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SpineWeek 2012 Secretariat

Welcome Addresses by the Organising Societies

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CSRS-ES

EuroSpine

ISSLS

NASS

SRS

SILACO

The Amsterdam RAI: Congress & Exhibition Venue

RAI Venue Outline

Amsterdam

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**Simultaneous translation Spanish/English

*Simultaneous translation Portuguese/English

Posters

Registration

Hotel Accommodation

General Information

Local Information

Official Carrier

SpineWeek on your Mobile Phone

WWW.SPINEWEEK2012.COM

WWW.SPINEWEEK2012.COM

WWW.SPINEWEEK2012.COM
Dear Madam, 

Dear Sir,

After the big successes of SpineWeek 2004 in Porto and SpineWeek 2008 in Geneva, we have the honour to announce SpineWeek 2012, which is to take place at the Amsterdam RAI from May 28 – June 1, 2012.

The purpose of SpineWeek 2012 is to synchronize the annual meetings of leading scientific societies concerned with disorders of the spine on one location. The decision to have such a combined meeting was discussed separately within each of these societies and it was decided to organise the meeting in such a way that the specific identity of each of the involved societies would be respected both on a scientific and social level.

For the International Society for the Study of the Lumbar Spine (ISSLS), EuroSpine, the Spine Society of Europe and the European section of the Cervical Spine Research Society (CSRS-ES), SpineWeek will be the normal annual meeting. The two societies of Latin America: the Brazilian Spine Society (BSS) and the Sociedad Iberolatinoamericana de Coluna Vertebral (SILACo) meet on uneven years; yet they have decided to join SpineWeek with a full delegation and a scientific programme. The North American Spine Society (NASS) and the Scoliosis Research Society (SRS) too will collaborate in SpineWeek 2012. The Asia-Pacific Orthopaedic Association – Spinal Section (APOA) has recently also confirmed its participation.

It is therefore important to note that in 2012 there will be no other meeting for ISSLS, EuroSpine and the CSRS-ES, which means that there will be no other major spine meeting in Europe that year.

The Amsterdam RAI (www.rai.nl) is located in the southern part of the city at the Ringweg Exit S109. It has its own railway station with direct connections to Schiphol International Airport (www.schiphol.nl).

We are pleased to invite you to participate in SpineWeek 2012. As we expect to welcome no less than 2,500 to 3,000 spine specialists, your company is offered the unique opportunity of getting in touch with spine specialists coming from all over the world.

Hoping to welcome you to SpineWeek 2012, we remain,

Yours faithfully,

The SpineWeek Committee
Jiri Dovrak
Dieter Grob
Robert Gunzburg
Marek Szpalski

The Local Organising Committee
Barend van Royen, Chairman
Ronald Bartels
Marinus de Kleuver
Willa Peul

WWW.SPINEWEEK2012.COM

WWW.SPINEWEEK2012.COM
The idea of SpineWeek is to synchronize the annual meeting of leading scientific spine societies in one location, thus simplifying meeting logistics both for delegates and participating industry.

SpineWeek was held in Porto in 2004 and in Geneva in 2008. These meetings were experienced as successes not only by the participating societies and attending delegates, but also by the sponsoring industry.

SpineWeek is set up in such a way that each participating society keeps its own scientific and social identity. Each society selects its own abstracts, has its own business meeting, presidential address, guest lectures and award sessions as during its normal annual meeting. However participants are encouraged to attend sessions of all societies and the programme is structured in such a way that abstracts of similar interests accepted by different societies appear in the same section. As always, industry and society workshops will again be organised during lunch breaks.

Delegates will be encouraged to attend the industry exhibition during breaks. There will also be society booths and relaxation areas where it will be possible to meet and interact with colleagues. This opportunity of meeting people with similar interests but whom one does not usually see at one’s own annual meeting is one of the aspects that was so appealing during the first two SpineWeek meetings.

The SpineWeek committee wishes you a meeting in Amsterdam that will be remembered not only for its scientific contribution to matters related to the spine, but also for all what revolves around such a meeting.

The SpineWeek Committee
Jiri Dvorak
Dieter Grob
Robert Gunzburg
Marek Sapański

The Local Organising Committee
Ronald Bartels
Marinus de Kleuver
Wilco Peul
Barend van Royen

Why SpineWeek

SpineWeek 2012 Secretariat

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Caros Associados da SBC,

A Sociedade Brasileira de Coluna está honrada com o convite para participar do SpineWeek 2012 que será realizado sediado em Amsterdan.

Gostaríamos de dar as boas vindas aos colegas cirurgiões de coluna e convidá-los a participar do evento. Esta é uma grande oportunidade de demonstrar a experiência brasileira no tratamento das doenças que afetam a coluna vertebral juntamente com outras Sociedades representativas de maior expressão de todo o mundo.

No evento poderemos compartilhar e discutir abertamente casos clínicos com cirurgiões de grande experiência e bom senso, aperfeiçoando e consolidando os conhecimentos no tratamento ao paciente.

Haverá espaço para apresentação de temas livres. Assim, pedimos que enviem o material com antecedência para que a comissão científica possa fazer a avaliação criteriosa em tempo hábil. A data limite é dia 15 de novembro de 2011.

Dr. Luís Eduardo Munhoz da Rocha
Presidente da SBC 2011/2012

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Dear Friends and Colleagues,

It is my great honour and pleasure to invite you to the 28th annual meeting of the European Section of the Cervical Spine Research Society (CSRS-ES). I am especially proud that our meeting is a part of SpineWeek 2012. This intense collaboration will certainly guarantee a pleasant and successful meeting of extreme quality, as we have seen at the earlier SpineWeek editions in Porto, Portugal in 2004 and in Geneva, Switzerland in 2008. The formula of organizing a meeting together with other major societies will encourage social and more formal contacts with spine surgeons from all over the world.

The topic of the meeting organized by CSRS-ES will be Degenerative Disease of the Cervical Spine. Problems related to degeneration will be more frequently encountered in the daily practice of the spine surgeon. Along with the aging of the population there will be a change in general mentality which will contribute to this increasing prevalence. Pain and restricted mobility are not accepted anymore.

The main topic will be covered by a number of distinguished guest speakers, free paper sections and poster presentations. There will be also some room for clinical and basic research as well as for reports about innovations.

We are looking forward to welcoming you in exciting and beautiful Amsterdam.

José Casamitjana, M.D., Ph.D.
President of CSRS-ES
Welcome by EuroSpine, the Spine Society of Europe

Welcome in Amsterdam for Spineweek – a very unique and interesting city with something for everyone. SpineWeek is one of the biggest spine meetings in the world concentrating the highest scientific level to promote the best treatment for the patients. Surgeons are facing challenges all over the world. Looking forward, it’s clear that there is a much greater emphasis on cost-containment and reductions in the use of high-cost procedures and treatments. There are more restrictive guidelines and appropriateness criteria, and those new rules should be developed with the input of professional societies. The main reason for cost saving is the global health system cost and expenses which are growing with always the same x budget x to share. Unfortunately the money allocated isn’t following the same growing speed.

Looking for evidence of efficacy is one of the objectives of the EuroSpine Society. To promote this, the EuroSpine Society has developed the Health Technology Assessment committee and its own database system. The Spine Tango database is open to all and allows the anonymous collection of data leading to the possibility of benchmarking. This is one of the strongest contributions of the EuroSpine Society through the EuroSpine Foundation (ESF), affiliated and sponsored by the EuroSpine Society, for this mission. This, in combination with teaching young surgeons and providing the ESF-EuroSpine diploma and the ESF-EuroSpine fellowship allows an international partnership with the best centers in Europe. Becoming an EuroSpine member brings a strong support and helps one to improve his/her practice.

I would like to thank the EuroSpine Program Chairs, who will have the opportunity to share the highlights of their area of expertise with you in the sessions, quick fires and debates.

This year we will be offering concurrent sessions in combination with the other societies involved in Spineweek. We look forward to welcoming you to Amsterdam in May 2012. After the sessions Amsterdam is a wonderful city to spend good time.

Jean Charles LeHuec, MD, PhD
EuroSpine President

ISSLS welcomes you to Spineweek 2012

The ISSLS was founded in 1974 to bring together individuals throughout the world who have richly contributed or who have a high interest in the study of the lumbar spine in both health and disease. It has a distinguished worldwide membership which is limited to 250 individuals. The association meets formally on an annual basis at venues rotated through North America, Europe and Asia-Pacific region.

The ISSLS is truly multidisciplinary including input and interaction from anesthesiology, basic research, chiropractic, engineering, internal medicine, neurosurgery, orthopaedic surgery, physical therapy, physical medicine, psychiatry, psychology and radiology. Members and non members may attend and present scientific information at the annual meetings. ISSLS supports a number of fellowships in clinical and basic research. SPINE is the official publication of ISSLS. Information about the ISSLS and its activities are available on our website www.issls.org.

The Spine Week in Amsterdam will allow delegates from all spine societies to showcase and share their high quality research with other members. The event will also undoubtedly provide ample opportunities for cross-pollination of ideas, to form new friendships and strengthen old ties amongst the spine community.

S Rajasekaran
President ISSLS
Dear Spine Care Professionals,

The North American Spine Society (NASS) welcomes you to participate in SpineWeek 2012 where NASS will present the latest developments in multidisciplinary spine care education, research and innovation.

During this meeting, you will have an opportunity to exchange ideas with expert faculty and attend sessions on timely updates and significant outcomes in the world of spine care.

Over the years, NASS has strategically developed and offered pertinent educational programs in partnership with regional spine societies worldwide. These collaborative efforts have allowed NASS to foster superior spine care globally. You can learn more about NASS’ programs and international outreach at www.spine.org.

NASS is driven by a mission to help spine care providers and patients by fostering the highest quality, evidence-based and ethical spine care. To achieve that mission, NASS is committed to providing the educational programs and professional resources needed to improve spine care practice across various regions of the world.

On behalf of NASS, I invite you to contribute to the advancement of the global spine care community through your participation in SpineWeek 2012.

Michael Heggeness, MD, PhD
President 2012

Welcome by the Scoliosis Research Society (SRS)

The Scoliosis Research Society (SRS) is pleased to participate in the upcoming 2012 Spine Week along with other prestigious societies. As the oldest spinal society in the world with a mission statement based on providing optimal care to all patients with various spinal deformities, the SRS is pleased to be able to provide a 1 day comprehensive conference on the current state of the art for Operative care of all types of spinal deformity. This major spine meeting taking place in the Netherlands is a perfect venue for our global educational effort to reach a large and diverse group of attendees interested in furthering their spinal deformity knowledge and techniques. We are fortunate to have one of our outstanding SRS active members, Marinus de Kleuver, MD, PhD from the Netherlands as a local host who will assist with the planning, organization and running of the SRS portion of the Spine Week program. With a full day of didactic lectures, moderated case presentations and technical forums, we anticipate this course will be a highlight of our World Wide Committee’s efforts in 2012, and all of us on the current Presidential Line of the SRS look forward to an excellent educational, social and collegial experience!

Lawrence Lenke, MD
President SRS

B. Stephens Richards III, MD
President Elect SRS

Kamal Ibrahim, MD
Vice President SRS

Richard McCarthy, MD
Immed. Past President SRS
Estimados colegas:

La Sociedad Iberolatinoamericana de Columna Vertebral (SILACO), tiene el agrado de invitarlos y darles la bienvenida al SpineWeek 2012, que se llevará a cabo en la ciudad de Amsterdam. Nuevamente participaremos en este evento global, junto a las más prestigiosas Sociedades de Columna del mundo. La SILACO está integrada por todas las Sociedades de Columna de América Latina y España, hermanadas por sus raíces socioculturales. En esta oportunidad, además de la presentación de trabajos libres, las Sociedades de cada país actualizarán distintos tópicos de la especialidad. Están cordialmente invitados a disfrutar del SpineWeek Amsterdam 2012.

Dear Colleagues,

The Iberolatinamerican Spine Society (SILACO) is pleased to invite you to SpineWeek 2012, to be held in Amsterdam. We will once again be participating in this global event, together with the world’s most prestigious Spine Societies. SILACO consists of all Spine Societies in Latin America and Spain, which share common cultural roots.

At this event, in addition to the open paper sessions, the different national societies will provide updates on various topics in our field. You are cordially invited to enjoy SpineWeek Amsterdam 2012.

Yours sincerely,

Horacio Luis Sarramea
SILACO 2012 President
Orange: Conference rooms and facilities
Hall 10: Non-commercial exhibition, poster discussion corners, Internet corner, sitting area and electronic posters

Hall 11: Commercial exhibition and catering

Amsterdam

Amsterdam, the City
The Dutch capital has been known through the centuries as a city with an international outlook. Cosmopolitan and colourful, Amsterdam has always been a thriving commercial and industrial centre.

You will feel right at home in the Dutch capital, where business opportunities abound, and English has become a second language. In Amsterdam you can mix business with pleasure as nowhere else.

Apart from a wealth of picturesque historic sites, the city prides itself on a swinging nightlife, charming shopping streets, international haute cuisine, galleries and 40 famous museums.

Equally important, Amsterdam has a hospitable citizenry who enjoy meeting people from abroad. This mixture has made Amsterdam into one of the world’s preferred congress cities.

Amsterdam, the Airport
Amsterdam Airport Schiphol is acknowledged as one of the world’s best airports. With 490,000 flights and 45 million passengers a year Schiphol has the highest standards of service and is constantly improving the benefits for the traveller.

From all over the world direct scheduled services fly non-stop to Amsterdam Airport Schiphol. These scheduled services fly from 129 destinations within Europe and from 108 non-European destinations to Schiphol. In addition there are charter flights to and from Amsterdam Airport Schiphol. As many as 80 airlines fly to Schiphol, conveniently located in the heart of Western Europe.

Moreover, Amsterdam Airport Schiphol enjoys a very special status among its users, ranking first among the world’s airports in virtually every poll of frequent international travellers.

On arrival, you can board a train carrying you directly to RAI Station within 9 minutes. From there it is only a 3 minutes walk to the Amsterdam RAI.

Amsterdam, Public Transport
The compactness of the city minimizes the need for taxis and public transport as almost everything is within walking distance.

Nevertheless public transport in Amsterdam - buses, tram and metro - is most efficient, modern, reliable and inexpensive. Public transport tickets will be offered to all SpineWeek participants free of charge, enabling delegates to travel freely on the city’s municipal transport system during SpineWeek.
Programme at a Glance

**MONDAY MAY 28**

- **Auditorium**
  - EuroSpine
  - ISS\* Other Satellite Symposia/Workshops

- **Forum**
  - CSRS-ES General Assembly

**TUESDAY MAY 29**

- **Auditorium**
  - EuroSpine
  - ISS\* Other Satellite Symposia/Workshops

- **Room E102**
  - EuroSpine
  - ISS\* Other Satellite Symposia/Workshops

**WEDNESDAY MAY 30**

- **Auditorium**
  - EuroSpine
  - ISS\* Other Satellite Symposia/Workshops

- **Forum**
  - CSRS-ES General Assembly

**THURSDAY MAY 31**

- **Auditorium**
  - SILACO**
  - ISS\* Other Satellite Symposia/Workshops

- **Room E102**
  - ISS\* Second Business Meeting
  - SILACO**

- **Forum**
  - ISS\* Other Satellite Symposia/Workshops

**FRIDAY JUNE 1**

- **Room E102**
  - NASS
  - Dutch Spine Society

*Simultaneous translation Portuguese/English
**Simultaneous translation Spanish/English
Monday Morning

Welcome Address
Jean Charles Le Huec, EuroSpine President

Program Committee Report
Philip Sell, UK

Quickfire I: Serious Spine Disorders
Chair: Arcangeli E. & Nedland K.

08.00-08.10
How can we prevent postoperative disability following lumbar disk surgery for spinal metastases? Kato S., Matsumata M., Demuynck S., Imamura K., Kato C., Takeda M., Yokoyama N., Tomita T., Tsuchiya H., Japan

08.05-08.10
Is acidosis a cause of scoliosis? Mosto M. & Casale M.

08.10-08.15
How can we prevent postoperative disability following lumbar disk surgery for spinal metastases? Kato S., Matsumata M., Demuynck S., Imamura K., Kato C., Takeda M., Yokoyama N., Tomita T., Tsuchiya H., Japan

08.15-08.20
Is acidosis a cause of scoliosis? Mosto M. & Casale M.

08.20-08.25
Acidosis fibroblast growth factor for repair of human spinal cord injury: A clinical trial
Wu H.C., Hung W.C., Chen Y.C., Tu H.T., Tzai Y.A., Huang S.F., Huang H.C., Cheng H.; Taiwan

08.25-08.30
Fat chafed is a factor affecting to oaric posture and right thoracic curvature in normal spine
Do T., Iono C., Torukado K., Hiramitsu K., Matsumoto Y., Okazaki S., Iwashige Y., Japan

08.30-08.35
Growing spine profiles- result of treatment of progressive spinal deformities
Tanaka G., Tomita T., Doi J., Poland J.

08.35-08.40

08.40-08.45
Design and test of an implant system to correct scoliosis without vertebrectomy Weiss J., Helmken E., Verbeke B., The Netherlands

08.45-08.50
Neurological outcome for infectious vertebral osteomyelitis with severe paralysis Aoki H., Chiba T., Toshikora I., Kuroda M., Odaka S., Iwai M., Japan

08.50-08.55
Multidisciplinary paraspinal invasion and accompanying post spinal surgery Cowley D., Alexander M., Morris S., Ireland

08.55-09.00
Placement of pedicle screws in the thoraco-lumbar spine using neuronavigation: A comparative retrospective evaluation Riva M., Tavella A., Tavella M., Graniti S.M., Pudlak M., Scorzoni P., Italy

09.00-09.15
Spine Tumor Annual Report
Munster E., Belgium

09.10-09.15
Is the discography dead in this decade? Madar L., Denmark

09.15-09.20
Debaters: Franke J. & Carragee E.

09.20-09.25
Coffee

09.25-09.30
Session I: Adult Thoraco-Lumbar, Deformity and Degenerative
Chair: Groth J. & Wilson L.

09.30-09.35
A prospective randomised trial between transoral (T) and instrumented posterior fusion (PF), two-year follow-up Nary E., Nielsen B., Hellegaard P., Stender Hansen E., U.H., Andersen T., Bingler C., Denmark

09.35-09.40

09.40-09.45
Low grade spondylolisthesis can be effectively treated by either Cobb fusion or lumbarinection or laminectomy and posterior fusion surgery: two-year clinical and radiographic results from the ISID trial Davis R.A., Auerbach J., Baro A., Erick T., USA

09.45-09.50

09.50-09.55
A possible role for posteriorly directed shear load in degenerative scoliosis
Hommings J., Lehn M., Meijer G., Jansen M., Schloske T., Verbeeck B., Castelein R., The Netherlands

09.55-10.00
Degenerative Thoracic Injuries and Minilaminectomy: A new cervical stimulating factor for patients with worsening symptoms of thoracic myelopathy, a multicenter prospective controlled trial

10.00-10.05
Introscopy of spinal deformity in sagittal plane
Kaito T., Johnson J., Ellerman J., Tian H., Aydogan M., Indonesia

10.05-10.10
Symptomatic effect of bone morphogenetic protein-2 and -7 by bioengineered gene therapy in rat spinal fusion model
Koito T., Johnson J., Ellerman J., Tan N., Aydogan D., Charleaugue P., Ngo S., Wang J., Japan

10.10-10.15
Conclusions of analysis of genetic association of 58 SNPs with highly specific phenotypes for disc degeneration in 342 subjects Rajagopalan S., Kendal L., Mulheran R., Nielson S., Chen D., Cheung K., India

10.15-10.20
Addressing cardiomyopathy in patients undergoing spine surgery: A difficult balancing act Mannion K., Pelosi T., Muller U., Porchell F., Klaukock F.S., Greb D., Deadi J., Switzerland

10.20-10.25

10.25-10.30
Impact of the magnitude and percentage global spinal sagittal plane correction on health related quality of life of 2 or 3 year follow-up Wörnelis B., Schiwat F., Ungar B., Moorb B., Smith J., Bledow K., Grassman S., Stuthoff C., Jann P., Ludwig V., USA

10.30-10.35
Pre- and postoperative QOL, pain and function after spinal fusion in chronic LBP: gender dependent? 2-year results from SWINPHINE
Robinson Y., Sansbind S., Sweden

10.35-10.40
Clinical tolerance to sagittal imbalance varies with age Pelek F., Kroll M., Alarcon A., Baggi A., Villaescusa A., Villarcayo C., Arcasoy E., European Spine Study Group, Spain

10.40-10.45
Cervical spine sagittal alignment in adolescent idiopathic scoliosis and impact of surgical correction on thoracic kyphosis
Clement J.L., Stimmell M., Geoffrey A., Yagoda F., France

10.45-10.50
The Spine Society of Europe Update
The Γammaramm Award

10.50-10.55
A new approach for the Spine Surgery Travel Bursaries S16 Strategies Getting Involved
Welcome by the president of CIRS-es
Philippe Bancaud, France

Session I
Chairs: Bancel P. & Jeanneney B.

8:04-9:00 204 Anatomy of neck pain
Groen G., The Netherlands
9:04-10:00 205 Cost-effectiveness of interventions for neck pain
Von Ilander M., The Netherlands
9:04-10:00 206 C1-C2 spondylosis
Jeanneney B.; Switzerland
10:00-11:00 Coffee
10:30-11:00 207 Treatment of cervical radiolucency - Past, present and future directions
Jackowiak A.; UK
11:00-11:30 208 Surgical treatment for cervical spondylotic myelopathy with special emphasis on the focal joints
Goel A.; Seth G.S.; India
11:30-12:30 General Assembly

Welcome

14:00-14:04 Welcome

Session I: Basic Sciences & Biomechanics
Chair: Wojtzenberg M.

14:04-14:10 029 Vertebral endplate changes related to ageing and mobility of the vertebral segment
Hermo C.F., Delmio H.; Brazil
14:10-14:16 030 Biomechanical comparative study of compression strength, torsion and fatigue between conc: and cylindrical screws
14:16-14:22 031 Histological analysis of the intersegmental disc influence in the spine cell monolayer therapy on disc degeneration in an animal model
Vieira É., Vieira L.R.G., Arduca A., Kleger A., Mazoni N.G., Koty A.M.G.; Brazil
14:22-14:28 032 Cytokine inhibition and time-related influence of inflammatory stimuli on the hypertrophiy induced by the nucleus pulposus de Sousa Gama A.L., Luiz Fernando Renati L.F., Delmio H.L.A.; Brazil
14:28-14:34 033 Assessment under motor nerve spinal cord trauma and human spine cell transplantation
14:34-14:44 Discussion

Welcome

Session II: Defomity
Chair: Deftis R.L.A.

14:44-14:50 034 Surgical treatment of adolescent idiopathic scoliosis - Results evaluation of instrumentation and fusion in curves lessie type I
Koty A.M.G., Zarzana N., Pudelé E., Munhoz da Rocha L.E.; Brazil
14:50-14:56 035 Spinal muscular atrophy type II with scoliosis - Evolution of surgical results
Rocha L.E.M., Pudelé E., Lomper H.B.; Brazil
14:56-15:02 036 Caregivers’ satisfaction after spinal fusion in cerebral palsy patients with scoliosis
Rocha L.E.M., Tortolo S., Grimm D.N., Cunha L.A.M.; Brazil
15:02-15:08 037 Clinical and radiographic evaluation of the spine in patients with Osteogenesis imperfecta and its association with the classification of Silence Vaz de Lima M., Serrilli C., Aikta M.; Brazil
15:08-15:14 038 Bone density values compared with Cobb angles in AIS patients. Does the use of a brace have an effect on bone density?
Bolognini M., Elden C.H., Foyo M., Abouakli B.; Turkey
15:15-15:20 039 Comparison between pedicle subtraction osteotomy and Smith-Petersen osteotomy in two levels for fixed sagittal imbalance correction of the spine
Vieira É., Vieira L.R.G., Do Rocha G.J.G., Kleger A., Jacob C.J., Mazoni N.G., Koty A.M.G.; Brazil
15:20-15:30 Discussion
15:30-16:00 Coffee
Session III: Cervical Spine Chair: Cristiane A.F.


16.06-16.12 O61 Stand alone cervical pedicle cages treating degenerative spine disease: Clinical outcomes after 10 years experience Alves M.S., Costa J.S., Alho J.L., Porte J.L.M., de Souza A.A.; Brazil

16.12-16.18 O62 Results of the use of stand alone cervical in spine degenerative diseases Cavalcante F., Cordeiro V., Campos E., Coutinho S., Franco T.; Brazil

16.18-16.24 O63 Minimally invasive Percutaneous Endoscope Key hole foraminoplasty (PMK) for cervical spondylotic radiculopathy: Khotgade Y., Satyaj K., Desai A.; Japan

16.24-16.30 O64 Computed tomographic evaluation of odontal process: Implications for anterior screw fixation of odontal fractures in adults publication Datar M.T., Datar S., Mogaluru Barboss M.H., DeFino A.L.A.; India

16.30-16.40 O65 Discussion

Session IV: Lumbar Spine Chair: Menees C.M.

16.40-16.46 O66 Techniques of lumbar-sacral spine fusion in spondylitis: Systematic literature review and meta-analysis of randomized clinical trials Uchino K.S.G., Azulay O.; Brazil

16.46-16.52 O67 Translaminar facet screw fixation: Updated guidelines Wunderley J.P.R.V., Ribiero C.K.T.; Brazil

16.52-16.58 O68 Role of ‘low back’ Indian implants in our practice: Our experience with 1072 pedicle screws Nene A., Rawat S., Pawar U.; India

16.58-17.04 O69 Surgical treatment of lumbar spinal stenosis without fusion Court R., Al-Shamkhani R., Al-Hasani R., Al-Zoubi S.; Jordan

17.04-17.10 O70 Percutaneous endoscopic transaxial approach for herniated nucleus pulposus in the hidden zone of the lumbar spine Sumita T., Satyaj K., Desai A.; Japan

17.10-17.16 O71 Are there image parameters that indicate an increased risk of adjacent segment disease (ASD) in the lumbar spine?diffusion of customary radiographic parameters Donsmooicon L.H.F., Domerciano L.A.N., Frondse G.C., Tempeli M., Harris G.; Germany

17.16-17.22 O72 Discussion

Session V: Spinal Trauma Chair: Casanova J.J. & Fehlings M.

13.30-13.40 O51 Neglected nonunited odontoid type II fracture with myelopathy: treatment with 4 different fusion techniques Burnettaper T., Sugandnawati N., Liemwoonheung S.; Thailand

13.40-13.50 O52 Biomechanical evaluation of salvage pedicle screw fixation techniques for the instrumentation around circumferential fixation Hongs T.J., Litt I., Takeda T.; Republic of Korea & Japan

13.50-14.00 O53 Atlantoaxial reconstruction with C2 laminar screws and soft connectors in the presence of odontoid instability: A biomechanical analysis Kings D., Lammie M.A.R., Dimaio A.E., Cordoni M.I.; USA

14.00-14.10 O54 Stand alone interbody spacer bodies for multi level cervical reconstruction: Do they provide adequate biomechanical stability? Kings D., Dimaio A.E., Cordoni M.I., Pak H., Gauvre R., Craig A., Ambard A., Lammie M.A.R., USA

14.10-14.20 O55 Posterior atlantoaxial fusion with Magerl screw and oftamp clips leads to successful stabilisation of odontoid fractures: A prospective follow-up study in 4 consecutive patients Phoenix A.L., Glend A., Ridingman Y.; Sweden

14.20-14.30 O56 Analysis of measurement accuracy for canalfronted junction pathology - Most reliable method for cephalometric analysis Hong J.T., Lee H., Lee J.W., Ah M., Park C.K.; Republic of Korea & USA

14.30-14.40 O57 Is lordosis needed for planning a posterior decompressive laminectomy in multilevel cervical spondylotic myelopathy? Evaluation of results with respect to cord shift, postoperative kyphosis and neurological recovery Jan A., Pasad G., Deere T., Rutsch T., Bijnagke T.; India


14.50-15.00 O59 Cervical kyphosis of patients with idiopathic scoliosis Sugimoto Y., Tanaka M., Takaoka T., Terumegu T., Okaizaki S., Japan

15.00-15.10 O60 Sagittal balance of the cervical spine: Analysis of occipitocervical interdependence? Wuq-Ka-Persson S., Megel L., Meier O., Mayer M., Zemner J., Koller H.; Germany & Austria

15.10-15.20 O61 Does sagittal facet inclination govern faceted extension motion pattern in the cervical spine? Mcmaster B., Putt B., Hassan N., Sanoval V., Varlo N., Blomqvist P.; Sweden


15.30-16.00 O63 Coffee
Session III
Chains: Goffin & Song J.K.

16.00-16.10 O43 Prophylactic bilateral C5 reinnervation with open door laminopexy does not influence postoperative facial asymmetry, neuromuscular recovery and salivary flow
Chuah A., Kameswar S., Kaur M., Shukla Y., Suhana Y., Saty R., Japan

16.10-16.20 O44 Prophylactic high-dose methylprednisolone therapy is effective to prevent C5 palsy in patients with open-door OPL
Hoang-Kim C., Homma T., Shioda S., Invoke K., Japan

16.20-16.30 O45 Multifocality of C5 palsy incidence after cervical posterior fusion with instrumentation
Makalosnoi H., Imagama S., Yashuhiro K., Japan

16.30-16.40 O46 An over 10-year follow-up after posterior microsurgical laminar discectomy with lumbopexy for cervical myelopathy due to para-central type herniation
Fujimoto T., Morimoto A., Miyoshi A., Mizuno J., Yumita T., Japan

16.40-16.50 O47 Cross-sectional area of cervical deep extensor muscles in asymptomatic subjects - A 10-year longitudinal magnetic resonance imaging study
Odaka E., Matsumoto M., Ishii F., Chiba R., Toyama Y., Fujimoto H., Watanabe T., Yokota T., Japan

16.50-17.00 O48 Intervertebral disc degeneration - A 10-year follow-up
Ruan D., He Q., Qin G., Zhang Y., Wang D., Hou L., Lu C., Lu K.D.E., China

17.00-17.10 O49 Risk factors of chronic neck pain: A prospective study among middle-aged employees
Koéla S., Usakikomori M., Teramoto K., Lohela E., Leino-Ajamo P., Finland

17.10-17.20 O70 Cardiopulmonary function in elderly patients with cervical spondylotic myelopathy
Yoshida G., Kaniwama T., Nakihara Y., Mathiyasamy Y., Japan

17.20-17.30 O71 Clinical results of cervical myelopathy in patients over 80 years old
Takanah H., Nakazato H., Konishi T., Iwamoto T., Oka R., Fujimoto Y., Fujimoto Y., Ochi R., Japan

17.30-17.40 O72 Adjacent segment degeneration following Prodisc-C total disc replacement and anterior cervical discectomy and fusion – Does surgeon bias affect radiographic interpretation?
Skeie S., OLSen E., Dardennes B.V., Sengelov P.B., Pratt J.W., Maimi R.A., Beigun C.D., Rhiney A.L., Cleaver E.B., USA

17.40-17.50 O73 Cervical disc replacement, clinical outcome and radiographic analysis of the adjacent degeneration 10-years follow
Tomurek F.C., Gentilimano M., Loginsosa C.A., Italy

Session IV: Thoraco-Lumbar, Deformity and Degenerative
Chair: Battiferri C. & de Kleuver M.

16.50-17.00 O81 Adult deformity: A very large population of patients with different needs
Aconcáaga O., Dargomazhsky M., Uder U.O., Yakici S., Alonso A., Pelled F., Turkey

17.00-17.10 O82 The outcome of surgery for lumbar degenerative scoliosis: What does the patient think?
Aminian F.T., Eckstädter H., Patera T.T., Müller U., Porchell J., Jedlacký D., Morrison A.P., Switzerland

17.10-17.20 O83 Vascular anatomy in the lumbar spine investigated by 3D CT and the concept of vascular window
Bonny C., Louis-Tessier A., Gire B., Montagna P., Perrin G., France

17.20-17.30 O84 Clinical features and surgical outcomes of lumbar spinal canal stenosis in patients aged 80 years or older - A multi-center retrospective study
Nagao Y., Nagashima H., Takanah H., Doke T., Tahara M., Matuda M., Ito Y., Kami T., Matsumoto H., Nishimura H., Yuki H., Yasuhito K., Japan

17.30-17.40 O85 Radiographic analysis of sagittal balance in thoracic and thoracolumbar degenerative spondylolisthesis
Sadowidzka M., Fabr T., Nahl A., France

17.40-17.50 O86 Neurophysiological changes during interposition dislocation in lumbar spinal stenosis
Schuch C., Probing E., Kuik K., Switzerland

08.50-09.04 O81 Combined assessment of pelvic III, pelvic incidence/lumbar lordosis mismatch and sagittal vertical axis predicts disability in adult spinal deformity: A prospective analysis

09.04-09.12 O82 Long-term longitudinal radiological evolution in pseudorachischisis after FLP using interbody carbon cage - A prospective 5-year study
Kanemura T., Nakihara Y., Matsumoto A., Satoke K., Saka F., Inoue S., Imagama J., Kowakami H., Japan

09.12-09.20 O83 Monitoring the potential for adverse event reporting bias in the context of an instrument clinical events committee
Avelin J., McGowan K., Holmén M., Makinlo G., USA

09.20-09.28 O84 Learning curve of a complex surgical technique: Minimally invasive translaminar interbody fusion
Lee K.H., Yeo W., Suh S.W., Korea, Republic of Korea

09.28-09.36 O85 Pelvic joint fusions in patients with chronic pelvic girdle pain: A 22-year follow-up
Klingberg T., Rehe D., Stenge B., Juliusson E., Norway

09.36-09.44 O86 Can different surgical strategies result in satisfactory postoperative sagittal alignment?

10.00-10.10 O87 Surgical treatment of flat back syndrome: Smith-Peterson versus pedicle subtraction ostectomy

Coffee
Session III: Thoraco-Lumbar, Serious Spine Disorders

11.18-11.26 T54
Pre-evulated side hole PS alone versus special neural cell elements provided for functional recovery after spinal cord injury without any significant side effects in adult common mammals.

Kobayashi Y, Okado I, Iwai M, Nakamura M; Japan

Survival analysis of the breast cancer subtypes in spinal tumor.

Mang W, Benger C; Denmark

Novel technique of total spondylodiscotomy enhancing anterior tumor resection for spinal tumors.


11.34-11.42 O44

Physical symptoms in patients with intraspinal tumor and degenerative spine disease - What is to be done?

Sakul D, Mulher D, Sutter M, Eggpasser C, Mannion A W, Porch F; Switzerland

Conservative treatment for paravertebral spinal cord compression by metastatic prostate cancer

Kato H, Hoshinomiya T, Tamakoma K, Gokushita A, Goto K, Kondo T, Japan

Timing of surgery and radiation in the management of metastatic spine disease: Expert Opinion

Lee H, Rihner C, Canada

Does early definitive treatment of patients with metastatic spinal cord compression improve neurological outcome and survival?

Raspaudgol A, Blesay S, Greiner U; UK

F-18 FDG PET/CT during the follow-up of patients with complicated hematological vertebral osteolyses.

Kato F, Boucy T, Sariecchi A, Mavole A, Peyramond D, Chobut C, Ferry T; France

Session III: Chairs: Joeger B & Koller H.

Pain from donor site after anterior cervical fusion with bone graft - A prospective randomized study with 12 months of follow up

Seeploprim M, Olenzin C; Sweden

Analysis of a prospectively acquired database of complications in instrumented cervical surgery and associated risk factors.

van den Oever JWG C, van der Weel JFC, Weggijn-Lankamp CJA; The Netherlands

Dysphagia following revision anterior cervical surgery.

Lee S, Kee S, Park M S, Shin W, Rie K, Korea & Japan

TEFEST (Technique For Muscle Preserving Stabilization) - A new strategy for cervical fusion.

Asamyama R, Sisakrei T, Yamane J, Numamori K, Kikumori M, Inuzuka K, Motto H; Japan

A new strategy for treatment of chronic atrophic rotatory rotatory facet fusionmodeling.

Jol S, Housian J, Babie E, Gosep M, Wanono B, Nakamura M, Tomoya Y, Chiwa M; Japan

URB: quality of life in eurpoeusimension and role in cervical spondylotic myelopathy.

Takayasu Y, Takashi K, Osaka A, Wada K, Tomoka T; Japan

Morbidity and mortality after high-dose chemotherapy and autologous bone marrow: A meta-analysis.

Chen S, Saha S, Kostu J, Tomoya Y, Chiwa M, Hamuro M; Japan

Clinical outcome for cervical myelopathy in patients with atlantoaxial malposition: Pro and without halo vest for postoperative external fixation.


Dilution lens imaging for the assessment of cord compression in degenerative cervical stenosis.

Tokoda ZD, Tanaka B, Arakish A, Kanya D, Turkey

Prevalence of cervical compressive myelopathy in the community: Analysis of 351 individuals using subjective symptoms and pain by single physician.

Chen K, Kwishu S, Koyabu T, Nakadate H, Wahlwette M, Karlo K, Komori S; Japan

Clinical trial findings in Klippel-Feil patients.

Sampath D, Koutlan P, Neiman J, Lubicky J, Shen F, Hong K & USA

Long-term surgical outcomes of spinal meningiomas.

Matsunaka N, Iwama T, Tsuji O, Nakamura M, Iwanami A, Tokiyama Y, Chiba K, Hamuro M; Japan

10.00-10.30 Coffee
Mario Boni Presentations
Chairs: Olerud C. & Bancel P.

10.30-10.40  O114
Cervical disc degeneration and its ageing change in 1200 healthy volunteers
Yukawa Y., Kato F., Suda K., Yamagata M., Ueta T., Japan

10.40-10.50  O115
Cervical alignment and pain after laminectomy for cervical compressive myopathy with or without colar fixation: A randomized controlled study
Mida T., Sakai Y., Ko K., Harada A., Japan

10.50-11.00  O116
A long term follow-up study of clinical and radiological outcome of the cervical laminectomy
de Vosser A., Song C., Gwee S., Vleggeert-Lankamp C.L.A.; The Netherlands

11.00-11.10  O117
Natural course and prognostic factors for mild forms of cervical spondylotic myopathy with intermitted signal changes on MRI
Okada Y., Takeda K., Chikuda H.; Japan

11.15-12.00  O118
Mario Boni Posters Presentation
Chairs: Jackewski A. & Lind S.

14.00-14.08  O119
Limited benefit of the conrad coinb angle correction in the setting of adult deformity: A health related quality of life assessment on two year outcomes
Moc B., Schwab F., Blondel B., Dematteo J., Smith J., Blackwell K., Glassman S., Shaffrey C., fancy J.P., Loflage V.; USA

14.08-14.16  O119
2-year outcome on efficitive dysfunction in patients under 50 years of age with fractures-related lumbar spine disease requiring surgical decompression – A prospective study
Saitoji M., Seng C., Shimmamura M., Yoo W., Zhang K., Ching H.C., Peng B., You C.M., Chen J., Beng T.S., Yau W.M.; Singapore

14.16-14.24  O120
Surgical treatment and clinical follow-up for easily loosening of pedicle screws - Focus on osteopenic thoracolumbar spinal fractures treated by posterior instrumentation with anterior reconstruction
Hua C.J., Taiwan

14.24-14.32  O121
Thoracolumbar fracture reduction using percutaneous in situ contouring
Charles P.F., Walter A., Schuler I., Stejo J.P., France

14.32-14.40  O122
Evaluation of frozen autograft inside a cage in total spondyloectomy
Iwasa K., Morikami H., Demura S., Kato S., Tashiro K., Hayashi N., Otsa T., Shirono M., Yokogawa N., Tsukiyoh H.; Japan

14.40-14.48  O123
Percutaneous vertebroplasty for subacute and chronic painful osteoporotic vertebral compression fractures can safely be timed in the first year after onset of symptoms. No loss of efficacy or increased risk of complications
Nauwembikla J., van Brekel A., Dijkstra S.; The Netherlands

14.48-14.56  O124
Short and long-term outcome of decompressive surgery in lumbar spinal stenosis
Snoep J., Schinzel L., Nording P.; The Netherlands

14.56-15.04  O125
Differences in walking patterns between neurological and vascular claudication using a motion analysis method
Tohidabehesht Y., Yagizoglu K., Hayashi H., Murakami H., Tsukiu H.; Japan

15.04-15.12  O126
Subsidence of a lumbar total disc replacement and the role of underline structures

15.12-15.20  O127
Comparison of posterior vertebral column resection using titanium mesh cage versus expandable cage in thoracolumbar angular kyphosis

15.20-15.28  O128
The comprehensive anatomical spinal osteotomy classification

15.30-16.00  O129
Coffee

QuickFire II: Cervical, Scoliosis and Lumbar Chats: Franke J. & Assaker R.

16.00-16.05  O130
Five-years results of cervical disc prostheses in the SWISSpine registry
Aghyoe E., Bantelender C., Siger F., Haddemi M., Demiwek K., Fimert F., Porcher J., Hoopmann O., Ramadan A., Elkin J., Biderer B., Marshalek C.; Switzerland

16.05-16.10  O130
Clinical relevance of postoperative neuroradial stenosis following ACFD
Dolz C., Berrie C., Barth M., Schmide K.; Switzerland
Tuesday Afternoon

**EuroSpine**

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<td>Presented here by the biology of disc degeneration and inflammatory cascade; relationship to present and potential treatments</td>
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**Wednesday Afternoon**

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<td>In-vivo three-dimensional kinematics of the occipitocervical junction in patients with rheumatoid arthritis during head rotation</td>
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<td>Self-image and eating disorders among girls with adolescent idiopathic scoliosis</td>
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<td>The correlation between cortisol and bone histomorphometric analyses on MRI in adolescent idiopathic scoliosis</td>
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<td>Prevention of depressive symptoms decreases after exercise compared with placebo in patients undergoing lumbar spine fusion</td>
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*Please note that the schedule is subject to change.*

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Session V: Trauma
Chair: dos Santos Valério M.
14:00-14.06 O154 Experimental study with GMI ganglioside and hyperbaric oxygenation in spinal cord injury in rats
Marcon R.M., Ciliento A.F., Barros Filho E.P., Oliveira R.P., Santos G.B. Brazil
14:06-14.12 O155 Retrospective study of cranial traction and the choice of surgical approach in subdural haematomas
14:12-14:18 O156 A comparative study of posterior fixation in acute unstable thoracolumbar injuries by bone cement and polyaxial pedicle screws
Shrivastava R.N., Singh P., Raj S., India
14:18-14.24 O157 Influence on bone callus formation in motor recovery of rats subjected to spinal cord trauma and human stem cell transplanation
14:24-14.30 O158 Motor segmental recovery in spinal cord injury – A blessing in disguise
Shrivastava R.N., Rij S., India
14:30-14.36 O159 Discussion

Session VI: Minimal Invasive surgery & tumor Chak: Choi P.S.
14:40-14.48 O159 Outcomes in minimally disruptive lateral interbody fusion: 24 month minimum follow-up in 268 patients
14:48-14.54 O160 Minimally Invasive Lumbar Interbody Fusion (Mi-IPF) using a TCFP-MIA bone graft substitute (NOMOSGraft): Fusion rates out to 5 years
14:54-15.00 O161 Adult degenerative scoliosis treated by XUP: Clinical results of a 24-month multi-center prospective study
Phillips F.M., Tomarchen, A., Rodrigues W.B., USA
15:00-15.06 O162 Impact of sinks in stability analysis decision of spinal metastasis
Riso M., Pratili R., Coop, P., Pasquale V.W., Vigozzi L., Zulian G., Zalas, M., Lahocinski A., Lundem E., USA
15:06-15.12 O163 “En bloc” vertebrectomy of thoracic spine tumors by exclusive posterior access: Four cases report
Nakazaki O.K., Togashi W.J., Terao K., Loufiscot L., Nishino B., Souza E., Ciliento A.F., Barros Filho E.P., Brazil
15:12-15.18 O164 Single stage circumferential ortho bone for traumatic and tumors lesions for lumbar and thoracic spine
Corvalho F., Anjos A., Simeo M., Oliveira J., De Pinho A., Brazil
15:18-15.28 Discussion

Welcome
16:00-16.05 Room E102
16:05-16.11 O165 10 year follow-up of AcroX lumbar disc replacement
Frazier D.D., Freeman B.J.C., Hail A.R., Fowler S., Australia
16:11-16.17 O166 Successes and disasters after 9-year clinical experience with three different nucleus replacement devices
Marchi L., Oliveira L., Castro C.A., Coutinho T., Coutinho E., Marentes L., Brazil
16:17-16.23 O167 Biomechanical aspects of pedicle screw loosening in the lumbar spine
Boerestel J., Choppuk P., Choppuk J. USA
16:23-16.29 O168 Treatment options for two-level symptomatic scoliosis degeneration: Comparison of total disc replacement, fusion, and hybrid
Duffy M.F., Guyer R.D., Siger J.E., Bumthaler S.L., Stiglo S., Ohnmeiss D.E., USA
16:29-16.35 O169 Five year follow up of dynamis screw stabilization for discogenic back pain in 113 patients
Liu S., Mulher M., Loehr A., Shappell J., UK
16:35-16.45 Discussion

Session VII: Verbal Rehabilitation and Augmentation
RF kyphoplasty procedure using a novel radiofrequency vertebraloplasty in patients affected by Kummel disease
Marchi L., Italy
16:45-16.51 O170 Meta-analysis of vertebraloplasty compared to conventional treatment
Anderson P.A., Froystheller A.B., Tonzi W., USA
16:51-16.57 O171 Osteoporotic thoracolumbar vertebral fractures. Long term comparison between conservative treatment and percutaneous vertebroplasty
Matthias K., Clini A., Giamoni S., Vormoor F., Loffl, F., Di Sclavo M., Toscano A., Greggi T., Italy
17:03-17.09 O172 Osteoporotic thoracolumbar vertebral fractures. Long term comparison between conservative treatment and percutaneous vertebroplasty
Matthias K., Clini A., Giamoni S., Vormoor F., Loffl, F., Di Sclavo M., Toscano A., Greggi T., Italy
17:09-17.15 O174 Drug resistance patterns in 111 cases of drug resistant tuberculosis spine
Hane A., Mohlin C., Pavier U., India
17:15-17.30 Discussion
Quickfire III: Scoliosis, Lumbar and Bone Augmentation
Chakraverty M., Alarney A.
08.00-08.05 0175 Multimodal intraoperative neurophysiological monitoring in young children Samyukta S., Dhiraj-Liran M., Baruteau G., Grueninger B., Baykalar K., Koylu A., Alkhuri M., Bayoumi M., Turkey
08.00-08.10 0176 Effects of the growing rod on the disc and facet joints of the unused intermediate segments Demirhan G., Fligor C., Aydin M., Kosemehmetoglu K., Diagloglu K., Yalici M., Turkey
08.05-08.10 0177 Predictability of spontaneous thoracic curve correction after anterior fusion and anterior fusion in adolescent idiopathic scoliosis: A retrospective study on a consecutive series of 29 patients with a minimum follow-up of 2 years Huveline G., Jansema R., van Ooij A., Pun ten Rijn B., The Netherlands
08.10-08.15 0178 Early revision for imbalance correction in adolescent idiopathic scoliosis surgery Yalici C., Basarci C., Besikci G., Turan G., Turkey
08.15-08.20 0179 Physical self-perception and body mass index as influential factors in the result of the surgical treatment for idiopathic scoliosis patients Sánchez-Soler J.F., Ramírez-Velasco M., Martínez-López J.M., Laddi-Blanch A., Baggio-Gimelli J., Pola-Verdic L., Spain
08.20-08.25 0180 A correlation of health related quality of life (HRQOL) measures and postoperative radiographic sagittal profile ad in scoliosis - Value of spinopelvic angle (SSA) and spinal lift (SL) Gomeza R., Muñoz-Garcia A., Sánchez-Matías F., Alavarez-Gonzalez P., Zúñiga-Gomez L., Pomales J., Sara-Bottini E., Suárez-I. Spain
08.30-08.35 0181 Osteoplastic spinal deformity in regard to the quality of daily life Miyake R., Kasa S., Iriu A., Japan
08.35-08.40 0182 The relationship between the clinical symptoms and radiographic findings of osteopathic vertebral pseudarthrosis Suzuki N., Fujimoto Y., Takata Y., Yamaoka K., Nakajima T., Shimizu K., Takazawa A., Japan
08.40-08.45 0183 Significance of turbaro-Resident Acid Phosphate (TRAP-50) level measured in patients with spinal osteotomy Miyake R., Kasa S., Iriu A., Japan
08.45-08.50 0184 Cement volume is the most important modifiable predictor for pain relief in BKP: Results from SWISSpine, a nationwide registry Rücker C., Bosbach B., SWISSpine Registry Group, Germany
08.50-08.55 0185 Bipedality as a major factor in accelerated intervertebral disc degeneration in falcis Yalcin N., Dede O., Akel I., Demirkiran G., Marcucio R., Dendukuri P., Canada
08.55-09.00 0186 Looking at global and segmental lordotic realignment in 114 patients with idiopathic scoliosis: posterior-anterior - posterior procedure Kolarov A., Piftanov D., Gilmore J., Holme H., Germany
09.00-09.05 0187 Comparative cost-effectiveness analysis of coffee interlaminar stenosis versus posteroanterior fusion for lumbar stenosis and low-grade spondylolisthesis Auwach P., Zigner J., Davis A., Park R., Khine K., AUSA
09.05-09.10 0188 OP-1 compared to Iliac crest autograft in instrumented posterolateral fusion: A randomised multi-center non- inferiority trial Delcor D., Jacobs W., Van Susante J.C., Lidgren L., Peuskamp D., Specchiulli H., Eby E., Verschuur M., Garcia-Femandez C., Quinnes of Ufford H.M.E., Kool M.C., Hought W.R.A., O'Her F.C., Guzzi R., The Netherlands
09.09-09.10 0189 Debate: Surgical management of early cervical myelopathy: the "yes" and "yes" too! Moderator: Palofsog L. Debates: Meyer B. and Jeanmet B.
09.10-09.30 0190 Coffee
Session V: Scoliosis
Chair: Mineiro J. & Sell P.
09.30-10.38 0189 Efficacy of a school-based early prevention program on spinal functional capacity Jayson A., Baja S., Dikgosi A., Somahedi A., Varghese P., Hungary
10.00-10.54 0191 Scoliosis in the 22q11 deletion syndrome Codd D., Vanweedi C., Kool M., Clasen K., The Netherlands
11.02-11.10 0113 Familial history of idiopathic scoliosis unrelated to age of diagnosis and prognosis Growiec A., Danielson A., Kattamis M., Gedeham P., Sweden
11.10-11.18 0114 Analysis of the closure pattern of the neurological junction as related to pre-resection level in the normal immature spine Schütz A., Wirth K., Altstatt H., Verhage M., Jansma M., Costedoat R., The Netherlands
11.18-11.26 0115 Sagittal spine profile and spinal balance in parents of scoliosis children, as compared to normals, and correlation Janssen M., Vinkovic K., Van Rodt B., Vitosile K., Kemp B., Verhage M., Baehls L., Costedoat R., The Netherlands
11.26-11.34 0116 Does growing rod cause degeneration and secondary deformity in the adjacent segment? Fligor C., Witter C., Demirhan G., Kosemehmetoglu K., Yaslici M., Turkey
11.34-11.42 0117 Night-time preload bracing compared to full time bracing in adolescent idiopathic scoliosis. A prospective randomised study Westberg P., Sweden
11.42-11.50 0118 Verbal rotation correction and posterior fusion for thoracic idiopathic scoliosis: Direct correction versus simple concave rod procedure D’Silva M., Bobak M., Loff L., Greig T., Bakoulev G., Vommaro F., Mared J., Egypt
11.50-11.58 0119 Decompenation after posterior selective thoracic fusion in Lenke type B & C lumbar modifier adolescent idiopathic curves D’Silva M., Bakoulev G., Loff L., Marid J., Turkey
11.58-12.06 0120 The survival of intrathecal baclofen in neuromuscular scoliosis patients Hammel T., Boreham S., Mehdian M., UK
Wednesday Morning
Wednesday Morning
Session III: Disc Degeneration
Chairs: An H. & Lof J.
08.00-08.05 0203 Does provocative discography cause clinically important injury to the lumbar intervertebral disc? A ten-year matched cohort study
Correia E., Couto J., Hernandez P., Carcino J., Muniz E., USA
08.07-08.12 0204 Is adjacent segment degeneration (ASD) associated with preexisting disc degeneration? Jang C.N., Chung N.J., Park D.Y., Hyun H.S., Kim J.K., Republic of Korea
08.14-08.19 0205 Adjacent segment degeneration and sagittal spinal alignment in a mean 16-year follow-up of lumbar spinal fusion Kobayashi T., Aono K., Jimbo S., Senoo I., Atsuta Y., Japan
08.21-08.30 Discussion
08.30-08.35 0206 Spine curvature is heritable and associated with disc degeneration. Williams F.M.A., Osoi-Boredon D.C., Popham M., MacGregor A.J., UK
08.37-08.42 0207 Ligation of lumbar arteries induces extracellular matrix changes in intervertebral discs as shown by MRI T2-mapping and histology
Horvath I., Aldeas A., Quiblio J., Loko A., Japan
08.44-08.49 0208 Disc degeneration in lumbar spine precedes osteoarthritic changes in the hip. A postmortem study of 180 human specimens
Björk N.S., Young E.F., Ahn N.U., USA
08.51-09.00 Discussion

Session IV: Low Back Pain
Chairs: Bhatle M. & Inukuchi S.
09.00-09.05 0209 Is overweight associated with low back pain in adulthood? Makonen P., Jalkanen J., Remes J., Ylimets T., Taimela S., Zhih P., Koponen K., Koppinen J., Finland
09.07-09.12 0210 Refills influence patients’ care-seeking behaviour for low back pain
Hammen A.P., Tomcun D., Ehring C., Habisperger B., Mueller U., Eifering A., Switzerland
09.14-09.19 0211 Considerable long term reduction of pain and healthcare use in patients with chronic low back pain after a short intensive pain management program
09.21-09.30 Discussion
09.30-09.35 0212 Subgrouping patients with chronic low back pain
Van Hoof M.L., De Klever M., Van Lonkheir W., Van Limbeek J., The Netherlands
09.37-09.42 0213 The effect of required physicalist consultation on surgery rates for back pain
Fox J., Nolan A.J., Toddy B., Cholli S., Arbot A., USA
09.44-09.49 0214 Total disc replacement for chronic low-back pain: A Cochrane review
09.49-10.00 Discussion
10.00-10.30 Coffee
10.30-11.00 Invited Lecture 2 – Introduced by D. Wang
Update on Classifications for Spinal Stenosis Schiøtz C., UK
Session V: Lumbar Spinal Stenosis
Chairs: Liu K & Y. T.
11.00-11.05
0215
Who should have surgery for spinal stenosis? Treatment effect predictors in SPINEWEEK 2012.

11.07-11.12
0216
Poor surgical outcomes of lumbar spinal stenosis with depression – A cohort study

11.14-11.19
0217
SPINEWEEK predictors of treatment effect in degenerative spondylolisthesis

11.21-11.30
Discussion

11.30-11.35
0218

11.37-11.42
0219
Therapeutic efficacy of pregabalin for patients with leg symptoms due to lumbar spinal stenosis

11.44-11.49
0220
Magnitude of dural tube compression does not show a predictive value for symptomatic lumbar spinal stenosis for one year follow-up: A prospective cohort study
Ohtani K., Kikutani S., Fukuoka H., Kaga T, Konno S., Japan.

11.51-12.00
Discussion

Session VI: Ageing Spine (I)
Chairs: Rydevik B. & Hu S.
12.00-12.05
0221
A randomized trial of bilateral kyphoscoliosis and non-surgical management for treating acute cervical compression fractures: Verbal body kyphosis correction and surgical parameters
Yun Wonhaege, J., Boksin L., Bosman S., Ranstam J., Timmers J.E., Wanders, Belgium, Germany, Switzerland.

12.07-12.12
0222
Cost effective analysis of treatments for vertebral compression fractures in Japan
Kaga T., Konno S.; Japan.

12.14-12.19
0223
Pathogenic factors affecting back pain and delayed neurologic paraplasia in patients with osteoporotic vertebral collapse

12.21-12.30
Discussion

Session VI: Ageing Spine (II)
Chairs: Rydevik B. & Hu S.
12.40-12.45
0224
Impact of initial treatment interventions on the patient outcome in osteoporosis vertebral fracture

12.47-12.52
0225
Pathomechanism of intervertebral clefts in vertebral compression fractures of the spine

12.54-12.59
0226
Acute procolonar functional failure following long posterior fusion for spinal deformity: Risk factors and radiographic analysis comparing transforaminal to upper thoracic failures

13.13-13.18
Discussion

Session VII: Biomechanics
Chairs: Oxland T. & Hodges P.
13.30-13.35
0227
Lumbar disc height distributions during torsion
Inoue N., Mammone N.M., Espinosa-Olas A.A.A., An H.S., Anderson G.B.J., USA.

13.37-13.42
0228
Mild degeneration decreases viscoelastic modality of the nucleus pulposus in a large animal model

13.44-13.49
0229
Flexibility testing of lumbar spine functional spinal units using a robot/UPS testing system
Bell E.M., Yang Y., Hartman E.A., Kang J.D.; USA.

13.49-13.58
Discussion

Session VIII: Radiology – MRI
Chairs: Diwan A. & Ashevar J.
16.00-16.05
0234
A large-scale population-based study of modic changes of the lumbar spine

16.07-16.12
0235
Modic changes (endplate) in the lumbar spine: Bone microarchitecture and remodeling

16.14-16.19
0236
Lumbar modic changes – in low- and high-field MRI

16.21-16.30
Discussion
16.30-16.35  O237  3-D mesostructural imaging of the annulus fibrosus using optical coherence tomography
Han S.K., Chen C.W., Wierwille J., Chen Y., Hsieh A.H.; USA

16.37-16.42  O238  Chemical exchange saturation transfer (CEST) and 12 mapping in subjects with intervertebral disc degeneration
Kim M., Chan G., Anthony M.P., JD, Samaras G., Cheung K.M.C., Chong P.L.; Hong Kong

16.44-16.49  O239  Gadolinium-enhanced MRI of the lumbar spine has no additive value over non-enhanced MRI in the evaluation of patients with sciatica

16.51-16.56  O240  Additional value of Magnetic Resonance imaging beyond clinical assessment in the evaluation of patients who do not recover from sciatica

16.38-17.10  Discussion

17.10-17.00  Final Business Meeting

Wednesday Afternoon
ISSLS
Auditorium
Forum
SRS
14.00-14.05
Welcome to Amsterdam
de Kleuver M.; The Netherlands
14.05-14.20
About SRS
Richard S.; USA

Session I: Adult Deformity
14.20-14.40
Instructional Course Lecture
Sagittal profile in adult deformity
Shaffrey C.; USA

14.40-14.50
Case: 50 degree curve in a 40 YO female with disc wedging L4-5 and degeneration L4-5
Glassman S.; USA
14.50-15.00
Fuse to L4/S
Glassman S.; USA
15.00-15.10
Fuse to sacrum/pelvis
Buchowski.; USA
15.10-15.40
Discussion and Conclusion
15.45-16.15
Coffee

16.15-16.25
Case: 20 degree lumbar curve with radiculopathy in a 55 YO
de Kleuver M.; The Netherlands
16.25-16.35
Decompress only
Shaffrey C.; USA
16.35-16.45
Decompress and fuse short
Cheung K.; Hong Kong

16.45-16.55
Decompress and fuse long
Halm H.; Germany
16.55-17.15
Discussion and Conclusion
17.15-17.30
How do I do it: Thoracolumbar osteotomy
Alaraj A.; Turkey
17.30-17.50
Instructional Course Lecture: The future: Innovations or hype in degenerative deformity surgery - A critical review
Glassman S.; USA
Thursday Morning
10.00-10.15 Coffee
10.15-11.00 Hans Pfeifer Presidential Lecture

11.00-11.20 Discussion and Conclusion
11.15-11.25 Flaccid spine debate: Fuse to pelvic or not?

11.45-12.00 Discussion and Conclusion
11.55-12.15 Fuse to pelvic

12.00-12.15 Do not fuse to pelvic

12.15-12.30 Richard S.; USA

Coffee

Thursday Day
10.00-10.40 Reception

3VXO,DOO:UHVXUHGHORFHUHGLQJ

10.45-11.00 Coffee

11.05-11.20 Richard S.; USA

11.15-11.25 Scoliosis

11.25-11.40 Antonietti M.; Italy

11.40-11.55 Kelemen T.; Germany

11.55-12.10 Sturm C.; Germany

12.10-12.25 Prof. Roger E. J. Pintar, Chair, University of Strathclyde

12.25-12.40 Prof. John W. Paranavitana, University of Toronto

12.40-12.55 Prof. Michael W. Schmitt, University of California

12.55-13.10 Prof. Brian K. Bulsara, University of Virginia

13.10-13.25 Prof. A. Robert Kandel, University of California

13.25-13.40 Prof. Paul C. Robbins, University of Pennsylvania

13.40-13.55 Prof. Niko Velarran, University of California

13.55-14.10 Prof. Halil Baysal, University of California

14.10-14.25 Prof. Ivan S. Buldarin, University of California

14.25-14.40 Prof. J. Anthony Giannoudis, University of Manchester

14.40-14.55 Prof. Andras Palkovits, University of California

14.55-15.10 Prof. Valerio Trincas, University of California

15.10-15.25 Prof. Andras Palkovits, University of California

15.25-15.40 Prof. A. Robert Kandel, University of California

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17.55-18.10 Prof. Andras Palkovits, University of California

18.10-18.25 Prof. J. Anthony Giannoudis, University of Manchester

18.25-18.40 Prof. Ivan S. Buldarin, University of California

18.40-18.55 Prof. Valerio Trincas, University of California

18.55-19.10 Prof. Andras Palkovits, University of California

19.10-19.25 Prof. A. Robert Kandel, University of California

19.25-19.40 Prof. Paul C. Robbins, University of Pennsylvania

19.40-19.55 Prof. Brian K. Bulsara, University of Virginia

19.55-20.10 Prof. Brian K. Bulsara, University of Virginia

20.10-20.25 Prof. Roger E. J. Pintar, Chair, University of Strathclyde

20.25-20.40 Prof. Michael W. Schmitt, University of California

20.40-20.55 Prof. John W. Paranavitana, University of Toronto

20.55-21.10 Prof. Paul C. Robbins, University of Pennsylvania

21.10-21.25 Prof. A. Robert Kandel, University of California

21.25-21.40 Prof. Andras Palkovits, University of California

21.40-21.55 Prof. Andras Palkovits, University of California

21.55-22.10 Prof. A. Robert Kandel, University of California

22.10-22.25 Prof. Paul C. Robbins, University of Pennsylvania

22.25-22.40 Prof. Brian K. Bulsara, University of Virginia

22.40-22.55 Prof. Brian K. Bulsara, University of Virginia

22.55-23.10 Prof. Roger E. J. Pintar, Chair, University of Strathclyde
Session I: Deformity I
Presider & Moderator: Iquiqueño E. & Legaria E.
Local bone graft for surgical correction in adolescent idiopathic scoliosis
Álvarez González P., Zúñiga Gómez L., Sánchez Mariscal F., P. Pizones J., Izquierdo Núñez E.; Spain
08.00-8.10.

Congenital kyphosis due to hemivertebra: anterior only correction with laminectomy system, long-term follow-up analysis of four patients
Calniquer Cayani A., Benítez J., Kees S.; Argentina
08.15-8.20.

Changes in the cervical sagittal alignment after posterior transpedicular instrumentation in AIS Lenke type I
08.25-8.30.

Late onset idiopathic scoliosis: analysis and developmental dislocation/displacement of the hip
Montoro P., Lescanos E., Martínez Ávila E., Piñeiro C., Condoreco Vizcaya J., Gómez J., Argentina
08.35-8.40.

Cervical and sagittal balance are the determining factors in the surgical treatment in adolescent idiopathic scoliosis
Weisman K.; Chile
08.45-8.45.

Discussion

Session II: Lumbar Scoliosis
Presider & Moderator: Ochoa G. & Bermudes W.
09.00-9.15.

Lumbo pelvic fixation with screws
Rilp T., Requena M., Mosqueda D., Regazzi P., Brizzio M., Canales D., Espinoz R., Melo M., Cartesqui Caroya A., Bermúdez J., Kees L., Argentina
09.10-9.20.

Sacroplasty instrumentation with and without posterior brace
Anadel H.; Spain
09.20-9.30.

Prognostic factors of the treatment with spinal methylprednisolone (DMP) in patients with primary symptomatic lumbar disc herniation
Pamplona J., Barahona M., Ballesta V., Zamarova J., Silva G.; Chile
09.35-9.40.

Surgical treatment of thoraco-lumbar kyphosis in kyphoscoliotic syndrome by posterior instrumentation and fusion
Hoffmann C.; Spain
09.45-9.50.

Analysis of the behavior of the lumbar segment unfused in idopathic scoliosis in adolescent curves Lenke I
09.50-9.55.

Correction of severe scoliosis (>90°) by vertebral column alignment and Smith-Peterson osteotomies through a single isolated posterior approach
Domingo J., Sanfeliu M., Álvarez González P., Zúñiga G., Maldonado D., Regazzoni P.; Spain
10.00-10.05.

Discussion

Session III: Deformity II
Presider & Moderator: Tello C.A. & Dockendorff I.
10.00-10.15.

Long-term clinical and radiological outcomes and level of satisfaction in neuromuscular scoliosis surgery with hybrid posterior instrumentation
Álvarez González P., Sánchez Hernández P., Zúñiga Gómez L., Pizones J., Iquiqueño Nélida E.; Spain
10.10-10.15.

Relationship between pelvic obliquity and shoulder balance in patients undergoing scoliosis surgery
Sanfeliu M.; Spain
10.20-10.25.

Scoliosis planar imaging in magnetic resonance that simulate spondylodiscitis
Matus C., Galilea E., Baca C., San Martín A.; Chile
10.30-10.35.

Surgical correction of scoliosis (>90°) by vertebral column realignment and Smith-Peterson osteotomies through a single isolated posterior approach
Dockendorff I.; Chile
10.40-10.45.

Spinal deformity: An alternative for spinal fractures
Acrost M., Domínguez C., Colombia
10.50-10.55.

Sympathetic spinal infections: Clinical manifestations, microbiology and prognosis
Paredes C., Ferrando J., Cuspinosa M., Zamaroa T., Cuspinosa V.; Chile
10.55-11.10.

Discussion
Session VII: Lumbar Spine
14.00-14.05 O311
Presider & Moderator: Döftner M. & Jaime Myarano J.
Symptomatic intralumbar facet synovial cyst - Outcome of surgical treatment with resection and instrumented posterolateral fusion
Benedito V., Afonso G., Chile
The intersegmental device in the treatment of low back pain by degenerative cause
Bermudez V., Perelny L., Uruguay
Fusion roles of lumbar circumferential arthrodesis using fresh-donor local allograft as interbody graft
Uchida J., Mido M., Chile
Indications and contraindications of a novel intersegmental dynamic system for lumbar degenerative disc disease
Pumplungen M., Leidl D., Girlanda F., USA
Pedicle screw placement in spinal deformity using anatomical landmarks without image guidance
Böhmert B., Mehrabi H., UK
Clinical-radiological evaluations of epidural sacral bridge
Bazan P., Argentina
Welcome to EuroSpine 2013 Liverpool
Tim Pigott, Local Host

Session VIII: Deformity III
14.45-15.45 O317
Presider & Moderator: Mardini H. & Mounes L.E.
Correlation of idiopathic scoliosis by vertebral coplanar alignment though a less invasive intravertebral approach. A new technical refinement of scoliosis surgery
Mardini H., Burgos J., Neves E., Bants C., Domenecch P., Gómez L., Chile
Distal level of fusion for structural lumbar curve in adolescent idiopathic scoliosis
Mardini H.; Spain
Complications in patients diagnosed with thoracic idiopathic scoliosis and non-fusion procedures: a comparison between isthmic wedging and rib fusion, treated by expansion thoracoplasty associated with non-structural distractors system (VPEP) Galietto E., Tello C., Banuera E., Noel M., Franckel A., Coolen A., Argentina
Long term survival after long primary fusion for adult scoliosis more than 40°. Predictive factors for re-operation

Discussion
Coffee
Session IX: Lumbar Spine III
Preider & Moderator: Galilea F. & Villas C.
16.00-16.05 0323
Adult idiopathic lumbar spinal spondylolisthesis - Mid-term results of decompression and in situ fusion
Monzaore P., Wierkic C., Martíno Avada E., Gemetre J.; Argentina
16.00-16.10 0324
Spinal stenosis in adults - Selection criteria
Richi T., Kashi G., Zucconi R., Sant M.; Argentina
16.10-16.15 0325
Comparative analysis in patients with pure degenerative lumbar stenosis (DSIS) and degenerative lumbar stenosis secondary to spondylolisthesis (DSSL), surgically treated between 2008-2011 at Metropolitan Hospital, Quito-Ecuador
Mayano J., Alffy E., Biboao M., De la Toma S.; Ecuador
16.15-16.20 0326
Comparative clinical outcomes between lumbar arthrodesis and arthrodesis plus interspinous device in adults
Riccóndi D.G., Cantillo G.O., Garif kinky L., Rosales Lobaton P.; Argentina
16.20-16.25 0327
Survivorship analysis of adjacent segment disease in lumbar arthrodesis
Cucugre E., Sambome H.; Argentina
16.25-16.30 0328
Lumbar fusion postoperative assessment: Disability, anxiety, depression and patient satisfaction
Oleiro J.K., Medrano J.R., Pinedo A., Baztle C.; Venezuela
16.30-16.45 Discussion

Session X: Malignant & Lumbar Spine
Preider & Moderator: Wajchenben M. & Richard D.
16.45-16.50 0329
Magnetic resonance imaging of paravertebral muscles in degenerative lumbar spine - Clinical implications
Romano O.; Argentina
16.50-16.55 0330
Evolv intervertebral osteochondrosis analysis of clinical cases
San Martín A., Arriagada G.; Chile
17.00-17.05 0331
Minimally invasive approach to spinal metastases - A Chilean experience
Villa A., Ramirez F., Thibaut C., Valenzuela M., Menelbo B., Weissmann W.; Chile
17.15-17.20 0332
Multilevel vertebroplasty - Where is the limit?
Almillo M., Villa C., come de Espinola J.; Spain
Discussion
Closing comments
0336-09.41 0336
A randomized, double-blind, placebo-controlled trial of etoricoxib delivered by the transforaminal epidural route for the treatment of symptomatic lumbar disc herniation
Freeman B.J.C., Ludbrook G., Hall S., Cousins M., Mitchell B., Jaros M.J., Wyand M., Gorman J.; Australia & USA
0338-09.43 Discussion
0339-09.48 Do LS and SI nerve root compression produce radicular pain in a dermalomatous pattern?
Taylor C.S., Coxon A., Walsh P.; Eacough C.G.; UK
0341-10.00 Coffee

Session XI: Disc Herniation
Chair: van Royen B. & Robertson P.
09.15-09.20 0333
Recovery of motor deficit accompanying sciatica – Subgroup analysis of a randomized controlled trial
09.20-09.27 0334
Long-term clinical and radiological outcomes and their correlation after discotomy for lumbar herniation
Son I.N., Chang D.G., Kim Y.H., Ha K.Y.; Korea
09.29-09.34 0335
Effect of wait-list time on pain improvement after elective surgical lumbar discectomy
Quién J.A., Solórzano B., Levy A.R., Peralta C.G., Bishop P.B., Najera D., Donayre De Hachter M.; Canada
09.36-09.41 Discussion
09.43-09.48 Do LS and SI nerve root compression produce radicular pain in a dermalomatous pattern?
Taylor C.S., Coxon A., Walsh P.; Eacough C.G.; UK
10.00-10.30 Coffee

Session XII: Spinal Fusion - Use of BMP
Chair: Gupta R. & Bolgati F.
10.30-10.35 0336
In an animal model of posterolateral arthrodesis BMP-2 Higgins postoperative abdority and local O/S inflammation
Kong D., Dharmie A.E., Sykova L., Graeme R., Craig A., Lehmam J.R.A., Sykes A.J.; USA
10.37-10.42 0337 Quantitative assessment of segrhage apiculation using semen analysis, comparison to a standardised qualitative questionnaire, and investigating the impact of HMFP-2
Tepper G., Rabban R., Yousefzadeh M., Prince D.; USA
10.44-10.49 Clinical complications following HMFP-2 use in a minimally invasive transforaminal lumbar interbody fusion
Edis D.; Australia
10.51-10.56 Effectiveness and safety of recombinant human bone morphogenetic protein 2 versus local bone graft in primary lumbar interbody fusion
Adami C.L., Robertson J.K., Broadhurst S., Ogden K., Edie D.; Australia
10.58-11.10 Discussion
11.10-11.40 Invited Lecture 3 - Introduced by Chiba K.
Relationship between industry and research: What are their responsibilities?
Coraggio E.; USA

Thursday afternoon
SILACO
Room E102
Forum
ISSLS
Friday morning

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Session XIII: Epidemiology / Health Research Rehabilitation
Chair: M. Nordin & J. Koppinen
11.40-11.47 O342
Inconsistencies between abstracts and manuscripts in published papers about lumbar spine surgery
Lokken A., Baeumner K.M., Simpson A.K., Carter C.S., Bono C.M., USA
11.49-11.54 O343
Diestelberg G.G., Nielsen C.V., Börger C.E., Sogaard R., Høngsaas S., Helting P., Christiansen F.B., Denmark
11.56-12.01 O344
Preurgical psychological screening: A new algorithm, including the MMP-2-RF for predicting spine surgery outcomes
Block A.R., Gjimme D.D., Guyer R.D., Atasoy A., Ban-Porsh B., Burchett D., USA
12.01-12.10 Discussion
12.10-12.15 O345
Do we agree on level of evidence (LOE), and does author designated LOE influence acceptance of abstract for podium presentation?
Sergentiuk D.K., Sandberg J.O., Barlow D.C., Knight R.G., Bowyer A., Australia
12.17-12.22 O346
Association of complementary and alternative medicine use and health care expenditures for spine problems
Martin B.J., Gerloch M.M., Dayo R.A., Sherman K.J., Cheklin D.C., Gaertel C., Lafferty W., USA
12.24-12.29 O347
Trends in utilization and expenditures for spine-related problems in the United States
Martin B.J., Dayo R.A., Lurie J.D., Meta S.K., USA
12.31-12.40 Discussion
12.40-13.00 Second Business Meeting

Session III: Cervical Spine

08.00-08.06 O348
Latest lumbar canal stenosis in patients with cervical compressive myelopathy: Influence on the recovery process following cervical surgery
Tsuchimotono T., Yuda M., Aoyagi T., Takahashi T., Miki Y., Kikuchi H., Japan
08.06-08.12 O349
Compensation of clinical and radiological outcomes of three surgical techniques in Schenehuitem’s kyphosis
Voumier B., Rangamarthy A., Mahendar H., UK
08.12-08.18 O350
Nuck rate based surgical intervention in CSM affects improvement in symptoms
Kim H.J., Pumberger M., Roselle D., Hughes A.P., Sama A.A., Taher F., Cammisa F.P., Girardi F.P., USA & Germany
08.18-08.24 O351
Symptom duration in correlation to surgical outcomes in patients with cervical spondylotic myelopathy
Pumberger M., Kim J.H., Roselle D., Hughes A.P., Sama A.A., Taher F., Cammisa F.P., Girardi F.P., USA & Germany
08.24-08.30 O352
Myelomalacia is poorly correlated to severity of disease in cervical spondylotic myelopathy
Pumberger M., Leib D.R., Hughes A.P., Sama A.A., Taher F., Cammisa F.P., Girardi F.P., USA & Germany
08.30-08.36 O353
Analysis of risk factors adjacent segment degeneration occurred more than 5 year follow-up after fusion with pedicle screw fixation for degenerative lumbar spine
John J.W., Lee J.C., Shin J.B., Korea
08.36-08.42 O354
Factor analysis of the North American Spine Society outcome assessment instrument: A study based on a spine registry of patients treated with lumbar and cervical disc arthroplasty
Aghaei Y., Ellering A., Mannion A.F., Switzerland
08.42-08.48 O355
Discussion

Session IV: Biologics and Science

Are intradiscal anomalies in early onlal idopathic scoliosis as common as thought? A two centre United Kingdom study
Koc I., Loh K.J., UK
09.03-09.09 O356
Complications following use of BMP-2 in anterior lumbar interbody fusion
09.09-09.15 O357
The effect of BMP-2 in one-level PUF
Michelsen J.S., Eging A., Belgium
10.15-10.21 O358
Recombinant human bone morphogenetic protein-2 (hBMP-2) in post-laminar spinal fusion: What’s the correct dose?
Hoffmann M.F., Jones C.B., Settema D.L., USA
10.21-10.27 O359
A prospective randomised clinical trial of postlaminar lumbar spinal fusion with BMP-2 and Vertodisc pedicle screw instrumentation versus BMP-2 alone
Alexander D., Ozer S., Sotiroforou A., Dondelinger D.; Canada
10.27-09.33 O360
Incomplete recovery of the lumbar intervertebral discs after 40 and 210 discoid back rat
Bekkely D.J., Ambrichter G., Barmann P.M., Bohrner G., Pings Meuffich F., Peter M., Rihminger J., Zange J., Feilberg D.; Germany
10.33-09.39 O361
Neurophysiologic changes during surgical correction of spinal deformities indicating mechanical neural compromise – A review of 307 monitored surgeries
Burgis J., Ramos R., Banno C., de Bois G., Montes E., Navia A., Arins M.; Spain

Friday Morning
09.39-09.45  O342  Contralateral motor deficits following lateral lumbar interbody fusion  Hughes A.P., Lai D.Q.R., Taher F., Cammisa F.P., Pumbieringer M., Huang R.C., Sama A.A., Fanfani G., Abjornson C., Girardi F.P., USA & Germany

Discussion

10.00-10.30  Coffee

Session V: Disc Herniation, Deformity and Surgery

10.30-10.36  O343  Prediction of patient-level functional change for surgical versus non-operative care in the spine disc herniation cohort  Spratt K.F., USA

10.36-10.42  O344  What is the site of failure in disc herniation? A prospective multimodal study  Rajasekaran S., Bajaj N., Sheftry A.P., India

10.42-10.48  O345  Recurrence of leg pain in patients who underwent lumbar discectomy and decompression  Athala Parampalli J., India

10.48-10.54  O346  Is there a relationship between spinal cord abnormalities and radiological coronal imbalance in idiopathic scoliosis? A retrospective analysis of 359 patients using MRI  Bashir W., O’Donnell P., Saffadjid A.; UK

10.54-11.00  O347  The natural history of Scheuermann’s kyphosis - A comparative study after 27-year mean follow-up  Rishawan L., Kitturu J.A., Heikkilä M., Kujala O.M., Heinonen A.O., Schnera D., Finland

11.00-11.06  O348  The role of low cost Indian implants in our practice - Our experience with 1572 pedicle screws  Herae A., Rawal S., Poddar U., India

11.06-11.12  O349  Biomechanical evaluation of collar positioning on the effectiveness of immobilization  Conrad B.P., Honokiyu M.B., Dal Ros G., Reichnine G.R., USA

11.12-11.27  Discussion

Session VI: Cervical Spine Surgery / Trauma and Spine Complications

11.27-11.33  O370  Predicting factors for the spinal cord postural shifting after cervical laminoplasty  Kudo H., Takeuchi K., Ohta K., Hamasaki Y., Ono A., Yokoya A., Satoh T., Toh S.; Japan


11.39-11.45  O372  Investigation into the characteristic of cervical spine trauma in elderly patients - Comparison between non-elderly patients and very elderly patients  Yoshimatsu H., Yamada K., Mitsukawa M., Satoh K., Yoshida K., Yamashita H., Nagata K.; Japan


11.51-11.57  O374  Problems in diagnosing cervical spine injury, spinal cord injury, or both and related measures: A study of 10911 cases of cervical spine trauma  Yoshimatsu H., Yoshida K., Yamashita H., Yamada K., Mitsukawa M., Satoh K., Nagata K.; Japan

11.57-12.03  O375  Adverse Events in Emergent Oncologic Spine Surgery: A prospective analysis  Darcy M., Stee J., Boyd M., Paquette S., Kwon B., Dvorak M., Fehrer C.; Canada

12.03-12.09  O376  Prospective analysis of adverse events in surgical treatment of degenerative spondylolisthesis  Kelly A., Boffa J., Boyd M., Dvorak M., Fehrer C., Kwon B., Paquette S., Stee J.; Canada

12.09-12.15  O377  Risk factors for postoperative complication after instrumented posterior thoracolumbar fusion: A retrospective cohort study  Kijman J., Parti J.M., von Rohr L.W., Wilkins P.C.; The Netherlands

12.15-12.30  Discussion

12.30  NASS Session Adjourns
### Session XIV: Fellowship Award Ceremony

**Chair:** Orla T.

**Introduction of Fellowships by Scott Hodges**

**Announcement MacNab/LaRocca Fellowship for 2012**
Recipient - Christopher Colloca

**Announcement of Globus Fellowship for 2012**
Recipient - Dr. Paramisavim

**Introduction of the International ISSLS Fellows for 2011 and 2012 - Sponsored by Eisai Co Ltd**

**Presentation of Spine Young Investigators Award by Scott Boden**

**The distribution of body mass as a significant risk factor for lumbar spinal fusion postoperative infections**

- Martin A., Boglo R., Kralik R., UV, Brno, Czech Republic
- Vodicka V., Novak V., Brno, Czech Republic
- Owen J.J., Howland A.M., Bagley J.C., Chalfant O.N., USA

**Session XV: Surgery**

**Chair:** Takahashi K. & Palisani J.

**14.30-14.35 O378** Peak expiratory pressure & blood pressure are associated with blood loss and transfusion in lumbar surgery

- Young E., Gogoeini H., Bajwa N., Ahn N.U.G.: USA


- Bannister E., Poppi A., Schumo D., Schwyn R.: Switzerland

**14.44-14.49 O380** Is it beneficial to remove the pedicle screw implants after fusion in thoracolumbar fractures?


**14.51-15.00 Discussion**

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### Programme to be announced

**15.00-15.05 O381** Two state comparison of the safety of lumbar fusion operations among workers' compensation patients


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**15.07-15.12 O382** Cranial facet joint violations by percutaneously placed pedicle screws adjacent to a minimally invasive lumbar spinal fusion

- Park Y.: Korea

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**15.14-15.19 O383** Intraoperative epidural pressure in patients with positive versus negative saddlenasal sign undergoing spinal surgery

- Bör T., Malm M., Staub L., Lange J., Merk H.R., Folkau N.: Germany, New Zealand & Australia

**15.21-15.30 Discussion**

**15.30-16.00 Coffee**

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**Session XVI: Debate**

**Chair:** Boden S. & Freeman B.

**15.30-16.00 Proposer:** Teil M., Italy

**16.00-16.15 Opposer:** Hu J., USA

**16.15-16.30 Discussion**

**16.30-17.00 Second Proposer:** Rolfie M., Canada

**17.00-17.20 Second Opposer:** Kang J., USA

**17.20-17.30 Discussion**

**17.30-17.40 Announcement:** Medtronic Best Paper and Poster Awards

**Moderator:** Wardlaw D.

**17.40-18.00 Closing Remarks**

- Takahashi K., Japan

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**Friday Afternoon**

**ISSLS**

**Forum**

**Room E102**

**DSS**
Session I: Special Emphasis Poster
Tuesday, May 29, 2012, 16:40-17:40

A. Biomechanics
Chairs: Mike J.H. & Adams M.

SP01 To determine the association between anatomic landmarks of lumbar bony spine and age: a postmortem study of 1572 cadaveric human specimens
Bojna N.S., Young E.T., Ahn N.N; USA

SP02 The impact of bone mineral density and disc degeneration on human biomechanics of the human lumbar spine following laminectomy

ISL03 Is movement of the lumbar spine important to posture stability? 
Matt N.H.W., Hodges P.W.; Hong Kong & Australia

SP04 Structural health monitoring (vibration) as a diagnostic tool to identify spinal pathologies: A twin study using MRI validation
Kowath C.M., Harlingwin J., Edgcombe T., Plaha M., Canmore & Denmark

SP05 Golf analysis under real-life conditions in patients presenting with lumbar spinal stenosis
Kulke G., Piller R., Paracchi-Ionescu A., Taalwijk H., Arminion A., Schlae C.; Switzerland

SP06 Annulus fissures are mechanically and chemically conducive to the ingrowth of nerves and blood vessels

B. Biology
Chairs: Booc N. & U.A. Jian

SP07 Alteration of blood perfusion in vertebroplasty of subjects with Scheuermann’s disease: Preliminary results
Matsui M., Braydo-Bruno M., Ward

SP08 Nuclear pulpous cells expressing HMIP-7 can prevent the degeneration of allogeneic intervertebral disc in a canine transplantation model
Wang C., Ruan D., Zhang C., Wang D. & Q. China

SP09 Rapid and early bone formation prevents premature structural collapse of biodegradable microporous porous AlP
Abdallah S.A., Goi C.J.H., Wong H.K.; Singapore

SP10 Tissue engineered construct (TEC) prevents disc degeneration after nucleotomy in a rat model
Maliguy G., Aiko K., Iwakawa M., Yoshihawa K., Nakamura N.; Japan

SP11 The effect of ISBP on pain-related behavior induced by nucleus pulposus applied on the nerve root in rats
Sado M., Seleguchi M., Katsuki S., Korno K.; Japan

SP12 Removal of mitochondria-generated reactive oxygen species delays age-associated disc degeneration
Naoto L., Robinson A., Sowa G., Kgo, D., Gong W., Wipf P., Robbins P., Koga K., Hitomi D.; France

C. Biop
Chairs: Cheung F. & Manton M.

SP13 A novel biocomposite “transdermal” patch for repair of spinal disc herniation: Biomechanical intradiscal pressurization evaluation
Kung C., Piller R., Paracchi-Ionescu A., Taalwijk H., Arminion A., Schlae C.; Switzerland

SP14 Role of facet joint topography in lumbar disc herniation
Chen I.A., Sharma G., Arora A.; India

SP15 Intradiscal injection of autologous platelet-rich plasma improved discogenic low back pain: Preliminary prospective clinical study
Akeda K., Robinson A., Masuda K., Kasai Y., Sudo A.; Japan

SP16 Body mass index correlates with association of physical activity with low back pain
Smuck M.K., Kao M.C.I., Huang S.W., Thomkins-Lane C.C.; USA & Canada

SP17 The association between low back pain and lumbar spine bone density and trunk muscle mass in a population based cross section study
Leonard S.,f, Varn C.F.; USA & Korea

SP18 Failure analysis of patients in a US IDE trial of a posterior dynamic stabilization system
Kitchel S.M., Arndt K., Castelli T., Yonemura K., Cheng B., Robie B.; USA

D. Disc Degeneration
Chairs: Kong J. & Marszalek R.

SP19 Multimagnetic magnetic resonance imaging of normal and degenerative lumbar intervertebral discs

SP20 Association of body mass index in early childhood with lumbar disc degeneration at 21 years of age
Hara Y., Fushimi H., Matsuoka J., Maki S., Maki T., Sato T., Nishimura J., Iizuka H.; Japan

SP21 A numerical model of cellular viability in degenerated lumbar intervertebral discs
Galbovesco F., Melech A., Schmidt H., Neidlinger-Walke C., Wilke H.; Germany

SP22 Surgical soft tissue trauma causes disc degeneration – An in vitro analysis on human facet joints
Oster G., Hoefert K., Loew D.; Helios Klinikum, Richter W., Gehrmann T., Germany

SP23 Relationship between pain, patient expectations, and satisfaction following spine surgery
Bock A., Ohrmsdorff D., Guyder K.D., Aksanov A., Ben-Porath Y.; USA

E. Deformity
Chairs: Schlenke D. & Shaedo O.

SP24 Cervical low-grade scoliosis: A comprehensive review
Hosogane N., Iwanami A., Watanabe K., Tsuji T., Miyamoto T., Araki K., Niki T., Nakamura M., Toyama S., Chiba K., Midomi M.; Japan

SP25 Epidemiologic study of degenerative lumbar scoliosis: Analysis of 276 volunteers
Choka K., Kikuchi T., Saito M., Nakada T., Watanabe K., Koito K., Korno K., Japan

SP26 Global analysis of sagittal spinal alignment in major deformities: Correlation between lack of lumbar lordosis and flexion of the knee
Braga A., Ouellet G., Poulin S., et. al., Gauthier R., Pointillant V., Vidal J.; France

SP27 A comparison of pelvic incidence, lumbar lordosis and sagittal balance in patients with non-specific low back pain: degenerative scoliosis, spondylothesis and healthy volunteers
Rupakumar S., Davhil S., Jemajii S., Shaffey D., India & Singapore

SP28 Readmission rate after spine fusion for adult deformity
Schlezinger C., Turner C., Dekoven V., Huys J., Tobi B., Arns C., Chou D., Murnuomon P., Takemoto S., Sawyer A., Ben-V; USA

SP29 Radiology in adult scoliosis: Sciotic pain relates to the fraction of coronal and femoral pain to the main lumbar curve - A CT analysis
Pogliani M., Elea J., Grignoles F., Grazia G., Naso H., Kentro M.; Athens, Greece & Singapore

SP30 Does the healing of osteoporotic iliac crest autograft contribute to short or long term functional improvement in patients undergoing posterior lumbar fusion?
Montgomery A.S., Cunningham J.E., Robertson P.A.; New Zealand

ISL04 Hall 10

ISL05 ISSLS
G. Spinal Fusion
Moderators: Bingr C. & Lee H.M.

SP37 Patients perceive limited effect of increased stiffness following fusion of the entire lumbar spine
Hirakata J, Hirakata J, Voip J, Harl R; USA

SP38 Compensation hinges functional recovery in lumbar spinal fusions - or does it benefit the care of a host. A multi-center unmasked, prospectional study
Montgomery A.J., Cunningham J.E., Robertson P.A; New Zealand

SP39 Wilke versus midline approach for decompression and fusion of the degenerative lumbar spine - A prospective cohort comparison
Shekel J, White J, Fiher C, Canada

SP40 Hospital and surgeon variation in complications and reoperation following lumbar fusion for common degenerative diagnoses
Braithwaite B., Smith J.A, Franklin-D.G., Jude J.D., MacKenzie I., Deyo R.A; USA

SP41 Diagnoses associated with lumbar surgery in the elderly u.S. 2000-2010 Torsellson A, Mitha S, Deyo R, Jude J, Torsellson E; elderly USA

SP42 Adjacent disc and revision surgery following 360-degree lumbar fusion
Gibson F, Monavern J.J., Barrie C, Burgos J, Hevia E; Spain

H. Herniated Disc
Moderators: Greenough C. & Kawakami M.

SP43 Endplate defects following lumbar discectomy: A prospective study
Weber B.K., Hippi, J, Fonezios-Marino J, Trasciolo E; Italy

SP44 Surgical techniques for sciatica due to herniated disc: a systematic review

SP45 Hospital and surgeon variation in repeat surgery rates following decompression for herniated disc
Marin E.J., Mao I.K, Plum D.K, Michalek T, Neughey P.J., Lentosi A.F, Deyo R.A; USA

SP46 Volumetric changes of lumbar intervertebral disc herniation in non-operative patients

SP47 How fast the sensory symptoms, numbness, paresthesia and pain resolves after nerve root decompression – A prospective study with patient’s self-recorded pain diary
Saeguchi D.K, Peirland H; Canada

SP48 Prevalence of Gulf war in PPs scores in the SPORT IDH cohort
Spratt K.F; USA

I. Outcomes/Infection
Moderators: Mayer R. & Mossad M.

SP49 Outcome of treatment of post-operative spine surgical site infection: a systematic review of treatment success and failure
Maruo K, Berven S, J, Burt B, Sheven V, Zay T, Takemoto S; USA

SP50 Did the pitocin injection contribute to the outcome in the pyogenic spondylitis?

SP51 Total motion generated in the unstable thoracolumbar spine during management of the trauma patient: A comparison of methods in a cadaveric model

SP52 How well do Roland Morris scores reflect the actual performance on functional tests in patients with chronic BP?
Manninen A., Caperoni A, Pukkola K, Spald H; Switzerland

SP53 Does balloon kyphoplasty improve global spinal alignment in patients with osteoporotic vertebral fractures?
Kurita M, Huda F, Shimizu K, Hozumi N, Takahashi; Japan

SP54 Disadvantages of using Oswestry disability index in developing countries and the need for the modifications
Al-Hattan Pampland J; India

2. Spinaldecompression Spondylolisthesis
Moderators: Lenkoski A.F & Wang H.K.

SP55 Efficacy of physical examinations to diagnose early-stage spondylolisthesis
Sakai T., Takao S, Satoyuki K, Hisashi H, Yuki Y; Japan

SP56 Gender differences of radiographic findings in patients with lumbar spondylolisthesis
Sakai T, Takao S, Sakyu K, Nishihara H, Yosi H; Japan

SP57 Degenerative spondylolisthesis: The role of a weakened abdominal muscle
Frazier K.D, Dolezal A; Australia

SP58 Long-term clinical outcomes after minimally invasive decompressive surgery for lumbar spinal stenosis including degenerative spondylolisthesis

SP59 The relationship between performance and traditional outcomes of pain, function and quality of life in people with spondylolisthesis and lumbar spinal pain
Tomkins-Cleary C.C., Thomas K, H, Hepler R, Hugh A, Canada & Australia

SP60 Perioperative outcomes, complications, and costs associated with lumbar spinal fusion in elderly patients with spinal stenosis and spondylolisthesis: Analysis of the U.S Medicare claims database
Derg K.L, Axelson B, Jioo E, Ochouchu J, Schimer J, Zigler J.D, USA
Intraspinal anomalies in early onset idiopathic scoliosis: is it as common as we thought? Koc T., Sam K.: UK

A study of the rib-vertebra angle in patients with idiopathic scoliosis undergoing surgical correction with segmental pedicle screw systems Stourtas B., Soukhina K., Dimantoupolos G., Ghahd T., Papaioannou P.: Greece

MRI in spinal trauma – A predictor of neurological recovery Smadova K.V., Pansel L., Rig S.: Italy

Spinal shock in spinal cord injuries - Is duration of shock related to neurological level? Smadova K.V., Rig S., Anya S.: Italy

An innovative, cost effective, negative pressure device for management of bedsores in traumatic paraplegia Smadova K.V., Rig S.: India


Prospective, single-arm, multi-center trial using a flexible microplate shaver system for lumbar decompression: interim results compared to the sport spinal disc subgroup Dickson L., Lusardi C., Sumrain C., Mihm K., Hillbom M.: USA


Kyphoplasty in the treatment of vertebral compression fracture – Prospective functional evaluation Leli F., Carvalho D., Oliveira C., Santos F., Fiolho B.: Brasil

MIS for giant (>45% spinal canal) thoracic disc Morán C., Bolger C.: Ireland

Mini open posterolateral lumbar fusion - Technique, results and out come comparison with interbody fusion techniques of PLL and MIP Morán C., Bolger C.: Ireland

Tuberculosis in the spine - Clinical, radiological and segment of 31 patients Rodrigues L.C., Borjaletto A., Matsumoto M.: Brazil

The effectiveness of surgical intervention in the quality of life and survival of patients with metastatic lesions in the spine Rodrigues L.C., Borjaletto A., Matsumoto M.: Brasil

Controlled randomized prospective study comparing two forms of treating the bone graft donor site in vertebral-spine surgery Rodrigues L.C., Borjaletto A., Matsumoto M.: Brazil

Epidemiology of thoracolumbar surgical fractures in the east side of São Paulo Rodrigues L.C., Borjaletto A., Matsumoto M.: Brazil

Fatigue testing and assessment of stress gradient on cage device applied in spine Souza F., Andrisch C., Carilo F.: Brazil

Analysis of bioresorbable cage applied in lumbar spine using finite element modeling and degradation curve Souza F., Andrisch C., Carilo F.: Brazil

P18

Prospective evaluation of quality of life in adolescent idiopathic scoliosis before and after surgery with the SRS-30 and SF-36 questionnaires Faleggino L., Avagn O.: Brazil

Influence of a thread wise guide and spinal cord protector device in an in vivo vertebrarection Gobainth A., Simoes C., Amorello L., Bandeira E., Bredano G., Cappuccio M., Boria J., Italy & Brasil


Neurovascular scoliosis: Current surgical techniques Greggi F., Lati F., Defove M., Vommelaert F., Marie E., Giacomini L., Clini A.: Italy

En bloc resections of aggressive benign and malignant tumors of the thoracolumbar spine Bokse J.R., (Harnamf V.), Narsang K.Y., Taiwne K.G.J.T., Bomas Fhio T.P.: Brasil
### Posters

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<td>Itakura H., Iwata Y., Kobayashi R., Takahashi K., Japan</td>
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<td>Sagittal spine-pelvic alignment in elderly patients with cervical spondylotic myelopathy</td>
<td>Suzuki H., Endo K., Kihara H., Kinami D., Tanaka H., Hashi S., Yamamura K., Japan</td>
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<td>Progresion of cervical instabilities in patients with rheumatoid arthritis over 5.7 years after their first lower limb arthroplasty</td>
<td>Kamiya K., Imagama K., Takasawa K., Murakami A., Matsu H., Ishiguro N., Japan</td>
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<td>Clinical trial of O-GPCL neuroprotection therapy for acute worsening of cervical compression myelopathy</td>
<td>Sakuma T., Yamaizumi M., Ikeda K., Hayashi M., Tokudome T., Japan</td>
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<td>The risk factors of neck pain and neurological impairment in patients with rheumatoid arthritis: focus on cervical spine instability</td>
<td>Sakuma T., Endo K., Funtsu T., Hamada H., Fukutome T., Tanashi T., Toyota T., Kosaka T., Dozono S., Shinohara Y., Nakamura H., Japan</td>
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<td>Surgical anatomy of nuchal ligament in the lower spine - Cervadone</td>
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<td>Southam K., Irons P., Matsumoto K., Atboulghosseini C., Stroumpou N., Sapiga G., Papagopoulous P.J., Greece</td>
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<td>Hydrophilia after cervical expansile laminoplasty for cervical spondylotic myelopathy</td>
<td>Date T., Tanmoto S., Fujita S., Iishi K., Akihara K., Kamikita M., Yano Y., Tokyo, Japan</td>
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<tr>
<td>Effect of surgical intervention for cervical spondylotic myelopathy accompanying local kyphosis - Comparison between laminotomy alone and posterior reconstruction surgery using screw-rod system</td>
<td>Miyahara H., Morida K., Uno K., Kato K., Nakai K., Suzuki T., Iwata T., Japan</td>
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<td>Anterior cervical fusion with peak cage, do they fuse?</td>
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<td>Kinematic analysis of the cervical cord and cervical canal during dynamic motion</td>
<td>Endo K., Funtsu T., Kimura D., Tanaka H., Shinoda T., Yamamoto K., Japan</td>
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<td>Can empty cages be used for reconstruction of cervical spine after ACO? a preliminary report</td>
<td>Gatta D., Uceta K., Tanaka T., Kato K., Kamiya H., Wada K., Japan</td>
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<td>Surgical results for spinal gaze due to cervical myelopathy: how much improvement can be expected?</td>
<td>Nakao M., Kawashita K., Yasuda T., Kato K., Hori T., Kinuma T., Japan</td>
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<td>Tsukimori T., Hori K., Endo K., Yamaizumi M., Akita M., Yotsu K., Horo Y., Wakai H., Tokyo, Japan</td>
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<td>Neurologic outcome in cervical cord injuries: Correlation with MRI findings and its role on post-operative surveillance</td>
<td>Fuchino H., Yamaizumi M., Ikeda K., Kato K., Murakami M., Akihara H., Wada W., Osaka, Japan</td>
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<td>Surgical strategy in cervical facet dislocations</td>
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<td>Anatomy of subaxial foramen magnum: the space for lateral root mass</td>
<td>Nakamura M., Iwata H., Ueda K., Takahashi K., Japan</td>
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<td>Oota W., Wada K., Tanaka T., Kamiya K., Hashi S., Takahashi K., Japan</td>
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<td>Ota M., Shibashiro S., Wada K., Tanaka T., Kato K., Takahashi K., Japan</td>
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<td>Adjacent segment degeneration after cervical artificial disc replacement with Frodis-C: 5-years follow-up results using MRI and CT imaging</td>
<td>Han M., Yoon J., Cho H., Kang Y., Lee K., Shon J., Kang S., Park S., Kang S., Korea</td>
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<td>Use of the Spine Adverse Events Severity (SAVES) Instrument for traumatic SCI</td>
<td>Sheet J., Moonan V., Fuller C., Cheung A., Sun B., Dvorkin M., Canada</td>
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<td>Effect of motor score on adverse events and quality of life in patients with traumatic SCI</td>
<td>Sheet J., Moonan V., Fuller C., Cheung A., Dvorkin M., Canada</td>
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<td>Fukuda T., Muko E., France</td>
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F320 The intra-operative Transracemic Acid decrease operative blood loss during posterior spinal fusion for treatment of adolescent idiopathic scoliosis

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*If seats for dinners are still available
**Certificate with proof of status (student, trainee, PhD student) is obligatory; otherwise the full Non-Member fee will be charged.

The Scientific Registration includes:
- Participation in all scientific sessions
- Meeting bag with programme, abstracts book, tourist and other information
- Lunches and coffee breaks as indicated in the programme
- Access to the industrial exhibition

The Full Registration includes the Scientific Registration plus:
- Welcome Reception at the Amsterdam RAI on Monday, May 28 - Pre-registration is compulsory
- One Society Dinner of your choice - Pre-registration is compulsory
- All Societies Dining Cocktail on Thursday, May 31 at the Concertgebouw - Pre-registration is compulsory

How to register
- Register online at www.spineweek2012.com. The registration and payment form is secured so that credit card information can be submitted safely.
- Only credit card payments are accepted (Visa, Mastercard, Diners, American Express).

Confirmation
- Immediately after submitting your online registration form, an automatic confirmation is sent by email. If you do not receive this automatic confirmation, your registration has not been made successfully. Medicongress will send a formal confirmation by email after receipt of payment.

Cancellation
- Cancellations received no later than April 1, 2012, entitle registered persons to a full refund less 100.00 € administration costs.
- No refunds can be made for cancellations received after this date.
- Delegates can be replaced by a colleague at any time, at an extra cost of 100.00 €.

Cancellation received no later than April 1, 2012, entitle registered persons to a full refund less 100.00 € administration costs.

Delegates can be replaced by a colleague at any time, at an extra cost of 100.00 €.
Hotel Accommodation

RAI Hotel & Travel Service has been selected as the official housing bureau for SpineWeek 2012. RAI Hotel & Travel Service is part of Amsterdam RAI and arranges hotel accommodation in and around Amsterdam. Amsterdam has more than 300 hotels with over 20,000 rooms in all categories. Accommodation ranges from the well-known international hotel chains to low-budget accommodation. Over 2,500 of these hotel rooms are near the Amsterdam RAI, at 5 to 10 minutes walking distance.

Travel can also be arranged through the reservation system above. Amsterdam RAI has selected some reputable travel affiliates which offer flights to/from Amsterdam, excursions in Amsterdam, airport transfers to and from the hotels and car rental. All these services can be booked online.

Only applications through www.SpineWeek2012.com will be accepted. Here you will also find information on the hotel reservation policy and the cancellation procedures.

General Information

Venue
Amsterdam RAI
Europaplein
Amsterdam, The Netherlands
http://www.rai.nl/

Language
The official language of SpineWeek will be English.

Coffee and Lunch
Coffee will be served in the exhibition area during the breaks between sessions. Lunch is included in the registration fee and a number of Lunch Workshops will be organised by the industry. Moreover, there are several restaurants and cafés on the premises of the RAI where participants can buy food and drinks.

Exhibition
An industrial exhibition, highlighting medical and surgical equipment, pharmaceutical products and books will be held during SpineWeek. The exhibition is only accessible for registered participants and exhibitors, wearing the official SpineWeek badges.

Letter of Invitation / Visa Application
Upon request, the chairmen of SpineWeek 2012 will be happy to send a personal letter of invitation so as to enable participants to obtain supporting funds or visas to attend the Meeting. A letter of invitation cannot be considered as an offer of financial support.

Liability
In registering for SpineWeek, participants agree that neither the SpineWeek Committee nor the Organising Secretariat assume any liability whatsoever. Participants should therefore organise their own health, travel and personal insurances.
Local Information

Climatic
Amsterdam has an oceanic climate, strongly influenced by its proximity to the North Sea to the west, with prevailing westerly winds. The average temperature end of May, beginning of June is 15 -18°C (60-64°F).

Currency
The local currency is the Euro (€). Most shops and restaurants in Amsterdam accept credit cards, but not all. It is therefore recommended to either ask before you order or ensure you have a sufficient amount in cash to cover the bill. Most shops and restaurants do not accept € 200 - € 500 notes.

Tipping
Service is always included. It is however customary to tip in restaurants, bars and when paying for taxis. As a general rule tipping between 5 - 10% is acceptable.

Shopping
Shops are open from Monday to Saturday, from 09.00 until 18.00 hrs (Saturdays until 17.00 hrs and Thursday evenings until 21.00 hrs). On Sundays from 12.00 until 17.00 hrs. Some supermarkets stay open until 20.00 or even 22.00 hrs on weekdays. Most businesses operate from Monday to Friday, from 08.30 until 17.00 hrs. Banks are open on weekdays only, between 09.00 and 16.00 hrs.

Electricity
Electricity in The Netherlands is 230 Volts, alternating at 50 cycles per second. If you travel to The Netherlands with a device that does not accept 230 Volts at 50 Hertz, you will need a voltage converter.

Useful Phone Numbers
Emergency (police, ambulance, fire): 112
Police (theft and other queries): 0900-8844
Tourist doctor (medical attention): (0031)-(0)-20-4275011

Official Carrier

The airlines of SKYTEAM, Official Alliance Network for Spinweek 2012, offer attractive airfares for participants.


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Through this site you can also access the schedules of all SkyTeam partners to plan your flights on the airline of your choice.
Spineweek on your mobile phone!

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