



SOSORT

INTERNATIONAL SOCIETY ON SPINAL ORTHOPAEDIC AND
REHABILITATION TREATMENT

NEWSLETTER Nº 2-2012

<u>EDITORIAL</u>	<u>NEWS</u>	<u>SCIENTIFIC EVENTS</u>	<u>REVIEW OF LITERATURE</u>	<u>LINKS</u>	<u>PREVIOUS NEWSLETTER</u>
			<u>SCOLIOSIS JOURNAL</u>		

EDITORIAL: NEWSLETTER TEAM

Dear SOSORT members,

We are close to our annual Meeting!!! Milan is waiting us with actual and interesting news. Please read the **final program** and share it with all your partners!!

We are strongly convinced that will help us to increase our knowledge to care people with spinal deformities!!

After the success of the first edition in Barcelona, with the collaboration of Judith Sánchez-Raya and the Consell Català de Formació Continuada de les Professions Sanitàries del Institut Català d'Estudis de la Salut, the Educational Committee offers us the **2nd Educational SOSORT Course** with lectures, discussions and some school presentations. The chairman of this Committee, Josette Bettany-Saltikov, gives us an advance of this second Course, which will help us to have a closer view with the current techniques used in this field. Believe us when we tell you that this is an important event that could help you to consider to study some of these techniques more deeply!!

The first event in Barcelona, in 2004, gave a Special Award for their work into this field to Christa Lehnert-Schroth and Jacques Chêneau. Milan wants to re-start this tradition with the **Lifetime SOSORT Honorary Membership Prize**. The SOSORT Board has decided that Min H Mehta and Antonio Negrini are the awarded this year. In this edition we offer you an interview to Antonio Negrini and we expect to offer you one to Min H Mehta after the Meeting.

Looking forward to see you again!!!

M. Villagrasa and P. Pizzetti.

EDITORIAL: 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**
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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**
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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 Kalternborn-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 kyphotisation: 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 **Committee 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, asymmetric 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)**
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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**
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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., Audrube 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**
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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**

EDITORIAL: 2nd EDUCATIONAL SOSORT COURSE by Josette Bettany-Saltikov

Dear friends and Colleagues,

A year has very quickly passed and in just over a month we will meet again! We are very pleased to announce the 2nd Educational SOSORT Course which will be taking place at the the NH Hotel in Assago Milan, just before the 9th SOSORT conference. This year the Course will be combined with the 8th R&R ISICO meeting, The "Rachide & Riabilitazione" (Spine & Rehabilitation) "Evidence-based" meeting which is being organised by ISICO together with the GSS (Gruppo di Studio della Scoliosis – Scoliosis Scientific Group) which is a tradition in Italy and commenced in 2005.

The course that will start on the morning of the 8th May will feature leading SOSORT clinicians and lecturers who will be discussing ways of implementing previous published guidelines and consensus paper into your practice. The course will be introduced by a presentation from the founder of SOSORT Dr Manuel Rigo who will be speaking about the "The three-dimensional nature of Idiopathic Scoliosis: implications on physical therapy and bracing". This will be followed by: a discussion on the new guidelines for the conservative management of scoliosis that will be presented by the President of SOSORT Prof Stefano Negrini; "the methods of assessment of the morphology of the spine" by Dr Tomasz Kotwick; Guidelines on the "Standards of Management of idiopathic scoliosis with braces in routine scoliosis clinics and in clinical research SOSORT Consensus 2008 by Dr Zaina; Scoliosis-specific Physical exercises in the treatment of idiopathic scoliosis at risk of brace treatment: SOSORT consensus paper 2005 by Dr Maruyama; SOSORT consensus paper: school screening for scoliosis. Where are we today? By Dr Grivas. The afternoon session of the first day will be dedicated to a overview of the main bracing and PT methods in use currently.

The second day of the course will be devoted to two concurrent practical whole-day workshops (one on bracing, the other on physiotherapeutic scoliosis-specific exercises) which will delve deeper into the techniques presented briefly the day before. The course

will be open to the complete team of health care professionals involved in the conservative management of scoliosis patients: physicians, orthotists, physiotherapists, chiropractors and other professionals.

As mentioned last year, the overall aim of these courses, supported by SOSORT and the SOSORT educational committee, is to widen the use of the different approaches used by a number of Scoliosis Physiotherapy Schools and technologies as well as to help and encourage evidence-based practice and research into these areas, some of which are still very much under researched.

As you will all have noticed, the applications for accreditation of different physiotherapy schools by SOSORT was attached to the SOSORT MOBILE web site shortly after the conference in Barcelona last year but to date we have not received any applications. We sincerely encourage you to apply. Becoming a SOSORT supported school is not only a matter of prestige and validation of your course but it is also a way to promote the SOSORT society. We would be grateful if you could remind your friends and colleagues that becoming a member of SOSORT will entitle them to discounted registration rates for attending future courses of SOSORT supported schools.

We look forward to seeing as many of you as possible.

9th SOSORT MEETING: LIFETIME SOSORT HONORARY MEMBERSHIP PRIZE: ANTONIO NEGRINI AND MIN H MEHTA

We want to highlight the humanity of our Society with a new tradition, The Honorary Membership Prize. This Prize awards the recognition of professionals who contributed into the Conservative Treatment in the Spinal Deformities. In 2004, in Barcelona, the SOSORT Board gave its recognition to Jacques Chêneau and Christa Lehnert-Schroth. This year, in Milan, the Society consider that Min H Mehta and Antonio Negrini should have this recognition for their carrier.

This edition wants to offer you Antonio Negrini's interview, exposing some historical events of his life and his contribution in the Spinal Deformities Conservative Treatment. We always need to refresh the history and to thank people like him to be in the point we are now in this field.

ANTONIO NEGRINI'S INTERVIEW:



1.- You're one of the pioneers of conservative treatment of scoliosis in Italy. What prompted you to begin your career and to continue it in the field of scoliosis?

My wedding with my colleague Nevia Verzini is what drove me to deepen the study and the update about conservative treatment of juvenile spinal deformities. Together we founded the "Centro Scoliosi" (scoliosis center) in Vigevano, Italy, directing the therapeutic activity of the center mainly towards scoliosis and kyphosis care, using the most common techniques used at that moment in Italy

(IOP, Klapp and Nieder Hoffer).

In the following years, these techniques were enriched through the comparison with experiences made in many other European scoliosis centers. A particular channel of study and research was created with the Centre des Massues in Lyon, one of the most advanced and eminent scoliosis centers in Europe at that moment, with which from 1980 to 1984 our center in Vigevano participated in an international research project on the effectiveness of exercising for the treatment of minor scoliosis (Kinésithérapie Scientifique 244: 47-56, 1986).

The connection with French centers and the participation to the annual meetings of GTKS (Groupe Kinésithérapique Travail Scoliose - France) and of SIRER (Société Internationale de Recherche et d'Etude sur le Rachis - Lyon) allowed us to establish relationships devoted to study and update with eminent researchers such as Stagnara, Duval-Beaupère and Perdriolle.

The great flourishing of scientific studies on the spine, published in the international literature during the Seventies and the Eighties, allowed us to receive a great deal of data on the etiopathogenetic and evolutive process of scoliosis.

This enabled us to develop our own new treatment approach to scoliotic patients, in which exercises are directed towards therapeutic objectives derived only from data emerging from scientific research: so, we started to apply the principle of treating scoliosis only on the basis of scientific research, and this was a first embryo of SEAS and of what was later proposed in a more advanced way by EBM, that now is at the root of the protocols applied by ISICO.

The excellent results obtained with this new approach prompted me to continue my professional engagement in the field of scoliosis treatment with growing enthusiasm and awareness.

2.- After more than 40 years of practice and research also spent in promoting and spreading knowledge in this field, what do you see if you look back to your career?

The satisfaction of having been able to achieve 40 years of work and research in my country in order to promote and spread the knowledge in this field, thanks to the active cooperation with physicians and physical therapists working at the scoliosis centers of the Don Carlo Gnocchi Foundation and thanks to a continuing education based on scientific evidences acquired through the work of GSS (Italian Study Group on Scoliosis and vertebral pathologies).

3.- What would you repeat and what would you not repeat?

I would repeat everything I did, striving to do it better.

4.- In the light of what you just said, what would you recommend us in order to work following the right track?

First, do your work every day with enthusiasm and awareness.

Second, offer a therapy that is patient-centered (humanization) and based on scientific knowledge (EBM).

5.- In occasion of the annual meeting of SOSORT, that will be held this year in Milan, Italy, you will receive the honor of lifetime SOSORT member. What does this mean for you?

This is an honor which is rewarding to me, but that I think other colleagues would have deserved. In particular I would like to dedicate this prize to my family and I would like to share it with two great masters in the rehabilitation of scoliosis: Sergio Pivetta in Italy and George Mollon in France.

6.- Do you have a particular message for the professionals that are now beginning their voyage in the field of scoliosis conservative treatment? And for those that already are "experienced sailors"?

For the beginners: love their work and do it with knowledge and awareness.
For experienced professionals: always be conscious of the fact that, as Stagnara stated, "in the scoliosis field, nobody is a master and everybody is a pupil".

SCIENTIFIC EVENTS:

Eurospine 2011 – October 19-21, 2011 Milan ITALY

9th Biannual Scientific Meeting IRSSD – July 1st -4th, 2012 – Poznan, Poland

19th IMAST – July 18-21, 2012 Istanbul, Turkey

47th SRS Annual Meeting and Course – September 5-8, 2012 – Chicago, Illinois, USA

48th SRS Annual Meeting and Course – September 18-21, 2013 – Lyon, France

NEWSLETTER COLLABORATORS:

We thank Patrick Knott for his helpful collaboration in this edition.

LINKS :

Scientific Societies

www.sosort.org

www.sosort-lyon.net

www.spine.org

www.srs.org

www.britscoliosissoc.org.uk/

www.bsrp.co.uk

www.gss.it

<http://www.boa.ac.uk>

Patient associations

www.escoliosis.org

www.scoliosis.org

www.sauk.org.uk

www.scoliosis-assoc.org

www.scoliosis-info-forum.de

www.scoliosis-australia.org

<http://scoliosi.forumfree.net>

www.SpineKids.com

www.scoliosiscare.org

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