Dear Colleagues,

Welcome to the 10th Interdisciplinary World Congress on Low Back & Pelvic Girdle Pain. In this brochure you will find the Preliminary Program.

This series of programs, initiated in 1992 by Andry Vleeming and the late Vert Mooney aims to promote and facilitate interdisciplinary knowledge and to create a consensus on prevention, diagnosis and treatment of acute and chronic lumbopelvic pain. Held every three years, this congress welcomes health care professionals, practitioners, academics, researchers and policymakers from all continents.

The theme of the 2019 World Congress is: APPLYING THE EVIDENCE TO REDUCE DISABILITY.

The program will be presented in the format of nine main sessions led by moderators and keynote speakers known for their expertise in selected areas. This will be followed by eight parallel sessions that highlight topic specific research. The primary subject areas that will address the dominant theme include; anatomy and biomechanics, motor control, surgical selection for degenerative low back pain, exercise interventions, fascia in lumbo-pelvic pain and stability, pelvic girdle pain (diagnostics, risk factors), lumbar pain, cognitive aspects of treatment, evidence based practice for low back pain and self-management.

The pre and post congress workshops will share clinician experience in the management of lumbopelvic pain. Poster presentations will illustrate the current worldwide research and innovative ideas in the field.

The congress is supported in cooperation with the Antwerp Convention Bureau, North American Spine Society (NASS), Department of Rehabilitation, Sciences and Physiotherapy University of Ghent Belgium, Vert Mooney Spine and Sport Foundation, as well as a wide array of academic societies from countries around the world.

We are happy that you could join us for the 10th edition here in Antwerp and we look forward to presenting a great program. Antwerp remains a forward-thinking metropolis, home to a dynamic and diverse community of artists and designers. It is where gastronomy meets architecture and we hope that you will have time to experience this charming city with all it has to offer.

A warm welcome,

Andry Vleeming, Lieven Danneels
Program Chairmen
10th Interdisciplinary World Congress on Low Back and Pelvic Girdle Pain
APPLYING THE EVIDENCE TO REDUCE DISABILITY

PROGRAM CHAIRS
Andry Vleeming, Belgium
Lieven Danneels, Belgium

SCIENTIFIC COMMITTEE
Andry Vleeming, Belgium
Lieven Danneels, Belgium
Ted Dreisinger, USA
Britt Stuge, Norway
Jaap van Dieën, The Netherlands
Bengt Sturesson, Sweden
Paul Hodges, Australia
Robert Schleip, Germany
Carla Stecco, Italy
Hanne Albert, Denmark
Jan Hartvigsen, Denmark
Maurits van Tulder, The Netherlands
Bart Koes, The Netherlands

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Andry Vleeming, Belgium
Lieven Danneels, Belgium
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Hanne Albert, Denmark
Jan Hartvigsen, Denmark
Paul Hodges, Australia
Robert Schleip, Germany
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Maurits van Tulder, The Netherlands
Carla Stecco, Italy
Bart Koes, The Netherlands
Annelie Gutke, Sweden
Heidi Prather, USA
F. Todd Wetzel, USA
Max Aebi, Switzerland
Marek Szpalski, Belgium
Theo Smit, The Netherlands
Pieter Coenen, The Netherlands
Mark Driscoll, Canada
Anneleen Malfliet, Belgium
Ruth Chimenti, USA
Linda van Dillen, USA
Jason Kutch, USA
Simon Spencer, UK
Andreas Schilder, Germany
César Fernández-de-las-Peñas, Spain
Alexander Tkachev, Russia
Michiel Schepers, The Netherlands
Jean Francois Chenot, Germany
Alice Kongsted, Denmark
Deidre Hurley-Osing, Ireland
Paul Jarle Mork, Norway
Inge Ris Hasen, Denmark
Thomas Kibsgård, Denmark

10th Interdisciplinary World Congress on Low Back and Pelvic Girdle Pain
APPLYING THE EVIDENCE TO REDUCE DISABILITY

ACCREDITATION
The 10th Interdisciplinary World Congress on Low Back & Pelvic Girdle Pain, Antwerp, Belgium from 28/10/2019-31/10/2019 has been accredited by:

- the European Accreditation Council for Continuing Medical Education (EACCME®) with 23 European CME credits (ECMEC®s). 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™.

- Pro-Q-Kine with 12 points for each day.

- NVMT with 24 subject-specific points, 6 points for each day. All other Dutch physiotherapists have 6 quality points for each day.
ENDORSING ORGANIZATIONS

- SIMEG - active sponsor of the surgical parallel session on Wednesday
- North American Spine Society
- Dept. of Rehabilitation, Sciences and Physiotherapy, University of Ghent
- Axxon Belgium - the Belgian Physiotherapy Professional Association
- HealthCare Auditing
- Afghan Association for Physical Therapy
- American Academy of Orthopaedic Manual Physical Therapy (AAOMPT)
- American Academy of Osteopathy (AOA)
- American Physical Therapy Association (APTA) Orthopaedic Section
- Asia-Oceanian Society of Physical and Rehabilitation Medicine (AOSPRM)
- ASCOFI, Asociacion Colombiana de Fisioterapia
- Asociación Española de Fisioterapia
- Association of Academic Physiatrists
- Association of Chiropractic, Malaysia
- Australian Association of Musculoskeletal Medicine AAMM
- Australasian College of Sports Physicians
- Australian Physiotherapy Association
- Australian Pilates Method Association
- Bahrain Physical Therapy Association (BPTA)
- Bangladesh Physiotherapy Association
- Belgian Back Society
- Belgian Chiropractors Union
- Cambodian Physiotherapy Association
- Canadian Academy of Manipulative Therapists
- Canadian Physiotherapy Association – Women’s Health Division
- Canadian Physiotherapy Association-Orthopaedic Division
- Chiropractic and Osteopathic College of Australasia
- Chiropractic Association of Ireland
- Chiropractic Association of South Africa
- Chiropractors’ Association of Australia
- Danish Association of Musculoskeletal Medicine (DSMM)
- Danish Musculoskeletal Physiotherapy Ass. DMPA
- Danish Physiotherapy Association
- Elsevier Limited
- Emirates Medical Association and Physiotherapy Society
- European Chiropractors’ Union (ECU)
- European Rolffing Association
- Exercise & Sports Science Australia ESSA
- Fascia Research Society
- Hong Kong Physiotherapy Association
- International Academy of Osteopathy (IAO)
- International Association of Structural Integrators
- International Federation of Orthopaedic Manipulative Physical Therapists (IFOMPT)
- International Federation for Manual and Musculoskeletal Medicine
- International Organization of Physical Therapists in Women's Health
- International Pelvic Pain Society
- International Society of Clinical Rehabilitation specialists (I.S.C.R.S.)
- International Society of physical and Rehabilitation Medicine (I.S.P.R.M.)
- Iran Sports Medicine Federation
- Institute of Registered Myotherapists of Australia (IRMA)
- Japanese Association of Chiropractors
- Japanese society of musculoskeletal physical therapy
- Japanese Physiotherapy Association
- Journal of Manipulative and Physiological Therapeutics
- Journal of Orthopaedic & Sports Physical Therapy JOSPT
- Journal of Rheumatology
- Keurmerk Fysiotherapie
- Korean Academy of Cyriax Orthopaedic Medicine
- Kuwait Physical Therapy Association
- Malaysian Physiotherapy Association
- Manipulation Association of Chartered Physiotherapists, U.K.
- Manual Therapy Association Belgium (MATHERA)
- McKenzie Institute International
- Musculoskeletal Physiotherapy Association (MPA)
- Myopain Seminars
- Nederlandse Vereniging voor Osteopathie
- New Zealand Chiropractors Association
- New Zealand Manipulative Physiotherapist Association (NZMPA)
- Nepal Physiotherapy Association
- North American Institute of Orthopaedic Manual Therapy (NAIOMT)
- Norwegian Manual Therapist Association
- Ontario Association of Osteopathic Manual Practitioners
- Osteopathy Australia
- Osteopaths New Zealand
- Physical Therapy Association of the Republic of China – Taiwan
- Philippine Physical Therapy Association
- Saudi Association of Neurological Surgery
- Saudi Physical Therapy Association
- Singapore Orthopaedic Society
- Singapore Physiotherapy Association
- Sociedad Iberoamericana de Información Sientifica (SIIC)
- Sociedade Brasileira de Fisioterapia
- SOMTY Finnish Association of Orthopaedic Manual Therapists
- SOTO-USA
- South African Society of Physiotherapy
- Spanish Association of Physiotherapists
- Spine Society of Australia
- Swedish Naprapathic Association
- Taiwan Physical Therapy Association
- Registered Massage Therapist Association of British Columbia
- The Rof Institute of Structural Integration
- The Vert Mooney Spine & Sport Foundation
- Turkish Physiotherapy Association
- Vereniging voor Sportgeneeskunde
- Verein zur Förderung der Faszienforschung e.V
- World Confederation for Physical Therapy
- World Federation of Chiropractic
- World Spine Society - WSS

### PROGRAM AT A GLANCE

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<td>ANATOMY &amp; BIOMECHANICS</td>
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### WORKSHOPS

- ANATOMY & BIOMECHANICS
- EXERCISE
- MOTOR CONTROL
- LUMBAR & SACROILIAC SURGERY
- POSTER PRESENTATIONS
- PRIMARY CARE FOR LBP
- SELF MANAGEMENT IN LBP
- SI BONE Darwin Room
- SMA Darwin Room
- LUMBAR PAIN
- PELVIC GIRDLE PAIN
- PARALLEL SESSIONS
- PRIMARY CARE FOR LBP
- POSTER PRESENTATIONS
- PRIMARY CARE FOR LBP
Please note: Wearing a badge is mandatory to have access to the congress area.

**Program Sunday, October 27**

17.30 – 18.30  Pre-registration  ATRIUM
17.30 – 18.30  Welcome Reception  ATRIUM

**Program Monday, October 28**

07.00  Registration open  ATRIUM

**MAIN SESSION**  ELISABETH HALL

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<td>08.20</td>
<td>Welcome</td>
<td>Andry Vleeming, Lieven Danneels</td>
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<td></td>
<td>Anatomy and Biomechanics: New insights into determinants and effects of mechanical load on the back</td>
<td>Jaap van Dieën &amp; Andry Vleeming</td>
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<tr>
<td>08.25</td>
<td>Introduction</td>
<td>Jaap van Dieën</td>
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<tr>
<td>08.30</td>
<td>Back loading and disc health</td>
<td>Theo Smit</td>
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<td>08.50</td>
<td>Back loading and back pain - What do we know about it? And what can we do with it?</td>
<td>Pieter Coenen</td>
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<tr>
<td>09.10</td>
<td>Can low-back loading be optimized to maintain or improve intervertebral disc health and prevent low-back pain?</td>
<td>Jaap van Dieën</td>
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<td>09.30</td>
<td>How do thoracolumbar fascia and intra-abdominal pressure affect the mechanical loading of the low-back?</td>
<td>Marc Driscoll</td>
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09.50  Relationships between trunk muscle activation and thoraco-lumbar kinematics in direction-related non-specific chronic low back pain subgroups during a sagittal bending task  Rebecca Hemming

10.00  Subgrouping children and adolescents with non-specific chronic low back pain: Preliminary multifactor cluster analysis based on psychosocial, biomechanical and physical parameters  Anne Tabard Fougère

10.10  Dynamic lumbar intervertebral motion sharing in back pain patients and controls  Alan Breen

10.20  Discussion

10.35  Morning break in the Exhibition Area

**Motor Control: Integration with modern pain neuroscience and making it work**  ELISABETH HALL

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<td>Introduction</td>
<td>Paul Hodges</td>
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<td>11.10</td>
<td>Differentiating pain mechanisms based on modern pain neuroscience</td>
<td>Ruth Chimenti</td>
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<td>11.30</td>
<td>A model for matching management (including motor control) to pain mechanisms</td>
<td>Paul Hodges</td>
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<td>11.50</td>
<td>Motor control and different pain mechanism groups</td>
<td>Anneleen Maiffiet</td>
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<tr>
<td>12.10</td>
<td>Movement break</td>
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<tr>
<td>12.15</td>
<td>New evidence of efficacy of management movement impairments in chronic low back pain: What does it take to make a change and does it work?</td>
<td>Linda van Dillen</td>
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</table>
Finding the central in centralized pain: Connectivity between the sensorimotor and pain networks in the human brain

Jason Kutch

Discussion

Lunch break in the Exhibition Area

Surgical selection for degenerative low back pain: How helpful is literature? In cooperation with NASS (North American Spine Society)
Moderators: F. Todd Wetzel & Heidi Prather

Introduction
F. Todd Wetzel

What constitutes “good” literature?
Max Aebi

The end of “non-specific low back pain”
F. Todd Wetzel

Proper non-operative care – The final word
Heidi Prather

Discussion
Moderator: Heidi Prather

Afternoon break in the Exhibition Area

Does the evidence support surgery for back pain?
Marek Szpalski

When is back pain not back pain?
F. Todd Wetzel

Questions and closing remarks
F. Todd Wetzel & Heidi Prather

Closure
Connective tissue matters: The role of fascia in lumbo-pelvic pain and stability  
ELISABETH HALL
Moderators: Robert Schleip & Carla Stecco

11.20  Introduction  
Robert Schleip

11.25  Fascial stiffness regulation: New insights and potential impact on lumbo-pelvic stability  
Robert Schleip

11.45  Anatomical continuities of thoracolumbar fascia  
Carla Stecco

12.05  Nociceptive capacity of the thoracolumbar fascia  
Andreas Schilder

12.20  Can manual therapy focus on the thoracolumbar fascia?  
An evidence-based ultrasonic exploration  
César Fernández-de-las-Peñas

12.35  Lunch break in the Exhibition Area & poster presentations in the Atrium

13.35  Bilateral real time ultrasound analysis of thoracolumbar fascia during breathing, slow and fast walking  
Tuulia Luomala

13.45  Self-myofascial release for chronic low back pain and stress: A controlled clinical trial  
Christopher-Marc Gordon

13.55  A pragmatic study comparing Fascial Manipulation ® and ‘general’ physical therapy for those with low back pain related diagnoses  
Julie Ann Day

14.05  Discussion

14.20  End of session

PARALLEL SESSION I  DARWIN HALL

14.30  Parallel session I - Anatomy in Darwin Hall

14.30  Introduction  
Jaap van Dieën

14.35  Flexion-relaxation ratio asymmetry and its relation with lateral trunk flexibility in individuals with and without chronic non-specific low back pain  
Kevin Rose-Dulcina

14.45  External force on the lumbar myofascial ring: Effect of hypaxial muscle contraction on the lumbar spine  
Mark Schuenke

14.55  Biomechanical effects of a flexible beam exoskeleton on low back loading during static bending and lifting tasks  
Axel Koopman

15.05  Is there a relationship between an individual’s stature, BMI and age with diurnal variation in spinal disc heights? A novel study using weight-bearing MRI  
Waseem Bashir

15.15  Comparison of lumbar multifidus and erector spinae muscle fiber characteristics between persons with NSCLBP and healthy controls  
Sjoerd Stevens

15.25  Discussion

15.35  Afternoon break in the Exhibition Area

16.05  Test-retest reliability and minimal detectable change of three-dimensional trunk motion parameters during a lifting task in chronic low back pain individuals  
Rita Fernandes
The immediate efficacy of Spinomed in the posture and equilibrium in patients with hyperkyphosis and vertebral fractures
Tomislav Kranjcec

Does pain reduction shortly after local injection predict response to corticosteroid injection in patients with Greater Trochanteric Pain Syndrome?
Stephane Genevay

The Watching Pregnancy Project; LBP occurrence, symptoms and healthcare use from 20-weeks’ gestation until 6-weeks after delivery
Sarah Liddle

Eye gaze markers indicate visual attention to threatening images in individuals with chronic back pain
Zoe Franklin

Discussion

End of session

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Lumbar range of motion is predicted by task-specific, but not by general measures of pain-related fear in patients with chronic low back pain
Thomas Matheve

Somatosensory afferents from the lumbo-pelvic area differently influenced the control of paravertebral muscles in people with chronic low back pain
Hugo Massé-Alarie

Discussion

Afternoon break in the Exhibition Area

Comparing individual lumbar muscles activation between indwelling and high-density surface electromyography
Jacques Abboud

Clinical assessments can discriminate altered body perception in patients with unilateral chronic low back pain, but not differences between affected and unaffected side
Raphael Meier

The impact of psychological stress on motor control: A systematic review
Timothy Doorson

Application of a 3D freehand ultrasound system for the measurement of lumbar multifidus volume: Protocol of a reliable study
Elise Bellon

Magnetic resonance imaging for the measurement of lumbar multifidus volume: Protocol of a reliable study
Saskia Bosch

Lumbar local dynamic stability is modified after rehabilitation in chronic low back pain patients: Results form a case control study
Arnaud Dupeyron

Discussion

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<td>Hanne Albert</td>
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<td>Does standard manual handling advice alter trunk muscle activity during a basic lifting task in healthy individuals? A pilot study</td>
<td>Valerie Sparkes</td>
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<td>The impact of a work-based condition management program on work absence and quality of life</td>
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<td>Recovery from musculoskeletal complaints: A systematic synthesis of qualitative literature with considerations for policy and practice</td>
<td>Alice Kongsted</td>
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<td>Association of attitudes towards chronic low back pain and evidence-based practice: A cross-sectional survey of a chiropractic institution</td>
<td>Katherine Pohlman</td>
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<td>15.15</td>
<td>Identifying design requirements for a passive exoskeleton for low back pain patients: A focus group study</td>
<td>Saskia Baltrusch</td>
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<td>Assessment of functioning and disability: Development of a web-based dialogue tool for patients with low back pain (the LBP-Tool)</td>
<td>Charlotte Ibsen</td>
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<td>Effects of foam rolling with additional vibration stimulation on the characteristics of the thoracolumbar fascia</td>
<td>Annika Griefahn</td>
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<td>The role of fascia and abdominal muscles in chronic pain with caesarean section</td>
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<td>Prevalence of low back pain in elite adolescent dancers</td>
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<td>16.55</td>
<td>Lumbar pain in dancers: differences between ballet and contemporary</td>
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Program Wednesday, October 30

07.30 Registration open

08.05 Parallel session IV - In Conjunction with SIMEG in Darwin Hall

08.25 Main session in Elisabeth Hall

MAIN SESSION

A new approach to old questions
Moderators: Hanne Albert & Jan Hartvigsen

08.25 Introduction
Hanne Albert

08.30 Stepwise program in treating patients with Modic changes
Michiel Schepers

08.50 The results of inflammation restoring treatment of acute lumbar disc herniations
Alexander Tkachev & Hanne Albert

09.10 Lumbar neurodynamic tests are accurate in identifying radicular pain due to disc herniation but fail in identifying foraminal stenosis
Haral Ekedahl

09.25 Topographic hybrid SPECT-CT scan for non-specific low back pain
Erik van de Kelft

09.35 Preliminary findings from an active surveillance reporting system for spinal manipulative therapy regulated providers and low back pain patients
Martha Funabashi

09.45 Movement break

09.50 Effectiveness and cost-effectiveness of neuromuscular exercise and back care counseling in female healthcare workers with recurrent non-specific low back pain: A two-year follow-up of a randomized controlled trial
Jaana Suni

10.05 Restorative neurostimulation for chronic low back pain: Long-term results
Christopher Gilligan

10.20 Brief intervention vs. multidisciplinary intervention in facilitating return to work in low back pain patients: Results from two randomized intervention studies including 948 patients with 100% follow-up
Ole Kudsk Jensen

10.35 Discussion

10.45 Morning break in the Exhibition Area

Who gets pelvic girdle pain, how to evaluate it?
Moderators: Britt Stuge & Annelie Gutke

11.15 Introduction
Britt Stuge

11.20 Prevalence and severity of low back- and pelvic girdle pain in pregnant Nepalese women
Britt Stuge

11.30 Physical function in pregnant women with pelvic girdle pain, asymptomatic pregnant and non-pregnant women – investigating the Timed Up and Go test, kinematic and spatiotemporal characteristics during gait and the Stork test
Lene Christensen

11.45 Hip radiograph findings in young, middle aged and older adults undergoing image guided sacroiliac joint injections for posterior pelvic pain
Heide Prather

12.00 Questions and Discussion

12.10 Lunch break in the Exhibition Area

12.30 Lunch Satellite Symposium in Darwin Hall (see page 58)
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<td>Can pelvic girdle pain be predicted by muscle activation during the active straight leg raise? A comparison between pregnant and non-pregnant women</td>
<td>Daniela Aldabe</td>
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<td>Annika Svahn Ekdahl</td>
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<td>Outcomes and outcome measurements in intervention studies of pelvic girdle pain, a systematic review</td>
<td>Francesca Wuytack</td>
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<td>Development of a consensus-based core outcome set for pelvic girdle pain</td>
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<tr>
<td>14.25</td>
<td>Introduction</td>
<td>Maurits van Tulder</td>
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<tr>
<td>14.30</td>
<td>What low back pain is and why we need to pay attention</td>
<td>Jan Hartvigsen</td>
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<td>14.50</td>
<td>Prevention and treatment of low back pain: Evidence, challenges and promising directions</td>
<td>Bart Koes</td>
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<td>15.40</td>
<td>Low back pain: A call for action</td>
<td>Maurits van Tulder</td>
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<td>16.00</td>
<td>Low back pain in primary care: Challenges for the future</td>
<td>Jean-François Chenot</td>
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<td>16.20</td>
<td>Global Spine Care Initiative: An international and interprofessional Delphi process to develop a Model of Care for people presenting with back pain and disability</td>
<td>Claire Johnson</td>
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<tr>
<td>16.35</td>
<td>Discussion</td>
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<td>16.50</td>
<td>Closure</td>
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<tr>
<td>19.30</td>
<td>Gala Dinner – Horta Antwerp</td>
<td>Reservation is mandatory</td>
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**PARALLEL SESSION IV - In Conjunction with SIMEG**

**Lumbar and sacroiliac surgery**
Moderator: Bengt Sturesson

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<th>Time</th>
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<tr>
<td>08.05</td>
<td>Lumbar spine: Introduction</td>
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<tr>
<td></td>
<td>Bengt Sturesson</td>
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<tr>
<td>08.10</td>
<td>Where is the optimal position of CBT screw?</td>
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<td>Seiji Otsuka</td>
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<td>08.20</td>
<td>Analysis of risk factors for early adjacent segment disease who</td>
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<td>underwent revision surgery within 5 years after lumbar spinal fusion</td>
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<td></td>
<td>Jaewan Soh</td>
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<td>08.30</td>
<td>Baseline patient characteristics commonly captured before surgery</td>
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<td>do not accurately predict outcome following lumbar microdiscectomy</td>
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<td>Stijn Willems</td>
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<td>08.40</td>
<td>Expanded indication and application of minimal invasive direct</td>
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<td>lateral interbody fusion (DLIF)</td>
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<td>Jaewan Soh</td>
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<td>08.50</td>
<td>Clinical and radiographic analysis of unilateral versus bilateral</td>
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<td>instrumentation in one-level lateral lumbar interbody fusion</td>
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<td></td>
<td>Masayoshi Fukushima</td>
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<td>09.00</td>
<td>The effectiveness of transforaminal endoscopic lateral recess decompression</td>
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<td>for lumbar spinal canal stenosis</td>
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<td>Fumitaki Tezuka</td>
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<td>09.10</td>
<td>Discussion</td>
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**Sacroiliac Joint**
Moderator: Bengt Sturesson

<table>
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<tr>
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<tbody>
<tr>
<td>09.30</td>
<td>Diagnostic procedures: Introduction</td>
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<td></td>
<td>Bengt Sturesson</td>
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<tr>
<td>09.40</td>
<td>Infiltration-test of the sacroiliac joint under OARM navigation:</td>
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<td>A feasibility study</td>
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<td>Nicolas Bronsard</td>
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<td>09.50</td>
<td>Grading of sacroiliac arthrogram and criteria for identifying</td>
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<td>technically-easy cases when performing sacroiliac intraarticular injections</td>
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<td>Daisuke Kurosawa</td>
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<td>10.00</td>
<td>Discussion</td>
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<td>10.10</td>
<td>How to measure outcome and effect?</td>
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<td>Thomas Kibsgård</td>
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<tr>
<td>10.20</td>
<td>Discussion</td>
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<td>10.30</td>
<td>Morning break in the Exhibition Area</td>
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**Free papers**
Moderator: Thomas Kibsgård

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<th>Time</th>
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<tr>
<td>11.00</td>
<td>Quantitative evaluation of the sacroiliac joint fixation in stress</td>
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<td>reduction on both sacroiliac joint cartilage and ligaments: A finite</td>
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<td>element analysis</td>
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<td>Daisuke Kurosawa</td>
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<td>11.10</td>
<td>The association between sacroiliac joint-related pain following</td>
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<td>lumbar spine surgery and spinopelvic parameters: A prospective</td>
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<td>multicenter study</td>
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<td>Juichi Tonosu</td>
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<tr>
<td>11.20</td>
<td>Minimally invasive sacroiliac joint fusion: Independent cohort</td>
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<td>Jean-Claude Lokietek</td>
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</table>
11.30 Clinical analysis in radiofrequency neurotomy for sacroiliac joint pain
Keisuke Ito

11.40 Pitfalls during sacroiliac joint arthrodesis for patients with sacral dysmorphism induced by lumbosacral transitional vertebrae
Daisuke Kurosawa

11.50 Discussion

12.00 Lunch break in the Exhibition Area

12.30 Lunch Satellite Symposium in Darwin Hall (see page 58)

13.40 Two-year results of a randomized controlled trial comparing minimally invasive sacroiliac joint fusion vs. conservative management for sacroiliac joint pain
Djaya Kools

13.50 Minimally invasive sacroiliac joint fusion using a novel hydroxyapatite-coated screw: two-year clinical and radiographic outcomes
Louis Rappoport

14.00 Clinical, radiological outcome and complications of computer navigated minimal invasive postero-medial sacro-iliac joint fusion using a threaded bolt system
Carlos de la Torre

14.10 Distraction arthrodesis of the sacroiliac joint: 2-year results of a descriptive prospective multi-center cohort study in 171 patients
Volker Fuchs

14.20 Discussion

14.40 Afternoon break in the Exhibition Area

15.10 Three-minute Poster Presentations
DARWIN HALL
Moderator: Bengt Sturesson

- The significant risk indicators for sacroiliac joint arthrodesis in patients with sacroiliac joint pain
  Daisuke Kurosawa

- Minimal invasive SI joint fusion: From the ODI to the PASS/ A retrospective analysis of a prospective case series
  Leo Massari

- Treatment of pain originating from the iliolumbar ligament combined with sacroiliac joint disorder: Report of two cases
  Takeshi Sasaki

- Classification and clinical characterization of pathologies for sacroiliac joint dysfunction
  Jyoji Shin

- The conformity of the painful sacroiliac joints using a best-fit algorism for CT-based bone models
  Kazuya Ito

- No difference in the distribution patterns of the mineralization in the subchondral bone underneath the auricular surface in patients with severe sacroiliac joint pain
  Tsuyoshi Morito

- No increase in the mineralization of the subchondral bone of the sacroiliac joint in patients with severe unilateral sacroiliac joint pain
  Tsuyoshi Morito

- Minimally invasive sacroiliac joint fusion using a novel hydroxyapatite-coated screw system improves functional outcomes in patients with sacroiliitis at one-year follow-up
  Charles Ledonio

15.40 Round table discussion and brain storming

16.25 Closure

16.30 SIMEG Members Meeting

17.30 End of meeting
08.00 Registration open

08.30 Parallel session V - Pelvic Girdle Pain in Elisabeth Hall
08.30 Parallel session VII - Exercise in Okapi Room
08.30 Parallel session VIII - Lumbar Pain in Darwin Hall
11.15 Parallel session VI - Epidemiology in Elisabeth Hall

PARALLEL SESSION V  ELISABETH HALL

Pelvic Girdle Pain
Moderators: Britt Stuge & Annelie Gutke

08.30 Introduction
Britt Stuge

08.35 Revisiting sacroiliac joint biomechanics – An in-vitro study
Niels Hammer

08.47 Ultrasound study of posterior sacroiliac ligaments in patients with chronic low back sacral pain
Plamen Todorov

08.59 Scintigraphic evaluation of uptake in the long dorsal sacroiliac ligament (LDSIL) in the diagnosis of mechanical dysfunction of the sacroiliac joint (SIJ Incompetence)
Jennifer Saunders

09.11 Pelvic girdle pain, not only in women!
Samantha Siegers

09.23 Anatomical landmarks of the intra-pelvic side-wall as sources of pain in women with and without pelvic girdle pain persisting after child birth
Thomas Torstensson

09.35 Discussion

10.45 Innominate mobility is associated with level of abdominal muscle activity during the ASLR in healthy individuals
Daniela Aldabe

10.57 Contraction of the transverse abdominal muscle in pelvic girdle pain is enhanced by pain provocation during the task
Jan Mens

10.09 Psychosocial and behavioural characteristics in women with persistent pelvic girdle pain 12 years postpartum
Cecilia Bergström

10.21 Discussion

10.40 Morning break in the Exhibition Area

PARALLEL SESSION VI  ELISABETH HALL

Epidemiology
Moderators: Maurits van Tulder & Bart Koes

11.15 Introduction
Maurits van Tulder

11.20 Fear avoidance beliefs affect physical activity in patients with lumbar spinal stenosis
Masakazu Minetama

11.30 Association between sarcopenia and low back pain in patients with lumbar spinal stenosis
Sachika Matsuo

11.40 An individual participant data meta-analysis of spinal manipulative therapy for chronic low back pain
Annemarie de Zoete

11.50 Reliability of physical functioning tests in patients with low back pain: A systematic review
Lenie Denteneer
Complier-average causal effect (CACE) analysis of the paracetamol in acute low back pain (PACE) trial
Marco Schreijenberg

Discussion

Imaging versus no imaging for low back pain: A systematic review, measuring costs, healthcare utilization and absence from work
Gijs Lemmers

Back pain rehabilitation related changes in automatically predicted ICF activity and participation categories
Thomas Kienbacher

Is one screening tool enough to identify the diverse spectrum of behavioral factors that may influence a poor outcome in musculoskeletal pain?
Sean Gibbons

The IMPACT of a referral algorithm for axial spondyloarthritis in chronic low back pain patients: Four month follow-up in patient reported outcomes
Maha Jamal

Discussion

Lunch break in the Exhibition Area
Effects of exercise therapy in patients with acute low back pain: A systematic overview of systematic reviews
Marc Karlsson

Long-term follow-up of a clinical pathway for patients with non-specific chronic low back pain: A pilot study
Veerle Stevens

Comparison of two multidisciplinary rehabilitation interventions in patients with chronic low back pain: A randomized controlled clinical trial
Anne Mette Schmidt

Effects of stabilization exercises on health-related quality of life in women with chronic low back pain
Maria Moussouli

Comparison of core strengthening exercises and general trunk exercises in patients with chronic low back pain using lumbo-pelvic stability tests and pelvic radius technique
Disha Chitalia

Back pain and lifestyle in female adolescent football players
Eva Skillgate

Inter-tester and intra-tester reliability studies: The evidence-based methodology has failed the evidence-based understanding
Jo Abbott

Discussion

Lumbar Pain
Moderators: Hanne Albert & Andry Vleeming

A randomised controlled trial comparing targeted thrust manipulation with a general manipulation thrust in low back pain: A general approach is as effective as specific
Christopher McCarthy

Patients with chronic low back pain show severe impairments of sensorial perception and discrimination in the pain area
Jorge Luis Ribas

Evaluation of dynamic postural balance in individuals with chronic lumbar pain through the Star Excursion Balance Test
Fabiana Silva

The association between lumbosacral transitional vertebra and degenerative lumbar stenosis
Janan Abbas

Agonistic tennis in adolescence: Correlation with scoliosis and low back pain, results of a cross-sectional study
Michele Romano

Negative beliefs about back pain are associated with persistent, high levels of low back disability in community-based women
Bothaina Alyousef

Discussion

Magnetic resonance imaging findings in the lumbar spine of adult patients with Scheuermann’s disease
Leena Ristolainen
09.55 Functional brain alterations in low back pain: A systematic review of EEG studies
Jessica van Oosterwijck

10.05 Impact of Tergumed therapy on isometric maximum strength in patients with lumbar arthrodesis
Didier Koch

10.15 Is adiposity associated with site-specific, musculoskeletal pain? A systematic review
Donna Urquhart

10.25 Daily relative physical strain is associated with physical fitness, depressive symptoms, fear avoidance beliefs and vitality but not with pain intensity in female healthcare personnel with recurrent low back pain
Tiina Kaistila

10.35 Discussion

10.45 Morning break in the Exhibition Area

11.15 Unstable sitting in individuals with acute low back pain: A center-of-pressure analysis
Roberto Meroni

11.25 Trunk strength and spinal mobility in spondyloarthritis patients
Tine Willems

11.35 The presence of multiple MRI features is associated with poor improvement in intensity of chronic low back pain
Romain Perera

11.45 A new subgrouping of low back pain to explain alterations in lumbar muscle function and morphology
Sophie van Oosterwijck

11.55 Differences in psychological factors, disability and fatigue according to the chronicity grades in non-specific low back pain patients: A cross-sectional study
Aisyah Naqiyah Rosman

12.05 Structural alterations of cognitive emotional brain regions are linked to spinal nociception
Evy Dhondt

12.15 Evaluation of the correlation between gait pattern disorders in high-heel shoes and the occurrence of low back pain in young women
Artur Stolarczyk

12.25 Are respiratory disorders risk factors for troublesome low-back pain? A study of a general population cohort in Sweden
Eva Rasmussen-Barr

12.35 Discussion

12.55 Lunch break in the Exhibition Area

Main Session
Elisabeth Hall

Self-management in back pain and MSK – The new black?
Moderators: Jan Hartvigsen & Bart Koes

14.00 Introduction
Jan Hartvigsen

14.05 What is self-management and what does it mean for patients and clinicians?
Alice Kongsted

14.25 The Solas Project: Irish initiative to support self-management for people with osteoarthritis and back pain
Deirdre Hurley-Osing

14.45 GLA: D Back: Group-based patient education integrated with exercises to support self-management of people with persistent back pain
Inge Ris

15.05 Afternoon break in the Exhibition Area
15.35  SelfBack: An e-health decision support system to improve self-management for people with back pain
Paul Jarle Mork

15.55  Mechanisms influencing the implementation of an evidence-based program for people with low back pain – GLA:D®Back
Inge Ris/Jan Hartvigsen

16.10  Discussion

16.25  Closing Ceremony and Poster Prizes

Please note that you can still register for some of the workshops. Information available at the registration desk.

Workshops Sunday, October 27  Radisson Blu Antwerp

The workshops take place at the Radisson Blu Hotel Antwerp, meeting rooms on the second floor. (100 meters from Antwerp Convention Center).

Workshop 1: Myofascial Induction Therapy (MIT) approach in thoracolumbar fascia related disorder
Presenter: Andrzej Pilat PT (09.00-16.30 hrs)

Workshop 2: Diastasis Rectus Abdominis – implications for assessment and treatment of thoraco-lumbar-pelvic pain and disability
Presenter: Diane Lee PT (09.00-16.30 hrs)

Workshop 3: The Fascial Manipulation© technique for low back pain: Anatomical bases and biomechanical model
Presenter: Carla Stecco, MD (09.00-16.30 hrs)

Workshop 5: The pelvic fundamental patterns: Missing in action in low back and pelvic pain disorders: A new paradigm to aid the rehabilitation of spinopelvic pain disorders
Presenter: Josephine Key PT (13.30-17.00 hrs)

Workshops Friday, November 1  Radisson Blu Antwerp

Workshop 6: Understanding Pelvic Girdle Pain: An evidence based course on clinical anatomy, biomechanics and effective rehabilitation
Presenter: Andry Vleeming (09.00-16.30 hrs)

Workshop 9: Evidence based mind-body and movement exercises to improve the function and well-being of the lower back
Presenter: Eric Franklin (09.00-12.30 hrs)

Workshop 10: An innovative method to assess and to improve the lumbo-pelvic function in sports activities by spiral motion models
Presenter: Andrea Fusco PT, SPT, OMT, MScSSc (13.30-16.30 hrs)
Poster Session  

Atrium

P1  Age-related changes in muscle thickness and echo intensity in healthy women  
Ota M., Ikezoe T., Kato T., Tateuchi H., Ichihashi N. (Japan)

P2  Does perceived ‘threat’ of pain during selected functional tasks influence regional lumbar kinematics of people with chronic low back pain?  
De Vecchis M., Van Deursen R., Sheeran L. (UK)

P3  Macroscopic morphological changes of hip muscles in low back pain: A systematic review of the literature  
Pourahmadi M.R. (Iran)

P4  Psychometric properties of the iHandy Level smartphone application for measuring lumbar spine range of motion and lordosis: A systematic review of the literature  
Pourahmadi M.R. (Iran)

P5  Kinematics of the spine during sit-to-stand movement using motion analysis systems: A systematic review of literature  
Pourahmadi M.R., Ebrahimi Takamjani I., Jaberzadeh S., Sarrafzadeh J. (Iran & Australia)

P6  Test-retest reliability of sit-to-stand and stand-to-sit analysis in people with and without chronic non-specific low back pain: A case-control study  
Pourahmadi M.R., Ebrahimi Takamjani I., Jaberzadeh S., Sarrafzadeh J. (Iran & Australia)

P7  Sex-related differences and the effects of chronic low back pain on lumbar spine lordosis during sit-to-stand and stand-to-sit: A case-control study  
Pourahmadi M.R., Ebrahimi Takamjani I., Sarrafzadeh J. (Iran)

P8  Anatomical and functional relationships between external abdominal oblique muscle and posterior layer of thoracolumbar fascia  
Fan C., Fede C., Gaudreault N., Porzionato A., Macchi V., De Caro R., Stecco C. (Italy & Canada)

P9  Utility of portable inertial measurement unit (IMU) sensor system for spinal movement assessment in people with and without low back pain  
Sheeran L., Sparkes V., Al-Amri M. (UK)

P10  The innervation of the hip soft tissues: A histological and immuno-histochemical study  
Fan C., Fede C., Petrelli L., Petretta I., Giordano F., Biz C., Porzionato A., Biz C., De Caro R., Stecco C. (Italy)

P11  The reliability and concurrent validity of a new iPhone® application for measuring active lumbar spine flexion and extension range of motion in patients with low back pain  
Pourahmadi M.R., Momeni E., Mohseni N. (Iran & Hungary)

P12  Biomechanical analysis and alterations of cervical spine in asymptomatic college runners  
Herrera L.M.E., Montiel F.E., Carpio B.L.A., Saldaña M.J.J., Godínez S.O.J., Bandala R.C., Gómez L.M. (Mexico)

P13  Evaluation of the prevalence of lumbar degenerative disc disease in late onset idiopathic scoliosis - A retrospective study using MRI  
Bashir W., O’Donnell P., Saifuddin A. (UK)

P14  A biomechanical explanation of orthomanual treatment  
Schuller W., Noordzij J., Hueting K., Hoogland P. (The Netherlands)

P15  The effect of hyper lordosis posture on deep abdominal muscles contraction during automatic contraction  
Tajirou S., Kahrizi S. (Iran)

P16  Altered three-dimensional trunk and hip kinetics and loss of variability during gait in chronic low back pain individuals  

P17  Sacroiliac joint chronic pain disorder related to epidural assisted childbirth  
Badgley L.E. (USA)
P18 Dysautonomias of fibromyalgia
Badgley L.E. (USA)

P19 Fibromyalgia causation
Badgley L.E. (USA)

P20 The central role of the sacroiliac joint in musculoskeletal dysfunction
Serola R., Blum C. (USA)

P21 Healthy adults hip flexors tightness and strength assessment combined with anatomical dissection findings
Pihlman M., Luomala T., Heiskanen J., Baker J. (Finland & UK)

P22 Fibromyalgia neural impingement syndromes: The “leg giving away” phenomenon
Badgley L.E. (USA)

P23 Lumbar tilt secondary to sacroiliac joint dysfunction
Badgley L.E. (USA)

P24 Fibromyalgia neural impingement syndromes: Chronic sciatica
Badgley L.E. (USA)

P25 Fibromyalgia neural impingement syndromes: Thoracic outlet syndrome
Badgley L.E. (USA)

P26 Sacroiliac joint diagnostic block injectate extravasation syndrome (IES)
Badgley L.E. (USA)

P27 Is there such a thing as a pelvic floor?
Wickford J., Baker J. (UK)

P28 Strength, endurance and size relationship of lumbar paraspinal muscles in chronic low back pain
Oleksy Ł., Pelzer O., Barej R., Ciepielewska A., Mika A., Kielnar R., Stolarczyk A. (Poland)

P29 Reliability of FFT (Fast Fourier Transform), STFT (Short Time Fourier Transform) and CWT (Morlet Continuous Wavelet Transform) based fatigue indices in lumbar paraspinal muscles
Oleksy Ł., Zynawska J., Frankowski G., Wodka-Natkaniec E., Stolarczyk A. (Poland)

P30 Hamstring muscles dysbalance in low back pain athletes
Oleksy Ł., Racheniu H., Szczegielniak J., Rutkowski S., Rutkowska A., Małecka J., Gwóźdź K., Gutka P., Migała P., Stolarczyk A. (Poland)

P31 Lumbar facet joint angulation and tropism: An anatomical predictor of degenerative spondylolisthesis?
Shah S., Rai R., Palliyil N., Dalvie S. (India)

P32 Diagnosis of degenerative pathology of sacroiliac joint pain after lumbosacral fusion: About 91 patients
Bronsard N., Pelletier Y., Darmante H., Langlais T., Trojani C., De Dompsure R., De Peretti F. (France)

P33 The modified low back pain disability questionnaire: Reliability, validity and responsiveness of a Dutch language version
Denteneer L., Van Daele U., Truijen S., De Hertogh W., Meirte J., Deckers K., Stassijns G. (Belgium)

P34 The impact of the test learning effect on devices for back pain therapy
Łysakowska-Będek B., Kasprzak A. (Poland)

P35 X-ray parameters of sacrum and pelvis in frontal plane in patients with sacroiliac joint dysfunction
Staude V., Radzishevska Y., Zlatnik R. (Ukraine)

P36 Provocative tests, pain and X-ray parameters of sacrum and pelvis in patients with sacroiliac joint dysfunction
Staude V., Radzishevska Y. (Ukraine)

P37 Prevalence of low back pain in a cargo airline company: An epidemiologic study
Demoulin C., Ayaou Y., Wilkin L., Somville P.R., Vanderthommen M. (Belgium)
P38 Virtual Reality Bones® and Feldenkrais® Movements vs. core stabilization biofeedback and motor control exercises: Comparative effects on chronic non-specific low back pain - A randomized controlled clinical trial
Sobie T.J., Sherman R., Stephens J. (USA)

P39 Real world data on the management of low back pain in out-of-hours primary care
Roussel N., Bartholomeeusen S., Leysen M., Vanderstraeten R., Coenen S., Remmen R., Philips H. and the iCAREdata project group (Belgium)

P40 Preferred self-administered questionnaires to assess depression, anxiety and somatization in people with musculoskeletal pain – A modified Delphi study
Bijker L., Sleijser-Koehorst M.L.S., Coppieters M.W., Cuijpers P., Scholten-Peeters G.G.M. (The Netherlands & Australia)

P41 Interrater and intrarater reliability for two standing pelvic kinetic “stork” tests and their relevance to a functional load transfer test and lower quarter movement impairments
Franke B.A., Neal M., Moore J., Grajales T., Olson L. (USA)

P42 Contributions of pain intensity and disability changes to global perceived effect after physiotherapy in chronic low back pain patients
Pires D., Cruz E.B., Canhão H., Nunes C. (Portugal)

P43 Predictors for global perceived effect after physiotherapy in chronic low back pain patients
Pires D., Cruz E. B., Canhão H., Nunes C. (Portugal)

P44 Long-term effects of chronic pain rehabilitation program
Ronchetti I., van Wingerden J.P. (The Netherlands)

P45 There are three reasons for marginal success of research and therapeutics for chronic lumbopelvic pain of nonspecific cause
Irvin R.E.† (USA)

P46 A multivariate prognostic model for pain and activity limitation in people undergoing lumbar discectomy
Ford J.F., Kaddour O., McMeeken J.M., Hahne A.J. (Australia)

P47 Clinical predictors of histologically confirmed inflammation in patients with lumbar disc herniation with associated radiculopathy
Ford J.F., Kaddour O., McMeeken J.M., Gonzales M., Hahne A.J. (Australia)

P48 Physiotherapist-led orthopaedic triage for patients with musculoskeletal disorders: A systematic review
Samsson K.S., Grimmer K., Larsson M.E.H., Morris J., Bernhardsson S. (Sweden, South Africa & Australia)

P49 Are co-morbid medical symptoms associated with poor response to sub-classification based management of chronic low back pain? A retrospective case-control study
Gibbons S.G.T. (Canada)

P50 Effectiveness of manual therapy combined with exercise versus exercise on pain intensity and disability on chronic low back pain patients
Al Matif S., Lynne G. (Saudi Arabia & UK)

P51 The effects of the number and frequency of physical therapy sessions in patients with lumbar spinal stenosis
Minetama M., Kawakami M., Teraguchi M., Kagotani R., Mera Y., Sumiya T., Nakagawa M., Yamamoto Y., Matsu S., Koike Y., Sakon N., Nakatani T., Kitano T., Nakagawa Y. (Japan)

P52 Transforaminal epidural steroid infiltrations as treatment for radicular pain in the lower extremities
Dendale M., Adriaenssens G., Govaerts M., Plazier M., Menovsky T. (Belgium)

P53 Short-term exercise therapy improves pain, physical function, and mental status in patients with chronic low back pain
Nakagawa M., Kawakami M., Teraguchi M., Kagotani R., Mera Y., Minetama M., Kitano T., Koike Y., Yamamoto Y., Sakon N., Matsu S., Nakatani T., Sumiya T., Nakagawa Y. (Japan)

P54 The influence of an instrument-assisted manual treatment (IAMT) on structural and functional properties of the lower back in female soccer players: A placebo-controlled pilot study
Weber P., Graf C., Klingler W., Schleip R., Weber N. (Germany)
P55 Compare two directions of flexible pole on maximum voluntary contraction of trunk muscles after 24-session training in men with chronic low back pain
Farhadnezhad J., Kahrizi S., Hoviattalab M. (Iran)

P56 The identification of preliminary prognostic indicators that predict treatment response for exercise therapy in patients with nonspecific chronic low back pain: A multiple-arm cohort study design
Denteneer L., Van Daele U., Truijen S., De Hertogh W., Deckers K., Stassijns G. (Belgium)

P57 Effectiveness of proprioceptive neuromuscular facilitation on low back pain: A systematic review and meta–analysis
Pourahmadi M.R., Zamani H. (Iran)

P58 Factors associated with compliance to exercise, and how exercising affects fear avoidance beliefs related to physical activity among female healthcare personnel with recurrent low back pain
Taulaniemi A., Kankaanpää M., Tokola K., Parkkari J., Rinne M., Suni J.H. (Finland)

P59 Efficacy of exercise and specific hanging in patients with lumbar spinal stenosis: Multi-center, prospective, randomized controlled trial
Hideaki A., Shigenori M. (Japan)

P60 The pelvic fundamental patterns: Missing in action in low back and pelvic pain disorders
Key J. (Australia)

P61 Effectiveness of slump stretching on low back pain: A systematic review and meta-analysis
Pourahmadi M.R., Hesarikia H., Keshtkar A.A., Zamani H. (Iran)

P62 The displacement of the lumbar COR as an objective index in assessing the effect of stabilizing exercises in patients with lumbar segmental instability
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Thomas Kibsgård

12.40 Prevalence - Different types of Si joint patients
Nikolas Bronsard

12.50 iFUSE Clinical literature update IMIA 2 yrs LOIS 5 yrs
Bengt Sturesson

13.00 Biomechanics of the SI joint and the iFUSE implant technology
Leo Masseri

13.10 Economics of the iFUSE implant system and NICE Guidance
(a UK NHS perspective)
Phil Stott

13.20 End

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