



SOSORT

INTERNATIONAL SOCIETY ON SPINAL ORTHOPAEDIC AND
REHABILITATION TREATMENT

NEWSLETTER N° 2-2011

EDITORIAL	NEWS	SCIENTIFIC EVENTS	REVIEW OF LITERATURE		LINKS	PREVIOUS NEWSLETTER
			SCOLIOSIS JOURNAL	OTHER SOURCES		

EDITORIAL: NEWSLETTER TEAM

Dear SOSORT members,

After the summer we still remember the success of the last meeting of our society! Not just for the quality of the papers, also for the humanity of the people involved in it! We will remember it also for the first educational course that will improve in future editions offering to all members who are interested in training on conservative treatment. These courses offer the opportunity to learn from those experts who developed and practice conservative methods for deformities of the spine. The Chair of this edition, Dr. Rigo, offers us an editorial about it.

In Barcelona we grew as a Society and Dr. Zaina wants, as chairman of the Membership Committee, to share some words with us.

The excellent presidency of Dr. Maruyama has ended, and now the responsibility is on Dr. Negrini's shoulders. He is starting his mandate with energy, leading also the next meeting in Milano. He has two editorials for us related to this.

We are glad to present to you a new section in our Newsletter: GADGETS, a section that will reflect those ideas or new electronic tools found by members or others interested in this field which could help us to make our daily clinic easier. So we are anxiously awaiting your email to fill this section up!!!

M. Villagrasa and P. Pizzetti.

EDITORIAL: 8th SOSORT MEETING in BARCELONA by Dr. Manuel RIGO

Dear friends and colleagues,

It was my pleasure and honour to chair the 2011 SOSORT Annual Meeting and 8th International Conference on Conservative Management of Spinal Deformities. Like in many others Mediterranean cities, May is the month, in the middle of the spring, when the city of Barcelona is in its brightest moment, with good weather and long days. It was really amazing to share with all of you those few days. Too short, after more than one year of enthusiastic preparation, involving a big group of collaborators. My first acknowledgement goes to all the people who contributed in the organization to this little-big meeting.

We offered you, exclusively, the first Introduction Educational SOSORT Course, which was chaired by Josette Bettany-Saltikov and hosted by Judith Sánchez-Raya from the Rehabilitation service in the Traumatology, Orthopaedic Surgery and Rehabilitation Hospital Vall d'Hebron. I want to express my highest gratitude to the representatives from the Hospital Vall d'Hebron for agreeing to host the course, Dr Martínez Ibañez, director of the Surgical Processes Ciutat Sanitaria Vall D'Hebron; Dr Caceres, Clinical Director of Traumatology and Spine Unit; Dr Nardi, Chief of the Traumatology Service and, finally, Dr. Cuxart, Chief of the Rehabilitation Service.

The course presented several schools or approaches for conservative management of spinal deformities that are well represented in SOSORT currently. From the physical therapy point of view, different schools coming from all around the world presented their specific exercises to the audience, being Michele Romano who exposed the specific exercises according to the Italian school ISICO, Dr Hans Rudolf Weiss represented the German School, who showed, in his already traditional informal way, his approach combining classical Schroth with physiologic, 3D easy and power Schroth; Jean Claude De Mauroy gave us a new vision of the classical French 'Lyonnaise' school; and finally the Polish school was represented by two different approaches: the DOBOMED, lectured by Jacek Durmala and the FITS by Andrejz Mango.

Bracing concepts were also deeply explored, from the classical Lyonnaise school, combining modified EDF and Lyon brace, to the non rigid-dynamic concept of SpineCor. The Boston brace, in slow but permanent evolution, was presented by J. Wynne, but not the Milwaukee brace, with limited current indications, in spite of its quite regular use in some parts of the world. The Italian SPoRT concept and the already classical Chêneau brace and derivatives were also showed and discussed.

In its first edition, evaluation from the participants was quite good. The course is obviously improvable and the comments from the participants were very important and will allow us to reach excellence in further editions. Next year, in Milan, there will be a second edition, which will reach such an excellence for sure under the organization of the ISICO group. We are excited to participate in this new edition to share our knowledge and experience.

I want to share with you a personal reflection: since we met for the first time in

2004, and respecting the idiosyncrasy of each school, we can realize the existence of an inter-school contamination which is more and more clear through the years. From a radical scientific point of view, were things are black or white, as far as any approach is able to show its efficacy when is applied by a team, we should improve our approach adopting the best concepts and abandoning the worse ones. This is what some colleagues are claiming. Nowadays, no system has really shown to be better than other, from a pure scientific point of view, and even in that case, an effective method could not be so efficient when applied by a different team. Thus, in this scenario, and considering that methods have some things in common and things, which are different, contamination will make the schools more sibling and efficient at the same time.

The 8th SOSORT meeting was very successful. From the beginning to the end, the lecture room in the hotel Condes de Barcelona was completely full. Every scientific session was followed with big interest by most of the attendants and this is the main sign confirming the growing strength of our Society. The International Scientific Committee, chaired by Dr. Tomasz Kotwicki, was the group responsible for such a success. The Committee had to evaluate 111 abstracts submitted. It is highly remarkable the number of submissions from at least four countries, starting with Poland (20) and following with Italy (15), the USA (13), Spain (13); 15 other countries also submitted papers, reaching a final number of 99 accepted abstracts and only 12 rejected. All the accepted abstracts were exposed in 74 oral presentations, distributed in 14 scientific sessions, and 25 poster presentations. The focus of our Society is clear looking at the issues of the different scientific sessions: 4 sessions on bracing; 3 sessions on physiotherapy; 3 sessions on clinical, radiological and surface topography evaluation; 2 sessions on Health Related Quality of Life; one miscellanea and one on etiopathogenesis and related issues.

I would like to point out here, and this should not be interpreted as a conclusion, some of the topics discussed during the sessions, for its relevance. Three Key Note Lectures and one Special Invited Lecture gave the counterpoint to those important topics. E. D'Agata introduced in her Key Note Lecture the essential issue of HRQL. Although still predominant in the daily clinical setting, the old bio-medical model, where, most of times, the unique value defining the severity of this complex disorder is the Cobb angle, should be slowly but unquestionably surpassed by a much less simplistic bio-psycho-social model, where not only the treatment modality but also the interaction between all the members of the so called team, patient, family, medical doctor, physiotherapist, technical orthopaedic, psychologist and why not to say a well educated society. The importance of the team has been already stressed in several studies from the ISICO group but, I am full convinced, it will gain more and more relevance in the short future.

One of the most remarkable facts, probably, is that teams with similar approaches are nowadays reporting similar results. The approach is based on the application of different conservative indications including observation plus education, specific physiotherapy exercises and rigid braces under a supportive atmosphere, with no unethical manipulation when the operation becomes the treatment of first election. Another approach combines exercises with dynamic brace. Any tool used by an isolate inexperienced 'professional' is not successful by it self. It is essential to have a deep knowledge on the potential and limitation of every tool in order to

prevent 'bad practice'.

Dr Richard McCarthy, the former president of the SRS, serving as an introduction to the 'controversial issue', presented his lecture on early onset scoliosis. The 'controversial issue session' on infantile scoliosis, chaired by Dr Theo Grivas, was excellent. Dr JC de Mauroy and Dr F Sánchez Pérez-Grueso, were discussing the benefits and drawbacks, showing the importance of the indications and limitations as well as the importance of the technical quality of bracing. They also stressed the importance of the team.

The team is an essential part of this new model but still insufficient without a technical quality of excellence. Some presentations on in-brace correction using known principles, reported percentage similar to those obtained by pioneer's teams during the nineties. Nowadays, after 20 years of continued evolution, those teams have almost duplicated their percentages of in-brace correction. That means something. The potential is obvious. Another sign of this potential is the observed catastrophic effect of bad use. As clinicians, we all have seen some treated cases showing evolutions not explainable from natural history. Bad practice, talking about technical quality, makes worse the prognosis, that is something generally accepted in our Society. Thus, it is of vital importance to improve the standard of our techniques promoting research on its mechanics of action. In other words, how do braces work?

The potential of a good program of specific physiotherapy exercises should not be denied more but investigated more seriously. Notwithstanding, we should be realistic/cautious about expectations in relation with the capability of physiotherapy in preventing progression to bracing or surgery. Many other benefits could be however expected and investigated, like positive changes in HRQL, independently of the magnitude of the spinal deformity. But research cost time and money so which are the possibilities that physiotherapists have to show the outcomes of their interventions? Another problem is the risk that some techniques, coming from other fields, take a place beside other higher contrasted specific techniques, getting advantage of this relatively wild situation. For many colleagues, and for the general population, specific physiotherapy exercises means nothing different to exercises, gymnastic, Pilates, manipulations, anti-gymnastic, yoga, etc and it is not the same. How do we clarify this? There is an impressive task in front of us. The situation, in any case, is much better than 10 years ago and the first steps to clarify this situation have been built into SOSORT.

What to say about etiopathogenesis?, just one session is not really so much but most probably this is not the role of the SOSORT. It is very difficult for clinicians, especially for those few devoted to conservative management, to put their eyes on this topic for research. Dr K Bagnall, in his brilliant Key Note Lecture, gave us a new perspective on how we should look at this problem. Dr Theo Grivas' Key Note Lecture on 'the contribution of the International Research Society on Spinal Deformities -IRSSD- in the field of scoliosis research' was very descriptive on how much it has been done in the last 20 years. The IRSSD is specifically focussed on this topic. A future interaction between the members and the boards of both societies is desired. In fact, Dr Grivas, has been serving in the board of both societies with the office of President, and this is a good example.

An absolutely positive relationship was established with the SRS years ago. We had in Barcelona the chance to meet the former President of the SRS, Dr Richard McCarthy, an excellent professional and even better person. This relationship started in Boston, under the auspices of Joe O'Brien, and continued later in Athens, Lyon and Montreal.

I opened the meeting in Barcelona with our sincere condolences and deepest sympathy to the people from Japan. Our past President, Dr Toru Maruyama, had to make a difficult decision coming to Barcelona after what happened in his beautiful country. We all understand what this means. Emotions were very strong at the beginning of the meeting and also at the end. I missed totally some words to say thank you – all the attendants - after the funny show you offered the last day. Tomasz, I do not know how you were able to organize everything but you did it and it all sounded very well. I felt it like a homage to all the people who take part in the organization of the meeting, all the members of the local committees: Joan Bagó, Jose María Climent, Ferrán Escalada, Ester Marco, María Martínez, Elena Pou, Gloria Quera (my wife), Judith Sánchez-Raya, Mónica Villagrasa, Carlos Villanueva, Esther Pages and Mar Meléndez, as well as the sponsors: Diers, DM Orthotics, Ortholutions, Grau Soler and OrtOiberica. I think it was also like a homage to Grupo Pacífico for their excellent job in the technical secretary and support to the International Scientific Committee.

Now it is time to continue with our clinical practice looking at the patients and their families. I believe our Society is like a source of energy to move on and for this reason, and others, obviously, we are already looking forward to meet up again. Dr Stefano Negrini, our President, and all his team will organize the SOSORT meeting 2012 in Milano. We wish all the best to Dr Negrini and we offer him our total support to have next year the best SOSORT meeting.

Dr Manuel Rigo

Chair of the 2011 SOSORT Annual Meeting and 8th International Conference on Conservative Management of Spinal Deformities.

EDITORIAL: MEMBERSHIP Committee by Fabio ZAINA.

Dear Scoliosis expert,

During the last decade it became harder and harder to find a congress of good quality that focuses on conservative treatment of scoliosis according to scientific data. The best international meetings became progressively devoted to surgery. No more room for conservative, no chance to have a paper accepted. No way to make the conservative treatment change from being expert-opinion based becoming evidence based. Nevertheless, people are demanding conservative treatment, and they want it to be effective and EBM. So, what should we do? This was the question raised by a group of people deeply involved in scoliosis conservative treatment, both physician, physiotherapists and CPO, but also aware of the necessity to increase research in this field. And the answer has been to create a new society, a group where to discuss, where to grow up and make research together. This is how

SOSORT was born in 2004, the Society on Scoliosis Orthopaedic and Rehabilitation treatment, during a meeting held in Barcelona. Just a few people, at that time, but with a clear idea, a dream and the willingness to realize it. Now, seven years passed, and SOSORT has grown up. During the 2011 meeting, held again in Barcelona, it reached a significant goal, increasing the number of members to more than 100, including people from all around the world! A great result, for those people who have devoted themselves to this project.

Now SOSORT is a place for all those who want to transform the conservative treatment in EBM. A place where, also those who are not researchers can learn, can discuss, can improve. Do you think this has a value? I think so. And that's why I would like to invite you to join us to grow up professionally together. If we want to continue to have a place for all these things, we need to support this project, and make SOSORT grow up and continue to exist!

As we grow we see increasing interest from all the professionals of conservative treatment, and also from patients, who are an active part of the Society since the very beginning. SOSORT has achieved important objectives, and provides great opportunities for all the professionals:

- * An annual congress, where we can discuss face to face and develop new projects together and new relationships.
- * The "Scoliosis" Journal, an open access peer reviewed journal, where we can collect the main papers on the topic and make them free for all those who are interested.
- * Clinical guidelines, totally Evidenced-Based, to help with clinical decisions, which are now close to their second edition.
- * A Website, where we can collect all the material related to the Society.
- * A Newsletter, where we can easily find the main updates.
- * An instructional book about the clinical management of scoliosis, from evaluation to treatment.
- * An Award, in recognition of the most relevant researches in the field of scoliosis conservative treatment.

Don't you think these are great reasons to join SOSORT? If you agree, join SOSORT now! If you don't, then you should join SOSORT to help us achieve new objectives according to your suggestions!

Dr. Fabio Zaina
Membership Committee

EDITORIAL: PRESIDENT'S LETTER: Dr. Stefano NEGRINI

A FEE for SOSORT

Dear members of SOSORT, My Colleagues,

Following Past Presidents Manuel Rigo, Theodoros B Grivas, Tomasz Kotwicki, and Toru Maruyama, you can imagine what an honor it is for me to become President of this new, but already most distinguished Society. My predecessors are amazing doctors and, most of all, wonderful men. They were founding members of this

society (together with JP O'Brien, HR Weiss, and myself), they served as Presidents and Board members, and they now remain on the Consulting Board to help SOSORT grow and flourish. But primarily, while guiding their own patients through the best possible treatment for scoliosis, they have been able to teach others and indirectly help many, many more patients through SOSORT. The scientific strength the Society is finally giving much credibility, after many years of absence, to the conservative approach to Scoliosis Orthopedic and Rehabilitation Treatment. My biggest privilege and goal is to continue these efforts, and strongly maintain the vital flame of our Society.

The Society is steadily growing. Like a baby after the first cautious steps, SOSORT is now strengthening and gaining momentum. Hopefully, it will not take long before the most recent colleagues to join SOSORT will contribute much more scientific strength to research in the field than what the Founders have ever been able to do. This is what we hope, and one of the main reasons why the Society was founded. We hope to coordinate these forces, to create the fertile ground from which new and better knowledge can grow in this underdeveloped, and for a long time almost ignored area of research on scoliosis treatment.

And now, this is the time to find clear and straight paths into the future. The last meeting in Barcelona made evident some of the old and many of the new challenges we are going to face. I will try to focus my Presidency on three key words, formed into an acronym, "FEE." I describe them to you in the order of the acronym, not in the order of their priority:

Fair-play: we all look at problems differently. We grew up in a world that was gradually forgetting research on conservative treatment, and where consequently a forum to compare this kind of work did not exist. We developed our talents isolated from one another in a few mainly (but not only) European groups, and as a consequence we are very different one from the other in the braces we use and the exercises we prescribe. But we have also developed many commonalities as we discovered and enlightened over the years. We have similar treatment tools (although we apply and develop them differently). We have similar team approaches to the care of patients. And we have a similar commitment to our patients to improve their health and to reduce their impairment and disability due to scoliosis. As we now begin to combine many of our ideas, we also continue to be strong believers in what we do, and we strongly defend our ideas and methods. And this is a good thing, because new and better treatments for our patients can come only from a good and strong comparison of theories and techniques. But, like in any other game, fair-play is the key. Let's fight "for" what we do, and not "against" what others do. This is a challenge SOSORT is already facing. And the Board has to be the referee to keep unfair players from contaminating and diminishing the good work we are doing.

Evidence: SOSORT was born to develop and strengthen evidence on conservative treatment of scoliosis, whether that evidence supports or refutes our current practices. After some years of work, we can say today that we have at least some evidence to rely on, but we must also admit that we still have a long way to go. First of all, we need to find the means to reach the best possible evidence. In bracing, we have witnessed the partial failure of the well-financed and well-organized US randomized controlled trial (RCT), which has now been converted

into an observational controlled trial. We have also seen the total failure of the Dutch study, as well as presumably others that were previously attempted but not reported widely. This tells us something important: Randomized Controlled Trials are very difficult to perform in a field where parents want the best treatment (or, at least, a treatment) for their children with scoliosis. A RCT has been produced on SpineCor, but with only a few patients that had small curves. Perhaps RCTs will be started on exercise programs, since it could easily be done in countries where exercises are not used at all, due to the so-called "exercise-dogma" that continues to be promoted against their usefulness. But evidence can also be gathered through other designs, such as good observational prospective studies coming from clinical databases and/or registries. We have to find our way towards the evidence, but in any case we must continue to fight for evidence- strong evidence- because this is the only road to the future. This is a goal that we must continue to have, and SOSORT must continue to work to find the best methodological approaches for gathering evidence in our field.

Ethics: while the pendulum apparently is coming back, and conservative treatment for scoliosis seems to be gaining some more strength, it is also time for us to be very careful. We must be ethical in the approach to patients, in the selection of patients to be treated, and in the methods by which we provide treatment. We must promote the team approach, including all of our important colleagues: surgeons, conservative physicians, orthotists, physiotherapists, patients and families. Without a team, we will lose the battle, and we cannot sustain these approaches based on a single professional's skills or knowledge. Moreover, there are people around the world who are making money with caricatures of real conservative treatments: insoles or dental treatments to correct scoliosis, therapies sold on the internet without even knowing the patient, non-sense exercises and non-sense braces. This is not ethical! While we must open to new ideas that are developed through formal (and ethical) research, SOSORT must also reject these false treatments and fiercely fight for ethics in the care of these patients. We will, and the Board is already trying to tackle this issue.

The term **FEE** underlines another concept. We must pay, in the sense that we must serve our Society in order for it to grow. It is what our patients and the field of conservative scoliosis treatment deserves. Let's pay our share by conducting research; let's pay by remaining members of the Society; let's pay by participating in the meetings; let's pay by serving the Society on one of the various committees, on the Board, and by culturing future Presidents. When we do this we will receive back much more: knowledge, science, advocacy (through the "policy of research", that is the only one the world will believe), and also by wisdom we receive from our patients. Also important: we will receive the friendship of our fellow members. At least, this is my own experience, and I will fight to maintain this unique atmosphere of respect and alliance that now exists in the Society.

We are going to Milan for the next SOSORT Meeting, and you will soon have more news on that. Chicago in 2013 and Wiesbaden in 2014 are exciting venues that we are already waiting for. The Scoliosis Journal is growing, our Newsletter is strong, the web site is developing very well. The new Guidelines will soon be published, and other Consensus Projects are on the way. The relationships with the other Scientific Societies of the field, SRS (Scoliosis Research Society) and IRSSD (International Research Society on Spinal Deformities), are steadily growing. The

Presidential Line will continue with our French colleague Jean Claude de Mauroy ready to continue this work next year. SOSORT is slowly, but constantly growing.

Dear members and colleagues, we have gradually made ourselves known to the world in the last few years, and we will be watched even more in the future. We must proceed in one way only, the way of any good scientific society: Fairly, Ethically, and using the best Evidence (FEE).



Stefano Negrini
President of SOSORT

9th SOSORT MEETING: MILAN by Dr. Stefano NEGRINI

Welcome to Milan to all SOSORT members and guests !

The Local Organizing Committee, the International Scientific Committee, and ISICO welcome all most distinguished researchers of the field of conservative treatment of scoliosis to the 9th International Conference on Conservative Management of Spinal Deformities, 7th SOSORT Annual Meeting. After Barcelona, Milan, Poznan, Boston, Athens, Lyon, Montreal and Barcelona it is now time to return to Milan in 2012. The meeting highlights include this year:

- **Scientific Sessions:** we look forward to receive more abstracts than ever, maintaining the continuous growth of these years;
- **Consensus Session:** conducted by *Patrick Knott*, will focus on "Imaging: how much and when";

- **Invited Lecture** by the Scoliosis Research President, *Stephens B Richards*;
- **Key Note Speakers**: this year we will deepen the scientific basis of idiopathic scoliosis, thanks to *Lorenzo Aulisa* (biomechanics), *Nicola Smania* (neurophysiology), and *Adriano Ferrari* (lessons from secondary neurological scoliosis);
- **SOSORT Award**: will focus on the best submitted papers, as judged by a Jury chaired by the International Scientific Committee President, *Toru Maruyama*, and the Scoliosis Journal Chief-Editor, *Theodoros B Grivas*;
- **Presidential Address** by the SOSORT President;
- **Controversial Issues Session**: "When to fuse or not to fuse", moderated by the SOSORT Past-President, surgeon and conservative expert, *Tomasz Kotwicki*;
- **Lifetime SOSORT Honorary Membership Prize**: after *Jacques Chêneau* and *Christa Lehnert-Schroth*, awarded in Barcelona 2004, we will restart the tradition with two new Awards given to prominent retired conservative experts, that will also give short lectures on their achievements and knowledge.

Previous the meeting, the **2nd Educational SOSORT Course** will be held, combined this year with the 8th R&R ISICO meeting (already a tradition in Italy):

- during the first day, the SOSORT Guidelines will be exposed by the leading SOSORT teachers in a practical way, combined with a short presentation of the evidence-based bracing and physiotherapeutic specific exercise schools;
- during the second day, two practical whole-day workshops (one on bracing, the other on physiotherapeutic specific exercises) will deepen the techniques shortly presented the day before.

In this way we hope to face the needs of all the team involved in scoliosis conservative treatment: physicians, orthotists, physiotherapists, chiropractors and other professionals.

Together with science, it is worth underlying that all of you are welcome to Italy, the country of friendship, culture, "slow" food, and tourism, and to Milan, the city of fashion, shopping ... and scoliosis conservative treatment! Some insights (you will have more in the official web site of the Meeting: www.sosort2012.org):

- Culture: Leonardo da Vinci's Last Supper, Duomo, Brera Museum, Castello Sforzesco, Basilica of S. Ambrogio, Columns of S. Lorenzo, and much more;
- Food: Italy is an eating experience !
- Tourism: 1 to 3 hours to move from Milan to Venice, Florence, Rome or Turin, but also the lakes and mountains or the Liguria seaside;
- Fashion: just move around and look at people and shops: it is in the soul of Milan;
- Shopping: the town of shopping is waiting for you and your relatives;
- Scoliosis conservative treatment: this is worth some explanations: while Milan ranks "only" 27th in the world (6th in Europe) among the cities where PubMed/Medline high quality scientific papers on scoliosis (source: www.gopubmed.org; keyword "scoliosis[mesh]") have been published, it ranks 2nd for "brace[mesh] AND scoliosis[mesh]", and 1st for "exercise[mesh] AND scoliosis[mesh]".

Hopefully, this 2012 Milan Meeting will be another cornerstone in the building of

SOSORT. In 2005 SOSORT was founded in Milan, following the first International Meeting in Barcelona. In 2005 we also started the tradition of the SOSORT Consensuses, producing the most read paper in the history of our Journal "Scoliosis" (www.scoliosisjournal.com). In 2012 we will have a full week of initiatives beyond the SOSORT Meeting and Course: we will offer other specific courses (**SEAS Courses** on physiotherapeutic specific exercises, mainly for physiotherapists and other exercise professionals; and **SPoRT-Sforzesco Courses** on bracing, mainly for physicians and orthotists) to let the colleagues that will come to Milan discover, what, in these years, has made of this town an international referent of scoliosis conservative treatment.

Dear SOSORT members and guests, welcome to the 9th International Conference on Conservative Management of Spinal Deformities, 7th SOSORT Annual Meeting, and all the science it can give to you; welcome to Milan, and to the wonderful experiences our city and country can (and will) offer you !

Stefano Negrini
President of the Meeting
President of SOSORT

SOSORT'S NEWS:

Actual Board:

President: Stefano Negrini - president@sosort.mobi

Past President: Toru Maruyama - past.president@sosort.mobi

President Elect: Jean-Claude De Mauroy - elect.president@sosort.mobi

Secretary: Patrick Knott - secretary@sosort.mobi

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Associate Secretary: Joe P. O'Brien - consultant1@sosort.mobi

NEWS: Scoliosis journal UPDATE

If you want to stay always updated about the current state of research in the scoliosis filed please check the link below

<http://www.scoliosisjournal.com/>

GADGETS: ELECTRONIC TOOLS

Larry Cohen from Australia shares with us an iPhone app which helps with the Raimondi table. As he explains, it is called ScolioRotation and is available for free on the app store. In case you are a PC user you can download for free in this link:

<http://www.posturalphysiotherapy.com.au/images/stories/docs/ScolioRotation.exe>

Larry remarks that no verification study has done before, although he has no different results when he has checked it! Anyway, we encourage him to present it next year in Milano!!

SCIENTIFIC EVENTS:

Eurospine 2011 – October 19-21, 2011 Milan ITALY

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 COLLABORATOR:

We thank Patrick Knott for his helpfull 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>

Patients 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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