Characteristics: A Multicenter Retrospective Analysis of 1596 Patellar Fracture Cases Between 2003 and 2017
Seong-Eun Byun, MD, PhD;
Jaeang Sim, MD; Yong Bum Joo;
Ji Wan Kim; Won Chul Choi, MD;
Young Gon Na, MD; Oog Jin Shon
-
- 8:08 AM **PAPER 52**
Surgical Treatment with Locking Plate for Nonunion in Femur and Tibia
Tomoaki Fukui, MD;
Takahiro Niikura, MD, PhD;
Keisuke Oe, MD, PhD;
Ryosuke Kuroda, MD
-
- 8:14 AM Discussion

- 8:20 AM–
9:32 AM  INTERNATIONAL ORTHOPAEDIC TRAUMA ASSOCIATION **IOTA SYMPOSIUM VII**
IOTA Fragility Fracture Care: Advances in Management
- Moderators: *Theodore Miclau III, MD*
Yoram Weil, MD
Jose Quintero, MD
- 8:20 AM **Overview**
Peter V. Giannoudis, MD, FACS, FRCS
- 8:22 AM **Systems Approaches to Fragility Fracture Care: How Can They Help?**
Timothy Chesser, MB, BS, FRCS
- 8:32 AM **Measuring Success: Outcomes Beyond Mortality?**
Zsolt Balogh, MD
- 8:42 AM **Fragility Fractures in a Japanese Population: Does the Treatment Differ?**
Takashi Miyamoto, MD
- 8:52 AM **Managing Bone Loss in Elderly Patients: What Are the Options?**
Yun Tian, MD
- 9:02 AM **Surgical Management of Insufficiency Fractures: When and How?**
Guy Putzeys, MD
- 9:12 AM **Complications Post Osteoporotic Fracture Fixation: Tips and Tricks**
Fernando de le Huerta, MD
- 9:22 AM Discussion
-
- 9:32 AM Morning Break



9:45 AM– **PAPER SESSION VI**

10:19 AM **Upper Limb Injuries**

Moderators: *Sushrut Babhulkar, MD*
Jong-Keon Oh, MD

10:19 AM– **PAPER SESSION VII**

11:00 AM **General Trauma**

Moderators: *Robert Zura, MD*
Wu Xinbao, MD

9:45 AM **PAPER 53**

Clinical Application of 'Expanded Paratricipital Approach' for Fixation of Complex Articular Fractures in Distal Humerus: Revisited with Cadaveric Study and Case Series
Jae-Woo Cho; Do-Hyun Yeo, MD; Beom-Soo Kim, MD; Eic Ju Lim; Seungyeob Sakong; Dong-Wan Kang; Jinkak Kim, MD; Jong-Keon Oh, MD, PhD

9:51 AM **PAPER 54**

Optimal Plate Position in Minimally Invasive Plate Osteosynthesis for Mid-shaft Clavicle Fractures: Simulation Using 3D-Printed Models of Actual Clinical Cases
Ji Wan Kim, MD; Ki Chul Park

9:57 AM **PAPER 55**

Olecranon Osteotomy Fixation Following Complex Distal Humerus ORIF: Plate or Tension Band?
Zhe Song; Yangjun Zhu, MD; Kun Zhang, MD; Weilou Feng, MD

10:03 AM **PAPER 56**

The Clinical Benefit of Fibular Allograft Augmentation in Locked Plating of Proximal Humerus Fractures: A Retrospective Study
Yeming Wang, MD; Jianhua Yang; Junyang Liu; Xu Tian; Jingming Dong; Jie Sun, MD, MS

10:09 AM Discussion

10:19 AM **PAPER 57**

Clinical Application of 3D Printing Technology in Orthopaedic Trauma Surgery
Rahat Jarayabhand, MD; Chittawee Jiamton, MD

10:25 AM **PAPER 58**

Empowering Pre-hospital Care Providers to Better Manage Open Fractures
Aswinkumar Vasireddy, MBBS; Kelly Jones; Erica F. Ley, MSc

10:31 AM **PAPER 59**

B-Ultrasound Surface Positioning Upper Arm Nerve Combined with MIOPP Technique for Upper Humeral Shaft Fracture
Wei Fan, PhD

10:37 AM **PAPER 60**

Syndesmotic Fixation in Unstable Ankle Fractures: Does Early Postoperative Weight Bearing Affect Radiographic Outcomes?
Khalid Al-Hourani, MD; Michael Thomas Stoddart, MBBS; Timothy Chesser, MB, BS, FRCS

10:43 AM **PAPER 61**

Whether Bisphosphonate Delays Bone Healing After Hip Fracture Fixation in Elderly Patients
Ong-Art Phruetthiphat, MD; Yanin Plumarom

10:49 AM Discussion

11:00 AM Adjourn to Industry Symposia