

**9th International Conference
on Conservative Management of Spinal Deformities**

7th SOSORT Meeting *Milan (Italy) 10-12 May 2012*

FINAL PROGRAM

Thursday, the 10th of May

INTRODUCTION

- 09.00 Opening remarks
Negrini S. (Italy)
-

ETIOPATHOGENESIS

- 09.10 Truncal asymmetry in school children: the effect of the parental age at birth
Grivas T.B., Mihas C., Mazioti C., Sakelaropoulou S., Zisis N., Akriotis A., Burwell R.G. (Greece)
- 09.16 Patient selection in genetic association studies in idiopathic scoliosis
Harasymczuk P., Janusz P., Kotwicki T. (Poland)
- 09.22 Scoliosis with hyperkyphosis combines in 20% of cases with Scheuermann's disease and it's more frequent in males
Atanasio S., Donzelli S., Zaina F., Negrini A., Negrini S. (Italy)
- 09.28 **Discussion**
- 09.37 The neuromuscular factor in the idiopathic scoliosis. Retrospective longitudinal study of a group of 308 adolescents treated with neuromuscular rebalancing.
Fimiani A. (Italy)
- 09.43 The relationship between scoliosis and balance in a population of adolescents with AIS
Knott P., Musto J., Thompson S., Mardjetko S. (USA)
- 09.49 Everyday postures in idiopathic scoliosis: is there any correlation with curve morphology ?
Negrini A., Pasini E., Romano M., Donzelli S., Zaina F., Negrini S. (Italy)
- 09.55 **Discussion**
-

EVALUATION 1

- 10.04 Quantitative ultrasound measurements of bone strength in female adolescent idiopathic scoliosis patients
Wang H., Du Q., Chen P.J., Li J.A., He X.H. (USA)
- 10.10 A simple method of spinal length assessment in patients with idiopathic scoliosis
Tyrakowski M., Wojtera-Tyrakowska D., Kotwicki T., Czubak J. (Poland)
- 10.16 Comparison between subjective perception of trunk deformity (TAPS) and objective assessment of back asymmetry (surface topography)
Rigo M., Elisabetta D'Agata (Spain)
- 10.22 End growth results analysis related to Risser score, Cobb degrees and curve types at the beginning of the treatment
Donzelli S., Zaina F., Negrini S. (Italy)
- 10.28 **Discussion**
- 10.40 **Coffee break**
-

KEY NOTE SPEAKERS

- 11.00 Biomechanical aspects of the conservative treatment of idiopathic scoliosis
Aulisa L. (Italy)
- 11.20 Scoliosis in cerebral palsied child
Ferrari A. (Italy)
- 11.40 Adolescent idiopathic scoliosis and corporeal awareness disorders
Smania N. (Italy)
- 12.00 **Questions & Answers**
-

EVALUATION 2

- 12.15 Analysis of differences in pain and disability in people with adult scoliosis and non specific low back pain
Bissolotti L., Sani V., Gobbo M., Orizio C. (Italy)
- 12.21 Correlation between maturation, growth spurt and the progression of adolescent idiopathic scoliosis.
Coillard C., Circo A.B., Rivard C.H. (Canada)
- 12.27 Risser stages, menarche and their correlations with other growth parameters in a cohort of 3,553 Italian adolescent idiopathic scoliosis patients.
Minnella S., Donzelli S., Zaina F., Negrini S. (Italy)
- 12.33 **Discussion**
- 12.42 **Lunch**
- 12.42 **Scoliosis Journal Lunch**
-

PHYSIOTHERAPY 1

- 14.00 Therapy objectives, treatments modalities and outcomes used by physiotherapists for adolescent idiopathic scoliosis in Alberta, Canada.
Parent E.C., Buyks D., Clough J., Jespersen L., Gibson J., Lessard J. (Canada)
- 14.06 Chiropractic treatment of scoliosis, a systematic review of the scientific literature
McAviney J. (Australia)
- 14.12 Gamebased physiotherapy for evidence based practice in children with juvenile idiopathic scoliosis
Feistritzer-Gröbl P., Nischelwitzer A., Saraph V. (Austria)
- 14.18 **Discussion**
- 14.27 Orthopedic treatment on child scoliosis: what are the consequences on muscular force?
Courtois I., Morizot C. (France)
- 14.33 Exercise capacity of adolescent girls with idiopathic scoliosis analysed in 6 Minute Walking Test (6MWT) with and without Cheneau's brace - pilot studies
Pajak J., Durmala J., Bugala-Szpak J. (Poland)
- 14.39 Sports in association with specific exercises can help to achieve better results in controlling the evolution of scoliosis
Romano M., Negrini S. (Italy)
- 14.45 **Discussion**

CONTROVERSIAL ISSUES SESSION

EXERCISES FOR SCOLIOSIS TREATMENT: WHERE WE ARE TODAY?

- 14.54 Introduction
Grivas T.B. (Greece)
- 14.59 An SRS perspective
Price N. (USA)
- 15.14 A SOSORT perspective
Rigo M. (Spain)
- 15.29 **Discussion**
- 15.44 **Coffee break**
-

PHYSIOTHERAPY 2

- 16.05 3-D geometric imaging of the trunk in normal adolescents and age-matched patients impaired with idiopathic scoliosis: selected effects of conservative intervention according to Schroth
Stoler S., Baransi H., Givon U., Dvir Z. (Israel)
- 16.11 Feasibility and three months preliminary results of an RCT on the effect of Schroth exercises in adolescent idiopathic scoliosis (AIS)
Schreiber S., Parent E.C., Hedden D.M., Watkins E.M., Hill D.L., Moreau M., Southon S., Mahood J.K. (Canada)
- 16.17 Influence of active and passive derotation techniques of OMT Kaltenborn-Evjenth manual therapy on trunk morphology of adolescents with idiopathic scoliosis – pilot studies
Durmala J., Wnuk B., Blicharska I., Wadolowski K., Dybula S., Dzierzega J. (Poland)
- 16.23 Active thoracic kyphosis: modifications in the shape of the trunk
Romano M., Saveri F., Negrini A., Negrini S. (Italy)
- 16.29 **Discussion**
-

CONSENSUS SESSION

- 16.41 Imaging: how much and when
Knott P. (USA)
- 18.00 **End of the day**

Friday, the 11th of May

08.00 Committees Meetings

IMAGING AND SURFACE TOPOGRAPHY

- 09.00 Manual versus automatic indices assessment based on markerless three dimensional, structural light surface topography postural assessment. Preliminary study.
Glinkowski W., Michonski J., Glinkowska B., Sitnik R. (Poland)
- 09.06 Analysis of anterior trunk symmetry index (ATSI). Preliminary report
Stolinski L., Kotwicki T., Czaprowski D., Chowanska J. (Poland)
- 09.12 Micro: a useful and more simple tool to measure the magnitude of scoliosis curves on x-rays.
Romano M., Zaina F., Donzelli S., Negrini S. (Italy)
- 09.18 **Discussion**
- 09.27 Pedicle morphology using CT-based navigation system in adolescent idiopathic scoliosis
Kuraishi S. (Japan)
- 09.33 Can bending radiographs be useful for lenke classification system of idiopathic scoliosis?
Tyrakowski M., Kotwicki T., Koch A., Drwiega M., Lisiecka K., Lawniczak D., Pietrzak S., Czubak J. (Poland)
- 09.39 "Slopes": a new approach to scoliosis radiographic measurement and evaluation related to the horizontal plane in a bodily view
Negrini S., Atanasio S., Donzelli S., Zaina F. (Italy)
- 09.45 **Discussion**
- 09.54 Therapy modifies end-vertebrae and measuring always on the same vertebrae overestimates final results. A blind cohort controlled prospective study
Negrini A., Atanasio S., Vanossi M., Donzelli S., Zaina F., Negrini S. (Italy)
- 10.00 A study of assessments of the camptocormie.
De Sèze M., Guillaud E., Slugatz L., Cazalets J.R. (France)
- 10.06 Adult scoliosis and non-specific low back pain: analysis of trunk kinematics
Bissolotti L., Sani V., Gobbo M., Orizio C. (Italy)
- 10.12 **Discussion**
- 10.21 **Coffee break**

SOSORT AWARD

10.40 Lyon bracing in adolescent females with idiopathic scoliosis: assessment of results according to the SRS committee on bracing and nonoperative management standardization criteria.

Aulisa A.G., Guzzanti V., Perisano C., Scudieri G., Bocchino L., Teramo S., Aulisa L. (Italy)

10.47 **Discussion**

10.50 Prospective study of 136 adolescent scoliosis of more than 40° treated with the Lyon brace

De Mauroy J.C. (France)

10.57 **Discussion**

11.00 Brace treatment is effective in idiopathic scoliosis over 45°: a prospective controlled study

Lusini M., Donzelli S., Zaina F., Negrini S. (Italy)

11.07 **Discussion**

11.10 Prospective study according to the SRS and SOSORT criteria on the effectiveness of a complete conservative treatment (bracing and exercises) for adolescent idiopathic scoliosis: efficacy and intent-to-treat analysis

Negrini S., Donzelli S., Zaina F. (Italy)

11.17 **Discussion**

11.20 A comparison approach to explain risks related to x-ray imaging for scoliosis

Pace N., Ricci L. (Italy)

11.27 **Discussion**

11.30 The effect of radiographic vertebral body and intervertebral disc wedging on curve progression in idiopathic scoliosis

Volz R., Dolan L.A., Masrouha F., Weinstein S.L. (USA)

11.37 **Discussion**

CONTROVERSIAL ISSUES SESSION

WHEN TO FUSE OR NOT TO FUSE - PERSPECTIVES FROM SOSORT AND THE SRS

11.40 **Introduction**

Kotwicki (Poland)

11.45 An SRS perspective

Richards (USA)

12.00 A SOSORT perspective

Negrini (Italy)

12.15 **Discussion**

12.30 **Lunch**

BRACING 1

- 13.45 Different material for the SPORT concept brace: short time comparison of Sforzesco and Sibilla brace
Zaina F., Donzelli S., Lusini M., Negrini S. (Italy)
- 13.51 Comparison of in brace correction between supine, molded, assymmetric TLSOS and standing, CAD, symmetric TLSOS
Speers, D. (USA)
- 13.57 CAD/CAM and biomechanical simulations vs. standard technique for the design of braces in adolescent idiopathic scoliosis: first results
Desbiens-Blais F., Clin J., Parent S., Labelle H., Aubin C.E. (Canada)

14.03 Discussion

- 14.12 It is possible to maintain a high compliance even in the long term: results from the Thermobrace study
Donzelli S., Zaina F., Negrini S. (Italy)
- 14.18 Good brace compliance reduced curve progression and surgical rates in patients with idiopathic scoliosis.
Brox J.I., Lange J.E., Gunderson R.B., Steen H. (Norway)
- 14.24 Outcome of Rigo-Chêneau type brace treatment for adolescent idiopathic scoliosis -using the Scoliosis Research Society brace studies inclusion criteria.
Maruyama T., Yamada H., Nakao Y. (Japan)

14.30 Discussion

BRACING 2

- 14.39 Side effects of braces. A cross-sectional survey.
Tavernaro M., Tessadri F., Zonta A., Negrini S. (Italy)
- 14.45 Effect of Spinecor brace on pulmonary functions
Ömer E., Can N., Oguz E., Bilgic S., Sehirlioglu A. (Turkey)
- 14.51 A prospective interventional cohort study of 175 patients treated by the spinecor orthosis, following the Scoliosis Research Society Criteria
Coillard C., Circo A., Rivard C.H. (Canada)
- 14.57 Discussion
- 15.06 Evaluation of TLSOS in the bracing in adolescent idiopathic scoliosis trial (BrAIST)
Dolan L.A., Haggerty K.A., Weinstein S.L., BrAIST Study Team (USA)

15.12 Retrospective analysis of immediate in-brace correction of scoliosis attainable in patients with AIS
Knott P., Techy F., Cotter T., Jansen L., Kove P., Loving J., Poletis K., Mardjetko S. (USA)

15.18 Brace efficacy: metanalysis of studies conducted according to the SRS criteria for brace studies
Zaina F., Donzelli S., Lusini M., Negrini S. (Italy)

15.24 **Discussion**

15.33 **Coffee break**

BRACING 3

15.50 The conservative treatment of congenital scoliosis with hemivertebra: report of three cases.
Aulisa A.G., Guzzanti V., Perisano C., Scudieri G., Bocchino L., Teramo S., Aulisa L. (Italy)

15.56 Conservative treatment of juvenile with Chiari I malformation, syringomyelia and scoliosis. Two case reports.
Rigo M., Janssen B., Campo R., Tremonti L. (Spain)

16.02 Using of Cheneau brace for early onset scoliosis treatment
Chekryzhev D., Mezentsev A., Petrenko D. (Ukraine)

16.08 **Discussion**

SOSORT LIFETIME PRIZE

16.17 **Mehta M. (United Kingdom)**

16.27 **Negrini A. (Italy)**

16.37 **Business Meeting**

18.00 **End of the day**

Saturday, the 12th of May

08.30 Committees Meetings

QUALITY OF LIFE AND PSYCHOLOGY 1

- 9.30 An online survey investigating the information needs of adolescent idiopathic scoliosis patients and their families: preliminary results
Wellburn S., Bettany-Saltikov J., Hamilton S. (United Kingdom)
- 09.36 Trunk appearance perception scale (TAPS) discrepancy between adolescents with idiopathic scoliosis and their parents influences HRQL
Rigo M., D'Agata E., Jelacic M. (Spain)
- 09.42 The effects of scoliosis bracing on parent and child perception of adolescent's quality of life
Knott P., Anderson C., Werner M., Wilson H., Speers D. (USA)
- 09.48 Self image, stress level and quality of life in adolescents patients with idiopathic scoliosis
Kinel E., Kotwicki T., Podolska A., Bialek M., Stryla W. (Poland)
- 09.54 **Discussion**
- 10.06 **POSTER SESSION**
- 10.50 **Coffee break**
-

QUALITY OF LIFE AND PSYCHOLOGY 2

- 11.10 Use of kidscreen 52 questionnaire for quality of life evaluation in adolescents with idiopathic scoliosis after surgery
Rusovs G., Audrupe O., Ositis J., Vetra A., Vetra A. (Latvia)
- 11.16 Findings from a small-scale, exploratory content analysis of information provided to AIS patients and their parents from NHS Scoliosis Hospital Clinics
Arai L., Bettany-Saltikov J., Hamilton S. (United Kingdom)
- 11.22 Which is the role of self-esteem in adolescents with idiopathic scoliosis under a conservative treatment?
D'Agata E., Pérez-Testor C., Negrini S., Rigo M. (Spain)

11.28 Quality of life and stress level in adolescents with idiopathic scoliosis subjected to conservative treatment
Kinel E., Kotwicki T., Podolska A., Bialek M., Stryla W. (Poland)

11.34 **Discussion**

THE PRESIDENTIAL LECTURES

11.46 The SRS Lecture: "The Role of Screening and Brace treatment in Adolescent Idiopathic Scoliosis"
Richards S.B. (USA)

12.11 The SOSORT Presidential Address: "The future of SOSORT: not names, but evidence"
Negrini S. (Italy)

CONCLUSIONS

12.36 Next Meeting
Knott P. (USA)

12.51 SOSORT Award Winners
Maruyama T. (Japan)

12.56 Closing Remarks
Negrini S. (Italy)

13.00 **END OF THE MEETING**