

| 07:00 Registration Open  |   |
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| <p><b>From the traditional deformity planning to a new x-ray image based automatic deformity correction planning.</b><br/> <b>With the scientific support of the AO External Expert Group</b><br/> <b>Director: Teddy Slongo (Bern, Switzerland)</b></p> |   |
| Part 1   | Part 2  |
| AO Deformity Correction Principles and Concepts  | Introduction to MAXFRAME Multi-Axial Correction System                                      |
| 08:00 to 08:05<br>Welcome and Introduction<br>Teddy Slongo   | 10:30 to 10:50<br>MAXFRAME System Hardware<br>Teddy Slongo                                  |
| 08:05 to 08:20<br>Lower Limb Alignment and Joint Orientation<br>Teddy Slongo   | 10:50 to 11:20<br>MAXFRAME 3D Software & Standard Method<br>Om Lahoti                       |
| 08:20 to 08:40<br>Malalignment and Malorientation in Coronal Plane<br>Dalia Sepulveda  | 11:20 to 11:40<br>Perspective Frame Matching with MAXFRAME 3D Software (PFM)<br>Spence Reid |
| 08:40 to 09:00<br>Uniplanar Deformity Correction (with planning)<br>Dalia Sepulveda  | 11:40 to 12:10<br>Live demonstration of the PFM Software<br>Teddy Slongo / Spence Reid      |
| 09:00 to 09:20<br>Multiplanar Deformity Correction (with planning)<br>Om Lahoti  | 12:10 to 12:30<br>Special consideration: Equinus foot<br>Om Lahoti                          |
| 09:20 to 09:40<br>Oblique Plane Deformity Correction (with planning)<br>Spence Reid  | 12:30 to 12:45<br>Final Q&A/ Wrap Up<br>Teddy Slongo / Spence Reid                          |
| 09:40 to 10:00<br>New: Use of Circular Frame to Close Soft Tissue Defects<br>Spence Reid   |   |
| 10:00 to 10:10<br>Discussion<br>Teddy Slongo   |   |
| 10:10 to 10:30<br>Coffee Break   |   |

**Congenital Limb Deficiency**  
Director: Dror Paley (West Palm Beach, USA)

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|--|---|
| 14:00 to 14:05<br>Welcome and Introduction         | 14:05 to 14:15<br>Congenital Femoral Deficiency Paley type 1a and b |
| 14:15 to 14:25<br>CFD Paley type 2a, b and c       | 14:25 to 15:20<br>CFD Paley type 3a, b and c                        |
| 15:20 to 15:35<br>CFD Discussion                   | 15:35 to 15:50<br>Coffee Break                                      |
| 15:50 to 16:10<br>Fibular Hemimelia Paley type 1&2 | 16:10 to 16:50<br>FH Paley type 3&4                                 |
| 16:50 to 17:05<br>FH Discussion                    | 17:05 to 18:05<br>Tibial Hemimelia                                  |
| 18:05 to 18:20<br>TH Discussion                    |   |
| 19:00 to 20:00 Welcome Cocktail                    |   |

| Room A  | Room B   | Room C   | Room D   | Room E   |
|---|--|--|--|--|
| <b>Instructional Course</b> (Tumor)   | <b>Instructional Course</b> (Paediatric, Upper Limb)   | <b>Symposia</b> (Adult, Trauma)  | <b>Podium Abstracts</b> (Apparatus & Procedures)   | <b>Podium Abstracts</b> (Miscellaneous)  |
| #304 Reconstruction after tumor resection: various innovative approaches and techniques including complication management | #411 Radial club hand: a comprehensive approach including ulnarization, pollicization, and ulnar lengthening   | #521 External Fixation in urgent traumatology: Provisory or Definitive?  |  |  |
| <b>Symposia</b> (Nonunion, Infection)   | <b>Symposia</b> (Adult, Ankle & Foot)  | <b>Podium Abstracts</b> (Paediatric, Lower Limb)   | <b>Symposia</b> (History & Organization)   | <b>Symposia</b> (Apparatus & Procedures)   |
| #467 New concept in the treatment of chronic osteomyelitis  | #567 How to keep dynamic and static balance on functional reconstruction for complex foot and ankle deformity? | #566 Developing a multicenter interdisciplinary approach to limb deformities management in children with arthrogryposis multiplex congenita                | #565 State of the art in top reconstructive surgeries. The most modern and new techniques in reconstructive limb surgery are reviewed, tactics and technique | #267 State of the art in top reconstructive surgeries. The most modern and new techniques in reconstructive limb surgery are reviewed, tactics and technique |
| <b>Magistral Conference</b> (Nonunion, Infection)   | <b>Magistral Conference</b> (Paediatric, Procedures)   | <b>Magistral Conference</b> (Adults, Deformity)  | <b>Magistral Conference</b> (Paediatric, Perthes)  | <b>Magistral Conference</b> (Apparatus & Procedures)   |
| #19 Management of large bone defects made easy: combination of biomaterials and distraction osteogenesis techniques.      | #440 Strategies in deformity correction during childhood   | #419 Femoral Head Reduction Osteotomy: a powerful way to convert a non-spherical cosa magna to a spherical femoral head.                                   | #254 Dome osteotomy technique. The best option for deformities acute corrections. Tips and tricks.   |  |
| 10:30 - 11:00 Coffee-break, Exhibition and Poster Viewing   |  |  |  |  |
| <b>Podium Abstracts</b> (Nonunion, Infection)   | <b>Podium Abstracts</b> (Paediatric, Lower Limb)   | <b>Podium Abstracts</b> (Short Stature & Inequality)   | <b>Podium Abstracts</b> (History & Organization)   | <b>Podium Abstracts</b> (Apparatus & Procedures)   |
| <b>Conference</b> (Adult, Upper Limb)   | <b>Conference</b> (Nonunion, Infection)  | <b>Conference</b> (Paediatric, CPT)  | <b>Conference</b> (Short Stature & Inequality)   | <b>Conference</b> (Apparatus & Procedures)   |
| #418 Post-Traumatic Elbow Reconstruction  | #76 Bone transport vs transport over nail our experience in dominican republic.                                | #35 Congenital Pseudarthrosis of the tibia: the outcome of a pathology-oriented classification system and treatment protocol.                              | #80 Long-term functional and psychosocial outcomes of achondroplastic patients undergoing limb lengthening procedures  | #128 Domestic external fixator used in the treatment of limb deformities - 7859 cases application report   |
| <b>Podium Abstracts</b> (Adult Trauma, Nonunion)  | <b>Podium Abstracts</b> (Paediatric, LL & Foot)  | <b>Symposia</b> (Paediatric, Growth Arrest)  | <b>Symposia</b> (Apparatus & Procedures)   | <b>Podium Abstracts</b> (Adult, Miscellaneous)   |
|   | #516 Reconstruction after growth Arrest  | #436 Femur Lengthening Over The Nail, Bone Transport Over The Nail, Deformity Correction And Then Nailing: Are There Solutions To Make The Procedure Easy? |  |  |
| 13:20 - 15:00 Lunch / Industry Sponsored Symposiums   |  |  |  |  |
| <b>Podium Abstracts</b> (Nonunion, Infection)   | <b>Podium Abstracts</b> (Paediatric, Perthes)  | <b>Podium Abstracts</b> (Short Stature & Inequality)   | <b>Podium Abstracts</b> (Adult, Knee)  | <b>Podium Abstracts</b> (Apparatus & Procedures)   |
| <b>Conference</b> (Nonunion, Infection)   | <b>Conference</b> (Paediatric, CPT)  | <b>Conference</b> (Adult, Polio)   | <b>Conference</b> (Adult, Knee)  | <b>Conference</b> (Apparatus & Procedures)   |
| #393 Current concepts in the management of non-unions and limb reconstruction with limb length discrepancy                | #525 At The End Of The Reconstruction, Fixation With Plate?  | #483 Percutaneous supracondylar osteotomy(SCO) for correction of hand to knee gait and discarding a brace in poliomyelitis                                 | #333 Total arthroplasty in knee osteo-arthritis with extra-articular angular deformity   | #170 3-D deformity assessment, planning and correction - a new paradigm requires a new tools and thinking.   |
| 16:50 - 17:50 Coffee-break, Exhibition and Poster Viewing   |  |  |  |  |
| <b>Podium Abstracts</b> (Nonunion, Infection)   | <b>Podium Abstracts</b> (Paediatric, Hip Dysplasia)  | <b>Podium Abstracts</b> (Short Stature & Inequality)   | <b>Podium Abstracts</b> (Adult, Ankle & Foot)  | <b>Podium Abstracts</b> (Apparatus & Procedures)   |
| 17:50 - 20:00 General Assembly - Room A   |  |  |  |  |
| 20:00 - 23:00 Closing Dinner  |  |  |  |  |

| Room A   | Room B  | Room C  | Room D   | Room E   |
|--|---|---|--|--|
| <b>Instructional Course</b> (Short Stature & Inequality)   | <b>Podium Abstracts</b> (Paediatric, Lower Limb)  | <b>Podium Abstracts</b> (Nonunion, Infection)   |  | <b>Instructional Course</b> (Apparatus & Procedures)   |
| #441 Tibial lengthening with external fixator and nail: how, when, tips and tricks   |   |   |  | #171 3-D printing and its applications to limb reconstruction surgery - bone defects, deformity assessment and 3-D printed jigs and plates |
| 09:00 - 09:20 Welcome to Estoril - Room A  |   |   |  |  |
| <b>Symposia</b> (Adult, LL Trauma)   | <b>Symposia</b> (Paediatric, Perthes)   | <b>Symposia</b> (Nonunion, Infection)   | <b>Podium Abstracts</b> (Apparatus & Procedures)   | <b>Symposia</b> (Basic Research)   |
| #257 What we learned from a war of more than 50 years in Colombia  | #491 A round table discussion regarding the surgical management in the treatment of legg calves perthes disease   | #488 Management of non-unions - infected and aseptic: latest concepts and modalities for the management of difficult non-unions                         |  | #87 Methods to enhance bone formation in distraction osteogenesis - Regeneration of bone defects and limb lengthening deformity correction |
| 10:20 - 10:50 Coffee-break, Exhibition and Poster Viewing  |   |   |  |  |
| <b>Magistral Conference</b> (Paediatric, Perthes)  | <b>Magistral Conference</b> (Adult, LL Trauma)  | <b>Magistral Conference</b> (Tumor)   | <b>Magistral Conference</b> (Apparatus & Procedures)   | <b>Magistral Conference</b> (Apparatus & Procedures)   |
| #248 Treatment and prevention of Legg-Calve-Perthes Disease. A experience of a Lifetime.   | #505 Iliaroz external fixation or locked intramedullary nailing in displaced tibial fractures: a randomized, prospective study of 68 consecutive patients | #374 Biological reconstruction after tumor resection: more than 30 years experience at Kanazawa University  | #202 Lengthening and deformity correction with fully implantable devices - the Reverse Planning Method (RPM)                             | #464 Modular fixator: a new concept in external fixation   |
| <b>Podium Abstracts</b> (Adult, LL Trauma)   | <b>Podium Abstracts</b> (Paediatric, CPT)   | <b>Podium Abstracts</b> (Tumor)   | <b>Podium Abstracts</b> (Apparatus & Procedures)   | <b>Podium Abstracts</b> (Basic Research)   |
| <b>Conference</b> (Cartilage Reconstruction)   | <b>Conference</b> (Paediatric, Blount)  | <b>Conference</b> (Paediatric, LL Techniques)   | <b>Conference</b> (Procedures & Apparatus)   | <b>Conference</b> (Procedures & Apparatus)   |
| #415 Reconstruction of the articular cartilage   | #416 Blount Disease: Treatment Strategies.  | #514 Advancement in bone lengthening in pathological bone, close medullary canal and open physis.   | #381 Intramedullary nail for bone fixation for adolescents and adults with small and fragile bones. New device                           | #287 Evolution and innovation in the external circular system: The same method with a new concept of hardware.                             |
| 12:40 - 15:00 Lunch / Industry Sponsored Symposiums  |   |   |  |  |
| <b>Podium Abstracts</b> (Adult, LL Trauma)   | <b>Podium Abstracts</b> (Paediatric, Fib. Hemimelia)  | <b>Podium Abstracts</b> (Tumour & Soft Tissues)   | <b>Podium Abstracts</b> (Complications)  | <b>Podium Abstracts</b> (Basic Research)   |
| <b>Symposia</b> (Adult, LL Trauma)   | <b>Symposia</b> (Paediatric, Dysplasia)   | <b>Symposia</b> (Paediatric, Blount)  | <b>Symposia</b> (Complications)  | <b>Symposia</b> (Basic Research)   |
| #346 Limits between bone reconstruction and life style. What to do when, what makes sense and which criteria do we have to observe | #143 An update on the surgical management of lower limb deformities and lengthening in skeletal dysplasias  | #18 Blount's disease update: management in children and adolescents. From hemi epiphysiodesis to extensive reconstruction showing new techniques.       | #256 Complications of reconstructive surgery associated with osteogenesis by distraction.  | #277 The regenerate bone - biology, tips and tricks for creating and dealing with the newly formed bone in special conditions              |
| <b>Conference</b> (Paediatric, Tumor)  | <b>Conference</b> (Paediatric, Procedures)  | <b>Conference</b> (Adult, Trauma)   | <b>Conference</b> (Complications)  | <b>Conference</b> (Basic Research)   |
| #417 Malignant tumors in the child. Experience with 100 cases at the chrc  | #48 A multi-targeted approach to Atrophic-Type Congenital Pseudarthrosis of the Tibia using the modified Iliaroz Technique                                | #383 Limb salvage in severe open fractures of the tibia with massive bone and soft tissue loss using the Iliaroz technique                              | #17 Tricks and tips to avoid pins problems and maintain frame stability and pins lengthening during entire of the lengthening procedure. | #29 Distraction histogenesis: the biological insights we learn from it and the novel applications we expect.                               |
| 16:20 - 16:50 Coffee-break, Exhibition and Poster Viewing  |   |   |  |  |
| <b>Podium Abstracts</b> (Adult, LL Trauma)   | <b>Podium Abstracts</b> (Paediatric, Multifocal Joints)   | <b>Podium Abstracts</b> (Adult, Upper Limb)   | <b>Podium Abstracts</b> (Complications)  | <b>Podium Abstracts</b> (Basic Research)   |
| <b>Symposia</b> (Paediatric, Ankle & Foot)   | <b>Instructional Course</b> (Paediatric, Chondrodysplasia)  | <b>Instructional Course</b> (Paediatric, CPT)   | <b>Podium Abstracts</b> (Nonunion & Infection)   | <b>Podium Abstracts</b> (Pelvis, Hip, Knee, Ankle)   |
| #261 Treatment of relapsed club foot.  | #183 Axial correction and lengthening in chondrodysplasia. Classification, indications and contraindications of lengthening. Complications                | #412 Congenital pseudarthrosis of the tibia (cpt): review of the literature and introduction of the paley xunion technique: 100% union, 0% refractures. |  |  |
| 17:50 - 18:50 Closing Ceremony - Room A  |   |   |  |  |

| Room A   | Room B  | Room C  | Room D   | Room E   |
|--|---|---|--|--|
| <b>Instructional Course</b> (Apparatus & Procedures)   | <b>Podium Abstracts</b> (Paediatric, Lower limb)                                | <b>Podium Abstracts</b> (Paediatric Upper Limb)   | <b>Podium Abstracts</b> (Apparatus & Procedures)   | <b>Podium Abstracts</b> (Complications)  |
| #64 The use of a remote controlled magnetic internal limb lengthening nail: a new paradigm for limb reconstruction |   |   |  |  |
| <b>Podium Abstracts</b> (Nonunion, Infection)  | <b>Podium Abstracts</b> (Paediatric, Blount & Divers)                           | <b>Podium Abstracts</b> (Adult, LL & Foot)  | <b>Podium Abstracts</b> (Adult, Ankle & Foot)  | <b>Podium Abstracts</b> (Apparatus & Procedures)   |
| <b>Conference</b> (Paediatric, Clubfoot)   | <b>Conference</b> (History & Organization)                                      | <b>Conference</b> (History & Organization)  | <b>Conference</b> (Apparatus & Procedures)   | <b>Conference</b> (History & Organization)   |
| #448 Neglected clubfoot correction with circular frame   | #420 The Exam for Fellow of the European Board of Orthopaedics and Traumatology | #297 Simplified deformity correction for the beginner and training of junior orthopedic surgeon in deformity correction | #129 Basic configuration and application of Iliaroz external fixator for correction of severe foot deformity | #57 Onsite natural reconstruction theory: the evolution and development of Iliaroz technique in China. |
| 10:30 - 11:00 Coffee-break, Exhibition and Poster Viewing  |   |   |  |  |
| <b>Podium Abstracts</b> (Nonunion, Infection)  | <b>Podium Abstracts</b> (Paediatric, Clubfoot)                                  | <b>Podium Abstracts</b> (Adult, LL Deformity)   | <b>Podium Abstracts</b> (Adult, Ankle & Foot)  | <b>Podium Abstracts</b> (Apparatus & Procedures)   |
| <b>Podium Abstracts</b> (Upper LL Trauma, Infection)   | <b>Podium Abstracts</b> (Paediatric, Ankle & Foot)                              | <b>Podium Abstracts</b> (Adult Hip & Spine)   | <b>Podium Abstracts</b> (Paediatric, LL Deformity)   | 10 Best e-Posters  |
| 13:30 - 13:30 Closing Ceremony - Room A  |   |   |  |  |

