Program*
5th International 3D-Surgery Course - 10 Years of 3D-Surgery
Munich
18th - 21st, Of September 2019

Wednesday 18th: Deformity Correction with Plates

10:00 Welcome Ceremony
Welcome and Introduction
Welcome note from the director of the Department of General, Trauma and Reconstructive Surgery,
University Hospital, LMU Munich
Welcome note from the president of the Orthopaedic Trauma-Osteosynthesis – Turkish trauma association (OTO)
Opening lecture from the president of the Gerhard Küntscher Society

10:30-11:30 Analysis and Planning for Defomity correction
Radiologic standards for analysis and planning
Analysis and EPF-Planning for osteotomies around the knee
Current status of 3-dimensional imaging
The etiology and classification of lower extremity deformities in China: A statistical analysis of 35075 cases

11:30-11:45 Coffee Break

11:45-13:15 Drawing Lab for Osteotomies around the Knee**
Analysis of long standing radiographs and
End-Point-First-Planning (EPF) of osteotomies for plates around the knee

13:15-14:00 Lunch

14:00-14:45 Tips and Tricks for Osteotomies Around the Knee
Osteotomy principles & techniques
Istra-operative alignment control: The x-ray grid method
Osteotomies around the knee - influence on joint stability

14:45-16:00 Sawbone Lab for Locking Plates Around the Knee**
Locking plate for proximal medial tibia open wedge
Locking plate for distal medial femur closed wedge

16:00-16:15 Coffee Break

16:15-17:30 Various Osteotomies around the Knee
Supracondylar Plating for Alignment and Detorsion
Plating for deformity correction at the proximal tibia
Combined Osteotomies
MPFL, osteotomy or both?
Osteotomies in recurrent patella dislocation
Discussion and case presentations on patella dislocation (cases invited - BYO)

17:30-17:45 Closing of the Day - Awards for Best Workshop Results**
Faculty of the Day

18:00 Shuttle for Course Dinner

Thursday 19th: 3D-Surgery by Nails and Lengthening Nails

09:00 - 10:00 Analysis, Planning and Techniques
Analysis and Point-First-Planning (EPF) for lengthening and deformity correction with nails
Deformity correction far from the knee with im-nails
Pushing the limits in nailing for trams
Aspects in lengthening of the humerus with im-nails

10:00 - 10:15 Coffee break and Visit of Industry Exhibition

10:15 - 12:00 Drawing Lab**
Video Session: Digital Analysis and digital EPF-Planning
Analysis and End-Point-First-Planning (EPF) for simultaneous lengthening and deformity correction of femur and tibia

12:00 - 13:00 Lunch

13:00-15:00 Sawbone Labs & Blocking Screws Trainer for Nails
A) Limblengthing and deformity correction with a fully implantable, magnetic driven nail**
B) Deformity correction with retrograde femur nail
C) Blocking screws for deformity correction with nails “3D model-bone” lab for blocking screws

15:00-15:15 Coffee Break

15:15-16:00 Techniques
The South Korean experience of PRECICE/STRYDE nail
Monofocal deformity correction with nails – retrograde femur
Suprapatellar nailing technique in correction of tibial deformities
Lengthening nails in pediatric cases

16:00-17:15 Digital Drawing Lab
Location: Computer Lab - Chirurgische Klinik
A) Limblengthing and deformity correction with a fully implantable, magnetic driven nail**
B) Deformity correction with retrograde femur nail
Digital analysis and End-Point-First-Planning (EPF) by easy access software

17:15-18:00 Augmented Reality Lab
Location: NARVIS Lab - Chirurgische Klinik
Faculty of the Day

18:00 Closing of the Day - Awards for Best Workshop Results**
Friday 20th: 3D-Surgery by External Fixation

09:00 - 10:30 Analysis and Planning , Techniques
- Mal-alignment test - analysis & planning - CORA method, osteotomy rules (Basic rules)
- Ilizarov technology combined with Qin’s surgical methods for the treatment of complex lower limb deformities.
- Combined techniques for the safe correction of very large tibial rotational deformities in adults (IMN & Ex Fix)
- Management of shortening with combined deformities: Plates-Nails-Spider-TSF

Chairs: S Qin, K Tetsworth

10:30 - 10:45 Coffee Break

10:45 - 12:45 TSF Sawbone Lab**
- What is different in TSF in terms of fixation principles, hardware and software (Basic rules)
- Deformation and fracture correction with TSF at sawbone
- Application of Hexapod Frame for Acute Trauma

Chairs: K Tetsworth, Team

12:45 - 13:30 Lunch

13:30 - 14:30 Trauma and Foot and Ankle
- Transverse tibia transport for the treatment of diabetic foot.
- Circular frame for Trauma
- Treatment of complex foot & ankle deformities combined with neurotrophic deficiency

Chairs: G Wozasek, YH Zhang

14:30 - 15:00 Coffee Break and Visit of Industry Exhibition

15:00 - 17:00 Panel Discussion: Extensive Bone Loss
- Reconstruction by Autograft / Masquelet
- Bone Transport with Circular Frame (Pins/Wires)
- Bone Transport with Unilateral Fixation (Collinear Cable)
- Bone Transport with Fully Implantable Nail
- Can Fibula Expansion become a New Solution?
- Osteointegration: The Ultimate Post-traumatic Limb Reconstruction?

Moderators: S Qin, K Tetsworth

17:00 - 17:15 Closing of the Day - Awards for Best Workshop Results**

Faculty of the Day

17:15 - 20:00 Reception in the "Mosaik Saal" and Guided Tour: The "Anatomical Collection"

Saturday 21st: Cadaver Lab

09:00 Introduction to the Cadaver Lab

Cadaver Lab Part 1
- X-ray grid method for intra-operative alignment control
- Retrograde femoral nail with realignment and torsion control
- Suprapatellar nailing for tibia
- Minimal-invasive Fasciotomy of the anterior tibial compartment

F Wolf, M Bilgik, S Sökücü, PH Thaller

12:00-13:00 Lunch

13:00 Cadaver Lab Part 2
- Supracondylar realignment and detorsion by plate
- Minimal invasive open wedge high tibial osteotomy
- Peroneal nerve exposure

S Hinterwimmer, DH Lee, K Tetsworth

15:00 Closing Remarks

M Kucukakaya, PH Thaller, F Wolf

* Final program - subject to minor changes