

WEDNESDAY, MARCH 29, 2023

PRE-MEETING COURSE

HENRI BENSAHEL ROOM

PRE-MEETING COURSE

Back pain during growth – a pragmatic 360° experts view

CHAIRS: **BARBARA JASIEWICZ** (*POLAND*), **TOMASZ KOTWICKI** (*POLAND*)

13:00-14:20 **GENERALS**

CHAIRS: **BARBARA JASIEWICZ** (*POLAND*), **MUHARREM YAZICI** (*TURKEY*)

13:00-13:19 Incidence of back pain related to age

Tomasz Potaczek (*Poland*)

13:20-13:39 How back pain influences daily activities and quality of life

Barbara Jasiewicz (*Poland*)

13:40-14:00 Clinical examination and imaging resources in back pain

David M Farrington (*Spain*)

14:00 Discussion

14:20-15:00 Coffee break

15:00-16:30 **STRUCTURAL DEFORMITIES**

CHAIRS: **TOMASZ KOTWICKI** (*POLAND*), **BRICE ILHARREBORDE** (*FRANCE*)

15:00-15:14 Is scoliosis a cause of pain? yes

Brice Ilharreborde (*France*)

15:15-15:29 Is scoliosis a cause of pain? no

Tomasz Kotwicki (*Poland*)

15:30-15:49 Spondylolysis/-listhesis. Principles of management

Muharrem Yazici (*Turkey*)

15:50-16:10 Scheuermann disease

Michal Latalski (*Poland*)

16:10-16:30 Discussion

16:30-18.00 **SPECIFIC CONDITIONS**

CHAIRS: **DAVID M FARRINGTON** (*SPAIN*), **MICHAL LATALSKI** (*POLAND*)

16:30-16:49 Spine tumours in children & adolescents

Ilkka Helenius (*Finland*)

16:50-17:09 Infections in the growing spine

Barbara Jasiewicz (*Poland*)

17:10-17:29 Pelvic incidence in various spine pathologies

Marcin Tyrakowski (*Poland*)

17:30-17:50 Discussion

W JOHN W SHARRARD ROOM

18:00-20:00 **WELCOME CEREMONY**
INVITED LECTURE

Orthopaedics in Poland of yesterday. A bibliophile's tale.
Janusz Skalski (*Poland*)

THURSDAY, MARCH 30, 2023

W JOHN W SHARRARD ROOM

8:00-8:20 **OPENING CEREMONY**

W JOHN W SHARRARD ROOM

08:20-09:20 **BASIC SCIENCE**

CHAIRS: **ROBERT ELBAUM** (*BELGIUM*), **CESAR G GARCÍA FONTECHA** (*SPAIN*)

E-MODERATOR: **CHRISTIAN WONG** (*DENMARK*)

08:21-08:25 A novel Z-plasty lengthening augmentation approach using the Surgical-Fiberlock technology

Thomas Dreher (*Switzerland*)

08:26-08:30 Investigation of local and systemic response of degrading Mg-based implants

Annelie Martina Weinberg (*Austria*)

08:31-08:35 Does telescopic rodding affect residual growth of tibia? An experimental study

Dmitrij Popkov (*Serbia*)

08:35-08:50 Discussion

08:51-08:55 Early outcome of ex-vivo gene therapy for hip dysplasia in Mucopolysaccharidosis type I Hurler

Maurizio De Pellegrin (*Italy*)

08:56-09:00 Effect of K-wire Holes on Torsional Strength of Ovine Tibias on a Simulated Ilizarov Method

Cenk Ermutlu (*Turkey*)

09:01-09:05 The Influence Of Transepiphyseal Implantation Of Biodegradable ZX00 Screws On The Physis Of Juvenile Sheep - Comparison Of Different Surgery Techniques

Annelie-Martina Weinberg (*Austria*)

09:06-09:20 Discussion

W JOHN W SHARRARD ROOM

09:20-10:20 **BEST OF LOWER LIMB DEFORMITY**

CHAIRS: **CHRISTOF RADLER** (*AUSTRIA*), **RALPH SAKKERS** (*NETHERLANDS*)

E-MODERATOR: **SALIH MARANGOZ** (*TURKEY*)

09:21-09:25 A multicenter cohort study of complications and risk factors in intramedullary bone lengthening nails.

Markus Winther Frost (*Denmark*)

09:26-09:30 Fully automated analysis of the anatomic and mechanical axes from pediatric standing lower limb radiographs using convolutional neural networks

Yousif Murad (*Canada*)

09:31-09:35 The Perils of Sleeper Plates in Multiple Hereditary Exostosis: Retrospective Cohort Demonstrates 100% Rate of Tibial Overcorrection due to Bony Exostosis Tethering at the Empty Hole

Emily Dodwell (*United States*)

09:35-09:50 Discussion

09:51-09:55 Congenital Pseudarthrosis of the Tibia - The Cross-Union Technique Dramatically Increases the Success Rate

Karel Urbášek (*Czech Republic*)

09:56-10:00 Distraction Osteogenesis with Femoral PRECICE® nail, Does canal venting influence regenerate consolidation?

Roy Gigi (*Israel*)

10:01-10:05 International Field Test of LIMB-Q Kids: An internationally applicable patient reported outcome measure for lower limb differences

Harpreet Chhina (*Canada*)

10:06-10:20 Discussion

10:20-10:40 *Coffee break*

W JOHN W SHARRARD ROOM

10:40-11:30 **MEET THE MENTOR**

CHAIR: **BLAŻEJ PRUSZCZYŃSKI** (*POLAND*) **DAN COSMA** (*ROMANIA*)

MENTOR: **FRANZ GRILL** (*AUSTRIA*)

W JOHN W SHARRARD ROOM

11:30-12:30 **BEST OF SPINE**

CHAIRS: **RENÉ CASTELEIN** (*NETHERLANDS*), **DROR OVADIA** (*ISRAEL*)

E-MODERATOR: **ILKKA HELENIUS** (*FINLAND*)

11:31-11:35 Night-time detorsion brace in idiopathic Early Onset Scoliosis

Brice Ilharreborde (*France*)

11:36-11:40 Back pain and quality of life 10 years after segmental pedicle screw instrumentation for adolescent idiopathic scoliosis. Comparison to age and gender matched untreated AIS patients and Healthy controls (AIS).

Matti Ahonen (*Finland*)

11:41-11:45 Can fusion surgery for AIS be prevented by means of growth modulation? Results after anterior Vertebral Body Tethering with follow-up until maturity.

Kiril Mladenov (*Germany*)

11:46-11:50 Incidence and risk factors for opioid use disorder after spinal fusion for idiopathic scoliosis

John Vorhies (*United States*)

11:51-11:55 Controlling the progression of curvature in children and adolescent idiopathic scoliosis following the administration of Melatonin, Calcium, and Vitamin D

Alexandru Herdea (*Romania*)

12:11-12:15 Medical Issues Complicate 90 Day Return to the ED after Spinal Deformity Surgery: A Review of 346 Patients

Wojciech Czoch (*United States*)

11:16-12:30 Discussion

12:30-13:30 *Lunch break*

W JOHN W SHARRARD ROOM

14:30-15:30 **LOWER LIMB DEFORMITY 1**

CHAIRS: **JAVIER DOWNEY** (*SPAIN*), **RUDOLF GANGER** (*AUSTRIA*)

E-MODERATOR: **BJÖERN VOGT** (*GERMANY*)

14:31-14:35 Optimizing Femoral Version Measurements in Pediatrics: Inter- and Intra-Rater Reliability
Support the Method of Lee and Posterior Condylar Axis to measure Femoral Version

Emily Dodwell (*United States*)

14:36-14:40 Congenital Knee Dislocation in walking children: our experience in developing countries, 8
cases report

Clara Domenech Bendaña (*Spain*)

14:41-14:45 When correcting leg length discrepancy of 2-5 cm in children aged 8-16 years by means of
proximal tibial epiphysiodesis concomitant proximal fibular epiphysiodesis is rarely needed

Adrien Frommer (*Germany*)

14:46-15:00 Discussion

15:01-15:05 Is postponed tibial lengthening justified in patients with fibular hemimelia Paley types 3 and 4

Dmitrij Popkov (*Serbia*)

15:06-15:10 No bony changes at the telescopic junction of 128 FITBONE lengthening nails

Franck Accadbled (*France*)

15:11-15:15 the use of the distal radius ulna classification system in predicting final limb length – a user
friendly method

Lok Wah Noah So (*China*)

15:16-15:30 Discussion

W JOHN W SHARRARD ROOM

15:30-16:30 **LOWER LIMB DEFORMITY 2**

CHAIRS: **JOACHIM HORN** (*NORWAY*) **DMITRY POPKOV** (*RUSSIA*)

E-MODERATOR: **TANJA KRAUS** (*AUSTRIA*)

15:31-15:35 Role of proximal tibiofibular fixation in leg lengthening with the Ilizarov method in the
achondroplastic patient

Lorenza Marengo (*Italy*)

15:36-15:40 New reference values of central knee anatomy for 8-16-year-old children

Emma Julie Hvidberg (*Denmark*)

15:41-15:45 The values and reliabilities of patellofemoral indexes in pediatric knees

Emel Gönen (*Turkey*)

15:46-16:00 Discussion

16:01-16:05 Growth Stimulation after Cross Union Surgery for Patients with Congenital Pseudarthrosis of the Tibia

Katherine Miller (*United States*)

16:06-16:10 Tension band plating for the correction of angular lower limb deformity – correction rate for idiopathic and non-idiopathic aetiologies in a large cohort

Jaap J. Tol (*Netherlands*)

16:11-16:15 Tethering Caused by Hemiepiphysiodesis with ‘‘ Sleeper Plate ’’: Is it a safe option after deformity correction?

Sancar Bakircioglu (*Turkey*)

16:16:16:30 Discussion

16:30-17:00 *Coffee break*

W JOHN W SHARRARD ROOM

17:00-18:00 **NEUROMUSCULAR 1**

CHAIRS: **IGNACIO MARTINEZ** (*SPAIN*), **UNNI NARAYANAN** (*CANADA*)

E-MODERATOR: **ALEXANDER KREBS** (*AUSTRIA*)

17:01-17:05 Changes in Foot Posture Over the Course of Childhood in Ambulatory Youth with Cerebral Palsy

M Wade Shrader (*United States*)

17:06-17:10 Talo-navicular arthrodesis associated with talocalcaneal screw fixation: is it a reliable option for the treatment of neurological valgus flatfoot in children?

Alina Badina (*France*)

17:11-17:15 Surgical Management of Pes Planus in Children with Cerebral Palsy: a Systematic Review

Michail Kokkinakis (*Germany*)

17:16-17:20 Is Simple Talectomy a Good Salvage Procedure for Severe Foot Deformity?

Marianne Frydendal Nielsen (*Denmark*)

17:21-17:50 Discussion

W JOHN W SHARRARD ROOM

18:00-19:00 **NEUROMUSCULAR 2**

CHAIR: **ELKE VIEHWEGER (SWITZERLAND), WADE SHRADER (UNITED STATES)**

E-MODERATOR: **YRJANA NIETOSVAARA (FINLAND)**

18:01-18:05 Is guided growth at the the proximal femur superior to the natural history in children with cerebral palsy? A bicentered matched pair analysis.

Susanne Lebek (Germany)

18:06-18:10 Chronological order between scoliosis and hip surgery in paralytic diseases: The eternal dilemma.

Ali Ghoul (Lebanon)

18:11-18:15 Is Simple Talectomy a Good Salvage Procedure for Severe Foot Deformity?

Natalie Zusman (United States)

18:16-18:20 Evaluation of Orthopaedic transition services for children and young people with chronic neuromuscular conditions.

Caroline Edwards (United Kingdom)

18:21-18:50 Discussion

W JOHN W SHARRARD ROOM

19:00-20:00 **WOW MEETING Bringing ortho women into academics and research**

CHAIR: **ELKE VIEHWEGER (SWITZERLAND)**

19:00-19:10 Leadership in orthopaedics **Catharina Chiari (Austria)**

19:10-19:20 Academic and research position: where is Italy in 2023? **Elena Samaila (Italy)**

19:20-19:30 Is it harder to publish/present as a woman or minority in ortho? How to improve that? **Cristina Alvés (Portugal)**

19:30-19:40 Spanish Orthopedics. What role do women have nowadays? **Marta Salom (Spain)**

19:40-20:00 Discussion

HENRI BENSAHEL ROOM

14:30-15:30 **DEVELOPMENTAL DYSPLASIA OF THE HIP 1**

CHAIRS: **CRISTINA ALVES** (*PORTUGAL*), **LUIS MORALEDA** (*SPAIN*)

E-MODERATOR: **MONIKA FRYDRYCHOVA** (*CZECH REPUBLIC*)

14:31-14:35 Growth stimulating minimal acetabular pelletoplasty performed alongside hip open reduction: a one stop surgical treatment for infant DDH

Edward Lindisfarne (*United Kingdom*)

14:36-14:40 Identification of Predictors for the Development of Femoral Nerve Palsy in Brace Treatment for Developmental Dysplasia of the Hip

Kishore Mulpuri (*Canada*)

14:41-14:45 Does Brace Treatment Improve Acetabular Dysplasia or Reduce the Rate of Secondary Surgery Following Open Reduction of Developmental Dysplasia of the Hip (DDH)?

Harry Kim (*United States*)

14:46-15:00 Discussion

15:01-15:05 12-to-20 years follow-up of Dega acetabuloplasty in patients with developmental dysplasia of the hip: Is it as effective as expected?

M. Cemalettin Aksoy (*Turkey*)

15:06-15:10 Comparative analysis of the traumaticity of surgical approaches during triple pelvic osteotomy in children with hip dysplasia

Pavel Bortulev (*Russia*)

15:11-15:15 Predictors of Avascular Necrosis of the Femoral Head Following Closed or Open Reduction in the Treatment of Developmental Dysplasia of the Hip: Two-Year Update

Kishore Mulpuri (*Canada*)

15:16-15:20 The association between residual hip dysplasia and total hip arthroplasty in late-detected DDH: 48 patients followed to a mean age of 62 years

Terje Terjesen (*Norway*)

15:21-15:30 Discussion

HENRI BENSAHEL ROOM

15:30-16:30 **DEVELOPMENTAL DYSPLASIA OF THE HIP 2**

CHAIRS: **ANDREAS ROPOSCH** (*UNITED KINGDOM*), **OLE RAHBEK** (*DENMARK*)

E-MODERATOR: **RENATA POSPISCHILL** (*AUSTRIA*)

15:31-15:35 Effect of the Pavlik Harness Used in the Treatment of Developmental Dysplasia of the Hip on Unaided Sitting and Independent Walking Age

Ilhan Bayhan (*Turkey*)

15:36-15:40 Do Children With Normal Acetabuli After Successful Pavlik Harness Treatment For Infantile Hip Dislocation Develop Residual Acetabular Dysplasia At Minimum 4.0 Year Follow-Up?

Vidyadhar Upasani (*United States*)

15:41-15:45 Sagittal lumbo-pelvic alignment in development dysplasia of the hip and acetabular retroversion

Bernhard Heimkes (*Germany*)

15:46-16:00 Discussion

16:01-16:05 Screening for hip dysplasia using pubo femoral distances is more effective than clinical examinations and risk factors.

Hans-Christen Husum (*Denmark*)

16:06-16:10 Radiological development of 69 ultrasound-unstable hip joints according to Graf after successful treatment with plaster cast in human position - a follow-up over 5.5 years

Bettina Westhoff (*Germany*)

16:11-16:15 The rate and risk factors of failure in closed reduction in developmental dysplasia of the hip: a systematic review and meta-analysis

Gyula Domos (*Hungary*)

16:16-16:30 Discussion

16:30-17:00 *Coffee break*

HENRI BENSAHEL ROOM

17:00-18:00 **HIP 1**

CHAIRS: **BETTINA WESTHOFF** (*GERMANY*), **BJARNE MOLLER-MADSEN** (*DENMARK*)

E-MODERATOR: **STEFAN HUHNSTOCK** (*NORWAY*)

17:01-17:05 Advanced Containment Surgery in a Patient Cohort with Legg-Calvé-Perthes Disease (LCPD) Dominated by Severely Affected Cases

Thomas Wirth (*Germany*)

17:06-17:10 Can we predict the risk of avascular necrosis after surgical treatment for severe unstable slipped capital femoral epiphysis?

Samuel Georges (*France*)

17:11-17:15 Morscher's femoral neck lengthening osteotomy through surgical hip dislocation approach for preservation of Perthes and Perthes-like deformities

Mostafa Baraka (*Egypt*)

17:16-17:30 Discussion

17:31-17:35 Total hip arthroplasty in paediatric patients: results from a national registry

Pieter Bas de Witte (*Netherlands*)

17:36-17:40 Does duration of non-weightbearing after femoral varus osteotomy affect radiographic outcome at 2-year follow-up of 8 to 11 year-old patients with Legg-Calvé-Perthes' disease (LCPD)? An international multicenter prospective study

Jennifer Laine (*United States*)

17:41-17:45 Three-dimensional preoperative planning and Patient Specific guides for acetabular reorientation osteotomies in children and adolescents: preliminary report

Nejib Khouri (*France*)

17:46-18:00 Discussion

HENRI BENSAHEL ROOM

18:00-19:00 **HIP 2**

CHAIRS: **ANDRZEJ GRZEGORZEWSKI** (*POLAND*), **NICOLAS NICOLAU** (*UNITED KINGDOM*)

E-MODERATOR: **JIRI CHOMIAK** (*CZECH REPUBLIC*)

18:01-18:05 Modified Dunn procedure in the treatment of slipped capital femoral epiphysis

Jaroslaw Feluś (*Poland*)

18:06-18:10 Ellipsoidal Process of the Femoral Head in Perthes disease: Effect of Prophylactic Hemiepiphyodesis.

Margarita Montero Diaz (*Spain*)

18:11-18:15 Measurements of acetabular morphology in healthy children using 3D computed tomography

Mihir Thacker (*United States*)

18:16-18:30 Discussion

18:31-18:35 Risk Factors for Suboptimal Outcome of FAI Surgery in the Adolescent Patient

Yi-meng Yen (*United States*)

18:36-18:40 Hip stability after femoral lengthening with monolateral external fixator in Congenital Femoral Deficiency

Jędrzej Tschurl (*Poland*)

18:41-18:45 Pathogenic gene variants identified in patients presenting with Perthes or Perthes-like hip disorder

Harry KW Kim (*United States*)

18:46-19:00 Discussion

PREDRAG KLISIC ROOM

14:30-15:30 **TRAUMA 1**

CHAIRS: **ANTONIO ANDREACCHIO** (*ITALY*), **THOMAS WIRTH** (*GERMANY*)

E-MODERATOR: **NICOLAS LUTZ** (*SWITZERLAND*)

14:31-14:35 Bone remodeling after supracondylar fractures in children : myth or reality? A review of 351 cases.

Sarah Bartlomieczyk (*France*)

14:36-14:40 The fare of the malrotated elbow supracondylar fractures. Is Varus really a problem?

Ignacio Sanpera (*Spain*)

14:41-14:45 Supracondylar fracture post op immobilisation; be bold and mobilise soon?

Neil Jones (*United Kingdom*)

14:46-14:50 Does shorter time to treatment of pediatric supracondylar humerus fractures impact clinical outcomes?

Emmanouil Grigoriou (*United*

States)14:51-15:05 Discussion

15:06-15:10 Displaced Medial Epicondyle Fractures in Pediatric Age: Conservative or Surgical Treatm

Ines Balaco (*Portugal*)

15:11-15:15 Resorbable Magnesium Screws for fixation of Medial Epicondyle Avulsion Fractures in Skeletally Immature patients: a Comparison with Kirschner Wires

Danya Falcioni (*Italy*)

15:16-15:30 Discussion

PREDRAG KLISIC ROOM

15:30-16:30 **TRAUMA 2**

CHAIRS: **MANUEL CASSIANO** (*PORTUGAL*), **PIERRE LASCOMBES** (*FRANCE*)

E-MODERATOR: **FEDERICO CANAVESE** (*FRANCE*)

15:31-15:35 Neglected seymour fractures of the hallux in children. Shall we fix or not, transarticular or extra-articular if we fix?

Nevzat Gönder (*Turkey*)

15:36-15:40 Obstetric fractures in cesarean delivery and risk factors as evaluated by pediatric orthopedic surgeons

Alexandru Ulici (*Romania*)

15:41-15:45 Open access for institutional outcomes of pediatric fracture care

Topi Laaksonen (*Finland*)

15:46-16:00 Discussion

16:01-16:05 Pediatric forearm shaft refractures treated by resorbable intramedullary nailing

Gergo Jozsa (*Hungary*)

16:06-16:10 Management of Paediatric Forearm fractures during the COVID-19 pandemic: Outcomes from a large secondary care centre

Akshat Sharma (*United Kingdom*)

16:11-16:15 RESULTS IN RADIAL NECK FRACTURES NEEDING OPEN REDUCTION. Is the prognosis so bad?

Ignacio Sanpera (*Spain*)

16:16-16:30 Discussion

16:30-17:00 *Coffee break*

PREDRAG KLISIC ROOM

17:00-18:00 **TRAUMA 3**

CHAIRS: **FRANCK ACCADBLE** (*FRANCE*), **CAMILLA BETTUZZI** (*ITALY*)

17:01-17:05 Elastic Stable Intramedullary Nailing and Temporary External Fixation for the Treatment of Unstable Femoral Shaft Fractures in Children Aged 5-11 Years Old A Retrospective Study of 28 Cases

Shunyou Chen (*China*)

17:06-17:10 Recovery of gait the first year after intramedullary nail fixation of pediatric femoral shaft fracture

Marianne Flinck (*Sweden*)

17:11-17:15 Number, size, and position of partially threaded screws do not affect the radiological healing of surgically treated displaced femoral neck fractures: a review of 136 children

Shunyou Chen (*China*)

17:16-17:20 Variables influencing radiological fracture healing in children with femoral neck fractures treated surgically: A review of 177 cases

Wentao Wang (*China*)

17:21-17:35 Discussion

17:36-17:40 Osteochondral injuries: The relation between strong clinical suspicion to on-time diagnosis of the fracture and early treatment

Evmorfia Pechlivanidou (*Greece*)

17:41-17:45 Virtual Reality reduces anxiety of children in the plaster room: A Randomised Controlled Trial

Maximiliaan Poppelaars (*Netherlands*)

17:46-18:00 Discussion

PREDRAG KLISIC ROOM

18:00-19:00 **FOOT & INFECTION**

CHAIR: **STEPHANIE BÖHM** (*SWEDEN*)

E-MODERATOR: **CATHARINA CHIARI** (*AUSTRIA*)

18:01-18:05 Quantitative Scoring of Gait Analysis in Ponseti-treated Clubfoot patients; A Pilot study in 62 unilateral clubfeet.

Sally Tennant (*United Kingdom*)

18:06-18:10 Four years follow-up of orthotic treatment in children with clubfoot born between 2015-2017. A national Swedish register study.

Malin Lindeberg (*Sweden*)

18:11-18:15 Recurrent Toe Walking in Pediatric Orthopedic Patients: Idiopathic versus Concomitant Sensory Processing Disorders

Anthony Riccio (*United States*)

18:16-18:20 Sonication for Detection of Bacterial Colonization of Paediatric Orthopaedic Implants

Anastasia Rakow (*Germany*)

18:21-18:25 Diagnostic Utility of Synovial Fluid Cell Counts and CRP in Pediatric Knee Arthritis: A 10-Year Monocentric, Retrospective Study

Nicolas Lutz (*Switzerland*)

18:46-19:00 Discussion

DIETRICH TÖNNIS ROOM

14:30-15:30 **SPINE 1**

CHAIRS: MUHARREM YAZICI (*TURKEY*), **ISMAT GHANEM** (*LEBANON*)

E-MODERATOR: NUNO ALEGRETE (*PORTUGAL*)

14:31-14:35 Can preoperative supine radiographs predict the spinal alignment observed on the operating table during adolescent idiopathic scoliosis surgery (AIS)?

Anne-Laure Simon (*France*)

14:36-14:40 Increasing Cervical Kyphosis Correlates with Cervical Degenerative Disc Disease in Patients with Adolescent Idiopathic Scoliosis

Tyler Tetreault (*United States*)

14:41-14:45 Perioperative Cocktail Injection for Patients with Adolescent Idiopathic Scoliosis Undergoing Posterior Spinal Fusion Surgery

Jeffrey Sawyer (*United States*)

14:46-14:50 Is the intraoperative analysis of spinal alignment obtained after correction sufficient to predict postoperative standing frontal balance in adolescent idiopathic scoliosis (AIS) posterior fusion?

Anne-Laure Simon (*France*)

14:51-14:55 Does the addition of convex uniplanar screws in hybrid constructs improve surgical correction in thoracic Adolescent Idiopathic Scoliosis (AIS) posterior fusion

Brice Ilharreborde (*France*)

14:56-15:20 Discussion

DIETRICH TÖNNIS ROOM

15:30-16:30 **SPINE 2**

CHAIRS: **CAROL HASLER** (SWITZERLAND), **JEROME SALES DE GAUZY** (FRANCE)

E-MODERATOR: **TYLER TETREAULT** (UNITED STATES)

15:31-15:35 Guided Posterior Vertebral Modulation (GPVM): A new technique for correction of adolescent idiopathic scoliosis(AIS).

Gonzalo Mariscal (*Spain*)

15:36-15:40 Sagittal Spinal Malalignment and Complications One Year After Posterior Dynamic Distraction Device Implantation for Adolescent Idiopathic Scoliosis

Kevin Lim (*Singapore*)

15:41-15:55 Does a dedicated a “Scoliosis Team” and Surgical Standardization Improve Outcomes in Adolescent Idiopathic Scoliosis Surgery and is it Reproducible?

Wojciech Czocho (*United States*)

15:46-15:50 Complication Rates for Robotic-Assisted Placement of Over 1,500 Pedicle Screws in Pediatric Posterior Spinal Fusion

Jessica H. Heyer (*United States*)

15:51 – 15:55 To determine if the novel 3D Machine-Vision Image Guided Surgery (MvIGS) (FLASH™) system can reduce radiation exposure, while improving surgical outcomes when compared to 2D fluoroscopic navigation.

Kevin Lim (*Singapore*)

15:56-16:20 Discussion

16:30-17:30 *Coffee break*

DIETRICH TÖNNIS ROOM

17:00-18:00 **SPINE 3**

CHAIRS: **TAH PU LING** (*PORTUGAL*), **FRANCK PLASSCHAERT** (*BELGIUM*)

E-MODERATOR: **DAVID MOORE** (*IRELAND*)

17:01-17:05 Minimally invasive surgery for neuromuscular scoliosis in children.

Souha Bennour (*Tunisia*)

17:06-17:10 Utility of Abdominal Radiographs after Posterior Spinal Fusion for Neuromuscular Scoliosis

Tyler Tetreault (*United States*)

17:11-17:15 Postoperative Urinary Retention Occurs in 1 in 5 Patients after Posterior Spinal Fusion for Neuromuscular Scoliosis

Tiffany Pahn (*United States*)

17:16-17:20 Evidence of Spinal Stiffening following Fusionless Bipolar Fixation for Neuromuscular Scoliosis. A Shear Wave Elastography Assessment of Lumbar Annulus Fibrosus.

Mathilde Gaume (*France*)

17:21-17:50 Discussion

DIETRICH TÖNNIS ROOM

18:00-19:00 **SPINE 4**

CHAIRS: **JORGE MINEIRO** (*PORTUGAL*)

E-MODERATOR: **BRICE ILHARREBORDE** (*FRANCE*)

18:01-18:05 Clinical Relevance of Painful Congenital Early Onset Scoliosis: An MRI-Based Study

Norman Ramirez (*United States*)

18:06-18:10 Greater than 70% of LIV Selection is at L3 or Below in Early Onset Scoliosis. Is There Any Role for a More Selective Approach?

Luke Drake (*United States*)

18:11-18:16 Is Spondylothoracic Dysplasia (Jarcho-Levin) a core surgical indication for a V-osteotomy VEPTR expansion thoracoplasty of the posterior fused ribs?

Norman Ramirez (*United States*)

18:16-18:40 Discussion

FRIDAY, MARCH 31, 2023

W JOHN W SHARRARD ROOM

08:00-09:00 **BEST OF NEUROMUSCULAR**

CHAIRS: **REINALD BRUNNER** (*SWITZERLAND*), **THOMAS DREHER** (*SWITZERLAND*)

E-MODERATOR: **ANA PRESEDO** (*FRANCE*)

08:01-08:05 Medial gastrocnemius muscle growth in ambulant children with spastic cerebral palsy: a prospective longitudinal study

Anja Van Campenhout (*Belgium*)

08:06-08:10 Mortality in scoliosis patients with cerebral palsy with and without spinal deformity surgery – a register-based investigation

Matti Ahonen (*Finland*)

08:11-08:15 Long-term results of hip reconstruction into adulthood in patients with cerebral palsy

Patrick Curran (*United States*)

08:16-08:20 Can a Surgical Vulnerability Score predict outcomes of hip reconstruction in children with severe neuromuscular disability?

Caroline Edwards (*United Kingdom*)

08:21-08:35 Discussion

08:36-08:40 Long-Term Function of Adults with Arthrogryposis Multiplex Congenita

Sharon Eylon (*Israel*)

08:41-08:45 Surgical practice variation and factors influencing indications for specific interventions for hip displacement in children with cerebral palsy

Unni Narayanan (*Canada*)

08:46-09:00 Discussion

W JOHN W SHARRARD ROOM

09:00-09:30 **FEPOS**

W JOHN W SHARRARD ROOM

09:30-10:30 **PRESIDENTIAL GUEST LECTURE/ PRO MAXIMIS MERITIS/EPOS HISTORY**

10:30-11:00 *Coffee break*

HENRI BENSANEL ROOM

11:00-13:00 **GENERAL ASSEMBLY**

13:00-14:00 *Lunch break*

W JOHN W SHARRARD ROOM

15:00-16:00 **UPPER LIMB**

CHAIRS: **SEBASTIAN FARR** (*AUSTRIA*)

E-MODERATOR: **NUNZIO CATENA** (*ITALY*),

15:01-15:05 Upper Limb Lengthening in Children with Spastic Cerebral Palsy: a Common Disappointment!

Ismat Ghanem (*Lebanon*)

15:06-15:10 Guided growth with the eight-Plate implant is effective for the treatment of cubitus varus in children: medium- to long-term results

Sergio Martínez-Álvarez (*Spain*)

15:11-15:15 Feasibility of the Walant technique associated with virtual reality for the surgical management of pediatric hand injuries

Frederique Dizin (*France*)

15:16-15:30 Discussion

15:31-15:35 Treatment of Ulnar Bow in Children with Multiple Hereditary Exostoses

David Feldman (*United States*)

15:36-15:40 Distraction Osteogenesis at the Proximal Third of the Ulna for the Treatment of Masada Type I/IIb Deformities in Children with Hereditary Multiple Exostoses: A Retrospective Review of 20 Cases

Yunan Lu (*China*)

15:41-15:45 Treatment methods in symbrachydactyly: a tendency towards conservative treatment in more severe cases

Sergio Martínez-Álvarez (*Spain*)

15:46-15:50 Acute Radial Osteotomy for the Treatment of Wrist Deformity in Hereditary Multiple Exostoses

Tomasz Albrewczyński (*Poland*)

15:51-16:00 Discussion

W JOHN W SHARRARD ROOM

16:00-17:00 **GENETICS & METABOLISM STUDY GROUP**

CHAIR: **JOACHIM HORN** (*NORWAY*)

16:00-16:12 Phenotypical Classification in MO

Giovanni Trisolino (*Italy*)

16:13-16:15 Discussion

16:16-16:27 Upper Extremity in MO

Arnad van der Zwan (*Netherlands*)

16:28-16:30 Discussion

16:31-16:42 The Hip and Knee in MO

Stefan Huhnstock (*Norway*)

16:43-16:45 Discussion

16:46-16:57 The Ankle in MO

Thomas Wirth (*Germany*)

16:58-17:00 Discussion

W JOHN W SHARRARD ROOM

17:00-18:00 **UPPER EXTREMITY STUDY GROUP**

CHAIRS: **NUNZIO CATENA** (*ITALY*), **SEBASTIAN FARR** (*AUSTRIA*)

17:01-17:05 Elbow and radial head dislocation in neonatal brachial plexus palsy: a rare complication

Joe Rassi (*Lebanon*)

17:06-17:10 Is the thumb saving surgery in Blauth type IIIB thumb hypoplasia acceptable?

Hidehiko Kawabata (*Japan*)

17:11-17:15 The Oberlin and McQuillan flap for the treatment of Manske type IIb cleft hands in children

Frédérique Dizin (*France*)

17:16-17:30 Discussion

17:31-17:35 Supracondylar Osteotomy for the Treatment of Post-Traumatic Cubitus Varus in Children: A Cross-Sectional Descriptive Study of Long-Term Clinical Results and Two Different Fixation Methods

Ismat Ghanem (*Lebanon*)

17:36-17:40 Osteotomy design of the proximal ulna for radial head reduction in chronic Monteggia fracture

Lin Feng Zeng (*China*)

17:41-17:45 A Novel Surgical Technique for Paediatric Essex Lopresti Injuries and Systematic Review in Current Surgical Techniques

Emma Fossett (*United Kingdom*)

17:46-18:00 Discussion

HENRI BENSAHEL ROOM

15:00-16:00 **CONGENITAL, SYNDROMIC & DYSPLASIAS**

CHAIRS: **DARKO ANTICEVIC** (*CROATIA*), **MARTA SALOM** (*SPAIN*)

E-MODERATOR: **STEFANA CARP** (*ROMANIA*)

15:01-15:05 Spinopelvic parameters in young children with achondroplasia: ten year follow-up

William Mackenzie (*United States*)

15:06-15:10 Is there a relationship between the functional level of juvenile and adolescent patients with Down syndrome and hip dysplasia?

María Galán-Olleros (*Spain*)

15:11-15:15 A Multisite Study Evaluating the Frequency and Characteristics of Non-Ossifying Fibromas in Children with Congenital Forms of Rickets

Natalie Zusman (*United States*)

15:16-15:30 Discussion

15:31-15:35 Intramedullary Rodding of Long Bones in Patients with Osteogenesis Imperfecta: To Supplement with a Plate or Not to Supplement with a Plate?

Jeanne Franzone (*United States*)

15:36-15:40 Technique of Telescopic Nailing of the Femur by Retrograde Approach (FRA) in Patients with Osteogenesis Imperfecta: Clinical and Radiological Outcomes.

Mathilde Gaume (*France*)

15:41-16:00 Discussion

HENRI BENSAHEL ROOM

16:00-17:00 **LOWER LIMB STUDY GROUP**

16:00-16:10 IM fracture treatment in the pediatric population

Pierre Lascombes (*France*)

16:11-16:20 Lengthening with IM nails in children and adolescents

Franck Accadbled (*France*)

16:21-16:30 Deformity correction with IM nails with and without lengthening

Christof Radler (*Austria*)

16:30-16:40 Telescopic nails in OI and special indications

Jeanne Franzone (*United States*)

16:41-17:00 Discussion

HENRI BENSAHEL ROOM

17:00-18:00 **NEUROMUSCULAR STUDY GROUP**

CHAIR: **THOMAS DREHER** (*SWITZERLAND*)

17:00-17:10 Advanced techniques for flat foot surgery in CP

Michail Kokkinakis (*United Kingdom*)

17:11-17:20 The clinical importance of Silfverskiöld test

Marek Jozwiak (*Poland*)

17:21-17:30 Long-term effects of botulinum toxin treatment of gastrocnemius in CP

Anja Van Campenhout (*Belgium*)

17:31-17:40 News on hip and spine problems in low tone conditions

Muharrem Yazici (*Turkey*)

17:41-17:50 Advances in orthotic management in neuromuscular conditions

Elke Viehweger (*Switzerland*)

PREDRAG KLISIC ROOM

15:00-16:00 **SPORTS**

CHAIRS: **MARCO TURATI** (*ITALY*), **NICK SEKOURIS** (*GREECE*)

E-MODERATOR: **JAAKO SINIKUMPU** (*FINLAND*)

15:01-15:05 Recurrent Patellar Dislocation: MPFL reconstruction vs. lateral release and medial imbrication

Alexandru Ulici (*Romania*)

15:06-15:10 Growth disturbances after transphyseal anterior cruciate ligament reconstruction in children

Franck Accadbled (*France*)

15:11-15:15 Functional Outcomes of Non-Operative Management of First-Time Patellar Dislocation in the Pediatric Population

Leila Mehraban Alvandi (*United States*)

15:16-15:30 Discussion

15:31-15:35 Anterolateral augmentation procedures during anterior cruciate ligament reconstructions in skeletally immature patients – scoping review of surgical techniques and outcomes

Martijn Dietvorst (*Netherlands*)

15:36-15:40 The management of isolated meniscal tears in skeletally immature children. An international expert consensus

Nicolas Nicolau (*United Kingdom*)

15:41-15:45 Medial Patellofemoral Ligament (MPFL) Reconstruction utilizing Allografts in Skeletally Immature Patients

Emmanouil Grigoriou (*United States*)

15:46-16:00 Discussion

PREDRAG KLISIC ROOM

16:00-17:00 **TRAUMA STUDY GROUP: ANKLE AND HINDFOOT FRACTURES**

CHAIRS: **NICOLAS LUTZ** (*SWITZERLAND*), **MELINDA WITBREUK** (*NETHERLANDS*)

16:00-16:20 Distal tibia fractures

María Pia Monjardino (*Portugal*)

16:21-16:40 Hindfoot fractures

Salih Marangoz (*Turkey*)

16:41-17:00 Discussion

PREDRAG KLISIC ROOM

17:00-18:00 **SPORTS STUDY GROUP**

CHAIRS: **MARCO TURATI** (*ITALY*), **NICK SEKOURIS** (*GREECE*)

E-MODERATOR: **JAAGO SINIKUMPU** (*FINLAND*)

17:01-17:05 Anterior laxity and graft ligamentization after transphyseal anterior cruciate ligament reconstruction

Franck Accadbled (*France*)

17:06-17:10 FIFA 11+ kids program from science to sports fields: the struggle of prevention!

Stephane Tercier (*Switzerland*)

17:11-17:25 Discussion

17:26-17:30 MPFL reconstruction: the Chassaing technique vs tunnel technique.

Joaquin Nuñez de Armas (*Spain*)

17:31-17:35 Does the flexed knee position improve the diagnostic performance of MRI for meniscal RAMP lesions?

Franck Accadbled (*France*)

17:36-17:40 Etiology and type of patellar instability predict the rate of failure after patellar realignment in children and adolescents

Giovanni Trisolino (*Italy*)

17:41-17:45 Successful Fixation of Traumatic Articular Cartilage-Only Fragments in the Juvenile and Adolescent Knee: A Case Series

Emmanouil Grigoriou (*United States*)

17:46-18:00 Discussion

DIETRICH TÖNNIS ROOM

15:00-16:00 **TUMOURS & MISCELLANEOUS**

CHAIRS: **BARTU SARISOZEN** (*TURKEY*), **INÉS BALACÓ** (*PORTUGAL*)

E-MODERATOR: **MICHIEL VAN DE SANDE** (*NETHERLANDS*)

15:01-15:05 Physeal distraction before excision of metaphyseal malignant bone tumors in children

Carla Carbonell-Rosell (*Spain*)

15:06-15:10 Surgical treatment of benign lesions of the proximal femur in children

Ryszard Tomaszewski (*Poland*)

15:11-15:15 The Prevalence of Malignant Transformation in Pediatric Patients with Multiple Hereditary Exostoses

Arun Hariharan (*United States*)

15:16-15:30 Discussion

15:31-15:35 The Reliability of the Modified Fels Knee Skeletal Maturity System

Raymond Liu (*United States*)

15:36-15:40 Sports Participation in Patients with Lower Limb Deficiencies

Katherine Miller (*United States*)

15:41-16:00 Discussion

DIETRICH TÖNNIS ROOM

16:00-17:00 **SPINE STUDY GROUP: HOW DO I GET OUT OF THE MAZE?**

CHAIR: **BRICE ILHARREBORDE** (*FRANCE*)

16:00-16:10 How to manage spondylolisthesis and AIS

Jorge Mineiro (*Portugal*)

16:11-16:20 Scoliosis and NF1. It's more than just another curve.

David M Farrington (*Spain*)

16:21-16:30 How to manage Charcot spine

Sebastien Pesenti (*France*)

16:31-16:40 The importance of PI in Scheuermann disease

Muharrem Yazici (*Turkey*)

16:41-16:50 The complex management of OI severe deformity

Carol Hasler (*Switzerland*)

DIETRICH TÖNNIS ROOM

17:00-18:00 **TUMOUR & INFECTION STUDY GROUP**

CHAIR: **MICHIEL VAN DE SANDE** (*NETHERLANDS*)

17:00-17:30 RECONSTRUCTIONS AFTER TUMOR RESECTION IN THE VERY YOUNG

Marco Manfrini (*Italy*)

17:30-18:00 Case presentations

Study Group Panel

SATURDAY, APRIL 1, 2023

W JOHN W SHARRARD ROOM

08:00-09:00 **BEST OF TRAUMA**

CHAIRS: **ANNELIE WEINBERG** (*GERMANY*), **PIERRE JOURNEAU** (*FRANCE*),

E-MODERATOR: **MELINDA WITBREUK** (*NETHERLANDS*)

08:01-08:05 Natural outcome and life quality after pediatric spinal compression fractures

Sofia Belov (*Finland*)

08:06-08:10 Patient-reported Outcomes Measurement Information System (25-PROMIS®) Scores for adolescents and young adults with a history of pelvic fractures in childhood

Yasmin D Hailer (*Sweden*)

08:11-08:15 Effect of the number, size, and location of cannulated screws on the incidence of avascular necrosis of the femoral head in pediatric femoral neck fractures: a review of 153 cases

Wentao Wang (*China*)

08:16-08:30 Discussion

08:31-08:35 Pediatric forearm fractures treated with bio absorbable intramedullary nails - lessons learned from 118 surgeries

Marcell Varga (*Hungary*)

08:36-08:40 Predictors for Operative Treatment in Pediatric Proximal Third Both Bone Diaphyseal Forearm Fractures in children Include Age and Translation, but not Initial Angulation

David Segal (*United States*)

08:41-08:45 Which Pediatric Supracondylar Humerus Fractures Are At High Risk for Conversion to Open Reduction?

Errol Mortimer (*United States*)

08:46-09:00 Discussion

W JOHN W SHARRARD ROOM

09:00-10:00 **BEST OF THE BEST**

CHAIRS: **IGNACIO SANPERA** (*SPAIN*), **DAN SUCATO** (*UNITED STATES*)

E-MODERATOR: **DAVID M. FARRINGTON** (*SPAIN*)

09:01-09:05 Rotational Guided Growth: Unwinding a New Technique

Claire Shannon (*United States*)

09:06-09:10 Long-term follow-up of untreated individuals with increased femoral anteversion at a mean age of 45.2 years

Anders Grønseth (*Norway*)

09:11-09:15 Rule Breakers Achieve Successful Shoulder Balance: Unraveling the Myth of UIV Selection Criteria

Luke Drake (*United States*)

09:16-09:30 Discussion

09:31-09:35 Health-related quality of life in Idiopathic toe walkers:- A multicentre prospective study.

Alpesh Kothari (*United Kingdom*)

09:35-09:40 Validation of the Patient/Parent Reported Outcome Measure of Fracture Healing (PROOF-UE) Questionnaire for Upper Extremity Fractures in Children

Unni Narayanan (*Canada*)

09:41-09:45 Less than 10% of Patients' Major Cobb Angle Improved After Vertebral Body Tethering Surgery Following First Erect Radiograph

Tiffany Pahn (*United States*)

09:46-10:00 Discussion

W JOHN W SHARRARD ROOM

10:00-11:00 **BEST E-POSTERS**

CHAIRS: **HAKAN OMEROGU** (*TURKEY*), **MANOJ RAMACHANDRAN** (*UNITED KINGDOM*)

E-MODERATOR: **TOMASZ KOTWICKI** (*POLAND*)

10:01-10:03 Spica cast modification project- primary results

David Segal (*Israel*)

10:04-10:06 The incidence of physeal fractures in the lower limb and the frequency of premature physeal closure, limb length discrepancy, and angular deformity

Christian Faergemann (*Denmark*)

10:07-10:09 Management of Syndesmotic Ankle Injuries: Results of a Survey of POSNA Members

Collin May (*United States*)

10:10-10:12 The flipping wedge osteotomy: how Virtual Surgical Planning (VSP) suggested a simple and reliable type of osteotomy

Alessandro Depaoli (*Italy*)

10:13-10:30 Discussion

10:31-10:33 Can Collapat II help reducing perioperative blood loss in adolescent idiopathic scoliosis surgery

Anne-Laure Simon (*France*)

10:34-10:36 Factors influencing Treatment Time in Conservative DDH Management

Tanja Kraus (*Austria*)

10:37-10:39 Minimally invasive surgery vs standard posterior approach in the treatment of idiopathic scoliosis: a two years follow-up retrospective study

Giovanni Ciani (*Italy*)

10:40-11:00 Discussion

11:00-11:30 *Coffee break*

W JOHN W SHARRARD ROOM

11:30-12:30 **AWARDS 2023, TRAVELLING FELLOWSHIPS, 2023 RESEARCH GRANTS WINNERS**

CHAIRS: JAN DUEDAL RÖLFING (*DENMARK*), CÉSAR GALO GARCÍA FONTECHA (*SPAIN*)

12:01-12:05 Welcome

Chairs

12:06-12:10 Effectiveness, treatment adherence and quality of life impact of day-time brace vs night-time brace: A randomized clinical trial.

Alejandro Peiró-García (*Spain*)

12:11-12:15 EPOS Discoid Meniscus (DiMe) Project: a Prospective Multicentric Cohort Protocol

Marco Turati (*Italy*)

12:16-12:20 The correlation between clubfoot outcomes with relapse and selected treatment. An international multi-centre study protocol and preliminary results.

Yael Gelfer (*United Kingdom*)

12:21-12:25 The CARE study: CAsting and REhabilitation for osteochondral lesions of the talus in the skeletally immature. Improving clinical outcomes and quality of life.

Tristan Buck (*Netherlands*)

12:26-12:30 Closing remarks

W JOHN W SHARRARD ROOM

12:30-13:00 **PRESIDENCY TRANSFER**

W JOHN W SHARRARD ROOM

13:00-13:30 **CLOSING REMARKS**

