

Thursday, April 19

Session 1. Bracing for Adolescent Idiopathic Scoliosis

8:00-9:41 Moderators: *Luke Stikeleather, Grant Wood, Franz Landauer, Manuel Rigo*

8:00-8:05 Introductions

8:05-8:11 Paper #1. Objective measurements of the pressures applied to the scoliotic body due to increasing strap tension in Rigo-Cheneau braces and how this affects the scoliosis correction.

Dimitris Papadopoulos, Spyros Velanas

8:11-8:17 Paper #2. Structural correction is possible with Chêneau style 3D braces.
Nico Tournavitis

8:17-8:23 Paper #3. Comparison between materials in classic brace production and 3D printing and influence on in-brace comfort.

Andreas Wuerschling, Sunčica Bulat Wuerschling

8:23-8:29 Discussion

8:29-8:35 Paper #4. Rigo System Cheneau Brace in Adolescent Idiopathic Scoliosis: Lower Risk of Curve Progression Compared to Boston-Style Orthosis Through Higher In-Brace Correction.

Hiroko Matsumoto, Shay Warren, Michael Vitale, John Tunney, Nicole Bainton, Joshua Hyman, David Roye, Benjamin Roye

8:35-8:41 Paper #5. Adolescent Idiopathic Scoliosis (AIS) treatment with the Dynamic Derotation Brace (DDB): An analysis using patients at high risk of progression.

Nikos Karvidas

8:41-8:47 Paper #6. Results of 390 Juvenile and Adolescent Idiopathic Scoliosis in Accordance with SRS Criteria Treated by the New Lyon Artbrace and Reviewed at 6 Months.

Jean Claude de Mauroy, Fabio Gagliano, Frédéric Barral, Sophie Pourret

8:47-8:53 Discussion

8:53-8:59 Paper #7. Correlation between final result and first x-ray without brace 6 months after fitting Artbrace: case series of the 33 first consecutive patients.

Jean Claude de Mauroy, Fabio Gagliano, Frédéric Barral, Sophie Pourret

8:59-9:05 Paper #8. Outcomes of brace treatment for adolescent idiopathic scoliosis -importance of early detection and early treatment.

Toru Maruyama, Yusuke Nakso, Yosuke Kobayashi

9:05-9:11 Paper #9. In-brace spinopelvic parameters are associated with curve progression at 2 years in patients with adolescent idiopathic scoliosis undergoing brace treatment.

Hiroko Matsumoto, Shay Warren, John Tunney, Nicole Bainton, Joshua Hyman, David Roye, Benjamin Roye, Michael Vitale

9:11-9:17 Discussion

9:17-9:23	Paper #10. Outcome of Cheneau brace treatment for idiopathic scoliosis: full time wear in patients with higher progression risk versus part time wear in patients with lower progression risk. <i>Krzysztof Korbek, Mateusz Kozinoga, Lukasz Stolinski, Piotr Jansz, Katarzyna Politarczyk, Tomasz Kotwicki</i>
9:23-9:29	Paper #11. Development and validation: prognostic model for curve progression in braced and untreated AIS patients. <i>Lori A. Dolan, Stuart L. Weinstein and the BRAIST Study Group</i>
9:29-9:35	Paper #12. Wide Variability in Non-Operative management of Adolescent Idiopathic Scoliosis among providers in the Northeast United States: Towards a Best Practice Guideline. <i>Hiroko Matsumoto, Michael Vitale, Hagit Berdishevsky, Prachi Bakarania, Kelly Grimes, Thejas Hiremath, Benjamin Roye</i>
9:35-9:41	Discussion
9:41-10:12	Invited Lecture: “Mechanisms of Scoliosis Progression” <i>James O. Sanders</i>
10:12-10:45	Break and Posters
Session 2. Physiotherapeutic Scoliosis-Specific Exercises	
10:45-11:25	<i>Moderators: Cindy Marti, Rebecca Harding</i>
10:45-10:51	Paper #13. Utilization of Radiation-Free Assessment System in Scoliosis Curvature Monitoring for Adolescence Idiopathic Scoliosis Subjects doing Physiotherapy Scoliosis Specific Exercise – Impact on Home Exercise Compliance. <i>Eric Hiu Kwong Yeung, Rong He, Yunli Fan, Ruiwen Zhang, Xuiqiang Zhao, Guangshuo Li, Ruiqi Jia, Zhuoman Xu, Jianbin Wu, Yong Ping Zheng, Michael KT To, Kenneth MC Cheung</i>
10:51-10:57	Paper #14. Reduction of Scoliosis Curvature after an Intensive Physiotherapy Scoliosis Specific Exercise Program – Impact on Deformity and Home Exercise Compliance. <i>Eric Hiu Kwong Yeung, Rong He, Yunli Fan, Ruiwen Zhang, Xuiqiang Zhao, Guangshuo Li, Ruiqi Jia, Zhuoman Xu, Jianbin Wu, Yong Ping Zheng, Michael KT To, Kenneth MC Cheung</i>
10:57-11:03	Paper # 15. The compliance of patients with scoliosis completing a specific home exercise programme after an intensive specialised physiotherapy course: Stage 1 of 3. <i>Georgina Frere, D A Jason Black, David Glynn, Erika Maude</i>
11:03-11:09	Discussion
11:09-11:15	Paper #16. Short-term effects of Physiotherapeutic Scoliosis Specific Exercises on Sonographic Angle of Adolescent Idiopathic Scoliosis Subjects with Thoracic- or Lumbar- Primary Curve – A Preliminary Study. <i>Charlene Yunli Fan, Eric Hiu Kwong Yeung, Michael KT To, Kenneth MC Cheung, Yong Ping Zheng, Rong He, Ruiwen Zhan, Guangshuo Li, Ruiqi Jia, Xuiqiang Zhao, Zhuoman Xu, Jianbin Wu</i>

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11:15-11:21 Paper #17. The immediate effects of side-lying Schroth scoliosis-specific exercises for adolescent idiopathic scoliosis measured with 3D ultrasound imaging.
Eric Parent, Alex Su, Sanja Schreiber, Edmond Lou, Elia Fong

11:21-11:25 Discussion

11:25-11:55 **Panel Discussion: Meta-Analyses of Physiotherapeutic Scoliosis-Specific Exercises: Methods and Evidence**

Stefano Negrini, Michele Romano, James Sanders, Paul Sponseller, Lori Dolan

Session 3. Patient Reports

11:55-12:19 *Moderators: Elisabetta d'Agata, Sanja Schreiber*

11:55-12:01 Paper #18. Psychological aspects in optimization of scoliosis treatment.
Sunčica Bulat Wuersching, Tomislav Đapić, Andreas Wuersching, Gordana Buljan Flander

12:01-12:07 Paper #19. Analysis of posts about scoliosis by patients on social media and networks.
Wojciech Glinkowski, Arkadiusz Agaciak, Agnieszka Kister, Bożena Glinkowska

12:07-12:13 Paper #20. Psychosocial adjustment of children and adolescents with scoliosis.
Sunčica Bulat Wuersching, Mia Flander, Ana Raguž, Francsca Dumančić

12:13-12:19 Discussion

12:19-1:40 Lunch and Posters

Session 4. Adult Deformity

1:40-2:20 *Moderators: Joseph O'Brien, Marianna Bialek*

1:40-1:46 Paper #21. Effect of scoliosis specific exercise on pain and function in adults with idiopathic scoliosis: results of a retrospective study.
Fabio Zaina, Sabrina Donzelli, Francesca Di Felice, Stefano Negrini

1:46-1:52 Paper #22. Effectiveness of Physiotherapy Scoliosis Specific Exercises (PSSE) in Adult Idiopathic Scoliosis Patients - A pilot study.
Eric Hiu Kwong Yeung, Ruiwen Zhan, Yunli Fan, Rong Heg, Xuiqiang Zhao, Guangshuo Li, Ruiqi Jia, Zhuoman Xu, Jianbin Wu, Yong Ping Zheng, Michael KT To, Kenneth MC Cheung

1:52-1:58 Paper #23. Pain and function in adult patients with scoliosis attending a rehabilitation center.
Fabio Zaina, Sabrina Donzelli, Francesca Di Felice, Stefano Negrini

1:58-2:04 Discussion

2:04-2:10 Paper #24. Effects of surgical and non-surgical treatment of adult idiopathic scoliosis with borderline (40-55°) main thoracic curves on patient-reported outcomes.
Ahmet Alanay, Caglar Yilgor, Kadir Abul, Suna Lahut, Yasemin Yavuz, Ferran Pellise, Francisco Perez-Grueso, Emre Acaroglu, Ibrahim Obeid, Frank Kleinstuck, European Spine Study Group

2:10-2:16 Paper #25. Surgeon Attitudes Towards Physiotherapeutic Scoliosis Specific Exercises in Adult Deformity Patients.
Kelly Grimes, Leah Steinmetz, Frank Segreto, Christopher Varlotta, Prachi Bakarania, Hagit Berdishevsky, Charla Fischer

2:16-2:20	Discussion
2:20-2:30	Upcoming SOSORT Meetings: San Francisco 2019 / Spineweek 2020 <i>Grant Wood, Fabio Zaina</i>
2:30-2:40	Group Photos
2:40-3:10	Break and Posters
Session 5. Sagittal Profile and Spinopelvic Considerations in Spinal Deformity	
3:10-4:06	<i>Moderators: Patrick Knott, Theodoros Grivas</i>
3:10-3:16	Paper #26. Analysis of sagittal profile of spine using ultrasound imaging in adolescent idiopathic scoliosis with the assistance of radiograph. <i>Yong Ping Zheng, Tin-Yan Lee, Kelly Ka Lee Lai, Jason Pui Yin Cheung, Michael Kai Tsun To</i>
3:16-3:22	Paper #27. Active self-correction of child's body posture assessed in sagittal plane with digital photography. <i>Mateusz Kozinoga, Łukasz Stoliński, Katarzyna Politarczyk, Krzysztof Korbel, Dariusz Czaprowski, Tomasz Kotwicki</i>
3:22-3:28	Paper #28. Lightline distances: a new method for the assessment of the sagittal profile compared with the gold standard: Inter-rater reliability. <i>Michele Romano, Matteo Mastrantonio</i>
3:28-3:34	Paper #29. Validation of Trunk Appearance Perception Scale TAPS 2.0, a modified version for the evaluation of the sagittal deformity. <i>Judith Sanchez Raya, Elisabetta D'Agata, Joan Bago, Antonia Matamalas, Manuel Rigo</i>
3:34-3:42	Discussion
3:42-3:48	Paper #30. Analysis of the spino-pelvic sagittal alignment and global balance in non-treated Adolescent Idiopathic Scoliosis in relationship with frontal plane parameters. <i>Manuel Rigo, Nikos Karavidas</i>
3:48-3:54	Paper #31. Comparison of Pedobarographic Profile in AIS with Rigo type A3 and B1. <i>Zhiguan Huang, Yuhe Li</i>
3:54-4:00	Paper #32. Rotational mobility of the trunk-pelvis-hip complex in girls with double or single idiopathic scoliosis and in girls without scoliosis with various angles of trunk rotation. <i>Agnieszka Stępień, Katarzyna Guzek, Witold Rekowski, Tomasz Osiak, Jolanta Stępowaska, Andrzej Wit</i>
4:00-4:06	Discussion
4:06-4:20	Scoliosis and Spinal Disorders Journal <i>Theodoros Grivas, Dino Samartzis</i>
4:20	Adjournment
5:30	Old Town Sightseeing Departure from outside the hotel at 5:30pm