

ABSTRACT PROGRAMME

THURSDAY

ABSTRACT SESSION 1

11. Does a Providence Nighttime Brace correct Adolescent Idiopathic Scoliosis in 3D?

Annemie J Sluijter; Moyo C Kruyt; Keita Ito; René M Castelein; Peter R Seevinck; Tom PC Schlösser

12. Towards a Universal Scoliosis Bracing Registry: International Consensus-Based Harmonization of Case Report Forms of Major Registries

Annemie J Sluijter; Ane Simony; Ashley Cole; Paul Gerdhem; Benjamin Roye; Alexander Park; Michael Brown; Fabio Zaina; Tom PC Schlösser

13. A Comparative Co-Design Study of Adolescents' and Caregivers' Perspectives on Mobile App Content for Conservative Scoliosis Management

Kamila Sykorova; Anna Mathew; Nenad Pavel; Parisa Gazerani; Trust Saidi; Mette Fløystad Kvammen; Minna Pikkariainen

14. "I am trapped in my body": Bodily Experiences During Brace Treatment in Adolescents with Idiopathic Scoliosis

Marit Fure; Kristine Risum; Lena Fauske; Hedda Eik

15. Paraspinal Muscle Activation Asymmetry During Walking and Running in Adolescents with Idiopathic Scoliosis

Sara Ylijärvi; Mikko Mattila; Andrey Zhdanov; Jari Arokoski; Juha-Pekka Kulmala

16. Scoliosis Screening in a Healthy Adolescent Cohort: A Proof-of-Concept Study on Stepwise Screening Using the Forward Bending Test Followed by 3D Spinal Ultrasound

P.P.G. Lafranca; I.A. van der Linden; M.C. Kruyt; K. Ito; L.W. van Rhijn; C.K. van der Ent; T.P.C. Schlösser

17. Conservative Treatment of Idiopathic Scoliosis in Norway: A Retrospective Cohort Study

Helene Abendstein Kjellmo, MSc; Jon Dahl, MD, PhD

THURSDAY

ABSTRACT SESSION 2

21. Understanding the Impact of Etiology on Mechanical Revision Rates and Patient-Reported Outcomes in Adult Spinal Deformity Surgery

M. L. Gehrchen; S. Ohrt-Nissen; T. C. G. Fornitz; M. Heegaard; L. Ragborg; N. Tøndevold; B. Dahl; M. Gehrchen

22. Five-Year Follow-Up International Retrospective Cohort Study on the Use of a One-Way Self-Expanding Rod System in Patients with Neuromuscular Scoliosis

Dr. A.M. Post; Dr. M. Gaume; Dr. Dema; A. Stadhouder; F. Solla; Dr. Cinnella; E. Janssen; Dr. L. Miladi, PhD; Prof. Dr. B.J. van Royen

23. Surgical Treatment for High-Grade Spondylolisthesis – A Cross-Sectional Follow-Up of 16 Operated Patients

Thomas Johan Kibsgård, MD, PhD; Kathrine Framås Syversen, Stud. Med.

24. Minimal Invasive, Growth-Sparing Surgery for the Treatment of Adolescent Idiopathic Scoliosis Patients: Early Results of an International Retrospective Cohort Study

A.M. Post, MD; P. Neagoe, MD; J. Mielenbrink, MD; E. Janssen, PhD; Prof. Dr. B.J. van Royen

25. A Two-Year Multicenter International Retrospective Cohort Study Comparing the Efficacy and Complication Rates of the OWSER and MCGR Systems in the Treatment of Spinal Muscular Atrophy

A.M. Post; L. Colombo; L. Miladi; J.P. Kaleeta-Malu; Dr. Boissiere; Dr. Kruyt; Dr. Renkens; E. Janssen; B.J. van Royen

26. Postoperative Outcomes of Ponte Osteotomies vs. No Osteotomy in the Treatment of Adolescent Idiopathic Scoliosis: A Multicenter, Randomized Clinical Trial

Matti Ahonen; Johanna Syvänen; Linda Helenius; Aron Frantzen; Mikko Mattila; Tanja Perokorpi; Jenni Jalkanen; Juha Suuronen; Antti Saarinen; Ilkka Helenius

FRIDAY

ABSTRACT SESSION 3

31. SRS-22r Normative Data from a Population Without Back Issues – A Systematic Review and Meta-Analysis

Kristian Havndrup Rasmussen; Ane Simony; Rene Castelein; Frederik Damsgaard Højsager

32. Two Decades of Change: Nationwide Trends in Scoliosis Surgery in Denmark, 2001–2018

Frederik Damsgaard Højsager; Line Parst Sørensen; Ane Simony

33. Systematic, Comprehensive Radiographic Analysis of Early-Onset Scoliosis: Evaluating the Reliability and Validity of a Point-Based Landmark Workflow

A. Abdi; R. Maat; V. Arbabi; M.C. Kruijt; T.P.C. Schlösser

34. In Vivo Retensioning of a Dynamic Spinal Implant in a Göttingen Minipig Model: A Proof-of-Principle Study

A. Abdi; M. Wesselink; J. Kok; T.P.C. Schlösser; M. Asseln; G.J.M. Tuijthof; M.C. Kruijt

35. Prevalence and Predictors of Pre-Operative Vitamin D Deficiency in a Tertiary Paediatric Spine Surgery Unit for 615 Patients Undergoing Scoliosis Corrective Surgery in London, UK

Jonathan Lucas; John Wong; Richard Pinder

36. A Pre-Operative Surgical Education Programme as Part of Surgical Pre-Assessment for Paediatric Scoliosis Surgery, Increased Preparedness and Understanding for Surgery, Reduces Anxiety, and Was Associated with Reduced Length of Stay

Jonathan Lucas; John Wong; Jenny Nicholson; Richard Pinder

37. Development and Validation of a Multivariable Prognostic Model for Nighttime Brace Treatment in Adolescent Idiopathic Scoliosis

Vojtech Capek, MD, PhD; Helena Brisby, MD, PhD; Olof Westin, MD, PhD

FRIDAY

ABSTRACT SESSION 4

41. Early Vertebral Rotation Before the Adolescent Growth Spurt in Subjects at High Risk for Adolescent Idiopathic Scoliosis

Annemie J Sluijter; Peter PG Lafranca; JOE Bennink; René M Castelein; Moyo C Kruyt; Keita Ito; Tom PC Schlösser

42. Torsion and Asymmetry of Intervertebral Discs Versus Vertebral Bodies in Mild Adolescent Idiopathic Scoliosis

Annemie J Sluijter; Peter PG Lafranca; Moyo C Kruyt; Keita Ito; René M Castelein; Tom PC Schlösser

43. Scoring the (Un)seen? Patients' and Peers' Perceptions in Evaluation of Physical Appearance in Adolescent Idiopathic Scoliosis

Van de Fliert, D.G.; van Hooff, M.L.; Bisseling, P.; de Kleuver, M.; Rutges, J.P.H.J.; Schlösser, T.P.C.; Kempen, D.H.R.

44. Improvement of Aesthetics in Scoliosis Patients Using Pattern-Specific Rehabilitation

Frederik Damsgaard Højsager; Lisa Elliot; Pernille Winsløv Wied; Maarten de Groot; Mathilde Poos; Robyn Tesselaar; Rene M Castelein; Ane Simony

45. Serum Proteomic Signature Associated with Bone Mineral Density at Youth in Individuals With and Without Idiopathic Scoliosis

Georgopoulos I; Cheng T; Diarbakerli E; Schizas N; Gerdhem P

46. Serum Proteomic Signature in Idiopathic Scoliosis

Cheng T; Einarsdottir E; Diarbakerli E; Gerdhem P

SATURDAY

WILLNER SESSION

51. Intrathecal Morphine Versus Continuous Epidural Analgesia After Adolescent Idiopathic Scoliosis Correction: A Retrospective Practice-Change Cohort Study

Lisa Grytås; Jonathan Mathers; Torstein Lyngøy; Jarle Ottesen; Truls Hanestad; Thomas Natvik. Haukeland Universitetssjukehus, Bergen

52. Reducing Allogenic Blood Transfusion in Paediatric Scoliosis Surgery – Reporting Twenty-Six Years of a Multi-Disciplinary, Evidence-Based Quality Improvement Project from a Tertiary Paediatric Spine Surgery Unit in the United Kingdom

Jonathan Lucas; John Wong; Richard Pinder

53. Evaluating the Impact of Lowest Instrumented Vertebra in Selective Fusion of Main Thoracic AIS with Type C Lumbar Curves

Jacquelynn Matthews; Thomas Fornitz; Trine Kongensgaard; Antti Saarinen; Brandon Ramo; Ilkka Helenius; Martin Gehrchen; Benny Dahl; Megan Johnson; Søren Ohrt-Nissen

54. In Vivo Electromagnetic Tracking of Viscoelasticity During Scoliosis Induction in Göttingen Minipigs

A. Abdi; M. Wesselink; J. Kok; T.P.C. Schlösser; M. Asseln; G.J.M. Tuijthof; M.C. Kruijt

55. Development and Validation of the Pelvic Maturity Indicators: A Novel Skeletal Maturity Classification Integrating the Risser Sign and Triradiate Cartilage Maturation

Vojtech Capek, MD, PhD; Sara Knutsson, MD; Per Wessberg, MD; Helena Brisby, MD, PhD; Olof Westin, MD, PhD

56. Brace Yourself: Is 70% In-Brace Correction Correlated with Better Outcomes in Nighttime Brace?

Frederik Højsager; Elias Diarbakerli; Anastasios Charalampidis; Paul Gerdhem; Ane Simony