

SOSORT Presentation Schedule

(Note: All times are in Eastern Standard [New York City] Time Zone)

Thursday April 29 (9:45am – 10:45am)

GROUP 1 (9:45)

49 Complication Rates of Vertebral Body Tethering Among Other Operative Treatments for Early Onset Scoliosis: A Meta Analysis
Vincent Yao | Zachariah Samuel | Chisom Madu | Aivi A. Rahman

43 Applying artificial intelligence to aid Cobb angle measurement on 3D ultrasound images for children with adolescent idiopathic scoliosis – a preliminary study
Jason Wong | Marek Reformat | Eric Parent | Edmond Lou

99 The Immediate Effects of Schroth Scoliosis-Specific Exercises on Kyphosis and Lordosis in Adolescent Idiopathic Scoliosis Measured with 3D Ultrasound Imaging
Stefan Potgieter | Eric Parent | Alex Su | Kyle Stampe | Sarah Southon | Eric Huang | Kathleen Shearer | Marc Moreau | Jim Mahood | Edmond Lou

GROUP 2 (10:05)

32 Surface Topography Evaluation Schroth Exercise in Adolescents with Idiopathic Scoliosis: A Randomized Controlled Trial (RCT)
Vivechana Acharya | Nada Mohamed | Mohammad Mehdi Ebadi | Eric C. Parent | Lindsey Westover

58 Reliability of a Full-Body Topographic Scanner for Automated Analysis of Spinal Deformity
Benjamin Groisser | Howard J. Hillstrom | Ankush Thakur | Kyle W. Morse | M. Timothy Hresko | Ron Kimmel | Alon Wolf | Roger F. Widmann

76 The effectiveness of combined bracing and specific exercise (S4D) in adolescent idiopathic scoliosis based on SRS and SOSORT criteria: a prospective study
Rodrigo Mantelatto Andrade | Ariane V Schmidt | Milene E Callegari Ferreira | Carlos Eduardo Gonçalves Barsotti | Silvia Maria Amado João | Ana Paula Ribeiro

GROUP 3 (10:25)

101 Increasing Brace Comfort, Durability and Sagittal Balance through Semi-rigid Pelvis Material does not change ShortTerm Very-Rigid Sforzesco Brace Results. A Matched CaseControl Study of 436 High Degree AIS not previously braced
Stefano Negrini | Fabrizio Tessadri | Francesco Negrini | Marta Tavernaro | Fabio Zaina | Andrea Zonta | Sabrina Donzelli

25 Correlation between interface corrective force and discomfort level of AIS patients under brace treatment
Huan Wang | Xianglong Meng | Daniel Tetteroo | Frank Delbressine | Keita Ito | Yong Hai | Panos Markopoulos

46 The measurement of health-related quality of life of patients with idiopathic scoliosis – comparison of ISYQOL versus SRS-22 questionnaire Krzysztof Korbel | Edyta Kinel | Piotr Janusz | Mateusz Kozinoga | Dariusz Czaprowski | Tomasz Kotwicki

Friday April 30 (9:45am – 10:45am)

GROUP 1. (9:45)

90 Comparison of Rasterstereography and Radiographic Measurements in Coronal Plane Deformities

Pinar Taskin | Funda Ozdemir | Altug Yucekul | Irem Havlucu | Tais Zulemyan | Meral Bayramoglu | Caglar Yilgor | Ahmet Alanay

35 Can Bone Health Improvement after Initial 2-Year Calcium and Vitamin D Supplementation be Maintained in Idiopathic Scoliosis after 4-Year of Treatment Discontinuation – A Prospective Randomized Double-blinded Placebo-controlled Trial

Tsz-ping Lam | Guangpu Yang | Henry Pang | Benjamin Hon-kei Yip | Wayne Yuk Wai Lee | Alec Lik-hang Hung | Nelson Leung Sang Tang | Kenneth Kin Wah To | Yong Qiu | Jack Chun-yiu Cheng

30 Non-idiopathic scoliosis is related to intraspinal and extraspinal disorders in a related manner

Franz Landauer | Klemens Trieb

GROUP 2 (10:05)

78 Polymorphism in the FBN1 gene associated with the risk of developing adolescent idiopathic scoliosis

Gustavo Borges Laurindo de Azevedo | Antônio Eulálio P Araújo Junior | Luis Antonio Medeiros Moliterno | Jessica Christinny Santos Rocha | Rodrigo Mantelatto Andrade | Helton Luiz Aparecido Defino | Jamila Alessandra Perini

41 The relations between genetic, biomechanical or morphometric properties of paraspinal muscle and spinal curvature in teenagers with adolescent idiopathic scoliosis – A systematic review

Arnold Wong

47 Is the Brace Treatment failures always an expression of the limitations of conservative treatment?

Angelo Gabriele Aulisa | Marco Giordano | Francesco Falciglia | renato maria toniolo | Lorenzo Aulisa

GROUP 3 (10:25)

31 Does a Cheneau Style Brace Improve Curve Correction in Coronal and Sagittal Planes Compared to Standard TLSO?

Ali Asma | Armagan Can Ulusaloglu | James Richard Bowen | Petya Yorgova | Heather Michalowski | Harry J Lawal III | Alicia McCharty | William Giles Stuart Mackenzie | Peter Gabos | Suken Shah

65 Efficacy of brace treatment in patients with Scheuermann kyphosis

Mohammad Reza Etemadifar | Masoud Mahdinezhad Yazdi

55 Is Nighttime Bracing Effective in Adolescent Idiopathic Scoliosis? A Meta-analysis and Systematic Review

Walter H. Truong | Abdul Fettah Buyuk | Sara Morgan | Daniel Miller | Kristine K. Nolin | Andrew J. Snyder | Kristin J. Smith

Saturday May 1 Award Nominees (10:15am – 11:25am)

GROUP 1

108. Effect of Schroth exercises on quality of life, physical activity, perceived appearance, and back muscle endurance in Adolescent Idiopathic Scoliosis (AIS): a randomized control trial (RCT)

Courtney Hebert | Camille Warner | Eric Parent | Sanja Schreiber | Graham Murray | Sarah Southon | Marc Moreau | Jim Mahood | Eric Huang | Kyle Stampe | Edmond Lou

87. Brace and Physiotherapeutic Scoliosis Specific Exercises (PSSE) for Adolescent Idiopathic Scoliosis (AIS): A prospective study following Scoliosis Research Society (SRS) criteria

Nikos Karavidas

92. Effectiveness of Physiotherapeutic Scoliosis Specific Exercises (PSSE) on Adolescent with Progressive Spine Deformities Who Refused Brace Treatment – 5 Years Follow-Up

Dmitry K. Tesakov | Darya D. Tesakova | Arkadii I. Kazmin

GROUP 2

100. Efficacy of bracing in infantile scoliosis. A 4-years prospective cohort shows that idiopathic respond better than secondary scoliosis

Stefano Negrini | Sabrina Donzelli | Greta Jurenaite | Francesco Negrini | Fabio Zaina

56. Adults with idiopathic scoliosis: progression over 5 Cobb degrees is predicted by menopause and metabolic bone disease.

Sabrina Donzelli | Fabio Zaina | Sofia Cimarelli | Valentina Bartolini | Stefano Negrini

GROUP 3

23. Using Muscle Parameters to Predict Curve Progression in Adolescent Idiopathic Scoliosis (AIS)

Rufina Wing Lum Lau | Ka Yee Cheuk | Vivian Wing Yin Hung | Fiona Wai Ping Yu | Elisa Man Shan Tam | Lyn Lee Ning Wong | Jiajun Zhang | Franco Tsz Fung Cheung | Wing Sze Yu | Wayne Yuk Wai Lee | Jack Chun Yiu Cheng | Tsz Ping Lam

26. The relationship between electromyographic amplitude of paravertebral muscles and curve progression in Chinese adolescents with idiopathic scoliosis: a prospective cohort study

Charlene Yunli Fan | Eric HK Yeung | Michael KT To | Jason PY Cheung | Zhuoman Xu | Jianbin Wu | Rong He | Ruiwen Zhang | zhidong Yang | Guangshuo Li