Final Programme

EUROSPINE 2014
October 1-3, 2014
Cité Internationale, Lyon, France
www.eurospine2014.eu
COME & CELEBRATE
MEET US ON BOOTH B15

Universal Clamp™ Spinal Fixation System
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A 04-07/01 Rev0 - FR

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Surgical Synergy™
THE POWER OF INTEGRATION

Stop by the Medtronic booth to learn more
Welcome Message from the Local Host

Dear colleagues and friends, 
On behalf of the local organising committee hosts, I would like to personally welcome you in Lyon to the annual EURO-SPINE meeting 2014. Lyon is a historic city designated as a UNESCO world heritage site. Enjoy the rich history of the town including the tradition of silk-weaving and also find out why Lyon is considered the "birthplace"of cinema. Of course you will enjoy the « French cuisine» and wine in this gastronomic city. It will be an unforgettable experience.

I would like to thank the organising committee for its help to give a personal French touch to this European Spine meeting.
The pre-meeting courses and the scientific programme are both of high quality

Jean-Charles Le Huec, MD, PhD, Prof  
Chairman Ortho-Spine department,  
Dir Surg Research Lab - Bordeaux University Hospital, France,  
Past president of EUROSPINE, ISASS

Welcome Message from the 2014 President of EUROSPINE

Welcome,
There is a unique flavour to EUROSPINE, and each Annual meeting is different and special. Where else could the elements of ‘Spine, wine and dine’ be so harmoniously matched

Lyon is a perfect venue, with an established track record of hosting major conferences and specifically medical and spine meetings. The members of EUROSPINE relish the interaction and symbiosis between the elite scientific meeting and the other ingredients of a good Congress.
A mark of the success of our EUROSPINE meetings is the high proportion of participants that come back for more. Abstracts submissions are reviewed in a ‘blinded’ way by multiple reviewers. Only about 10% are accepted for the main podium, this harsh but fair policy makes for high quality and integrity of presented material.
Live educational events have many components. There are podium sessions, ‘Quick-fire’ short papers and e-posters. Lunch time workshops add to the educational content. Providing CME accreditation involves meeting the high standards of EACCME. This meeting is about giving you, our important partners, the best of environments for networking. The multicultural diversity of Europe coupled with International delegates from China, South America and the rest of the Globe makes a superb melting pot for fresh ideas in science and technology. As the President of EUROSPINE it is my honour and pleasure to welcome you to ‘un beau mélange’.

Phil Sell, MSc, FRCS  
University Hospitals of Leicester and Nottingham University Hospitals United Kingdom  
President of EUROSPINE 2014
Redefining Fusion.

Plasmapore<sup>XP</sup>
Stability starts on the surface:
Osteoconductive<sup>1</sup> porous titanium coating on PEEK-OPTIMA<sup>®</sup>

CeSPACE<sup>XP</sup>
Cervical Interbody Fusion System with Plasmapore<sup>XP</sup> coating

PROSPACE<sup>XP</sup>
PLIF Interbody Fusion System with Plasmapore<sup>XP</sup> coating

Arcadius<sup>XP L</sup>
Plasmapore<sup>XP</sup> coated Lumbar Stand-Alone Interbody Device

<sup>1</sup> Boyle C. Cheng, PhD, Biomechanical Pullout Strength and Histology of Plasmapore<sup>XP</sup> Coated Implants: Divine Multi-Time Point Survival Study, Aesculap ART129 12/13

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SHARING EXPERTISE

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Phone +49 7461 95-0 | Fax +49 7461 95-2600 | www.aesculap.com
Aesculap – a B. Braun company
EUROSPINE PRESIDENT
Philip J. Sell, UK

EUROSPINE VICE PRESIDENT
Haluk Berk, Turkey

EUROSPINE PAST PRESIDENT
Ferran Pellisé Urquiza, Spain

EUROSPINE SECRETARY
Everard Munting, Belgium

EUROSPINE TREASURER
Frank Kandziora, Germany

EUROSPINE ASSISTANT TREASURER
Finn Bjarke Christensen, Denmark

CHAIR OF EDUCATION COMMITTEE
Jörg Franke, Germany

CHAIR OF PROGRAMME COMMITTEE
Thomas Blattert, Germany

MEMBER AT LARGE
Michael Ogon, Austria

LOCAL HOST
Jean Charles Le Huec, France

CO-LOCAL HOSTS
Pierre Roussouly, France
Gilles Perrin, France
Jean Paul Steib, France
Cédric Y. Barrey, France
Christophe Garin, France

PROGRAMME COMMITTEE CORE REVIEWERS
(Abstracts and Programme Coordination)
Thomas Blattert, Schwarzach, Germany (Chair)
Selçuk Palaoglu, Ankara, Turkey (Cervical Spine)
Cédric Barrey, Lyon, France (Adult thoracolumbar, non-degenerative: trauma, tumor, infection)
Karin Würtz, Zürich, Switzerland (Basic Science)
Josef Grohs, Vienna, Austria (Adult thoracolumbar, degenerative, Deformity)
Martin Gehrchen, Copenhagen, Denmark (Growing Spine)
Stavros Stavridis, Thessaloniki, Greece (Other Growing Spine)

Lunch Symposia and Pre-Meeting Committee
Chair: Ralph Kothe, Germany
Member: Luis Alvarez Galovich, Spain
Member: Pierre Roussouly, France

Abstract Co-Reviewers
Cervical Spine
Dimitrios Korres, Greece
Tim Pigott, UK
Adult thoracolumbar, non-degenerative (trauma, tumor, infection)
Ibrahim Obeid, France
Antonio Faundez, Switzerland
Adult thoracolumbar, degenerative, Deformity
Mark Lorenz, USA
Claudius Thomé, Austria
Basic Science
Conni Neidlinger-Wilke, Germany
Werner Schmölz, Austria
Stephen Ferguson, Switzerland
Growing Spine
Martin Repko, Czech Republic
Acke Ohlin, Sweden
Others
Klaus Schnake, Germany
Efthimios Samoladas, Greece
EUROSPINE-SRS
Joint 2015
Spring Meeting

2nd EUROSPINE Spring Speciality Meeting

Focus on:
Spinal Deformity from Early Childhood to Adulthood

April 23-25, 2015
Crowne Plaza Barcelona - Fira Center, Barcelona, Spain

Meeting Chairs
Ahmet Alanay – Istanbul, TR
Haluk Berk – Izmir, TR
Marinus de Kleuver – Nijmegen, NL
Ferran Pellisé – Barcelona, ES

www.eurospinemeeting.com
www.eurospine-spring.com
Addresses and Important Dates

Organising Secretariat, Housing

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27 rue du Four à Chaux
13007 Marseille, France
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congress website: www.eurospine2014.eu

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www.eurospine.org

Membership & Marketing
Ms Claudia Ortner
Mobile : +43 (0)6 99 11 59 65 88
Email : ortner@eurospine.org

Scientific Congress Website: E-Posters and constantly uploaded photos from the meeting
www.eurospinemeeting.com

Congress Venue
Lyon Cité Internationale Congress Centre
50 Quai Charles de Gaulle | 69463 Lyon cedex 06

Important Dates
Press Conference
Wednesday, October 1 – 11:30
Room Bellecour 1

Exhibition Opening & Welcome Reception
Wednesday, October 1 – 17:30
Lyon Cité Internationale Congress Centre

Medal Lecture (Mark Stevenson)
Thursday, October 2 – 11:25
Plenary Hall

EUROSPINE General Assembly
(Members only)
Thursday, October 2 – 16:45
Plenary Hall

Official Congress Evening at own expense
Thursday, October 2 – 19:30
Paul Bocuse Halles

EUROSPINE 2014 Best of Show Papers and Best Podium Prize
Friday, October 3 – 10:30
Plenary Hall
Membership

The brightest minds in spine are members of EUROSPINE. Although orthopaedics and neurosurgeons are the core of EUROSPINE's membership, we welcome all spine related disciplines and professionals. Solving the challenges we are facing in spinal matters requires a multidisciplinary effort, and EUROSPINE is a place for all of today's spine professionals.

Above all, EUROSPINE is its members.

Significantly reduced registration fees for EUROSPINE Meetings
Research grants
Subscription to the ESJ (hard copy and online version)
Access to OOT (Open Operating Theatre, video database)
e-newsletter and annual report
Access to member area on website
Exclusive early access to webcasts
Full voting rights at the general assembly
Option to participate in Spine Tango and access to Patient Line
Special "Young Members" category

EUROSPINE Meetings
Annual meeting
Spring Speciality Meeting

Task Force on Research
Research grants up to EUR 100,000 p.a.
Annual research course
Bi-annual abstract course

Patient Line
Patient information platform

Spine Tango
The international spine registry

European Spine Course Diploma
Consistent educational programme to future spine specialists

EUROSPINE
The Spine Society of Europe

www.eurospine.org
www.eurospinemeeting.com

facebook.com/EUROSPINE
twitter.com/EuroSpineSoc
CME points are assigned to participants per half-day.

To collect your CME points for your certificate you need to let the hostesses located at the door of the session halls SCAN THE BARCODE on your name badge, each half-day, at the following times:

Morning: between 08:00 and 11:00
Afternoon: between 13:30 and 16:30

Your Certificate will be available for download via a personal link which the Organisers will send you via email one week after the conference.

We are pleased to inform you that the application for European accreditation for the 3 following events was granted European CME credits (ECMEC) by the European Accreditation Council for Continuing Medical Education (EACCME).

EUROSPINE Pre-Day course: Cervical Myelopathy, Current Concepts and Controversies: Event code: 10997 - granted 3 European CME credits (ECMEC)

»The ‘EUROSPINE 2014’ Pre-Day course: Cervical Myelopathy, Current Concepts and Controversies is accredited by the European Accreditation Council for Continuing Medical Education (EACCME) to provide the following CME activity for medical specialists. The EACCME is an institution of the European Union of Medical Specialists (UEMS), www.uems.net.«

»The ‘EUROSPINE Pre-Day course: Cervical Myelopathy, Current Concepts and Controversies’ is designated for a maximum of (or ‘for up to’) 3 hours of European external CME credits. Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.«

»Through an agreement between the European Union of Medical Specialists and the American Medical Association, physicians may convert EACCME credits to an equivalent number of AMA PRA Category 1 Credits™. Information on the process to convert EACCME credit to AMA credit can be found at www.ama-assn.org/go/internationalcme.«

»Live educational activities, occurring outside of Canada, recognized by the UEMS-EACCME for ECMEC credits are deemed to be Accredited Group Learning Activities (Section 1) as defined by the Maintenance of Certification Program of The Royal College of Physicians and Surgeons of Canada.«

EUROSPINE 2014: Event code: 10541 - granted 18 European CME credits (ECMEC)

»The ‘EUROSPINE 2014’ is accredited by the European Accreditation Council for Continuing Medical Education (EACCME) to provide the following CME activity for medical specialists. The EACCME is an institution of the European Union of Medical Specialists (UEMS), www.uems.net.«

»The ‘EUROSPINE 2014’ is designated for a maximum of (or ‘for up to’) 18 hours of European external CME credits. Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.«

»Through an agreement between the European Union of Medical Specialists and the American Medical Association, physicians may convert EACCME credits to an equivalent number of AMA PRA Category 1 Credits™. Information on the process to convert EACCME credit to AMA credit can be found at www.ama-assn.org/go/internationalcme.«

»Live educational activities, occurring outside of Canada, recognized by the UEMS-EACCME for ECMEC credits are deemed to be Accredited Group Learning Activities (Section 1) as defined by the Maintenance of Certification Program of The Royal College of Physicians and Surgeons of Canada.«
Good to know

**Patient Day**
On September 30 from 09:30 to 12:30, EUROSPINE, the Spine Society of Europe, invites interested persons to a public patient information event themed “MAL AU DOS ET CHIRURGIE”. Find more information on page 34.

**Webcasts**
As EUROSPINE wants to offer participants as much educational value as possible, presentations from the main session hall will be recorded given that the speakers agreed to it. This enables you to watch presentations again to catch what you have missed. The webcasts will be available after the Congress in an online library accessible via the EUROSPINE meetings website.

**Smartphone App**
Have the most relevant and up-to-date conference information at hand! Not only will you be able to easily access scientific and logistical congress information (e.g. programme, speakers, sessions, congress venue,...), but you will also be able to participate in interactive votings, bookmark your favorite sessions and access the exclusive e-version of “The Spine Times”. Free WIFI is available within the entire congress venue.

**Audience Response System (ARS)**
Due to its great success at the last EUROSPINE conference the Audience Response System will be used again during the main sessions to ensure an interactive learning experience for all participants. To participate in an interactive session, please download the EUROSPINE smartphone app.

**The Spine Times**
Get your free copy of the congress’ daily newspaper, providing up-to-date information about hot topics and the latest trends, giving an insight into EUROSPINE, the Spine Society of Europe, and enriching the overall congress life as well as providing tips for social activities in Lyon.

**Member Lounge at the EUROSPINE booth**
All members are invited to retreat and meet colleagues and friends in the EUROSPINE Member Lounge, located at the EUROSPINE booth. Just show your name badge with the member seal on it and step in!
Registration Opening Times
The registration counters are located in the "hall Terreaux" - level 0, and will be open during following hours:

**Tuesday, September 30, 2014**
for Pre-Day Courses 12:00-17:00

**Tuesday, September 30, 2014**
free drink when taking advantage of registering the evening beforehand 17:00-19:00

**Wednesday, October 1, 2014**
07:30-19:00

**Thursday, October 2, 2014**
07:30-19:00

**Friday, October 3, 2014**
07:30-15:30

Registration Counters
PREPAID REGISTRATION is for participants who have registered and paid in advance. Please have a print-out of the final info e-mail at hand when approaching the desk.

ON-SITE REGISTRATION is for participants who have not pre-registered and paid. Please note that congress materials are subject to availability to participants who are registering and paying their fees on-site.

EXHIBITOR REGISTRATION is located in the registration area.

THE CONGRESS BAG counter is located in the "FORUM A" Level -2

On-site Registration Fees

<table>
<thead>
<tr>
<th>Annual Meeting:</th>
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<tbody>
<tr>
<td>EUROSPINE Member</td>
</tr>
<tr>
<td>Non Member</td>
</tr>
<tr>
<td>Residents / Fellows / Basic Scientists*</td>
</tr>
<tr>
<td>Official Congress Evening</td>
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</tbody>
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<table>
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<tr>
<th>Pre-Day Courses:</th>
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<tbody>
<tr>
<td>Pre-Day course with ES full Registration</td>
</tr>
<tr>
<td>Pre-Day Course only</td>
</tr>
<tr>
<td>Residents / Fellows / Basic Scientists*</td>
</tr>
</tbody>
</table>

* upon presentation of a letter signed by his/her Hospital/Clinic Supervisor or his/her University/Laboratory, confirming his/her status

All fees are including local taxes where applicable. The conference hosts reserve the right to adjust registration fees to exchange rate development.

Participants' Registration Fee includes
- Admission to all scientific sessions
- Admission to the workshops organised by the industry
- Congress materials (congress bag, final programme, abstract publication, name badge)
- Access to the exhibition
- Coffee breaks
- Welcome Reception/Exhibition Opening, Wednesday, October 1, 2014

Payment
Please note that all on-site payments need to be made in EURO or by credit card (VISA, Mastercard, American Express will be accepted). Unfortunately we cannot accept traveller cheques, other credit cards, eurocheques or other currencies. There is no possibility to exchange currency at the congress venue.
Floorplan overview

Level 2 / Gratte-Ciel

Level 1 / Tête d’Or

Level 0 / Cordeliers

Level -1 / Bellecour

Level 3 / Roseraie

Level 2 / Saint Clair

Level 1 / Rhône Pasteur

Level 0 / Terreaux

Exhibition Forum B
EUROSPINE BOOTH

Exhibition Forum A
Name Badges
Participants will receive their name badge when collecting their congress documents. Please wear your name badge during all congress events, including the networking activities. Admission to scientific sessions is strictly restricted to participants wearing their badges. Exhibitors are not entitled to attend the scientific sessions with the exception of their own company’s workshop.

Please note: Participants who misplace their badge need to pay for a new one.

Name Badge Codes:
- EUROSPINE Member
- NM Non-member
- EXH Exhibitor
- P Press
- Pre-Day Course badge
- PDC1 Pre-Day Course 1
- PDC2 Pre-Day Course 2

How to read your name badge
If you registered for one day only you can see it here

Your name and country of origin
Your personal barcode: scan to collect your CME credits.
Name badge code (in this case: NonMember)
Official Congress dinner access. (1 = quantity. D = Dinner access)

Exhibitors at the EUROSPINE congress may scan this QRcode to collect basic information about you: name, email, institution, city and country. These information may be used for commercial purposes. Permission or refusal of badge scanning remains the badge holder’s responsability.

Congress Bags
With your congress documents, you will receive a congress bag voucher. Congress bags can be picked up at the congress bag counter (see on-site signage and floor plan on p. 90) during registration opening hours (see p. 13) In the congress bags you will find:
- Final Programme Book
- Abstract Supplement by ESJ
- pen & Note pad
- bag inserts from companies

Certificate of Attendance
Your Certificate will be available for download via a personal link which the Organisers will send you via email one week after the conference. In order to claim all your CME points correctly, you need to scan the barcode on your name badge at self-scanning stations during specific times. Find more information on page 11.

The scientific programme of the EUROSPINE 2014 Congress has been accredited a maximum of European CME credits (ECMEC), 3 per half day (2 credits for Thursday morning), by the European Accreditation Council for Continuing Medical Education (EACCME).
LUNCH WORKSHOP

XLIF® for Deformity and Advanced Applications

Faculty: Dr. Pedro Berjano (Italy), Mr. Alwyn Jones (UK), Dr. Markus Quante (Germany)

LOCATION: Saint Clair 2, Level 2 | Cité Centre de Congrès Lyon | Thursday, 2 October, 2014 | 12:00 – 14:00

Visit us at EUROSPINE | October 1-3, 2014 | Lyon, France

NUVASIVE® STAND #B20 in HALL B

www.nuvasive.com

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Bank & Exchange
Banking hours are Monday to Friday, from 9:00 to 16:30. You can find cash machines everywhere in Lyon and accessible 24 hours a day. For cash withdrawals, check with your bank for fees or which cooperating bank will accept your card without risking extra fees. Generally, you will be warned if a commission is going to be charged before validating the transaction. Many hotels, restaurants and shops accept credit cards (Visa, MasterCard, sometimes American Express).

Coffee Breaks
Coffee, Tea and French pastries will be served in the exhibition halls from Wednesday, October 1 to Thursday, October 2, between 10:00 and 10:30 as well as 15:20 and 15:50. On Friday, October 3, it will be served between 10:00 and 10:30. Coffee Break areas are indicated with a coffee cup symbol on the venue floor plans.

Currency
The official currency in France is EURO (€).

E-Posters Area
E-Posters stations are located on Hall Bellecour (Level -1), close to the Spine Village. They are accessible during exhibition opening times only (see below).

Electricity
The main voltage in France is 230 V. Round power outlet, with 2 holes for the phase and the neutral, as well as a border for the earth.

EUROSPINE Booth B19
The EUROSPINE Booth is located in the exhibition area (Forum B, see exhibition plan on page 92). Seize the opportunity to learn more about the activities of EUROSPINE, the Spine Society of Europe, and to become a member.

EUROSPINE Member Lounge
The Lounge at the EUROSPINE Booth is the place where you can retreat, relax and meet colleagues and friends. Access will be granted with member’s badge only marked with the member sign.

Exhibition
The industry is waiting for you on the lower level (-2). Opening hours:
Wednesday, October 1, 2014 - 08:00-19:00
Thursday, October 2, 2014 - 08:00-18:00
Friday, October 3, 2014 - 08:00-14:00

About UNICEF
UNICEF promotes the rights and wellbeing of every child, in everything we do. Together with our partners, we work in 190 countries and territories to translate that commitment into practical action, focusing special effort on reaching the most vulnerable and excluded children, to the benefit of all children, everywhere.
First Aid
In case of emergency, please contact the Staff at the registration counter.

Future Meeting Table
The Future meeting table can be found in the Lumière Level (-1) just before the escalators going down to the exhibition halls.

Insurance and Liability
The organisers cannot be held liable for any hindrance or disruption of the Annual Meeting or Courses arising from natural, political, social or economic events or other unforeseen incidents beyond their control. Registration implies acceptance of this condition.

The organisers cannot be held responsible for any personal injury, loss, damage or accident to private property, or for additional expenses incurred as a result of delays or changes in air, rail, road or other services, strikes, sickness, weather and other causes. All participants are encouraged to make their own arrangements for health, travel and accident insurance.

Internet Corner / WiFi Access
WiFi is available throughout the whole congress area.
Computers with Internet connection are available on Hall Bellecour (Level -1), close to the Spine Village.

Language of the Congress
The official congress language is English. Simultaneous translation is not provided.

Lead Retrieval
Some exhibiting companies may use a lead retrieval system at their booth or throughout their sponsor session.
If so, they may ask to scan the barcode on your name badge. When scanning the badge, they will receive the following information of yours (similar to exchanging business cards): First name, Last name, Academic title, complete postal as well as email address.
You may at any time refuse the scan if you do not want your contact details to be passed on to the representative company.

Lyon
Refer to page 25 for more information on Lyon.

Lunches
From 12:00 to 14:00, EUROSPINE Lunch Symposia and Industry Lunch Workshops are planned where food and drinks will be offered to the participants.

Mobile Phones
Please keep your mobile phones silent in the Session Rooms.

Parking
The nearest car parks to the congress centre are P0, P1 and P2
P0 - LYON PARC AUTO: 84 Quai Charles de Gaulle
Tel: +33 (0)4 78 93 66 15
Pricing (09:00-19:00)
EURO 0,60 each 20 minutes
P1 - VINCI PARK: 64 Quai Charles de Gaulle
04 78 89 77 78
Pricing:
Up to 1 hour: EURO 1,80
Up to 2 hours: EURO 3,60
Up to 3 hours: EURO 5,40
24 hours: EURO 24,90
P2 - LYON PARC AUTO: 34 Quai Charles de Gaulle
04 72 82 06 37
Pricing (09:00-19:00)
EURO 0,60 each 20 minutes
Smoking
From November 15, 2006, smoking in public areas is strictly forbidden. Smoking inside the venue is definitively banned. Dedicated smoking areas will be designated around the venue. Anyone found smoking within the venue will be requested to leave without refund.

Spine Village
EUROSPINE cordially welcomes the following Societies and their Representatives in the Society Village:

> BSS (Brazilian Spine Society)
> CES Charity UK
> CSRS-ES (Cervical Spine Research Society – European Section)
> DWG, Deutsche WirbelsäulenGesellschaft
> SFIR (French Spine Surgery Society)
> NASS (North American Spine Society)
> Turkish Spine Society
> Austrian Spine Society
> IGASS (International Group for Advancement in Spinal Science)
> Aospine Europe

Their booths will be located in the Hall Bellecour (Level -1). So step by and find out about their numerous activities!

Speakers’ Preview Centre
The Speakers’ Preview Centre is located in the Hall Bellecour (Level -1). Staff and equipment will be available for you to arrange and preview your presentation. For more information, see Page 21.

Tipping
In France, restaurants and hotels bills include a service charge. If you feel the service was good and want to show your appreciation, extra tips will be appreciated (without any fixed percentage, the amount is left to your judgement).

Useful Telephone Numbers
Dial 17 in an emergency to request the Police. Dial 18 in an emergency to request Fire & rescue Service. Dial 15 in an emergency to request Emergency Medical Service.

Weather
Temperature in Lyon in October usually range between 18-20°C by day. Nights are cooler.
Visit us at the EUROSPINE booth!

CHECK OUT THE NEW

BELGIAN AND POLISH ST MODULES

FORM LIST STRUCTURE

SPINE TANGO PUBLICATIONS

CODE OF CONDUCT

ANNUAL REPORT 2013

Not registered yet? Come in and find out.

www.eurospine.org click on Spine Tango
Speakers’ Preview centre
Hall Bellecour, level -1 – See on-site signage.

Opening Hours:
Tuesday, September 30, 2014
08:00-17:00
Wednesday, October 1, 2014
07:30-17:00
Thursday, October 2, 2014
07:30-17:00
Friday, October 3, 2014
07:30-15:30

Presentation file(s) must be uploaded at least 2-3 hours prior to the beginning of the corresponding session. In case of early morning sessions, please upload your presentation the day before. Professional staff will be happy to assist you in case of any technical problems. The Speakers’ Preview technicians will advise the speakers on the use of the presentation equipment and AV set-up in the session rooms. Visiting the Speakers’ Preview Room will ensure that your presentation will run as smoothly as possible.

We kindly ask for your understanding that due to space and time limitation at the Speakers’ Preview Centre presentations should be prepared and edited before submission. Thank you for bringing your presentations in a ready-to-upload format!

General Info
Two chairpersons will be allocated to each session responsible for introducing the speakers, controlling the timing of the sessions and moderating the discussion. All rooms are set-up in theatre style and are equipped with a lectern, microphones, projector, screen, laser pointer and a presentation laptop.

Timing of Sessions
In order to keep the sessions running to schedule and allow questions from the audience, it is very important to keep the presentations within the allotted time. Your slides will fade automatically after the time has elapsed. In this respect we strongly recommend that speakers ensure that their presentation does not exceed the allotted time as we expect the Chairperson to strictly adhere to the timetable. Stopping a Speaker from completing a presentation is very embarrassing for all concerned and hopefully will not be necessary if everyone respects this requirement.

Regular Presentation: 5 minutes
QuickFire Presentation: 3 minutes

Info for Chairpersons
Chairpersons will be in charge of introducing the session, introducing the speakers, ensuring that the speakers respect the assigned time, asking questions and leading the discussion with speakers and the audience. Introduction of Speakers by the Chairperson should include their full title, place of work and main contribution to the subject area. This should provide due credit to the Speaker without using unnecessary time.

Conflict of Interest
EUROSPINE is committed to avoid potential conflicts of interest: any financial relationship between the Speaker/Chairperson and a company manufacturing or distributing a product must be disclosed and openly shared. Conflicts of interest need to be disclosed for each author on the second slide. Presentations that do not fulfil this prerequisite cannot be shown. During the presentation/discussion, open publicity for unfair and/or unsupported information about products/organisations/business should be avoided. Commercial logos or photographs should not be used (other than in the designated industry workshops).

Audio-visual Requirements for Speakers
EUROSPINE 2014 requires the speakers to adapt their audio-visual material to the technical equipment provided at the conference venue to ensure a smooth running of all sessions.
Technical & Formal Requirements
1. Each Session Room will be equipped with an i7 processor presentation laptop running Microsoft Windows 7 and Microsoft Office 2010, which leaves you in control of moving your slides back and forth.
2. Note: the Speakers’ Preview Centre and network to the session rooms support PowerPoint presentations version Microsoft Windows 7 and Microsoft office 2010 only.
3. To safeguard presentation time and quality, we hope you understand that the use of your own laptop will not be possible. All presentations need to be handed in at the Speakers’ Preview Centre at least 2 to 3 hours prior to the respective session.
4. The only presentation software supported will be Microsoft PowerPoint 2010 for Windows.
5. Please note that only single projection will be available.
6. Electronic presentations for QuickFire sessions and EUROSPINE Lunch Symposia will be projected on screens optimised for 4:3.
7. Speakers should bring their presentations saved preferably on USB memory stick. Other forms of recording like CD-R or DVD-R disk will be accepted as well.

Video or audio files
1. Please ensure that any video or audio files that are part of the PowerPoint presentation are also saved as separate video/audio files on the USB memory stick along with the PowerPoint presentation. We strongly recommend to create a folder with all the content of the presentation.
2. WMV or AVI are the only acceptable video formats. Movies must not exceed 50 MB each.

Useful information for Keynote/Macintosh users
1. If you have already prepared your presentation in Keynote on your Macintosh you are kindly asked to convert it to PowerPoint prior to the congress.
2. In case you cannot convert your keynote presentation as requested, professional staff at the Speakers’ Preview Centre will be happy to help you. To give them enough time, please hand in your presentation at the Preview Centre at least 4 to 5 hours prior to your presentation.

Saving your presentation / Font for your presentation
1. To avoid any compatibility problems, please do not use special characters (e.g. ε, etc) to name your presentation or video files.
2. When saving your presentation, please use the following format: Surname_Forename_NN.ppt (where NN is the name or the number of the presentation as it appears in the final programme).
3. When choosing fonts for your presentation, please ensure that they are supported by Microsoft Office. If a non-standard font is used within a presentation, this will result in a substitute font being inserted by PowerPoint.
4. There is no size limit for presentations uploaded onsite at the Preview Centre. However, we still recommend keeping the size as small as possible.
Join the EUROSPINE family today!

New Members Cocktail Reception

EUROSPINE has the pleasure to invite to the first "New Members Cocktail Reception".

We would like to meet all our New Members personally, as personal relationship and networking are core values of EUROSPINE membership.

» meet members of the EUROSPINE Society Board
» get to know the EUROSPINE Membership Committee
» receive your official EUROSPINE Membership Certificate

Make sure you join us at the EUROSPINE booth during the official Exhibition Opening and Welcome Reception!

Date: Wednesday, October 1, 2014
Time: Start 17:30
Place: EUROSPINE Society Booth, B 19 - Hall B

You are not yet a member of EUROSPINE, the Spine Society of Europe?
Visit our website and join the family today!
» www.eurospine.org/why-become-a-member.htm
Getting to Lyon and the Cité Internationale or The Lyon Convention Centre is easy: there are various means of transport available.

**Coming to Lyon**

- **By plane**
  - 27 French cities connected by daily, scheduled flights
  - 43 scheduled, international flights, 19 charter routes and 7 cargo routes
  - A hub for low-cost Easy Jet flights, with numerous daily flights
- **By Train**
  - 10 minutes from the Part-Dieu TGV railway station
  - 15 minutes from the Perrache railway station (Between Lyon and Paris, one TGV every 30 minutes during peak periods)
  - Express tramway between Lyon St Exupéry airport and the Part Dieu TGV station

**Coming to the Convention Center**

- **By car**
  - The Convention center is situated close to the Lyon Périphérique Nord (Northern Ring Road). Exit at "sortie Porte de Saint Clair".
  - 1½ hours from Geneva,
  - 3 hours from Turin,
  - 4 hours from Paris,
  - 4½ hours from Milan,
  - 5 hours Barcelona

- **Public transport**
  - Several buses and trolley lines linked directly to the Métro, TGV station and City Centre:
    - C1, C2 from Part Dieu Railway Station
    - C5 from Bellecour Metro Station
    - C4 from Jean Macé Metro Station
    - Bus 70 from Part Dieu Railway Station
    - C26 from Grange Blanche Metro Station
    - Reach the centre of Lyon or the Part-Dieu TGV railway station in 12 minutes
    - Express tramway between Lyon St Exupéry airport and the Part Dieu TGV station
    - 6 Vélo’v stations (pushbike rental) within easy reach

---

**Venue**

50 Quai Charles de Gaulle  -  69463 Lyon cedex 06

The Lyon Convention Centre is a unique place in Europe to host all kind of events: congresses, conferences, conventions, seminars and trade shows. Ideally situated in a beautiful setting between the River Rhone and the Parc de la Tête d’Or, which is really close to the city, the Convention Center has a fully modular surface area of 25,000 m2 that can accommodate up to 19,000 people.
About Lyon

Lyon is easy to reach by plane (a shuttle gets you from the airport to the town centre in about 40 minutes) or by high speed TGV train (two hours from Paris or Roissy-Charles de Gaulle airport).

Discover the rich historical and cultural heritage of the city of Lyon whose 2000 year-old historic centre is now a recognised Unesco World Heritage site.

A spot of history

In Roman times Lugdunum was the capital of the three Gauls and symbolized the colonial power that made it a natural outpost of Rome. In the 11th century, after the barbarian invasions, Lyon awoke from the torpor into which it had subsequently fallen. Later, the Christian Religion would have a profound influence on the city’s development. With the advent of the Renaissance, the town prospered and became a major trade centre, drawing numerous merchants and financiers. More particularly, Lyon found a new vocation at the end of the 15th century with the introduction of printing. In the middle of the 16th century the arrival of silk weavers from Italy gave birth to an industry that would continue to grow up until the 20th century. In the 18th century the town expanded as the renown of Lyon’s silk manufacturers spread across Europe. The Revolution also strongly marked Lyon when, in 1793, the Convention ordered the troops to seize the city and destroy it. In the early 1800s, Jacquard invented the celebrated mechanism that doubled the number of looms working in the city and sparked off unrest that culminated in the silk weavers’ riots. During the 19th century, the city absorbed the surrounding villages and undertook a series of major planning projects with the development of the city centre, the construction of the basilica, a hospital, schools, etc. The city continued to spread during the 20th century and in the closing decades many of its underdeveloped and insalubrious historical districts were restored.
Networking Programme

Opening & Welcome Reception
Date: Wednesday, October 1, 2014
Time: start 05:30
Place: Cité Internationale Congress Centre, Lyon

The Opening & Welcome Reception for registered participants and exhibitors will take place at the Cité Internationale Congress Centre, in the exhibition area.
The registration fee for EUROSPINE 2014 congress participants includes the attendance to the Opening & Welcome Reception.

Official Congress Evening
Date: Thursday, October 2, 2014
From 19:30 to 23:00
Place: Les Halles de Paul Bocuse - 102 Cours Lafayette - 69003 Lyon
Participation to the Official Congress Evening remains at own expense.
(rate information above, section “Congress fees”)

How to get there:
> Public transport
Metro Station: “Place Guichard”
Tramway T1 Station: “Mairie du 3”
> from the convention center:
Bus C4 from “Cité Internationale” to “Saxe Lafayette”
21 min.
> By Car: Parking LPA Halles, entry Rue Garibaldi
10 min walking distance from Part Dieu Station
EUROSPINE is honored that Mark Stevenson has accepted to give this year’s Medal Lecture: The Future And What To Do About It followed by Q&A / Discussion Thursday, October 2, 11:25 Plenary Hall

Mark Stevenson
Mark Stevenson is a writer, ideas generator and futurist. He is author of the bestselling book, An Optimist’s Tour of the Future”, which was described by The Wall Street Journal as "sharp and fascinating". His skill is an ability to take complex or abstract concepts and trends and make them understandable by non-specialists.

Mark is co-founder of Flow Associates, a learning agency which develops optimum environments for creative innovation tied to critical thinking. He works with institutions, governments, corporations and schools all over the world looking at how the future will impact on them.

Mark is futurologist-in-residence at Primary Energy Research and sits on the advisory boards of Virgin Earth Challenge and Every1Mobile, which builds large-scale social networks on mobile devices in developing economies.

Mark’s numerous appearances in the media include interviews and profiles in the US, South America, Europe and Australia & New Zealand. He has recently had in-depth coverage in The Guardian (UK), Brand Eins (Germany), El Mundo (Spain), The Wall Street Journal (US) and ABC (Australia). He has also written for The Times, The Wall Street Journal, The Guardian, The Economist, The Daily Telegraph, and The New Statesman.

Mark is a fellow of the Royal Society for the encouragement of Arts, Manufactures and Commerce, Nibmaster General at the Ministry of Stories and the founder of The League of Pragmatic Optimists, an organisation that creates meeting places in cities and towns across the globe “where people who want to make the world better can meet, generate ideas and projects, get inspiration and find collaborators.”

Mark’s is an excellent public speaker probably helped by a previous career as a stand-up comedian. His recent speaking engagements include The Economist, The US National Space Symposium, IBM, Michigan School of Art and Design, Oxford University and Abbott Healthcare.

Press Conference

Wednesday, October 1
11:30 I Room Bellecour 1
(level - 1, just in front of the main auditorium)
International press conference at EUROSPINE 2014 in Lyon
Medical devices prices are controlled by the government in France. This leads to the lowest prices in europe. France was the leading country for innovation in spine: pedicular screws, Cotrel Dubousset intrumentation, navigation, assisted surgery etc... Unfortunately innovation is not promoted anymore due to the lack of financial support in relation with no benefit by the companies. Some major companies left France and their products are not distributed anymore in our country.

What should be the compromise between acceptable prices for the reimbursement health care system and capacity of financing innovation by companies?
Day surgery is an other major topic. Promoted by the health care system to save money, it seems to be a good solution for many pathologies but who must dictate the limits? safety must be included in the decision parameters and not only economical considerations.

Media participation at the press conferences is subject to accreditation by the EUROSPINE Media Liaison Office. Accreditation is reserved for official members of the press: chloe.paul@mcocongres.com
Decompression and Coflex Interlaminar Stabilization Compared With Decompression and Instrumented Spinal Fusion for Spinal Stenosis and Low-Grade Degenerative Spondylolisthesis

Two-Year Results From the Prospective, Randomized, Multicenter, Food and Drug Administration Supplementation Trial

D. Auerbach, MD$'

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The Better Solution for Spinal Stenosis Patients.*
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www.paradigmspine.com

From the *Greater Baltimore Neurosurgical Associates, Baltimore, MD; §Department of Orthopaedic Surgery, Hospital for Joint Diseases-NYU, New York, NY; ¶The Spine Institute, Santa Monica, CA; and #Department of Orthopaedics, Bronx-Lebanon Hospital Center, Albert Einstein College of Medicine, Bronx, NY.


The device(s)/drug(s) that is/are the subject of this manuscript is/are Now FDA-approved and no longer under investigation.

Paradigm Spine, LLC (New York, NY) funds were received in support of this work.

Relevant financial activities outside the submitted work: consultancy, lecture, payment for manuscript preparation, patents, royalties, or other relationships.

Claudication Questionnaire (symptom severity \( P = 0.023 \); physical activity \( P = 0.008 \)); satisfaction \( P = 0.006 \). Based on the Food and Drug Administration composite for overall success, 66.2% of Coflex and 57.7% of fusions succeeded \( P = 0.999 \), thus demonstrating noninferiority. The overall adverse event rate was similar in both groups, but Coflex had a higher reoperation rate (7.5%, \( P = 0.426 \)). At 2 years, fusions exhibited increased success (25.9% vs. 16.1%) and a trend toward increased translation (2.2 mm at the superior adjacent level, whereas Coflex maintained operative and adjacent level motion.

Conclusion. Coflex interlaminar stabilization is an efficacious alternative, with certain advantages compared to lumbar spinal fusion in the treatment of spinal stenosis, degenerative spondylolisthesis.

Key words: Coflex interlaminar stabilization, spinal stenosis, degenerative spondylolisthesis.

Level of Evidence: 1
Spine 2013;38:1529-1539

*Based on the Outcomes of the coflex® Interlaminar Technology PMA (P110008).

The recent Spine Patient Outcomes Research Trial (SPORT) studies and others have demonstrated the superior efficacy of laminectomy compared with fusion. We have confirmed the use and...
Information on Scientific Programme

Debates
EUROSPINE 2014 Debates
There will be two debates about common, but hopefully stimulating topics with the intention to stimulate thinking and discussions on areas of controversy and to explore areas of consensus. The audience will be asked for their vote on the case management before and after the presentations to see if they could be persuaded to change their views as a result of the arguments presented.

Wednesday, October 1, 2014
11:00-12:00  Odontoid Typ II Fracture in Elderly has the Best Outcome with Surgery
Room : Plenary Hall
Moderator : Selçuk Palaoğlu, Ankara – Turkey
Against : Claes Olerud, Uppsala – Sweden
For : Christoph Josten, Leipzig – Germany

Thursday, October 2, 2014
15:50-16:35  I always stop at L5
Room : Plenary Hall
Moderator : Josef Grohs, Vienna – Austria
Rune Hedlund, Gothenburg – Sweden : I never fuse to the sacrum
Pierre Roussouly, Lyon – France : I always fuse to the sacrum

E-Posters
The E-Posters will be accessible for the participants during the whole meeting in Hall Bellecour and later on here : http://eposterlyon.eurospine.org

Presentation types
All abstracts were graded by a minimum of four reviewers by means of a blind peer review process. Only about 20% of the submissions were accepted for podium presentation.
Regular Presentations : 5 min + 2 min disc.
QuickFire presentations : 3 min + 2 min disc.

App-Rating: Each of the marked presentations shall be rated by the audience by assigning 1 (worst) to 5 (best) stars in following categories: topics, content, performance.

Best Podium Presentation: will be evaluated within the Best of Show papers (Friday, 10:30-12:00). Again with the audiences’ support and rating.

App-Voting : In marked presentations the audience is invited to vote on specific questions via the EUROSPINE app.
Download the new version of the EUROSPINE smartphone app from the App Store and enhance your conference experience with its features:

- Use the audience response system to rate presentations and participate in live voting sessions.
- Get the latest news from EUROSPINE automatically on the front page.
- Have the full congress program in your pocket – speakers, sessions and lecture rooms.
- Let the interactive floor plan guide you to your seminar rooms, halls and exhibition booths.
- Enjoy all the latest conference information both online and offline.
- Bookmark your favourite sessions and automatically get reminded by the app.
- Download the app for your iOS-device (iPhone and iPad), Android-smartphone or use the web app for all other smartphones.

For more information please visit app.eurospine.org
Scientific Programme

Overview
**WEDNESDAY, OCTOBER 01, 2014**

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<th>Location</th>
<th>Session/Activity</th>
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<td>08:30 - 10:00</td>
<td>Plenary Hall</td>
<td>Opening &amp; Thoraco-Lumbar Spine, degenerative I</td>
</tr>
<tr>
<td>10:00 - 10:30</td>
<td></td>
<td>Coffee Break</td>
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<tr>
<td>10:30 - 12:00</td>
<td>Plenary Hall</td>
<td>Keynote Lecture &amp; Debate</td>
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<tr>
<td>12:00 - 14:00</td>
<td>Plenary Hall</td>
<td>EUROSPINE Symposium 1, Cervical Spine Trauma</td>
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<td></td>
<td>Plenary Hall</td>
<td>EUROSPINE Symposium 2, Spine Education in Europe</td>
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<tr>
<td>14:00 - 15:20</td>
<td>Plenary Hall</td>
<td>Cervical Spine</td>
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<tr>
<td>15:20 - 15:50</td>
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<td>Coffee Break</td>
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<tr>
<td>15:50 - 17:30</td>
<td>Plenary Hall</td>
<td>Thoraco-Lumbar Spine, non degenerative</td>
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Start 17:30
- Welcome recital (Plenary Hall)
- Welcome Reception in Exhibition Halls A & B

**THURSDAY, OCTOBER 02, 2014**

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<tr>
<th>Time</th>
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<td>Plenary Hall</td>
<td>Degenerative, Scoliosis</td>
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<td>10:00 - 10:30</td>
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<td>Coffee Break</td>
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<tr>
<td>10:30 - 12:00</td>
<td>Plenary Hall</td>
<td>Presidential Address, Medal &amp; Awards Lectures</td>
</tr>
<tr>
<td>12:00 - 14:00</td>
<td>Plenary Hall</td>
<td>EUROSPINE Symposium 3, Economic Evaluations in Spinal Medicine</td>
</tr>
<tr>
<td>14:00 - 15:20</td>
<td>Plenary Hall</td>
<td>Thoraco-Lumbar Spine, degenerative II</td>
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<tr>
<td>15:20 - 15:50</td>
<td></td>
<td>Coffee Break</td>
</tr>
<tr>
<td>15:50 - 16:35</td>
<td></td>
<td>Debate</td>
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</table>

Start 16:45
- EUROSPINE General Assembly (for members only)

Start 19:30
- Official Congress Evening (Paul Bocuse Halls) – At own expense
<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Event Details</th>
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<tbody>
<tr>
<td>08:30 – 10:00</td>
<td>Plenary Hall (Level 0)</td>
<td>Growing Spine</td>
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<td>10:00 – 10:30</td>
<td></td>
<td>Coffee Break</td>
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<tr>
<td>10:30 – 12:00</td>
<td></td>
<td>Best of Show a Papers</td>
</tr>
<tr>
<td>12:00 – 14:00</td>
<td>Plenary Hall (Level 0)</td>
<td>EUROSPINE Symposium 5, Overcoming Obstacles to Recovery in the Lumbar Spine</td>
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<td>Room Rhône 3AB (Level 1)</td>
<td>EUROSPINE Symposium 6, Ankylosis Spondylitis</td>
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<td></td>
<td>Room Rhône 2 (Level 1)</td>
<td>EUROSPINE Symposium 4, Pyogenic Spinal Infections</td>
</tr>
<tr>
<td>14:00 – 15:30</td>
<td>Room Rhône 1 (Level 1)</td>
<td>Quick Fire Thoraco-Lumbar Spine, degenerative</td>
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<td></td>
<td>Room Bellecour 1 (Level -1)</td>
<td>Quick Fire Cervical Spine</td>
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<td></td>
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<td>Quick Fire Growing Spine</td>
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<td></td>
<td></td>
<td>Quick Fire Thoraco-Lumbar Spine, non degenerative</td>
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<tr>
<td></td>
<td></td>
<td>Quick Fire Basic Science / Other</td>
</tr>
<tr>
<td>15:30</td>
<td>Adjourn / End</td>
<td></td>
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</tbody>
</table>
EUROSPINE: Société Européenne de la Colonne vertébrale
30 septembre 2014, 9:30-12:30h
Conférence Grand Public
Cité Internationale, LYON
Salon Rhône 2
Langue: français
Entrée libre

Sujet: "Mal au dos et chirurgie"

CONFÉRENCE - DÉBAT:

Modération
C Barrey

Introduction
P Sell, JC LeHuec

Patient Line:
Site à l'attention des patients
A Faunède

Quelles sont les structures anatomiques en cause?
C Barrey

Mal au dos et sciatique: Même maladie?
G Perrin

Mon enfant, mon ado a mal au dos
C Garin

Que faire avant de consulter le chirurgien?
N Fraisse

Opérer, pourquoi faire?
Pour quels résultats?
E Favreul

J'ai été opéré mais j'ai toujours mal:
Que faire?
B Debono

Chirurgie du dos et activités sportives
J Huppert

Scoliose: Quand et comment opérer?
P Roussouly

Quand la douleur devient chronique
P Volckmann

Session de questions et réponses

Plus d'informations et inscription:
www.eurospinetmeeting.com/journee_publique
contact@eurospine2014.eu
EUROSPINE, the Spine Society of Europe
Seefeldstr. 16, 8610 Uster-Zurich, Switzerland

Localité:
Cité | Centre des Congrès | Lyon
50 Quai Charles de Gaulle, 69463 Lyon cedex 06
Scientific Programme

Tuesday, September 30, 2014
Pre-Day Course Programme
Tuesday, September 30, 2014

10:00  ■ On-site Registration for pre-day Courses

17:00-19:00  ■ EUROSPINE on-site Registration with a free drink when taking advantage of registering the evening beforehand!

Sagittal Balance

Room: Rhône 3A
Chair: Jean-Charles Le Huec (France)
Faculty: Cédric Barrey (France), Daniel Chopin (France), Alexis Faline (France), Antonio Faundez (Switzerland), Vincent Fiere (France), Stephan Parent (Canada), Pierre Roussouly (France), Marc Szadkowski (France)

12:00-13:00  ■ Welcome and Lunchbox

13:00-17:00  ■ Courses

13:00-15:00  ■ Basic principles of pelvic parameters. A. Faundez
■ New classification of spine shape according to Roussouly. JC. Le Huec
■ Demonstration of digitalized spine shape analysis. Ph. Roussouly
■ Influence of spinal parameters on spine diseases occurrence. C. Barrey
■ The contact force theory. P. Roussouly
■ High grade spondylysis analysis and surgical treatment. D. Chopin

15:00-15:30  ■ Coffee Break

15:30-17:00  ■ Symptomatic one level DDD modic 1 L4L5: How I manage the balance. M. Szadkowski
■ Symptomatic one level degen spondy L4L5: How I manage the balance. V. Fiere
■ Symptomatic one level lumbar stenosis L4L5–L5S1: How I manage the balance. A. Faundez
■ Symptomatic de novo lumbar scoliosis: How I manage the balance. P. Roussouly
■ Symptomatic ankylosing spondylitis thor–lumbar kyphosis: How I manage the balance. JC. Le Huec
■ Symptomatic imbalanced thoraco–lumbar scoliosis How I manage the frontal imbalance: analysis of open and close dislocation. A. Faline
■ How I manage the frontal and sagittal imbalance simultaneously. D. Chopin
■ Proximal junctionnal kyphosis: etiology and treatment. S. Parent
Cervical Myelopathy:
Current concepts and controversies

Room: Rhône 3B
Chair: Hugues Pascal Moussellard (France)
Faculty: Philip Bancel (France), Bernard Jeanneret (Switzerland), Ralph Kothe (Germany), Claes Olerud (Sweden) Luca Papavero (Germany), Yann Péron (France)

12:00‐13:20 Basics
- Welcome and introduction. HP. Moussellard
- Clinical Anatomy. C. Olerud
- Balance and biomechanics. R. Kothe
- Clinical presentation and evaluation. P. Bancel
- The role of Electrophysiology. Y. Péron
- Radiographic evaluation. P. Moussellard
- Natural course of cervical stenosis and indication for surgery. B. Jeanneret
- Discussion

13:20‐13:50 Break

13:50‐15:00 Surgical treatment
- Surgical approach and fixation: decision making. L. Papavero
- Anterior techniques. B. Jeanneret
- Posterior techniques. R. Kothe
- Complications. C. Olerud
- Postoperative evolution (recovery, prognosis). L. Papavero
- Acute on chronic: trauma and cervical stenosis. P. Bancel
- Discussion

15:00‐15:30 Break

15:30‐16:45 Case presentations and interactive discussion

16:45‐17:00 Conclusions
Hugues Pascal Moussellard

Note:
Separate Registration is needed:
NEW

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Fax +1 949 850 3473
Mail info@joimaxusa.com
Net www.joimaxusa.com
Scientific Programme

Wednesday, October 1, 2014
07:30  on-site Registration

08:30  OPENING
Local Hosts

08:33  WELCOME ADDRESS
EUROSPINE President, Phil Sell, Leicester, UK

08:36  INTRODUCTION TO THE SCIENTIFIC PROGRAM
The blinded peer review process of the program committee
Thomas Blattert, Schwarzach, Germany, Chair Program Committee 2014

08:40-10:00 Thoraco-Lumbar Spine, Degenerative I
Room: Plenary Hall
Chairs: Claudius Thomé, Innsbruck, Austria; Pierre Roussouly, Lyon, France

1 WHAT LEVEL OF PAIN ARE PATIENTS PREPARED TO LIVE WITH AFTER SURGERY FOR LUMBAR DEGENERATIVE DISORDERS?
Tamas F Fekete, Frank S Kleinstück, Daniel Haschtmann, Dezsö Jeszenszky, Francois Porchet, Anne F Mannion
Schulthess Klinik, Zürich, Switzerland

2 CLINICAL STUDY ON LUMBAR CORTICAL SCREWS IN ELDERLY AND OSTEOPOROTIC PATIENTS. A NOVEL TECHNIQUE IN SCREW POSITIONING.
Duccio Boscherini, Ramona Guastalla, Sylvain Duc
Cliniques de La Source - Hôpitaux Universitaires Genève

3 A 5-YEAR PROSPECTIVE STUDY INTO WHETHER PSEUDARTHROSIS AFTER POSTERIOR LUMBAR INTERBODY FUSION (PLIF) CAUSES LOWER BACK PAIN
Tokumi Kanemura, Kotaro Satake, Hidetoshi Yamaguchi, Yoshimoto Ishikawa, Akiyuki Matsumoto, Zenya Ito, Shiro Imagama
Konan Kosei Hospital, Spine Center

4 ADJACENT DISC DEGENERATION AND FACET JOINT ARTHRITIC CHANGE AFTER LUMBAR FUSION: WHICH IS MORE AFFECTED?
Chang-Hoon Jeon, Nam-Su Chung, Han-Dong Lee, Seong-Youn Lim
Department of Orthopaedic Surgery, Ajou University School of Medicine, Suwon, Republic of Korea

5 TERGETED THERAPY OF LOW BACK PAIN ASSOCIATED WITH DE NOVO DEGENERATIVE LUMBAR SCOLIOSIS IN THE ELDERLY: PROSPECTIVE OBSERVATION COHORT STUDY
Kiyotaka Yamada, Yoshinori Fujimoto, Toshio Nakamae, Osami Suzuki, Takashi Hashimoto, Masaki Matsuura, Taiki Morisako
Hiroshima General Hospital
6 SPINAL FUSION IS ASSOCIATED WITH INCREASED ADJACENT SEGMENT DISC DEGENERATION, WITHOUT CLINICAL CONSEQUENCE: LONG-TERM FOLLOW-UP OF FOUR RCTS
Anne F Mannion, Gunnar Leivseth, Jens Ivar Brox, Peter Fritzell, Olle Hägg Schulthess Klinik, Zürich, Switzerland

7 ARE CURRENT IN VITRO BIOMECHANICAL PROTOCOLS SUITABLE TO EXPLAIN THE DEGENERATION OF ADJACENT SEGMENTS?
Hans-Joachim Wilke¹, David Volkheimer¹, Masoud Malakoutian², Thomas R. Oxland²,³
¹) Institute of Orthopaedic Research and Biomechanics, Center of Musculoskeletal Research (zmfu), University of Ulm, Germany; ²) Department of Mechanical Engineering, University of British Columbia, Vancouver, Canada; ³) Department of Orthopaedics, University of British Columbia, Vancouver, Canada

8 THE DIFFERENCE OF OCCURRING SUPERIOR ADJACENT SEGMENT PATHOLOGY AFTER LUMBAR POSTEROLATERAL FUSION BY USING TWO DIFFERENT PEDICLE SCREW INSERTION TECHNIQUES IN 9-YEAR MINIMUM FOLLOW-UP
Dingjun Hao, Baorong He, Liang Yan Spine Surgery, Xi’an, China

10:00-10:30 BREAK

10:30-12:00 Keynote Lecture and Debate
Room: Plenary Hall
Introduction: Phil Sell, Leicester, UK

10:30 Sagittal Balance is not Sagittal Contour
Jean-Charles LeHuec, CHU Pellegrin Tripode, Bordeaux, France

11:00 Debate: Odontoid Type II Fracture in the Elderly has the Best Outcome with Surgery
Moderator: Selçuk Palaoğlu, Ankara, Turkey
Against: Claes Olerud, Uppsala, Sweden
For: Christoph Josten, Leipzig, Germany

12:00-14:00 EUROSPINE LUNCH SYMPOSIA, Wednesday, October 1

12:00 EUROSPINE LUNCH SYMPOSIUM 1
Auditorium Lumière
Cervical Spine Trauma
Chairs: Frank Kandziora, Frankfurt, Germany; Max Aebi, Bern, Switzerland

12:00 Atlas fractures – Indication for surgery?
Matti Scholz, Frankfurt, Germany
12:15 Discussion
12:20 Traumatic spondylolisthesis of the axis – anterior or posterior stabilisation?
Frank Kandziora, Frankfurt, Germany
12:35 Discussion
12:40 Subaxial facet joint lesion – is there a standard treatment?
Max Aebi, Bern, Switzerland
12:55 Discussion
13:00 C-spine fractures in ankylosing spondylitis – pearls and pitfalls
Cumhur F. Oner, Utrecht, the Netherlands
13:15 Discussion
13:20  C-spine fractures in children – when to operate?
Bronek M. Boszczyk, Nottingham, UK

13:25  Discussion

12:00  EUROSPINE LUNCH SYMPOSIUM 2
Auditorium Pasteur
Spine Education in Europe
Chair: Haluk Berk, Izmir, Turkey; Bernhard Meyer, Munich, Germany

12:15  Introduction – Why do we need such education?
Haluk Berk, Izmir, Turkey; Bernhard Meyer, Munich, Germany

12:25  Spine education from EANS perspective
Bernhard Meyer, Munich, Germany

12:40  Spine education from EFORT perspective
Jorge Mineiro, Barcarena, Portugal

12:55  UEMS and legal perspective: Multidisciplinary Joint Committee on Spine Surgery
Robert Gunzburg, Antwerpen, Belgium

13:05  European Spine Curriculum: A joint effort
Haluk Berk, Izmir, Turkey

13:15  EUROSPINE, the Spine Society of Europe/EUROSPINE foundation: European Spine Diploma and beyond
Jörg Franke, Dortmund, Germany

13:30  Round Table Discussion

14:00-15:20  Cervical Spine
Room: Plenary Hall
Chairs: Tim Pigott, Liverpool, UK; Bernhard Meyer, Munich, Germany

9  PRE-VALIDATION PROCESS OF THE AO SUBAXIAL CERVICAL SPINE CLASSIFICATION SYSTEM
Frank Kandziora, Alex Vaccaro, Bizhan Aarabi, Christopher Kepler, Kris Radcliff, Klaus Schnake, Luiz Vialle, Cumhur Oner, Marcel Dvorak, John Koerner, Michael Fehlings, Shanmuganathan Rajasekaran, Maximilian Reinhold
Berufsgenossenschaftliche Unfallklinik Frankfurt am Main

10  REVERSE POISSON’S EFFECT FOLLOWING DECOMPRESSION OF SPONDYLOTIC CERVICAL MYELOPATHY IN ACCORDANCE WITH OUTCOME
Marin Stancic, Ivana Stancic, Petra Barl
University Hospital Center Zagreb

11  ADJACENT SEGMENTS PATHOLOGY REQUIRING SURGERY FOLLOWING ANTERIOR CERVICAL ARTHRODESIS - SURVIVORSHIP AND RISK FACTOR ANALYSIS OF 1038 PATIENTS -
Jae Chul Lee, Sang-Hun Lee, Colleen Peters, K. Daniel Riew
Cervical Spine Service, Department of Orthopedic Surgery, Washington University School of Medicine, St. Louis, MO 63110, USA

12  FDA IDE CLINICAL TRIAL RESULTS THROUGH 48 MONTHS: ONE-LEVEL TDR VERSUS ACDF
Jean-Paul Steib, Michael S.Hisey
(1) CHU Strasbourg, Strasbourg, France, (2) Texas Back Institute, Denton, TX USA
13 TWO-LEVEL ANTERIOR CERVICAL DISCECTOMY WITH FUSION: DOES ANTERIOR CERVICAL PLATE FIXATION INFLUENCE RADIOGRAPHIC AND PATIENT-RATED OUTCOMES?  
Jan-Karl Burkhardt, Anne F Mannion, Serge Marbacher, Frank Kleinstück, Dezső Jeszenszky, François Porchet  
Spine Center, Schulthess Clinic Zurich, Switzerland

14 POSTOPERATIVE FORAMINAL DIAMETER SHOULD BE MORE THAN 1.9 MM TO PREVENT IATROGENIC FORAMINAL STENOSIS AFTER CERVICAL PEDICLE SCREW FIXATION  
Akiyoshi Yamazaki, Tomohiro Izumi, Yu Sato, Tatsuki Mizouchi, Ryuta Fujikawa  
Niigata Central Hospital

15 A NEW ENTRANCE TECHNIQUE FOR C2 PEDICLE SCREW PLACEMENT AND THE USE IN PATIENTS WITH ATLANTOAXIAL INSTABILITY  
Jiaming Liu1, Jian Jiang2, Zhili Liu1, Xinhua Long1, Wenzhao Chen1, Yang Zhou1, Song Gao2, Laichan He2, Shanhu Huang1  
1) Department of Orthopedic Surgery, the First Affiliated Hospital of Nanchang University, Nanchang, 330006, P.R. China 2) Department of Radiology, the First Affiliated Hospital of Nanchang University, Nanchang, 330006, P.R. China, Nanchang, China

16 POSITIONAL CHANGE OF HYOID BONE AFTER ANESTHESIA IN ANTERIOR SURGERY OF UPPER CERVICAL SPINE  
Kwang-Bok Lee, Yong-Jin Kim, Joo-Rang Lee, In-Sung Huh, Seung-Min Choi, Kyung-Jin Song, Ki-Tae Park  
Chonbuk National University Medical School, Chonbuk National University Hospital

17 PREVALENCE OF HIGH RIDING VERTEBRAL ARTERY AND MORPHOMETRY OF C2 VERTEBRA USING THE NEW CT RECONSTRUCTION TECHNIQUE 
Thamrong Lertudomphonwanit, Praman Fuangfa, Phanunan Sasiprapha, Wiwat Wajanavisit, Supaneewan Jaovisidha  
Department of Orthopaedics, Faculty of Medicine Ramathibodi Hospital, Mahidol University

18 PICA END VERTEBRAL ARTERY: NORMAL VARIATION AND POTENTIAL RISK FOR CERVICAL INSTRUMENTATION 
Takeshi Aoyama, Naoshi Obara  
Spine Center, Department of Orthopaedic Surgery, Teine Keijinkai Hospital, Sapporo, Japan

15:20-15:50 BREAK

15:50-17:30 Thoraco-Lumbar Spine, Non Degenerative  
Room: Plenary Hall  
Chairs: Cédric Barrey, Lyon France; Antonio Faundez, Geneva, Switzerland

19 SURGICAL CORRECTION OF POSTTRAUMATIC SHARP ANGULAR KYPHOSIS WITH PVCR  
Meric Enercan, Sinan Kahraman, Mesut Kılıç, Faik Seckin, Cagatay Ozturk, Mercan Sarier, Ahmet Alanay, Azmi Hamzaoglu  
Istanbul Spine Center
VERTEBROPLASTY WITH POSTERIOR SPINAL FUSION FOR PSEUDOARTHROSIS OF OSTEOPOROTIC THORACO-LUMBAR VERTEBRAL FRACTURE: A PROSPECTIVE MULTICENTER STUDY
Keichi Katsumi, Toru Hirano, Kei Watanabe, Masayuki Ohashi, Naoto Endo, Akiyoshi Yamazaki, Takui Ito, Kimihiko Sawakami, Atsuki Sano, Ren Kikuchi
Niigata University Medical and Dental General Hospital

A COMPARISON BETWEEN UNILATERAL TRANSVERSE PROCESS-PEDICLE AND BILATERAL PUNCTURE TECHNIQUES IN PERCUTANEOUS KYPHOPLASTY
Dingjun Hao, Baorong He, Liang Yan
Spine Surgery, Xi’an, China

APOPTOSIS AND AUTOPHAGY IN THERAPEUTIC HYPOTHERMIA AFTER SPINAL CORD INJURY IN RAT
Jun-Yeong Seo, Young-Hoon Kim, Kee-Yong Ha
Jeju National University Hospital

UPREGULATION OF RIP3 EXPRESSION AND INVOLVEMENT OF NECROPTOSIS IN NEURAL TISSUE DAMAGE AFTER SPINAL CORD INJURY
Haruo Kanno, Hiroshi Ozawa, Satoshi Tateda, Kenichiro Yahata, Eiji Itoi
Department of Orthopaedic Surgery, Tohoku University School of Medicine

REMNANT PAIN AFTER VERTEBROPLASTY IN OSTEOPOROTIC VERTEBRAL COMPRESSION FRACTURE: ROLE OF ZYGOPHYSEAL JOINT
Gyu Yeul Ji, Chang Hyun Oh, Won-Seok Choi, Dong Ah Shin, Young Sul Yoon, Keung Nyun Kim
Department of Neurosurgery, Guro Teun Teun Hospital, Seoul, Korea; Department of Neurosurgery, 3Spine and Spinal Cord Research Institute, Yonsei University College of Medicine, Seoul, Korea

IS POST-TRAUMA DISC DEGENERATION AGGRAVATED BY LOADING OR MONO-NUCLEAR CELL HOMING?
Stephen Ferguson, Davide Boffa, Stefan Dudli
ETH Zurich, Institute for Biomechanics, Switzerland

LONG-TERM OUTCOMES IN PRIMARY, SPINAL OSTEOCHONDROMA: A MULTICENTER STUDY OF 27 PATIENTS
Peter Varga, Mohamed Macki, Mohamad Bydon, Daniel Scuibba, Jean-Paul Wolinsky, Charles Fisher, Jeremy Reynolds, Laurence Rhines, Dean Chou, Zsolt Szövérfi, Ziya Gokaslan
AOSpine International

HEMANGIOMAS OF THE SPINE: RESULTS OF SURGICAL MANAGEMENT AND PROGNOSTIC VARIABLES FOR LOCAL RECURRENCE AND MORTALITY IN A MULTICENTER STUDY
Christina L. Goldstein, Peter Pal Varga, Ziya L. Gokaslan, Stefano Boriani, Alessandro Luzzatti, Laurence D. Rhines, Charles G. Fisher, Dean Chou, Nasir A. Quraishi, Michael G. Fehlings
Nottingham University Hospital NHS Trust, Centre for Spinal Studies & Surgery, Queen’s Medical Centre campus, UK
28 VALIDATION OF THE SPINAL INSTABILITY NEOPLASTIC SCORE (SINS); A RETROSPECTIVE ANALYSIS
Anne Versteeg, Cumhur Oner, Charles Fisher, Jorrit-Jan Verlaan
University Medical Center Utrecht, University of British Columbia, Blusson Spinal Cord Centre

29 PALLIATIVE SURGERY IMPROVES PAIN AND QUALITY OF LIFE IN MULTIPLE MYELOMA PATIENTS WITH SPINAL OSTEOLYTIC LESIONS
Panagiotis Korovessis, Vasileios Syrimpeis, Vasilis Vitsas, Panagiotis Zikos, Peter Fennema
General Hospital of Patras, Greece

30 THE USE OF INTRAOPERATIVE CELL SALVAGE IN METASTATIC SPINE TUMOUR SURGERY: CHALLENGING AN OLD MYTH
Naresh Kumar, Aye Sandar Zaw, Qasim Ahmed, Victor Lee, Raymond Goy, Hee-Kit Wong
National University Health System

17:30 WELCOME RECEPTION
Exhibition Area
Eurospine 2014 Lunch Workshop

Less Invasive Solutions: Complex Spine Pathology

Thursday, October 2nd, 12:00 to 2:00pm
Room: Bellecour 1 at Level - 1
Visit us at booth B18 – Hall B

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  Mr. Michael Wong, Royal Melbourne Hospital - Australia

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Scientific Programme

Thursday, October 2, 2014
08:30-10:00 Degenerative, Scoliosis
Room: Plenary Hall
Chair: Jörg Franke, Dortmund, Germany; Marco Brayda-Bruno, Milan, Italy

31 IMPACT OF PELVIC INCIDENCE ON THE SAGITTAL LUMBO-PELVIC ALIGNMENT IN STANDING-UP FROM A SITTING POSITION
Hidekazu Suzuki, Kenji Endo, Hirosuke Nishimura, Hidetoshi Tanaka, Takaaki Shishido, Kengo Yamamoto
Department of Orthopedic Surgery, Tokyo Medical University

32 LOWER LUMBAR CURVE IS MORE IMPORTANT FOR OPTIMAL SAGITTAL SPINO-PELVIC ALIGNMENT IN ADULT SPINAL DEFORMITY
Tatsuya Yasuda, Tomohiko Hasegawa, Yu Yamato, Sho Kobayashi, Daisuke Togawa, Hideyuki Arima, Yukihiro Matsuyama
Hamamatsu Univ. School of Medicine

33 PEDICLE SCREW INSERTION ACCURACY USING O-ARM, ROBOTIC GUIDANCE OR FREEHAND TECHNIQUE: A COMPARATIVE STUDY
Pietro Aleri Laudato, Katarzyna Pierzchala, Constantin Schizas
CHUV (Centre Hospitalier Universaire Vaudois); Clinique Cecil

34 PREOPERATIVE PLANNING AND PATIENT SPECIFIC RODS FOR SURGICAL TREATMENT OF THORACOLUMBAR SPINE IMBALANCE.
Vincent Fiere, Marc Szadkowski, Alexis Faline
Centre orthopédique Santy - Spinal surgery

35 ASSOCIATION OF VERTEBRAL BONE MARROW EDEMA WITH LOW BACK PAIN IN DEGENERATIVE LUMBAR SCOLIOSIS IN THE ELDERLY: CROSS-SECTIONAL OBSERVATIONAL STUDY
Kiyotaka Yamada, Yoshinori Fujimoto, Toshio Nakamae, Osami Suzuki, Takashi Hashimoto, Masaki Matsuura, Taiki Morisako
Hiroshima General Hospital

36 CORRELATION BETWEEN FUNCTIONAL OUTCOMES AND SAGITTAL BALANCE FOR PATIENTS WHO UNDERWENT A SHORT LUMBAR SPINE FUSION: A 4 YEARS PROSPECTIVE STUDY.
Ahmed Benzakour, Cedric Maillot, Antoine Fourgeaux, Hugues Demezon, Stephane Aunoble, Jean-Charles Le Huec
Deterca Bordeaux University

37 CLINICAL TOLERANCE TO SAGITTAL IMBALANCE VARIES WITH AGE
Ferran Pellisé, Alba Vila-Casademunt, Montse Domingo-Sábat, Joan Bagó, Ahmet Alanay, Ibrahim Obeid, Francisco J Sánchez Pérez-Grueso, Emre Acaroglu, ESSG European Spine Study Group
Hospital Universitari Vall Hebron; Acibadem Maslak Hospital; Pellegrin Hospital; Hospital Universitario La Paz; Ankara Spine Center
38 GLOBAL TILT: A SINGLE PARAMETER INCORPORATING THE SPINAL AND PELVIC SAGITTAL PARAMETERS AND LEAST AFFECTED BY PATIENT POSITIONING
Louis Boissière, Ibrahim Obeid, Jean-Marc Vital, Frank Kleinstück, Ferran Pellisé Urquiza, Francisco J. Sanchez Perez-Grueso, Ahmet Alanay, Emre Acarolu, ESSG Bordeaux University Hospital, Spine Unit

39 POSTOPERATIVE SPINE AND SPINAL IMPLANTS INSTABILITY AS COMPLICATIONS OF TREATMENT OF THE RIGID SCOLIOTICAL DEFORMATION IN ADULT AND ELDERLY PATIENTS.
Dmitry Ptashnikov, Dmitry Mikhailov, Sergey Masevin
Vreden Russian Research Institute of Traumatology and Orthopedics

40 A LOGISTIC REGRESSION MODEL TO PREDICT COMPLICATIONS IN COMPLEX DEFORMITY SPINE SURGERY
Ferran Pellisé, Alba Vila-Casademunt, Lidia Mora, Maria José Colomina, Montse Domingo-Sàbat, Ibrahim Obeid, Francisco J Sanchez Perez-Grueso, Ahmet Alanay, Emre Acaroglu, ESSG European Spine Study Group
Hospital Universitari Vall Hebron; Hospital Pellegrin; Hospital Universitario La Paz; Acibadem Maslak Hospital; Ankara Spine Center

41 SAFETY AND EFFICACY OF OSTEOTOMIES IN ADULT SPINAL DEFORMITY (ASD): WHAT HAPPENS IN THE FIRST YEAR ?
Emre Acaroglu, Selim Ayhan, Bilal Aykac, Selcen Yuksel, Umit Ozgur Guler, Ferran Pellisé, Ahmet Alanay, Francisco J. Sanchez Perez-Grueso, European Spine Study Group
Ankara Spine Center, Ankara, Turkey; Department of Biostatistics, Yildirim Beyazit University, Ankara, Turkey; Hospital Universitari Vall d’Hebron, Barcelona, Spain; Acibadem Maslak Hospital, Istanbul, Turkey; Hospital Universitari La Paz, Madrid, Spain

10:00-10:30 BREAK

10:30-12:00 Presidential Address, Medal and Awards Lectures
Room: Plenary Hall
Chair: Everard Munting, Biez, Belgium; Haluk Berk, Izmir, Turkey

10:30 Winner of the 2014 EUROSPINE Full Paper Award
IMPACT ON HEALTH RELATED QUALITY OF LIFE OF ADULT SPINAL DEFORMITY (ASD) COMPARED WITH OTHER CHRONIC CONDITIONS
Ferran Pellisé1, Alba Vila-Casademunt2, Montse Ferrer2, Montse Domingo-Sàbat2, Juan Bago1, Francisco J Sanchez Perez-Grueso4, Ahmet Alanay5, Anne F Mannion6, Emre Acaroglu7, ESSG European Spine Study Group
1) Spine Surgery Unit, Hospital Vall d’Hebron, Barcelona, Spain; 2) Spine Research Unit, Vall d’Hebron Institute of Research, Barcelona, Spain; 3) Health Services Research Group, IMIM (Hospital del Mar Medical Research Institute), Barcelona, Spain; 4) Spine Surgery Unit, Hospital Universitario La Paz, Madrid, Spain; 5) Spine Surgery Unit, Acibadem University, Istanbul, Turkey; 6) Spine Center, Schulthess Klinik, Zürich, Switzerland; 7) Spine Surgery Unit, Ankara Spine Center, Ankara, Turkey
Abstract no 63 in the ESJ Abstract Supplementum and Index

10:40 Winner of 2013/2014 Grammer/European Spine Journal Award
MICROARRAY EXPRESSION PROFILING IDENTIFIES GENES WITH ALTERED EXPRESSION IN ADOLESCENT IDIOPATHIC SCOLIOSIS
Khaled Fendri, Shunmoogum A. Patten, Gabriel N. Kaufman, Charlotte Zaouter, Stefan Parent, Guy Grimard, Patrick Edery, Florina Moldovan
Eur Spine J (2013) 22:1300-1311
10:50  EUROSPINE Presidential Address: An Unsystematic Review
Phil Sell, Leicester, UK

11:25  EUROSPINE Medal Lecture 2014
The Future and What To Do About It
Mark Stevenson, UK, Author, Ideas Generator and Futurist
Questions, Discussion

12:00-14:00 EUROSPINE LUNCH SYMPOSIUM, Thursday October 2

12:00  EUROSPINE LUNCH SYMPOSIUM 3
Auditorium Lumièrè
Economic Evaluations in Spinal Medicine
Chair: Norbert Boos, Zurich, Switzerland

12:15  Introduction
Norbert Boos, Zurich, Switzerland

Emma McIntosh, Glasgow, Scotland

12:40  Discussion

12:45  Economic Studies in Spinal Medicine? What Did We Learn So Far?
Jeremy Fairbank, Oxford, UK

13:20  Discussion

13:25  Value-Based Spinal Health Care - What We Can Do to Change Spinal Medicine
Norbert Boos, Zurich, Switzerland

13:50  Discussion

13:55  Concluding Remarks
Norbert Boos, Zurich, Switzerland, Jeremy Fairbank, Oxford, UK

14:00-15:20 Thoraco-Lumbar Spine, Degenerative II
Room: Plenary Hall
Chairs: Lester Wilson, London, UK; Finn Christensen, Aarhus, Denmark

- 42 IDENTIFICATION OF OUTCOME PREDICTORS AND THE AT-RISK SUBGROUP IN PATIENTS REQUIRING SURGICAL TREATMENT BECAUSE OF LUMBAR DISC DEGENERATION
Aron Lazary, Istvan Klemencsics, Peter E. Eltes, Peter Paul Varga
National Center for Spinal Disorders, Budapest, Hungary

- 43 COMT GENE POLYMORPHISM IS ASSOCIATED WITH BASELINE DISABILITY BUT NOT LONG TERM TREATMENT OUTCOME IN PATIENTS WITH CHRONIC LOW BACK PAIN
Jens Ivar Brox, Ahmad Omair, Marit Holden, Anne F Mannion, Peter Fritzell, Olle Hagg, Jeremy Fairbank
Oslo University Hospital, Norway and Spine Unit Schulthess Klinik Zürich, Switzerland

- 44 DECOMPRESSION ALONE IS EFFECTIVE FOR LUMBAR SPINAL STENOSIS WITH DEGENERATIVE SPONDYLOLISTHESIS: SLIP PROGRESSION IS INEVITABLE, BUT CEASES 1 YEAR AFTER SURGERY.
Akira Miyauchi, Tadayoshi Sumida, Bunichiro Izumi
Dept. of Orthopaedic Surgery, Hiroshima City Asa Hospital
POSSIBILITIES OF HIGH FIELD MRI FOR THE DETECTION OF INTERVERTEBRAL DISC LESIONS A COMPARISON BETWEEN 11.7 T AND 3 T
Nikolaus Berger-Roscher¹, Fabio Galbusera¹⁻², Volker Rasche², Hans-Joachim Wilke²
¹) Institute of Orthopaedic Research and Biomechanics, Centre of Musculoskeletal Research Ulm, University Hospital Ulm, Ulm, Germany; ²) IRCCS Istituto Ortopedico Galeazzi, Milan, Italy; ³) Department of Internal Medicine II, University Hospital Ulm, Ulm, Germany; ⁴) Small Animal MRI, Medical Faculty, Ulm University, Ulm, Germany

PREOPERATIVE RETROLISTHESIS IS A RISK FACTOR OF LUMBAR DISC HERNIATION AFTER FENESTRATION WITHOUT DISCECTOMY
Shota Takenaka, Noboru Hosono, Yoshihiro Mukai, Kosuke Tateishi, Takeshi Fuji
Osaka Kosei-nenkin Hospital

IS IT USEFUL THE USE OF CORTICOID TREATMENT FOR POST OPERATIVE PAIN MANAGEMENT AFTER DISC HERNIATION SURGERY?
Gemma Vila Canet, Augusto Covaro, Ana Garcia de Frutos, M.Teresa Ubierna Garcés, Enric Càceres Palou
Hospital Universitari Quiron-DEXEUS, Barcelona

ANTIBIOTIC USE IN CHRONIC BACK PAIN, WHAT ARE WE TREATING?
TAOFIQ Desmond SANUSI, Irfan Malik
Neurosurgery department, Kings College Hospital, London

THE COMPARISON OF 2 SURGICAL TREATMENTS FOR LUMBAR STENOSIS WITH DEGENERATIVE SCOLIOSIS IN 6-YEAR MINIMUM FOLLOW-UP
Dingjun Hao, Baorong He, Liang Yan
Spine Surgery, Xi’an, China

DOES THE DURATION OF PREOPERATIVE CONSERVATIVE THERAPY IN DEGENERATIVE LUMBAR SPINAL STENOSIS HAVE AN INFLUENCE ON THE OUTCOME IN MICRO SURGICAL DECOMPRESSION?
Thomas Zweig, Martin Jäger, Emin Aghayev, Markus Melloh, Christoph Röder
Aarau Central Hospital, Switzerland

INTERSPINOUS PROCESS DEVICES VERSUS STANDARD CONVENTIONAL SURGICAL DECOMPRESSION FOR LUMBAR SPINAL STENOSIS: COST UTILITY ANALYSIS
Wouter Moojen, Elske van den Akker, Mark Arts, Carmen Vleggeert-Lankamp, Wilco Peul
Leiden University Medical Center

15:20-15:50 BREAK

15:50-16:35 Debate
Room: Plenary Hall

Debate: I always stop at L5
Moderator: Josef Grohs, Vienna Austria
Rune Hedlund, Gothenburg, Sweden: I never fuse to the sacrum
Pierre Roussouly, Lyon, France: I always fuse to the sacrum
16:45  EUROSPINE GENERAL ASSEMBLY
       Plenary Hall - Members only

19:30  OFFICIAL CONGRESS EVENING
       (At own expense)
       Attire: business/formal
EUROSPINE would like to congratulate the following 2014 grant recipients:

- **Validation of appropriateness criteria for the surgical treatment of lumbar degenerative spondylolisthesis (LDS)**
  Anne Frances Mannion, François Porchet, John-Paul Vader  
  Spine Unit, Schulthess Klinik, Zurich, Switzerland  
  100,000€/3yrs study

- **A Randomised Controlled Trial of Multimodal Physiotherapy for Patients with Acute / Sub-acute Cervical Radiculopathy**
  Louise Keating, Catherine Doody, Ciaran Bolger  
  Royal College of Surgeons in Ireland, Stephen’s Green, Dublin, Ireland  
  30,000€/1 year

- **Development Grants: 10,000€/each**
  When evaluating requests for funding we sometimes receive applications that propose to investigate an interesting and valuable topic, yet the actual research design is under-developed. The TFR obviously cannot recommend direct funding in such cases, but it can award a Development Grant. This is intended to provide funds for the applicants to do essential development work on their proposal, based on the feedback from the TFR reviewers. It is expected that a revised application will be re-submitted to EUROSPINE/TFR.

- **Optimal pre-surgical management for persons who undergo spinal fusions surgery. Incorporating an evidence based rehabilitation approach in an RCT**
  Mari Lundberg, Rob Smeets, Helena Brisby  
  Lundberg Laboratory for Orthopaedics Research, Sahlgrenska University, Gothenburg, Sweden

- **Impact of cervical alignment in the surgical treatment of cervical spondylotic myelopathy**
  Zachary Adam Smith, Avinash Patwardhan, Michael Zindrick, Tyler Koski, Irene B. Helenowski  
  Northwestern University, Feinberg School of Medicine and Edward Hines VA Hospital, Chicago, IL, USA

- **Improving treatment of effectiveness in chronic low back pain**
  Rob Smeets, Jeroen de Jong, Mariell Goossens, Ivan Huijnen, Albere Köke  
  Department of Rehabilitation Medicine Maastricht University Medical Centre (MUMC), Maastricht, the Netherlands

- **PH-Sensitive release systems to reduce disc inflammation**
  Karin Wuertz-Kozak, Stephen Ferguson, Jeffrey Bode, Institute for Biomechanics, Swiss Federal Institute of Technology (ETH) Zurich, Switzerland

- **Congratulations!**
  The EUROSPINE Task Force on Research  
  Margareta Nordin, France (chair)  
  Federico Balagué, Switzerland – Kim Burton, UK – Christine Cedraschi, Switzerland - Marek Szapski, Belgium – Pierre Coté, Canada - Björn Rydevik, Sweden

**Grant Applications 2015**

- **EUROSPINE will again fund grants in 2015**
  The overall purpose of the EUROSPINE TFR is to promote high quality research in clinical and non-clinical studies related to spine disorders, and to administer the research funds allocated by the Society in the form of grants to support this research.

  All instructions for an application are to be found on the website EUROSPINE Research:  
  www.eurospine.org/research

  Not funded are case series or product development.

  The applicant or at least one member of the research team must be a member of EUROSPINE.

  Applications must be sent by e-mail to info@eurospine.org

  **Application deadline: January 31, 2015**

  For more information please visit the EUROSPINE Society Booth in the center of the Exhibition area.
GLOBUS MEDICAL PRESENTS
LUNCH SYMPOSIA

RESTORATION OF LUMBAR LORDOSIS WITH
EXPANDABLE TECHNOLOGIES

Presented by Dr. Dean Chou and Mr. Paul Rhys Davies
Wednesday, 1 October | 12:00 – 14:00 | Room Tête d’Or 2

RESTORING SAGITTAL BALANCE:
COMPLICATIONS IN ADULT DEFORMITIES

Presented by Professor Rune Hedlund and Dr. Martin Gehrchen
Thursday, 2 October | 12:00 – 14:00 | Room Tête d’Or 2

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1018 Lausanne, Switzerland
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Scientific Programme

Friday, October 3, 2014
Friday, October 3, 2014

08:30-10:00  Growing Spine
Plenary Hall
Chairs: Ferran Pellisé, Barcelona, Spain; Ibrahim Obeid, Bordeaux, France

52  DIFFERENTIAL RESPONSE OF NOTOCHORDAL AND MATURE NUCLEUS PULPOSUS CELLS TO PATHOLOGICAL STIMULI
Taryn Saggese, Kelly Wade, Ashvin Thambyah, Sue McGlashan
University of Auckland, New Zealand

53  THE DEVELOPMENT OF THE ISCHIO-ILIAC LORDOSIS DURING GROWTH AS AN ESSENTIAL ADAPTATION TOWARDS HUMAN BIPEDALISM AND A DETERMINANT OF SAGITTAL BALANCE.
Tom Schlösser, Michiel Janssen, Tomaz Vrtovec, Franjo Pernus, Cumhur Öner, Max Viergever, Koen Vincken, René Castelein
University Medical Center Utrecht, Utrecht, The Netherlands

54  A RADIOGRAPHIC ANALYSIS OF CERVICAL AND PELVIC PARAMETERS FOLLOWING SEGMENTAL CORRECTION OF SCHEUERMANN’S KYPHOSIS
Hossein Mehdian, Georgios Arealis, Sherief Elsayed, Oliver Stokes, Nasir Quraishi
The Centre for Spinal Studies and Surgery, Queens Medical Centre, Nottingham, United Kingdom

55  USING CONCAVE SIDE-BENDING RADIOGRAPHS TO DETERMINE THE DISTAL FUSION LEVEL IN IDIOPATHIC SCOLIOSIS PATIENTS UNDERGOING POSTERIOR CORRECTION WITH PEDICLE SCREWS: A PROSPECTIVE STUDY WITH MINIMUM 5 YEARS FOLLOW-UP.
Jinqian Liang, Jianxiong Shen, Sooyong Chua
Orthopedic department, Peking Union Medical College Hospital

56  DOES IT MAKE A DIFFERENCE TO STOP FUSION AT L3 VERSUS L4 IN TERMS OF DISC AND FACET JOINT DEGENERATION: AN MRI STUDY WITH MINIMUM 5 YEARS FOLLOW-UP
Meric Enercan, Sinan Kahraman, Tunay Sanli, Mesut Kılıç, Faik Seckin, Levent Ulusoy, Cagatay Ozturk, Ahmet Alanay, Azmi Hamzaoglu
Istanbul Spine Center

57  CLINICAL AND RADIOGRAPHIC RESULTS IN THORACIC HIPERKYPHOSIS SURGICAL TREATMENT CONSIDERING THE OPTIMAL FUSION AREA
Laura Scaramuzzo, Fabrizio Giudici, Luca Proietti, Francesco Ciro Tamburrelli, Leone Minoa, Marino Archetti, Sergio Sessa, Carlo Ambrogio Logroscino, Antonino Zagra
I.R.C.C.S. Galeazzi Orthopedic Institute, Catholic University

58  HEMIVERTEBRA RESECTION COMBINED WITH WEDGE OSTEOTOMY FOR THE TREATMENT OF SEVERE RIGID CONGENITAL KYPHOSCOLIOSIS IN ADOLESCENCE
Ding-Jun Hao, Zhong-Kai Liu
Hong Hui Hospital, Xi’an Jiaotong University
| 59 | PONTE OSTEOTOMIES IN THE TREATMENT OF MAJOR THORACIC ADOLESCENT IDIOPATHIC SCOLIOSIS  
  | Javier Pizones, Felisa Sánchez-Mariscal, Lorenzo Zúñiga, Patricia Álvarez, Ángeles Rodrigo, Enrique Izquierdo  
  | Spine Unit. Hospital Universitario de Getafe, Madrid, Spain |
|---|---|
| 60 | INSTRUMENTATION OF SCOLIOSIS WITH DUCHENNE’S MUSCULAR DYSTROPHY: IS A SINGLE ROD CONSTRUCT SUFFICIENT?  
  | Derek Cawley, Olan Carmody, Michael K Dodds, Damian McCormack  
  | Temple St Children's University Hospital, Dublin, Ireland |
| 61 | SELF IMAGE, PAIN AND FUNCTION 35 YEARS AFTER IN SITU ARTHRODESIS FOR L5-S1 HIGH-GRADE ISTHMIC SPONDYLOLISTESIS  
  | Karin Frennered, Anders Joelson, Christer Johansson, Rune Hedlund  
  | Institute of Clinical Sciences at Sahlgrenska Academy, University of Gothenburg and Sahlgrenska University Hospital, Gothenburg, Sweden |
| 62 | COMPARISON OF STAINLESS STEEL AND TITANIUM METALWORK INFECTION RATES IN SCOLIOSIS SURGERY  
  | Martin Connolly, Brian Hanratty, Kyle McDonald, Niall Eames, Alistair Hamilton, Eugene Verzin, Gregory McLorinan  
  | Royal Victoria Hospital, Belfast, Northern Ireland |

**10:00-10:30 BREAK**

**10:30-12:00 The ‘Best of Show’ papers. The highest scored abstract submissions**  
The 2014 Best Podium Award will be evaluated out of the seven presentation of this session.  
The audience is asked to vote via the EUROSPINE App  
Plenary Hall  
*Chairs: Thomas Blattert, Schwarzach, Germany; Margareta Nordin, Romorantin, France*

| 64 | DETERMINANTS OF LUMBAR CURVE BEHAVIOUR IN LENKE TYPE I A&B THORACIC ADOLESCENT IDIOPATHIC SCOLIOSIS TREATED BY POSTERIOR SPINAL FUSION  
  | Mahmoud Elmalky, George Arealis, Michael Grevitt  
  | Centre for Spinal Studies & Surgery, Queen’s Medical Centre Campus, Nottingham University Hospitals NHS Trust, Nottingham, UK |
| 65 | COMPARISON OF OUTCOMES BETWEEN PATIENTS USING SSEP/TCMEP MONITORING DURING PVCR PROCEDURE AND NO MONITORING IN A SINGLE CENTER: DOSE MONITORING TRULY DETECT ALL SPINAL CORD ABNORMALITIES AND IMPROVE RADIOGRAPHIC CORRECTION?  
  | Yingsong Wang, Jingming Xie, Tao Li, Ying Zhang, Ni Bi, Zhi Zhao, Leijie Chen, Zhou Liu, Zhiyue Shi  
  | Department of Orthopedics, The 2nd Affiliated Hospital of Kunming Medical University, Yunnan Province, China |
| 66 | PFIRRMANN GRADE AS A PREDICTOR OF RANGE AND QUALITY OF MOTION  
  | Avinash Patwardhan, Muturi Muriuki, Robert Havey, Leonard Voronov, Gerard Carandang  
  | Edward Hines Jr. VA Hospital, Musculoskeletal Biomechanics Laboratory, Hines, IL, USA |
SURGICAL INTERSPINOUS IMPLANT VERSUS CONVENTIONAL DECOMPRESSION FOR LUMBAR SPINAL STENOSIS - A RANDOMIZED CONTROLLED TRIAL LONG-TERM RESULTS
Wouter Moojen, Mark Arts, Wilco Jacobs, Carmen Vleggeert-Lankamp, Wilco Peul
Leiden University Medical Center, Leiden, the Netherlands

NO BENEFIT FROM FUSION IN DECOMpressive SURGERY FOR LUMBAR SPINAL STENOSIS. 2 YEAR-RESULTS FROM THE SWEDISH SPINAL STENOSIS STUDY, A MULTICENTRE RCT OF 229 PATIENTS
Peter Försth, Thomas Carlsson, Karl Michaëlsson, Bengt Sanden
Stockholm Spine Center, Stockholm, Sweden

PROGNOSTIC VARIABLES FOR LOCAL RECURRENCE AND OVERALL SURVIVAL AFTER SURGICAL TREATMENT OF SACRAL CHORDOMA AN ANALYSIS FROM AOSPINE TUMOR KNOWLEDGE FORUM PRIMARY SPINAL TUMOR RETROSPECTIVE DATABASE
Péter Pál Varga, Zsolt Szövérfi, Ziya Gokaslan, Charles Fisher, Stefano Boriani, Mark Dekutoski, Dean Chou, Nasir Quraishi, Michael Fehlings, Laurence Rhines
Spinal Surgery, National Center for Spinal Disorders, Budapest, Hungary

DOES INTRAWOUND APPLICATION OF VANCOMYCIN INFLUENCE BONE HEALING IN SPINAL SURGERY?
Claudia Eder, Stefan Schenk, Jana Trifinopoulos, Sabrina Schildboeck, Melanie Kienzl, Michael Ogon
3rd Orthopedic Department, Orthopedic Hospital Vienna, Vienna, Austria

UPDATE ON SOCIETY ACTIVITIES

11:30
EUROSPINE Activities
Philip J. Sell, Leicester, UK. EUROSPINE President

11:35
Activities of the Task Force on Research
Margareta Nordin, Romorantin, France. Chair of the Task Force Research

11:40
Spine Tango, the EUROSPINE Registry
Tim Pigott, Liverpool, UK, Chair of the Spine Tango Committee

11:45
Activities of the Membership Committee
Christoph Siepe, Munich, Germany, Chair of the Membership Committee

11:50
Announcement of the Best Podium Award
Thomas Blattert, Margareta Nordin
12:00-14:00  ■  EUROSPINE LUNCH SYMPOSIA, Friday October 3

12:00  ■  EUROSPINE LUNCH SYMPOSIUM 4

Room Rhône 3A/3B
Pyogenic Spinal Infections
Chair: Viola Bullmann, Koeln, Germany

12:00  Spondylitis- Diagnostic Tools
Jörg Franke, Dortmund, Germany
12:20  Discussion
12:30  Iatrogenic infections – How to treat?
Ferran Pellisé, Barcelona, Spain
12:50  Discussion
13:00  Patient’s outcomes after surgical site infections
Susana Núñez Pereira, Koeln, Germany
13:20  Discussion
13:30  Surgical treatment of pyogenic spinal infections
Viola Bullmann, Koeln, Germany
13:50  Discussion

12:00  ■  EUROSPINE LUNCH SYMPOSIUM 5

Auditorium Lumière
Overcoming Obstacles to Recovery in the Lumbar Spine
Chair: Phil Sell, Leicester, UK

“Yellow flags”, obstacles to recovery
Phil Sell, Leicester, UK
Combined physical and psychological approach
John O’Dowd, London, UK
Helping the challenging patient
Christine Cedraschi, Geneva, Switzerland
Top tips for improving quality of life for patients and surgeons
Phil Sell, Leicester, UK
Discussion

12:00  ■  EUROSPINE LUNCH SYMPOSIUM 6

Auditorium Pasteur
Ankylosing Spondylitis (focus on diagnosis and medical treatment)
Chair: Federico Balagué, Fribourg, Switzerland

Frequency of spondylarthropathies and the missed diagnoses
Thomas Blattert, Schwarzach, Germany
Medical pitfalls and manifestations
Jean Dudler, Fribourg, Switzerland
Conservative Treatments
Federico Balagué, Fribourg, Switzerland
Corrective Spinal Osteotomies in Ankylosing Spondylitis
Hossein Mehdian, Nottingham, UK
Discussion
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<tr>
<th>Time</th>
<th>Concurrent Sessions (Quick Fires - Short Communications)</th>
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<tr>
<td>14:00-15:30</td>
<td><strong>Growing Spine</strong></td>
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<tr>
<td>Room Rhône 2, Level Rhône/Pasteur</td>
<td><em>Chairs: Alpaslan Senköylü, Ankara, Turkey, Jean-Charles LeHuec, Bordeaux, France</em></td>
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| **QF1** | A NEW RADIOLUCENT DEDICATED CHAIR FOR SITTING-POSTURE RADIOGRAPHS IN NON-AMBULATORY PATIENTS: APPLICATION WITH THE EOS SYSTEM  
Houssam Bouloussa, Arnaud Dubory, Catherine Seiler, Hubert Ducou le Pointe, Raphaël Vialle  
Université Pierre et Marie Curie-Paris6, Armand Trousseau Hospital, Department of Pediatric Orthopaedics & Department of Pediatric Imaging, 26 avenue du Docteur Arnold Netter, Paris, France; Groupe Lagarrigue, 131 boulevard Victor Hugo, F 92110 Clichy France |
| **QF2** | COMPARISON OF SIMPLIFIED OLECRANON AND DIGITAL METHODS OF SKELETAL MATURITY ASSESSMENT  
Yann Philippe Charles, Federico Canavesce, Sébastien Schuller, Jean-Paul Steib, Marie Roussset, Alain Diméglia  
Department of Spine Surgery, Hôpitaux Universitaires de Strasbourg, France and Department of Pediatric Surgery, CHU Clermont-Ferrand, France |
| **QF3** | PROSPECTIVE STUDY WITH IMMEDIATE IN-BRACE CORRECTION OF THE FIRST 150 SCOLIOSIS TREATED WITH THE NEW LYON BRACE (ARTBRACE).  
Jean Claude de Mauroy, Cyril Lecante, Frédéric Barral, Sophie Pourret  
Clinique du Parc - Lyon |
| **QF4** | LOW BACK PAIN AND PATIENT-BASED QOL OUTCOMES IN PATIENTS WITH ADOLESCENT IDIOPATHIC SCOLIOSIS WITHOUT CORRECTIVE SURGERY  
Takahiro Makino, Takashi Kaito, Masafumi Kashii, Motoki Iwasaki  
Dept. Orthopaedic Surgery, Graduate School of Medicine, Osaka University |
| **QF5** | IS SHOULDER IMABALANCE AS IMPORTANT AS IT IS CONSIDERED IN IDIOPATHIC SCOLIOSIS PATIENTS?  
Elisabetta D’Agatta, Joan Bago, Ferran Pellise  
Hospital Vall d’Hebron, Spain |
| **QF6** | INCIDENCE OF FALSE POSITIVE SPINAL CORD MONITORING ALERTS IN SURGERY FOR EARLY ONSET SCOLIOSIS  
Oliver Stokes, Ed Bayley, Rob Burton, Sherief Elsayed, Dominique Rothenfluh, Hossein Mehidian  
Centre for Spinal Studies and Surgery, Queen’s Medical Centre, Nottingham, U.K. |
| **QF7** | THE SAGITAL BALANCE CHALLENGE IN FUSIONLESS SURGERY: PJK PREDICTING FACTORS IN VEPTR TECHNIQUE  
Norberto Ventura, augusto covaro, Anna Ey, inma vilalta, melisa stitzman  
Hospital Sant Joan de deu, Barcelona |
| **QF8** | EFFICACY AND SAFETY OF GROWING SPINAL SYSTEMS IN THE TREATMENT OF HYPERKYPHOSIS IN EARLY ONSET DEFORMITY  
Elena Maredi, Francesco Lolli, Kostantinos Martikos, Francesco Vommaro, Mario Di Silvestre, Stefano Giacomini, Adrea Baioni, Aristide Morigi, Renata Bacchin, Tiziana Greggi  
Rizzoli Orthopaedic Institute Bologna Italy |
EARLY ONSET SCOLIOSIS (INFANTILE IDIOPATHIC SCOLIOSIS) AND MAGNETICALLY CONTROLLED DUAL GROWING ROD
Tiziana Greggi, Elena Maredi, Francesco Lollì, Stefano Giacomini, Francesco Vommaro, Kostantinos Martikas, Mario Di Silvestre, Andrea Baioni
Rizzoli Orthopaedic Institute

MAGNETICALLY CONTROLLED GROWING RODS: AN EFFECTIVE AND LESS-INVASIVE SYSTEM FOR EARLY ONSET SCOLIOSIS TREATMENT.
Guido La Rosa, Laura Ruzzini, Leonardo Oggiano
Bambino Gesù Children’s Hospital

SELECTIVE THORACIC FUSION PROVIDES SIMILAR HRQL BUT CAN CAUSE MORE LUMBAR DISC AND FACET JOINT DEGENERATION: A COMPARISON OF AIS PATIENTS WITH NORMAL POPULATION 10 YEARS AFTER SURGERY
Sinan Kahraman, Meric Enercan, Tunay Sanlı, Bahadir Gökçen, Erden Ertürer, Mercan Sarier, Cagatay Ozturk, Ahmet Alanay, Azmi Hamzaoglu
Istanbul Spine Center

SUBJECTIVE EVALUATION OF SURGICAL TREATMENT OF SPINE DEFORMITIES IN CHILDREN WITH SMA TYPES 2 AND 3A.
Tomasz Potaczek, Daniel Zarzycki, Barbara Jasiewicz
Department of Orthopedic Surgery and Rehabilitation, Jagiellonian University, Faculty of Medicine

DOES SPINAL FUSION AND SCOLIOSIS CORRECTION IMPROVE ACTIVITY AND PARTICIPATION FOR CHILDREN WITH ANGELMAN SYNDROME?
Charles Wallace, Mathew Sewell
The Royal National Orthopaedic Hospital

IMPROVEMENT OF SPINAL SAGITTAL PROFILE AFTER SCHEUERMANN’S KYPHOSIS CORRECTION SURGERY
Kai Tsang, Senthil muthian, Vinay Jasani, Jayesh Trivedi, Elnasri Ahmed
University Hospital of North Staffordshire, Stoke-on-Trent, UK; Robert Jones and Agnes Hunt Orthopaedic Hospital, Oswestry, UK

ANALYSIS OF PERIOPERATIVE MAJOR NON-NEUROLOGIC COMPLICATIONS IN 105 POSTERIOR VERTEBRAL COLUMN RESECTION (PVCR) PROCEDURES FOR SEVERE RIGID DEFORMITIES DURING 10 YEARS: INTROSPECTION ON THE BALANCE BETWEEN PATIENTS’ RISK AND BENEFIT
Jingming Xie, Yingsong Wang, Ying Zhang, Tao Li, Zhi Zhao, Zhou Liu, Ni Bi, Leijie Chen, Zhiyue Shi
Department of Orthopedics, The 2nd Affiliated Hospital of Kunming Medical University, Yunnan Province, China

NOVEL TECHNIQUE FOR THE TREATMENT OF TYPE II DENS FRACTURES WITH CEMENT AUGMENTATION & A BIOMECHANICAL EVALUATION
Albrecht Waschke¹, Nikolaus Berger-Roscher², Rolf Kahlf³, Hans-Joachim Wilke⁴
¹ Clinic and Polyclinic for Neurosurgery, University Hospital Jena, Jena, Germany; ² Institute of Orthopaedic Research and Biomechanics, Centre of Musculoskeletal Research Ulm, Ulm University, Ulm, Germany
EVALUATION OF THE EFFICACY AND SAFETY OF SPINAL NAVIGATION IN CERVICAL (CPS) AND THORACIC PEDICLE SCREW (TPS) INSERTION: POTENTIAL DEFICITS IN SURGICAL SKILL ARE NOT ELIMINATED FOR CPS BUT SUCH DEFICITS ARE COMPENSATED FOR IN TPS.
Tokumi Kanemura, Kotaro Satake, Hidetoshi Yamaguchi, Yoshimoto Ishikawa, Akiyuki Matsumoto, Zenya Ito, Shiro Imagama
Konan Kosei Hospital, Spine Center

A SAFE CERVICAL PEDICLE SCREW INSERTION TECHNIQUE USING A DIRECT C-ARM VIEW OF THE PEDICLE MEDIAL CORTEX DURING A DANGEROUS PROBE INSERTION PROCEDURE.
Tadanori Ogata, Tadao Morino, Hideki Horiuchi, Shintaro Yamaoka, Hiromasa Miura
1) Spine Center, Ehime University Hospital, Tohon-city, Ehime 791-0295, Japan
2) Department of Bone and Joint Surgery, Ehime University School of Medicine, Tohon-city, Ehime 791-0295, Japan

POSTERIOR CERVICAL PEDICLE SCREW VERSUS 360° STABILIZATION OF THE SUBAXIAL CERVICAL SPINE IN A MULTILEVEL VERTEBRAL BODY FAILURE MODEL. AN IN VITRO BIOMECHANICAL STUDY
John Duff, Lukas Bobinski, Mir Mir Hussain, Noelle Klocke, Soumya Yandamouri, Brandon Bucklen, Marc Levivier, Ray Daniel
Centre Hospitalier Universitaire Vaudois, Lausanne, Switzerland; Globus Medical Inc., Audubon PA, USA

EFFECT OF SAGITTAL ALIGNMENT ON THE CERVICAL SPINE NEUROFORAMINAL SPACE. CT BASED BIOMECHANICAL CADAVERIC STUDY
Zachary Smith, Saeed Khayazadeh, Robert Havey, Muturi Muriuki, Leonard Voronov, Avinash Patwardhan
Northwestern University, Chicago, Illinois, USA; Loyola University Chicago, Illinois, USA; Edward Hines Jr. VA Hospital

C2 DOME DECOMPRESSION METHODS FOR OSSIFICATION OF THE POSTERIOR LONGITUDINAL LIGAMENT OF CERVICAL SPINE
Futoshi Suetsuna, Takahisa Kaneko
Hachinohe Municipal Hospital

FACTORS ASSOCIATED WITH PERSISTING SPINAL CORD COMPRESSION AFTER REDUCTION OF CERVICAL DISLOCATION
Takeshi Maeda, Eiji Mori, Itaru Yugue, Osamu Kawano, Tsuneaki Takao, Hiroaki Sakai, Keiichiro Shiba
Spinal Injuries Center

POSTERIOR DECOMPRESSION AND FUSION FOR CERVICAL OPLL PREVENT VOLUME INCREASE OF OSSIFIED LESION
Tomohiro Izumi, Keiichi Katsumi, Akiyoshi Yamazaki, Toru Hirano, Yu Sato, Ryuta Fujikawa, Tatsuki Mizouchi
Niigata central hospital

INCIDENCE OF NEUROLOGICAL COMPLICATIONS FOLLOWING SURGICAL MANAGEMENT OF CERVICAL MYELOPATHY
Subir Jhaveri, Avani Jhaveri
Division of Spine Surgery, Dr.Jhaveri’s Spine Hospital
QF25 FUNCTIONAL OUTCOMES IN PATIENTS OPERATED FOR CERVICAL SPONDYLOTIC MYELOPATHY (CSM)
Subir Jhaveri, Avani Jhaveri, Samir Patel
Dr. Jhaveri’s Spine Hospital

QF26 SUBAXIAL SUBLUXATION FOLLOWING ATLANTO-AXIAL ARTHRODESIS IN PATIENTS WITH RHEUMATOID ARTHRITIS: AN ANALYSIS OF ANNUAL RADIOGRAPHS OBTAINED FOR FIVE YEARS AFTER SURGERY
Haku Iizuka, Yoichi Iizuka, Tokue Mieda, Kenji Takagishi
Department of Orthopaedic Surgery, Gunma University Graduate School of Medicine

QF27 TOTAL DISC REPLACEMENT VERSUS ACDF: RESULTS FROM A TWO-LEVEL PROSPECTIVE, RANDOMIZED, CLINICAL TRIAL WITH 48 MONTHS FOLLOW-UP
Jean-Paul STEIB, Reginald DAVIS
1) CHU Strasbourg, Strasbourg, France; 2) GBMC Healthcare Greater Baltimore Neurosurgical Associates, Baltimore, MD USA

QF28 TWO-LEVEL HYBRID SURGICAL RECONSTRUCTION OF THE CERVICAL SPINE: A KINEMATIC STUDY IN WHOLE CADAVERS
Booge Liu, Zheng Zeng, Tom VanHoof, JeanPierre Kalala, Zhenyu Liu, Bingxuan Wu
Department of Orthopaedic surgery, Beijing Tian Tan Hospital, Capital Medical University; Department of Anatomy, Ghent University, Ghent, Belgium; Department of Neurosurgery, Ghent, University Hospital, Belgium

QF29 MID-TERM RESULTS OF TOTAL DISC REPLACEMENT IN THE CERVICAL SPINE: A PROSPECTIVE CLINICAL AND X-RAY INVESTIGATION WITH AT LEAST 5 YEAR FOLLOW-UP
Franziska C. Heider, Bernhard Zillner, Andreas Korge, Christoph J. Siepe, Michael H. Mayer, Christoph Mehren
Schön Clinic Munich Harlaching, Germany

QF30 ARTIFICIAL DISC REPLACEMENT COMBINED WITH FUSION VERSUS TWO-LEVEL FUSION IN CERVICAL TWO-LEVEL DISC DISEASE WITH 5 YEARS FOLLOW-UP
Gyu Yeul Ji, Chang Hyun Oh, Dong Ah Shin, Do Heum Yoon, Keung Nyun Kim, Hyun Cheol Shin
Department of Neurosurgery, Guro Teun Teun Hospital, Seoul, South Korea; Department of Neurosurgery, Spine and Spinal Cord Research Institute, Yonsei University College of Medicine, Seoul, South Korea

14:00 Thoraco-Lumbar Spine, non-degenerative
Room Rhône 1, Level Rhône/Pasteur
Chairs: Helton Defino, Ribeirão Preto, Brasil, Aron Lazary, Budapest, Hungary

QF31 V-Y VERTEBRAL BODY OSTEOTOMY FOR THE TREATMENT OF FIXED FLEXION DEFORMITY OF THE SPINE
Hossein Mehdian, Georgios Arealis, Sherief Elsayed, Oliver Stokes, Nasir Quraishi Centre for Spinal Studies and Surgery, Queens Medical Centre, Nottingham

QF32 HIGH DOSE OF TRANEXAMIC ACID REDUCES INTRAOPERATIVE BLOOD LOSS IN PATIENTS UNDERGOING POSTERIOR VERTEBRAL COLUMN RESECTION- A CLINICAL COMPARATIVE STUDY OF 89 CONSECUTIVE PATIENTS
Tao Li, Jingming Xie, Ying Zhang, Yingsong Wang, Leijie Chen, Zhou Liu, Zhiyue Shi, Zhi Zhao, Ni Bi
Department of Orthopedics, The 2nd Affiliated Hospital of Kunming Medical University, Yunnan Province, P.R.CHINA
QF33  PROGRESSION OF OSSIFICATION OF THE POSTERIOR LONGITUDINAL LIGAMENT OF THE THORACIC SPINE FOLLOWING POSTERIOR DECOMPRESSION AND STABILIZATION
Shurei Sugita, Hirotaka Chikuda, Katsushi Takeshita, Sakae Tanaka
The University of Tokyo

QF34  C1-C2 STABILIZATION USING HARMS TECHNIQUE: INDICATIONS, TECHNIQUE, COMPLICATIONS AND OUTCOMES IN A PROSPECTIVE 38-CASE SERIES
Cédric BARREY, Pierre BOURDILLON, Gilles PERRIN
Department of spine surgery, Hospices Civils de Lyon, University Claude Bernard Lyon1, France

QF35  REVIEW OF MANAGEMENT OF ISOLATED C2 FRACTURES IN WEST MIDLANDS. AN 11 YEAR RETROSPECTIVE STUDY
Rosamond Tansey, Theofano Tikka, Sarin Kuruvath
Department of Neurosurgery, Birmingham, United Kingdom

QF36  POOR PROGNOSTIC FACTORS IN DISTRACTIVE-EXTENSION INJURY OF THE SUBAXIAL SPINE
Donghoon Ham, Kyungjin Song, Chanill Park, Kwangbok Lee
Department of Orthopedic Surgery, School of Medicine, Research Institute of Clinical Medicine, Chonbuk National University Hospital, Jeonju, Korea

QF37  EFFECT OF VERTEBROPLASTY WITH BONE FILLER DEVICE AND COMPARISON WITH BALLOON KYPHOPLASTY
Dong-Hoon Yang, Young Sun Chung, Ki-Hong Cho
KOFIH (Korea Foundation of International Healthcare): Department of Neurosurgery, Ajou University Hospital, Ajou University; Department of Neurosurgery, Konkuk University Chungju Hospital, Konkuk University

QF38  KUMAFIX FIXATION FOR THORACOLUMBAR BURST FRACTURES: A PROSPECTIVE STUDY ON SELECTIVE CONSECUTIVE PATIENTS
Dingjun Hao, Baorong He, Liang Yan
Spine Surgery, Xi’an, China

QF39  OPTIMIZING HEMODYNAMIC PARAMETERS AFTER ACUTE SPINAL CORD INJURY
Sean Christie, Ayoub Dakson, David Brandman, Ginette Thibault-Halman
Dalhousie University

QF40  CURRENT SURGICAL PRACTICE FOR TRAUMATIC SPINAL CORD INJURY IN CENTRAL CORD SYNDROME PATIENTS IN CANADA.
Jerome Paquet, Brian Drew, Michael Fehlings, Henry Ahn, Najmedden Attabib, Christopher Bailey, Sean Christie, Neil Duggal, Joel Finkelstein, Daryl Fourney
Rick Hansen Institute, Health Canada

QF41  EVALUATION OF SCORING SYSTEMS AND PROGNOSTIC FACTORS IN PATIENTS WITH SPINAL METASTASES FROM NASOPHARYNGEAL CARCINOMA
Naresh Kumar, Jonathan Tan, Aye Sandar Zaw, Khin Lay Wai
National University Health System

QF42  PROGNOSTIC SIGNIFICANCE OF T GENE SNP S2305089 IN INDIVIDUALS WITH SPINAL COLUMN CHORDOMA
National Center for Spinal Disorders
QF43 PRIMARY OSTEOSARCOMAS OF THE SPINE: A MULTICENTER REVIEW OF 57 SURGICAL CASES
Michelle J. Clarke, Peter Pal Varga, Laurence D. Rhines, Charles G. Fisher, Dean Chou, Nasir A. Quraishi, Michael G. Fehlings, Ziya L. Gokaslan, Stefano Boriani National Center for Spinal Disorders and Buda Health Center

QF44 A MULTICENTRE RETROSPECTIVE COHORT STUDY OF SPINAL OSTEOID OSTEMAS: SURGICAL TREATMENT AND LOCAL RECURRENCE RESULTS
Nottingham University Hospital NHS Trust; Centre for Spinal Studies & Surgery; Queen’s Medical Centre campus

QF45 ANEURYSMAL BONE CYSTS OF THE SPINE: TREATMENT OPTIONS AND CONSIDERATIONS
Stefano Boriani, Sheng‐fu Larry Lo, Varun Puvanesarajah, Dean Chou, Charles G. Fisher, Laurence D. Rhines, Richard Williams, Peter Pal Varga, Zsolt Szövérfi, Chetan Bettegowda
National Center for Spinal Disorders

14:00 Thoraco‐Lumbar Spine, degenerative
Room Auditorium Pasteur, Level Rhône/Pasteur
Chairs: Stavros Stavridis, Thessaloniki, Greece; JeanPaul Steib, Strasbourg, France

QF46 LONG-TERM RESULTS OF TOTAL LUMBAR DISC REPLACEMENT: A PROSPECTIVE ANALYSIS OF 201 PATIENTS WITH 10 YEAR FOLLOW-UP
Christoph Siepe, Karsten Wiechert, Franziska Heider, Christoph Mehren, Andreas Korge, Michael Mayer
Schön Clinic Munich Harlaching; Spine Center; Academic Teaching Hospital of the Paracelsus Private Medical University (PMU), Salzburg, Austria

QF47 RESISTIVE STRAIGHT LEG RAISE TEST, RESISTIVE FORWARD BEND TEST AND HEEL COMPRESSION TEST. NOVEL TECHNIQUES IN IDENTIFYING SECONDARY GAIN MOTIVES IN LOW BACK PAIN CASES
Naresh Kumar
National University Health System

QF48 PROSPECTIVE CLINICAL AND RADIOLOGICAL INVESTIGATION OF FUSION AT THE LUMBOSACRAL JUNCTION WITH AN ANTERIOR STAND-ALONE DEVICE
Christoph Siepe, Katrin Stosch-Wiechert, Franziska Heider, Phat Amnajtrakul, Alexander Krenauer, Ulrike Szeimies, Axel Stäbler, Michael Mayer
Schön Clinic Munich Harlaching; Spine Center; Academic Teaching Hospital of the Paracelsus Private Medical University (PMU), Salzburg, Austria

QF49 LUMBOPELVIC BALANCE IN SPONDYLOLYSIS PARS REPAIR
Augusto covaro, Anna Ey, Inma Vilalta, Melisa Stitzman, Iago Garreta, Norberto Ventura
Hospital Sant Joan de Deu
| QF50 | INFLUENCE OF HETEROTOPIC BONE FORMATION IN CLINICAL AND RADIOLOGICAL OUTCOMES AFTER 7 YEARS FOLLOW-UP OF A BALL AND SOCKED METAL ON METAL LATERAL LUMBAR TOTAL DISC REPLACEMENT DEVICE  
   Luiz Pimenta, Leonardo Oliveira, Rodrigo Amaral, Thabata Bueno, Etevaldo Coutinho, Luis Marchi  
   Instituto de Patologia da Coluna, São Paulo, Brazil |
| QF51 | POSTEROLATERAL INSTRUMENTED FUSION (PLF) WITH OR WITHOUT TRANSFORAMINAL LUMBAR INTERBODY FUSION (TLIF) FOR THE TREATMENT OF ISTHMIC SPONDYLOLISTHESIS: A RANDOMIZED CLINICAL TRIAL WITH 2-YEARS FOLLOW-UP  
   Mohammadreza etemadifar, mehran feizi masouleh  
   St. zahra hospital |
| QF52 | DIAGNOSIS OF INTERMITTENT NEUROGENIC CLAUDICATION AND PREDICTING CLINICAL OUTCOME PREOPERATIVE USING MR IMAGING STUDIES.  
   Wouter Moojen, Catharina Schenck, Geert Lycklema a Nijeholt, Wilco Jacobs, Bas van der Kallen, Mark Arts, Wilco Peul, Carmen Vleggeert-Lankamp  
   Leiden University Medical Center, The Netherlands |
| QF53 | DISABLED ACTIVITIES AFTER CORRECTIVE SURGERY FOR ADULT SPINAL DEFORMITY  
   Daisuke Togawa, Tomohiko Hasegawa, Yu Yamato, Sho Kobayashi, Tatsuya Yasuda, Hideyuki Arima, Yukihiro Matsuyama  
   Department of Orthopaedic Surgery, Hamamatsu University School of Medicine, Shizuoka, JAPAN |
| QF54 | TOEI 2012 STUDY: SAGITTAL SPINAL ALIGNMENT VERSUS OSEWESTRY DISABILITY INDEX IN HIGH AGE VOLUNTEERS  
   Daisuke Togawa, Tatsuya Yasuda, Yu Yamato, Yu Watanabe, Koichiro Ide, Tomohiro Yamada, Sho Kobayashi, Hideyuki Arima, Tomohiko Hasegawa, Yukihiro Matsuyama  
   Department of Orthopaedic Surgery, Hamamatsu University School of Medicine, Shizuoka, JAPAN. |
| QF55 | TOPICAL, INTRA-WOUND VANCOMYCIN POWDER DECREASES THE RISK OF SURGICAL SITE INFECTIONS IN COMPLEX ADULT DEFORMITY RECONSTRUCTION: A COST-BENEFIT ANALYSIS.  
   Halil Gokhan Demirkiran, Alexander Theolegis, Murat Pekmezci, Christopher Ames, Vedat Deviren  
   Department of Orthopaedic Surgery, University of California – San Francisco (UCSF); Department of Neurologic Surgery, UCSF |
| QF56 | RECOVERY OF SEVERE MOTOR DEFICIT SECONDARY TO HERNIATED LUMBAR DISC PROLAPSE: IS SURGICAL INTERVENTION IMPORTANT? A SYSTEMATIC REVIEW  
   Venkatesh Balaji, Kuen Foo Chin, Stewart Tucker, Lester Wilson, Adrian Casey  
   Spinal Surgery, London, United Kingdom |
| QF57 | RESULTS FROM LUMBAR FUSION USING TLIF WITH DIFFERENT BONE GRAFTING MATERIALS: A PROSPECTIVE RANDOMIZED STUDY  
   Nicolas H vonderHoeh, Anna Voelker, Jens Gulow, Christoph-E. Heyde  
   University Hospital Leipzig |
QF58 HIGH GRADE SPONDYLOLISTHESIS SURGICAL MANAGEMENT: REDUCTION OR ARTHRODESIS IN SITU. A MULTICENTER REVIEW OF 207 CASES
Féthi Laouissat, Clément Silvestre, Gérard Bollini, Daniel Chopin, Thierry Odent, Jean-paul Steib, Jérôme Sales-de-Gauzy, Pierre Guigui, Keyvan Mazda, Pierre Roussouly
CMCR Massues - Croix Rouge Française

QF59 A STUDY OF THE EVOLUTIONARY CHANGES IN SPINAL CANAL DIMENSIONS
Constantin Schizas, Schmit Aline, Alexis Schizas, Fabio Becce, Gerit Kulik, Katarzyna Pierzchaa
Clinic Cecil/ CHUV

QF60 THE RELATIONSHIP OF GLOBAL SAGITTAL IMBALANCE AND PELVIC INCIDENCE LUMBAR LORDOSIS MISMATCH IN DEGENERATIVE SCOLIOSIS
Dominique A. Rothenfluh, Louis Boissiere, Ibrahim Obeid
Nuffield Orthopaedic Centre, Oxford University Hospitals NHS Trust

14:00 Basic Science / Others
Room Bellecour 1, Level 1
Chairs: Werner Schmoelz, Innsbruck, Austria; Dominique Rothenfluh, Oxford, UK

QF61 RISK FACTORS FOR POSTOPERATIVE SPINAL EPIDURAL HEMATOMA
Kentaro Yamada, Yuichiro Abe, Yasushi Yanagibashi, Takahiko Hyakumachi, Shigenobu Sato
Wajokai Eniwa Hospital

QF62 SURGICAL SITE INFECTION IN SPINAL OPERATIONS. A TERTIARY CENTRE REVIEW OF 4557 CONSECUTIVE PROCEDURES OVER 5 YEARS
Hassan Fawi, Mohamed Ahmet, Jose Magol, Megan Lewis, Sashin Ahuja
Welsh Centre for Spinal Surgery & Trauma, University Hospital of Wales, Cardiff, UK

QF63 CAN NSAID(DICLOFENAC SODIUM) REDUCE A BMP-INDUCED INFLAMMATION IN A RODENT MODEL?
Yong-Jin Kim, Joo-Rang Lee, Ki-Tae Park, Kyung-Jin Song, Kwang-Bok Lee, In-Sung Huh, Seung-Min Choi
Chonbuk National University Medical School, Chonbuk National University Hospital

QF64 THE EFFICACY OF THE 70% CRITERION IN INTRAOPERATIVE NEUROPHYSIOLOGICAL MONITORING USING MUSCLE EVOKED POTENTIALS FOR THE RESECTION OF INTRA-MEDULLARY SPINAL CORD TUMORS: THE ISSR PROSPECTIVE MULTI-CENTER STUDY
Yasushi Fujiwara, Yukihiro Matsuyama, Sho Kobayashi, Zenya Ito, Shigenori Kawabata, Tsukasa Kanchiku, Kanichiro Wada, Kei Yamada, Takanori Saito, Toshikazu Tani
Department of Orthopedic Surgery, Hiroshima City Asa Hospital, Hiroshima

QF65 MEASURE YOUR OWN MEDICAL OUTCOME PROFILE (MYMOP) - VALIDATION OF A PATIENT GENERATED OUTCOME QUESTIONNAIRE BY COMPARISON TO THE ROLAND MORRIS DISABILITY QUESTIONNAIRE (RMDQ).
Patrick Hourigan, Andrew Clarke, Sarah Whitehouse, Helen Challinor
Department of Spinal Surgery; Peninsula Spinal Unit; Royal Devon and Exeter Hospital

QF66 RADIOLOGICAL EVALUATION AFTER POSTERIOR INSTRUMENTED SURGERY FOR THORACIC OSSIFICATION OF POSTERIOR LONGITUDINAL LIGAMENT - UNION BETWEEN ROSTRAL AND CAUDAL OSSIFICATIONS
Kei Ando, Shiro Imagama, Zenya Ito
Department of Orthopaedic Surgery, Nagoya University Graduate School of Medicine
INCREASED FACET FLUID PREDICTS DYNAMIC CHANGE IN THE DURAL SAC SIZE ON AXIAL LOADED MRI IN PATIENTS WITH LUMBAR SPINAL CANAL STENOSIS
Haruo Kanno, Hiroshi Ozawa, Toshimi Aizawa, Eiji Itoi
Department of Orthopaedic Surgery; Tohoku University School of Medicine

DOES A FACET JOINT COMPRESSION WITH POSTERIOR INSTRUMENTATION IMPROVE THE PRIMARY STABILITY OF A TYPE A FRACTURE?
Hans-Joachim Wilke1, Ivo Nennstiel2, Michael Ruf3, David Volkheimer1
1 Institute of Orthopaedic Research and Biomechanics, Center of Musculoskeletal Research (zmfu), University Hospital Ulm, Germany; 2 JSRH Zentralklinikum Suhl GmbH, Suhl, Germany; 3 JSRH Klinikum Karlsbad-Langensteinbach GmbH, Karlsbad-Langensteinbach, Germany

ANATOMICAL ANALYSIS FOR TRANSFORAMINAL APPROACH OF PERCUTANEOUS ENDOSCOPIC LUMBAR DISCECTOMY
Fumitake Tezuka, Toshinori Sakai, Yuichiro Goda, Yoichiro Takata, Kosaku Higashino, Koichi Sairyo
Department of Orthopedics, The University of Tokushima Graduate School

CERVICAL SPINE KINEMATIC DURING UNCONSTRAINED DAILY ACTIVITIES AFTER CERVICAL ARTHROPLASTY OR FUSION
Alphonse Lubansu, Cynthia Duc, Kamiar aminian, Veronique Feipel, Olivier De Witte, Marcel Rooze, Patrick Salvia
1 Department of Neurosurgery, Hôpital Erasme, Université Libre de Bruxelles (ULB), Brussels, Belgium; 2 Laboratory of Anatomy, Biomechanics and organogenesis (LABO), Université Libre de Bruxelles (ULB), Belgium

LONG-TERM ADMINISTRATION OF INTERMITTENT TERIPARATIDE (PTH1-34) ACCELERATES REMODELING OF BMP-INDUCED NEW BONE IN A RAT SPINAL FUSION MODEL.
Tokimitsu Morimoto, Takahi Kaito, Masafumi Kashii, Yohei Matsuo, Tsuyoshi Sugiura, Takahiro Makino, Motoki Iwasaki, Hideki Yoshikawa
Department of Orthopaedic Surgery, Osaka University Graduate School of Medicine

RECONSTRUCTION WITH EXPANDABLE CAGES AFTER SINGLE AND MULTILEVEL CORPECTOMIES FOR SPINAL METASTASES: A PROSPECTIVE CASE SERIES OF 60 PATIENTS
Daniel Lobatto, Godard de Ruiter, Jasper Wolfs, Wilco Peul, Mark Arts
1 Department of Neurosurgery, Medical Center Haaglanden, The Hague, The Netherlands; 2 Department of Neurosurgery, Leiden University Medical Center, Leiden, NL

CHANGE IN ADC AND FA VALUES OF THE NORMAL LUMBAR SPINAL ROOT AS A FUNCTION OF DISTANCE FROM THE JUNCTION OF THE DURA MATER
Ryo Miyagi, Toshinori Sakai, Eiko Yamabe, Hiroshi Yoshioka
Department of Orthopedics, The University of Tokushima Graduate School; Department of the Radiological Sciences, University of California Irvine

ACCURACY OF INTRAOPERATIVE FROZEN SECTION DIAGNOSIS IN SPINAL CORD LESIONS
Toru Hirano, Kei Watanabe, Keichi Katsumi, Masayuki Ohashi, Naoto Endo
Niigata University Medical and Dental Hospital
P38 MITOGEN ACTIVATED PROTEIN KINASE INHIBITOR AMELIORATES MOTOR FUNCTION BY INHIBITION OF CHONDROITIN SULFATE PROTEOGLYCANS AFTER SPINAL CORD INJURY IN RAT

Tadao Morino, Tadanori Ogata, Hideki Horiuchi, Shintaro Yamaoka, Hiromasa Miura

1) Spine Center, Ehime University Hospital, Tohon-city, Ehime 791-0295, Japan;
2) Department of Bone and Joint Surgery, Ehime University School of Medicine, Tohon-city, Ehime 791-0295, Japan

15:30 ADJOURN – END
Meet KISCO International during Eurospine congress from the 1st to the 3rd of October 2014 booth B12
Scientific Programme

E-Posters
Adult Thoracolumbar Spine, degenerative, deformity

P1 CORTICAL BONE TRAJECTORY AT L5 LUMBAR LEVEL HAD POTENTIAL RISK FOR L4/5 FACET JOINT VIOLATION IN ELDERLY PATIENTS: A SIMULATED MORPHOMETRIC ANALYSIS USING 3D-CT.
Yuichiro Abe, Shigenobu Sato, Kentaro Yamada
Orthopedic surgery, Eniwa, Japan

P2 RADIOLOGICAL OUTCOMES AND COMPLICATIONS OF S2 ALAR-ILIAC FIXATION IN ADULT PATIENTS WITH OSTEOPOROTIC SPINE
Meric Enercan, Sinan Kahraman, Bahadir Gokcen, Ayhan Mutlu, Tunay Sanli, Erden Erturer, Cagatay Ozturk, Azmi Hamzaoglu
Orthopedics and Traumatology, Istanbul, Turkey

P3 IMPROVEMENT OF ACCURACY OF PEDICLE SCREW PLACEMENT INTO THORACOLUMBAR SPINE BY THE C-ARM ROTATION TECHNIQUE: IMPORTANCE OF SCREW ENTRY POINTS TO PREVENT MISPLACEMENT.
Hideki Horiuchi, Tadanori Ogata, Morino Tadao, Shintaro Yamaoka, Hiromasa Miura
1) Spine Center, Ehime University Hospital, Tohon-city, Ehime 791-0295, Japan
2) Department of Bone and Joint Surgery, Ehime University School of Medicine, Tohon-city, Ehime, Japan

P4 KEY SPINO-PELVIC PARAMETERS AFFECTING TO SAGITTAL BALANCE IN POSTOPERATIVE ADULT SPINAL DEFORMITY PATIENTS WITH MINIMUM TWO-YEARS FOLLOW-UP
Satoshi Inami, Hiroshi Taneichi, Hiroshi Moridaira, Daisaku Takeuchi, Yo Shiba
Department of Orthopedic Surgery Dokkyo Medical University, Tochigi, Japan

P5 REOPERATION AND REVISION RATES FOLLOWING INSTRUMENTED LUMBAR SPINE FUSION: MINIMUM OF TWO YEARS FOLLOW-UP
Tero Irmola, Arja Häkkinen, Ilkka Marttinen, Marko Wahlman, Kimmo Vihtonen, Tuukka Porkka, Seija Rautiainen, Marko Neva
Department of Orthopaedics and Traumatology, Tampere University Hospital, Tampere, Finland

P6 THORACIC OR LUMBAR SPINAL SURGERY IN PATIENTS WITH PARKINSON’S DISEASE A TWO-CENTER EXPERIENCE OF 32 CASES
Hiroaki Kimura, Shunsuke Fujibayashi, Bungo Otsuki, Mitsuru Takemoto, Jitsuhiko Shikata, Seiichi Odate, Shuichi Matsuda
Department of Orthopedic Surgery, Graduate School of Medicine, Kyoto University, Department of Orthopedic Surgery, Gakkentoshi Hospita, Kyoto, Japan

P7 SAGITTAL DECOMPENSATION FOLLOWING LONG FUSION TO SACRUM IN ADULT SPINAL DEFORMITY: CAN PREVENT SAGITTAL DECOMPENSATION BY OVERCORRECTION?
Jung-Hee Lee, Jin-Soo Kim, Il-Heon Choi, Hyun-Seok Oh, Chul-Hee Lee, Wook-Jae Song
Orthopaedic Surgery, Seoul, South Korea

P8 COULD LESS BE MORE IN THE ASSESSMENT OF PATIENT-RATED OUTCOME IN ADULT SPINAL DEFORMITY?
Anne F Mannion, Alba Vila-Casadumunt, Montserrat Domingo-Sòbat, Sarah Wunderlin, Emre Acaroglu, Ahmet Alanay, Francisco J Sánchez Pérez-Grueso, Ferran Pellisé, Frank Kleinstück, ESSG European Spine Study Group
Schulthess Klinik, Hospital Universitari Vall Hebron, Hospital Universitario La Paz, Ankara Spine Center, Acibadem Maslak Hospital
P9  CAUDA EQUINA SYNDROME - A CLINICAL DILEMMA
Navraj S Nagra, Ravi Badge, John Stephenson, Hiren Divecha, Irfan Siddique, Saeed Mohammed, Rajat Verma
Salford Royal NHS Foundation Trust, Stott Lane, Salford, M6 8HD, UK, University of Manchester, Oxford Road, Manchester, M13 9PL, UK

P10  ALLOGRAFT ALONE VERSUS ALLOGRAFT WITH BONE MARROW CONCENTRATE FOR THE HEALING OF THE INSTRUMENTED POSTEROLATERAL LUMBAR FUSION
David Náhlík, Radek Hart, Martin Komzák, Milo Puskeiler, Pavel Jajtner
Department of Orthopaedics and Traumatology, Žnojmo, Czech Republic

P11  CLINICAL CORRELATION OF SRS-SCHWAB CLASSIFICATION WITH HRQOL MEASURES IN A PROSPECTIVE NON-US COHORT OF ASD PATIENTS
Dennis Hallager Nielsen, Lars V. Hansen, Casper R. Dragsted, Martin Gehrchen, Benny Dahl
Department of Orthopaedic Surgery, Spine Section, Rigshospital, Copenhagen, Denmark

P12  ANALYSIS OF COMPLICATIONS IN THE SURGICAL TREATMENT OF SPONDYLOLISTHESIS.
Tomasz Potaczek, Andrzej Smetkowski, Maciej Tesiorowski, Pawel Radlo, Barbara Jasiewicz
Department of Orthopedic Surgery and Rehabilitation, Zakopane, Poland

P13  LIFESTYLE-RELATED DISEASES AFFECT SURGICAL OUTCOMES AFTER POSTERIOR LUMBAR INTER BODY FUSION
Hironobu Sakaura, Toshitada Miwa, Yusuke Kuroda, Tetsuo Ohwada
Kansai Rosai Hospital, Orthopaedic Surgery, Amagasaki, Japan

P14  A COMPARATIVE STUDY TO ASSESS FUSION RATE DIFFERENCES BETWEEN TITANIUM AND POLYETHYREHERKETONE(PEEK) CAGES IN LUMBAR TLIF PROCEDURE
Gemma Vilà Canet, Anna Isart Torruella, Augusto Covaro, Ana Garcia de Frutos, M. Teresa Ubierna Garcés, Enric Cáceres Palou
ICATME, Hospital Universitari Quiron-Dexeus, Barcelona, Spain

P15  MID- AND LONG-TERM CLINICAL OUTCOMES OF CORRECTIVE FUSION SURGERY WHICH DID NOT ACQUIRED SUFFICIENT PI-LL VALUE FOR ADULT SPINAL DEFORMITY
Kentaro Yamada, Yuichiro Abe, Yasushi Yanagibashi, Takahiko Hyakumachi, Shigenobu Sato
Wajokai Eniwa Hospital. Department of orthopaedic surgery, Eniwa city, Hokkaido, Japan

Adult Thoracolumbar Spine, non-degenerative

P16  POST-TRAUMATIC SPONDYLODISCITIS. SERIES OF 12 PATIENTS AND REVIEW OF THE LITERATURE
Hamdan Abdelrahman, Mootaz Shousha, Heinrich Böhm
Department of Spine Surgery, Bad Berka, Germany - Assiut Universty Hospitals, Egypt

P17  TREATMENT FOR ACUTE OR SUBACUTE OSTEOPOROSIS VERTEBRAL COMPRESSION FRACTURES: PERCUTANEOUS VERTEBROPLASTY VERSUS FACETS BLOCKING (A CLINICAL RANDOMIZED STUDY)
Dingjun Hao, Biao Wang, Hua Guo, Xiaodong Wang
Hong Hui Hospital, Xi’an Jiaotong University College of Medicine, Xi’an, China

P18  TRAUMATIC CAUDA EQUINA HERNIATION OCCURRING WITH LUMBAR BURST FRACTURES IN FORTY-NINE PATIENTS
Dingjun Hao, Baorong He, Liang Yan
Spine Surgery, Xi’an, China

P19  DENOSUMAB AS AN ALTERNATIVE TREATMENT FOR HARDLY RESECTABLE GIANT CELL TUMORS (GCT) OF THE SPINE
Diego Valverde Belda, Antonio MARTIN BENLLOCH, Ana MORALES CODINA, Sonia MUÑOZ DONAT, Rafael AGUIRRE GARCIA, Jose Manuel VENTURA CERDA, Ana Cristina CERCOS LLETI
H.U. Dr. Peset de Valencia, Valencia, Spain
LONG POSTERIOR FIXATION WITH SHORT FUSION FOR THE TREATMENT OF TB SPONDYLITIS OF THE THORACIC AND LUMBAR SPINE WITH OR WITHOUT NEUROLOGIC DEFICIT
Shih-Tien Wang, Chien-Lin Liu
School of Medicine, National Yang Ming University and Department of Orthopedics and Traumatology, Taipei Veterans General Hospital, Taipei, Taiwan

THE POSTERIOR SURGICAL TREATMENT FOR FOCAL KYPHOSIS IN UPPER-MIDDLE THORACIC SPINE
Yan Zeng, Zhongqiang Chen, Zhaoqing Guo, Qiang Qi, Weishi Li, Chuiguo Sun
Orthopedics, Peking University Third Hospital, Beijing, China

CYTOKINE PROFILE IN HERNIATED LUMBAR DISC CHANGES WITH TIME OF SCIATICA
Arpad Bozsodi, Aron Lazary, Peter Paul Varga
National Center for Spinal Disorders, Budapest, Hungary

CHRONIC PROGRESSIVE COMPRESSION INDUCES THE PHENOTYPE CHANGES OF THE ACTIVATED MICROGLIA/MACROPHAGES IN THE SPINAL CORD OF SPINAL HYPEROSTOTIC TWY/ TWY MOUSE: IMPLICATIONS IN HUMAN CERVICAL COMPRESSIVE MYELOPATHY.
Takayuki Hirai, Kenzo Uchida, Hideaki Nakajima, Tomoo Inukai, Naoto Takeura, Shuji Watanabe, Hiastoshi Baba
Orthopaedics and Rehabilitation Medicine, Faculty of Medical Science, Fukui, Japan

SPONTANEOUS REGRESSION MECHANISMS OF LUMBAR DISC HERNIATION: ROLE OF APOPTOSIS AND MACROPHAGES DURING DISC TISSUE RESORPTION
Shigeru Kobayashi, Riya Kosaka, Adam Meir
1. Dept of Orthopaedics and Rehabilitation Medicine, Faculty of Medical Sciences, The University of Fukui, Fukui, Japan; 2. Dept of Orthopaedic Surgery, Hirakata City Hospital, Osaka, Japan; 3. Spine Unit, National Hospital for Neurology and Neurosurgery, London, UK

PHYSICAL LIMITATIONS TO TISSUE ENGINEERING OF INTERVERTEBRAL DISC: LIMITED EFFECT OF TRANSFORMING GROWTH FACTOR (TGF), FIBROBLAST GROWTH FACTOR (FGF)‐2 AND OSTEOGENIC PROTEIN (OP)-1
Shigeru Kobayashi, Kenichi Takeno, Tsuyoshi Miyazaki, Riya Kosaka, Adam Meir
1. Department of Orthopaedics and Rehabilitation Medicine, Faculty of Medical Sciences, The University of Fukui, Fukui, Japan; 2. Department of Orthopaedic Surgery, Hirakata City Hospital, Osaka, Japan; 3. National Hospital for Neurology and Neurosurgery, Spine Unit, Queen Square, London, UK

ALENDRONATE STIMULATES GLYCOSAMINOGLYCAN PRODUCTION IN DISC CELLS
Shigeru Kobayashi, Tsuyoshi Miyazaki, Adam Meir, Riya Kosaka
1. Department of Orthopaedics and Rehabilitation Medicine, Faculty of Medical Sciences, The University of Fukui, Fukui, Japan; 2. National Hospital for Neurology and Neurosurgery, Spine Unit, Queen Square, London, UK; 3. Department of Orthopaedic Surgery, Hirakata City Hospital, Osaka, Japan

INTRATHecal INJECTION OF AUTOLOGOUS MACROPHAGES GENETICALLY MODIFIED TO SECRETE BDNF BY EX VIVO ELECTROPORATION IMPROVES HIND LIMB MOTOR FUNCTION AFTER THORACIC SPINAL CORD INJURY IN RATS.
Tadanori Ogata, Tadao Morino, Hideki Horiuchi, Shintaro Yamaoka, Hiromasa Miura
1) Spine Center, Ehime University Hospital, Tohon-city, Ehime 791-0295, Japan; 2) Department of Bone and Joint Surgery, Ehime University School of Medicine, Tohon-city, Ehime 791-0295, Japan

PATHOGENESIS OF CERVICAL MYELOPATHY IN CHRONIC CERVICAL CORD COMPRESSION MODEL OF RAT
Shigeru Kobayashi, Masafumi Kubota, Hisao Iwamoto, Riya Kosaka, Katsuhiro Hayakawa
1Department of Orthopaedic and Rehabilitation Medicine, University of Fukui, Fukui, Japan; 2 Department of Orthopaedic Surgery, Iwamoto Orthopaedic Clinic, Osaka, Japan; 3Department of Orthopaedic Surgery, Hirakata City Hospital, Osaka, Japan; 4 Department of Orthopaedic Surgery, Aiko Orthopaedic Clinic, Osaka, Japan
P29 INDIANHEDGEHOG SIGNALING INDUCES HYPERTROPHY AND DIFFERENTIATION OF CHONDROCYTES IN THE OSSIFICATION FRONT OF HUMAN CERVICAL OPLL.
Kenzo Uchida, Hideaki Nakajima, Shuji Watanabe, Ai Yoshida, Hitoshi Baba
Orthopaedics and rehabilitation medicine, faculty of medical sciences, university of Fukui, Dept. Orthopedics and Rehabilitation Medicine, Eiheiji town, Japan

P30 RAPAMYCIN REDUCES DEVELOPMENT OF NEUROPATHIC PAIN AFTER SPINAL CORD INJURY IN MICE.
Satoshi Tateda, Haruo Kanno, Hiroshi Ozawa, Kenichiro Yahata, Seiji Yamaya, Eiji Itai
Orthopaedic Surgery, Orthopaedic Surgery of Tohoku University Graduate School of Medicine, Sendai, Japan

P31 LOW-ENERGY EXTRACORPOREAL SHOCK WAVE THERAPY PROMOTES VEGF EXPRESSION AND DEMONSTRATES A NEUROPROTECTIVE EFFECTS AFTER SPINAL CORD INJURY IN RATS
Kenichiro Yahata, Hiroshi Ozawa, Haruo Kanno, Seiji Yamaya, Satoshi Tateda, Kenta Ito, Hiroaki Shimokawa, Eiji Itai
Orthopaedic Surgery, Tohoku University Graduate School of Medicine, Sendai, Japan

Basic Science - Biomechanics

P32 WHAT IS SAFER IN OSTEOPOROTIC VERTEBRAL COMPRESSION FRACTURES, KYPHOPLASTY OR VERTEBROPLASTY? A STUDY IN VERTEBRAL ANALOGS
Fahad Abduljabbar, Abdulaziz Aljurayyan, Saad Alqahtani, Zeeshan Sardar, Rajeet Singh Saluja, Jean Ouellet, Michael Weber, Thomas Steffen, Lorne Beckman, Peter Jarzem
McGill Scoliosis & Spine Centre, McGill University Health Centre, Montreal, Canada, Department of orthopedic surgery, King Abdulaziz University, Jeddah, Saudi Arabia

P33 SPINAL CANAL ENCROACHMENT CAUSED BY AXIAL LOADING FOR OSTEOPOROTIC THORACOLUMBAR VERTEBRAL FRACTURES INVOLVING THE POSTERIOR VERTEBRAL WALL - MORPHOLOGY OF THE INJURED POSTERIOR WALL CAUSING THE INSTABILITY
Tetsuo Hayashi, Takeshi Maeda, Eiji Mori, Tsuneaki Takao, Keiichiro Shiba
Spinal Injuries Center, Orthopedic Surgery, Fukuoka, Japan

P34 GRADED POSTERIOR RELEASE IN SCOLIOSIS SURGERY: HOW MUCH IS ENOUGH?
Roderick M. Holewijn, Tom P.C. Schlösser, Arno Bisschop, Albert J. van der Veen, Theodoor H. Smit, Barend J. van Royen, Marinus de Kleuver, Rene M Castelein
VU University Medical Center (VUmc), Orthopedic Surgery, Amsterdam, Netherlands

P35 INTRADISCAL PRESSURE DEPENDS ON RECENT LOADING HISTORY AND HIGHLY CORRELATES WITH DISC HEIGHT AND COMPRESSIVE STIFFNESS
Pieter-Paul A. Vergroesen, Albert J. van der Veen, Kaj S. Emanuel, Barend J. van Royen, Idsart Kingma, Theo H. Smit
Orthopaedic Surgery, VU University Medical Center, Amsterdam, Netherlands

Cervical Spine

P36 LATERAL MASS SCREWS ACCORDING TO A MODIFIED ROY-CAMILLE TECHNIQUE FOR POSTERIOR CERVICAL SPINE STABILIZATION. RESULTS FROM 496 SCREWS (62 PATIENTS)
Cédric Barrey, Eurico Freitas, Olivier Launay, Frederic Michel, Gilles Perrin
Hospices Civils de Lyon and University Claude Bernard, Lyon, France

P37 INTRAOPERATIVE ASSESSMENT OF THE MAXIMAL INSERTION TORQUE FOR LATERAL MASS SCREWS - RELATIONSHIP OF INSERTION TORQUE AND CIRCUMFERENCE CLEAR ZONE OF SCREW
takashi chikawa, Koichi Sairyo, Akira Shinohara, takuya mihoro
Orthopaedic surgery, Municipal Hopsital, Tokushima, Japan
P38 RESULTS OF AN INDEPENDENT STATISTICAL ANALYSIS FROM THE FDA-APPROVED CLINICAL AND RADIOPHGRAPIC STUDY OF THE PRESTIGE LP CERVICAL DISC AT 24 MONTHS
Matthew F Gornet, Francine W Schranck, Feng Tang, Hui Nian, Frank E Harrell
Spine Research Center, Saint Louis, USA

P39 PREVERTEBRAL VASCULAR AND ESOPHAGEAL CONSIDERATION DURING PERCUTANEOUS CERVICAL DISC PROCEDURES
Gyu Yeul Ji, Chang Hyun Oh, Jae Kyun Jeon, Dong Ah Shin, Young Sul Yoon, Keung Nyun Kim
Department of Neurosurgery, Guro Teun Teun Hospital, Seoul, Korea; Department of Neurosurgery, Spine and Spinal Cord Research Institute, Yonsei University College of Medicine, Seoul, Korea

P40 MORPHOLOGICAL CHANGES OF THE CERVICAL SPINAL CANAL AND CORD DUE TO AGING ON MR IMAGING
Shigeru Kabayashi, Katsuhiko Hayakawa, Takashi Nakane, Riya Kosaka
1. Department of Orthopaedic and Rehabilitation Medicine, Faculty of Medical Sciences, The University of Fukui, Fukui, Japan; 2,3. Department of Orthopaedic Surgery, Aiko Orthopaedic Hospital, Aichi, Japan; 4. Department of Orthopaedic Surgery, Hirakata City Hospital, Osaka, Japan

P41 EARLY RESULTS OF A SEMI-RIGID CERVICAL IMPLANT IN THE TREATMENT OF CERVICAL DISC DISEASE.
Ewa Lipik, Tomasz Potaczek, Maciej Tesiorowski, Daniel Zarzycki
Department of Orthopedic Surgery and Rehabilitation, Zakopane, Poland

P42 ANTERIOR CERVICAL INTERBODY FUSION USING A CAGE; A PROSPECTIVE FOLLOW UP
Andreas Lunzer, Andreas Peter, Petra Krepler, Josef Georg Grohs, Renhard Windhager
Department of Orthopedics, Medical University Vienna, Vienna, Austria

P43 RESEARCH ON THE SURGICAL SAFETY OF ONGOING ADMINISTRATION OF LOW-DOSE ASPIRIN IN CERVICAL LAMINOPLASTY
Kazuki Miyama, Takaumi Inoue, Masayuki Nakahara
Fukuoka Wajiro Hospital, Department of spine and spinal surgery, Fukuoka city, Japan

P44 RECURRENT FORAMINAL STENOSIS AFTER POSTERIOR CERVICAL FORAMINOTOMY: MEASUREMENT OF FORAMEN AND FACET BY COMPUTED TOMOGRAPHY.
Tatsuki Mizouchi, Akiyoshi Yamazaki, Tomohiro Izumi, Ryuuta Fujikawa
Spine Center, Department of Orthopaedic Surgery, Niigata, Japan

P45 CAN ANGLED SAGITTAL MRI OF NEURAL FORAMEN COMBINED WITH NEUROLOGICAL FINDINGS DETERMINE THE AFFECTED NERVE ROOT IN CERVICAL RADICULOPATHY?
Masatoshi Morimoto, Akihiro Nagamachi, Kosuke Sugiura
Mitoyo General Hospital, Kagawa Orthopedic Surgery, Kagawa, Japan

P46 QUANTITATIVE ANALYSIS AND PROGNOSTIC VALUE OF CHANGES IN SPINAL CORD SIGNAL INTENSITY ON MAGNETIC RESONANCE IMAGING IN PATIENTS WITH CERVICAL COMPRESSION SYMPTOMATIC MYELOPATHY
Hideaki Nakajima, Kenzo Uchida, Naoto Takeura, Kazuya Honjoh, Takumi Sakamoto, Hisatoshi Baba
Department of Orthopaedics and Rehabilitation Medicine, Faculty of Medical Sciences, Fukui, Japan

P47 INTERLAMINAR BONY FUSION AFTER C3-6 DOUBLE DOOR LAMINOPLASTY FOR CERVICAL SPONDYLOTIC MYELOPATHY: ITS PREDICTORS AND CHARACTERISTICS
Yoshiro Nanjo, Hideki Nagashima, Shinji Tanishima, Tokumitsu Mihara, Chikako Takeda, Masaki Yoshida
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Wednesday, October 1, 2014

12:00-14:00  LUNCH WORKSHOPS

Lounge Pasteur  MEDTRONIC
Focus on Degenerative : Treating and Fusing Aging Spine Patients What are the lessons learned?
Jörg Franke, France - Duccio Boscherini, Switzerland - Patrick Kiely, Ireland

Room Tête d’Or 2  GLOBUS
Latest innovations in Total Motion Segment Preservation.

Room Rhône 3B  INVIBIO
Expert panel : do PEEK-OPTIMA® spinal rods constructs bridge the treatment gap?

Room Rhône 1  JOIMAX
Minimally Invasive Endoscopic Surgery: Where are we to date? TESSYS® / iLESSYS®, Degenerative indications, UK Study Report, German Study Report, NL Study Report, EndoLIF® /Percusys®, CESSYS®, Discussion.
Dr. Ralf Wagner - Dr. Alastair Gibson - Dr. Guntram Krzok - Dr. Menno Iprenburg

Room Bellecour 3  ZIEHM IMAGING
Controversies in intraoperative spinal imaging mobile vs. fixed systems.
Christian Krebek, Germany - Christoph Josten, Germany - Christian Racopoulos, Belgium Peter Vajkoczy, Germany

Room Roseraie 2  EOS IMAGING
EOS added value in Spine pathologies treatments

Room St Clair 2  SIGNUS MEDIZINTECHNIK
Claudius Thomé, Austria Florian Ringel, Germany
EUROSPINE 2015
September 2–4, 2015
Bella Center Copenhagen, Denmark

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Administrative & Scientific Secretariat:
EUROSPINE, the Spine Society of Europe
www.eurospine.org
info@eurospine.org
Thursday, October 2, 2014

12:00-14:00 LUNCH WORKSHOPS

Room Bellecour 1  ALPHATEC
Less Invasive Solutions: Complex Spine Pathology  “MIS Lumbar Long Fixation”
“The Use of Zodiac and TeCorp in Surgical Decompression and Spinal Reconstruction of patients with Vertebral Metastases”
Jayesh Trivedi, Oswestry, UK - Michael Wong, Australia - Nikolai Gabrovsky, Bulgaria

Room Rhône 3A  AOSpine
AOSpine Knowledge Forum - Infections

Room St Clair 3B  BAXTER

Room Rhône 1  BIOMET
“Current Concepts in 360° Lumbar Fusion”
Mr Nicholas BIRCH, Dr. Marco Teli, Dr. Jasper Wolfs, Dr. Hagen Skibbe, Dr. Ryan DenHaese, Dr. Bart Poffyn,

Room Tête d’Or 1  DEPUY SYNTHES
Direct Vertebral Derotation in AIS : myth or reality? Ulf Liljenqvist, Germany

Room Bellecour 3  EUROPEAN SPINE JOURNAL
European Spine Journal, how to do good reviews? Constantin Schizas

Room St Clair 4  Eurospine Company
Transforaminal cage, New Technology. Pr Fuentes

Room Tête d’Or 2  GLOBUS
Application of expandable interbody cages in MIS
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Thursday, October 2, 2014

12:00-14:00 LUNCH WORKSHOPS

Room Roseraie 2  K2M
Adolescent / Pediatric

Room Rhône 3B  MEDACTA

Room Rhône 2  MEDICREA
Innovative technology solutions to spinal deformity: personalized spine surgery

Lounge Pasteur  MEDTRONIC
Focus on Deformity: Realigning through Osteotomies What are the right tools to make it easier to achieve?
Pierre Roussouly, France - Ian Harding, UK - Jean-Charles Le Huec, France

Room St Clair 2  NUVASIVE
XLIF Deformity and Advanced Applications

Room St Clair 3A  PREMIA SPINE
Surgical alternatives for Severe Spinal Stenosis and Spondylolisthesis Decompression & Fusion Vs TOPSTM System Posterior Arthroplasty

Room St Clair 1  SPINEWAY
Adolescent Scoliosis Treatment: Experience with a Global Direct Correction System
Karen Weissmann, Chile - Philippe Mazeau, France - Carlos Barrios, Spain

17:30-18:30 WORKSHOP

Room Gratte Ciel 2  MEDTECH
HOT TOPIC SESSION:
“Robotic assistance and image guided surgery: early experience of spine application”
Friday, October 3, 2014

12:00-14:00 LUNCH WORKSHOPS

Room St Clair 4 KISCO Cervical spine kyphosis: what are the surgical options?
- Main biomechanical characteristics of the cervical spine and indications for fusion or non-fusion.
  Dr Marco Teli, Orthopaedic Department - Civile Hospital, Legnano - Italy
- Indications, surgical technique and clinical follow up with “C'Varlock” - a cervical interbody cage with lordosis adjustment
  Dr Mikael Orabi, Neurosurgery Department - University Hospital Lariboisière, Paris - France

Lounge Pasteur MEDTRONIC Focus on Fracture : Navigating your way around Fracture Care : Do you know the Optimal route ?
  Charles Court, France John-Michael Duff, Switzerland Yann-Philippe Charles, France

Room Tête d’Or 2 AOSpine The new AOSpine Spine Injury Classification System
- TLICS, AO-Magerl and others - Why do we need a better classification?
  Moderator: Max Reinhold
- The new AOSpine Thoracolumbar Spine Injury Classification System
  Moderator: Klaus Schnake
- Outlook on the upcoming AOSpine Subaxial Spine Injury Classification System
  Moderator: Cumhur Öner
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QUICK FACTS

When: March 23-27, 2015
Where: Barcelona, Spain
Maximum Attendees: 30 participants (priority will be given to EUROSPINE members)
Schedule: Course must be attended from Monday through Friday
Registration Fee: EUR 400,- for EUROSPINE members
EUR 600,- for non-members
CME Credits: Applied (27 CME)
Language: English

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Margareta Nordin Dr. Med. Sci.¹
Christine Cedraschi PhD
Pierre Côté PhD
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MODULES
- Conceptual Overview of Clinical Research
- Randomized Controlled Trials
- Cohort Studies
- Systematic Reviews
- Qualitative Studies

More Information and Registration at www.eurospine.org/ResearchCourse until February 27, 2015
Future Meetings

EUROSPINE 2014
October 1-3
Lyon, France

Task Force Research Course 2015
March 23-27
Barcelona, Spain

2nd Spring Speciality Meeting 2015
- a joint Meeting with SRS
April 23-25 - Barcelona, Spain

EUROSPINE 2015
September 2-4
Copenhagen, Denmark

EUROSPINE 2016
October 5-7
Berlin, Germany

EUROSPINE 2017
October 11-13
Dublin, Ireland

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LUNCH SYMPOSIUM
Thursday, October 2
12:00 - 14:00 (Lunch Workshop) • Roseraie 2 (Level 3)
Current Concepts & Future Directions for Managing Pediatric & Adolescent Spinal Deformities

WORKSHOP FACULTY:
Benny Dahl, MD, PhD, DMSc
René Castelein, MD, PhD
Enrique Garrido, MD

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WITH YOU EVERY STEP OF THE WAY.

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DePuy Synthes Welcome Reception
Wednesday, 1st of October, 2014
From 19.00 / Hotel Hilton

DePuy Synthes Symposium
Thursday, 2nd of October, 2014
12.00 – 14.00 / Tête d’Or 1 (level 1)
Direct Vertebral Derotation in AIS: Myth or Reality?
Chairman:
Prof. Dr. med. Ulf Liljenqvist (Germany)

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