

11th Interdisciplinary World Congress on Low Back and Pelvic Girdle Pain

**MELBOURNE
AUSTRALIA**

MELBOURNE CONVENTION & EXHIBITION CENTRE

1 - 4 // 11 // 2023

A full-page photograph of a ballerina in a vibrant red dress with long, flowing sleeves and skirt. She is captured in a dynamic pose, balancing on one leg with her arms and the fabric of her dress billowing out in large, graceful loops. The background is a solid, dark grey, which makes the red dress stand out. The lighting is soft, highlighting the texture of the fabric and the form of the dancer.

PROGRAM



PROGRAM AT A GLANCE

SUNDAY NOV 5 th	WORKSHOPS				
SATURDAY NOV 4 th	PRIMARY CARE	SELF MANAGEMENT & LIFESTYLE INTERVENTIONS IN LBP	LUNCH	PANEL: THE PRESENT AND THE FUTURE	CLOSING CEREMONY
FRIDAY NOV 3 rd	FASCIA	PELVIC GIRDLE PAIN	POSTER PRESENTATIONS	PARALLEL SESSIONS	EDUCATIONAL AND BEHAVIORAL THERAPIES ANATOMY, BIOMECHANICS & MOTOR CONTROL LUMBAR PAIN GALA
THURSDAY NOV 2 nd	EXERCISE	ADVANCES IN TECHNOLOGY	POSTER PRESENTATIONS	PARALLEL SESSIONS	ADVANCES IN TECH PELVIC GIRDLE PAIN SURGERY SELF MANAGEMENT EXERCISE FASCIA PRIMARY CARE
WEDNESDAY NOV 1 st	ANATOMY, BIOMECHANICS & MOTOR CONTROL	LUMBAR PAIN	LUNCH	EDUCATIONAL & BEHAVIORAL THERAPIES	SURGERY
TUESDAY OCT 31 ST	WORKSHOPS				

TABLE OF CONTENT

Program at a Glance..... 2

Program Chairs and Scientific Committee..... 4

Welcome Address 5

Endorsing Organizations 6

Scientific Program 9

 Wednesday, November 1st - Main Sessions..... 10

 Thursday, November 2nd - Main Sessions 14

 Friday, November 3rd - Main Sessions..... 17

 Saturday, November 4th - Main Sessions..... 20

 Thursday, November 2nd - Parallel Sessions 22

 Friday, November 3rd - Parallel Sessions 30

Workshops 35

Poster Tours 37

 Poster Tour 1 - Thursday, November 2nd 38

 Poster Tour 2 - Friday, November 3rd 44

Notes 52

Sponsors and Exhibitors..... 55

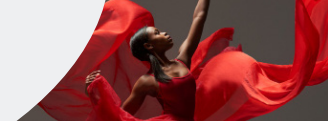


PROGRAM CHAIRS

Paul Hodges, Australia
Andry Vleeming, Belgium

SCIENTIFIC COMMITTEE

Hanne Albert, Denmark
Lieven Danneels, Belgium
Paulo Ferreira, Australia
Jon Ford, Australia
Nadine Foster, Australia
Annelie Gutke, Sweden
Jan Hartvigsen, Denmark
Paul Hodges, Australia
Steven Kamper, Australia
Thomas Kibsgård, Norway
Bart Koes, The Netherlands
Lorimer Moseley, Australia
Peter O'Sullivan, Australia
Robert Schleip, Germany
Carla Stecco, Italy
Britt Stuge, Norway
Bengt Stuesson, Sweden
Jaap van Dieën, The Netherlands
Linda van Dillen, USA
Andry Vleeming, Belgium



Welcome to Melbourne!

Dear Colleagues,

Welcome to the 11th Interdisciplinary World Congress on Low Back & Pelvic Girdle Pain here in the wonderful city of Melbourne!

For more than 30 years this program has aimed to promote and facilitate interdisciplinary knowledge and to create a consensus on prevention, diagnosis and treatment of lumbopelvic pain. Through the decades, this legacy has been carried by the dedication and commitment of our scientific committee and faculty. For the 11th edition we have welcomed the expansion of this faculty for a wider range of perspectives and expertise. They, together with our session speakers are looking forward to sharing the current research and future directions of LBP GP diagnostics and care.

The theme of the 2023 World Congress is: **The interdisciplinary perspective on LBP GP**

The 4-day program will include 10 main and 10 parallel sessions reflecting the primary subject areas including; anatomy and biomechanics, motor control, surgery, exercise interventions, fascia in lumbo-pelvic pain and stability, pelvic girdle pain, lumbar pain, cognitive aspects of treatment, evidence based practice, advances in technology and self-management.

In addition, the poster presentations will share the current worldwide research and innovative ideas in the field. These will take place during lunch break on Thursday November 2nd and Friday November 3rd. Join in the conversation as the presenters will deliver a short presentation followed by an opportunity to answer questions.

As in previous editions, all abstracts presented during the program are available in the congress book. If you had not ordered a printed book, a convenient e-version is available. A great resource to have during the week and to take with you for future reference.

We would like to take the opportunity to thank our members of the Scientific Committee for their contribution to this program. A diverse group who is looking forward to sharing their knowledge, research and delivering the future guidelines on Low Back and Pelvic Girdle Pain. We would also like to thank partners Medicongress for their organization and the Melbourne Convention Bureau for their kind support.

Thank you for joining us for the 11th edition here in Melbourne. A city that has a lot to offer, the great gastronomy, the arts, the sports and its nature. We do hope that after a great program you take the time to experience the city and its surroundings.

A warm welcome,

Paul Hodges & Andry Vleeming
Program Chairmen



ENDORISING ORGANIZATIONS

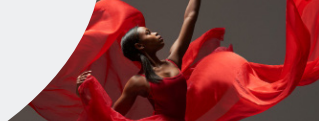
- Australian Physiotherapy Association
- Osteopathy Australia
- Axxon Belgium – the Belgian Physiotherapy Professional Association
- Afghan Association for Physical Therapy
- American Academy of Orthopaedic Manual Physical Therapy (AAOMPT)
- American Academy of Osteopathy (AOA)
- American Physical Therapy Association (APTA) Orthopaedic Section
- Asia-Oceanian Society of Physical and Rehabilitation Medicine (AOSPRM)
- APOA Asia Pacific Orthopaedic Association
- ASCOFI, Asociacion Colombiana de Fisioterapia
- Asociación Española de Fisioterapia
- Association of Academic Physiatrists
- Association of Chiropractic, Malaysia
- Australian Association of Musculoskeletal Medicine AAMM
- Australian Chiropractors Association
- Australasian College of Sports Physicians
- 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 – Womens Health Division
- Canadian Physiotherapy Association-Orthopaedic Division
- Chiropractic Association of Ireland
- Chiropractic Association of South Africa
- Chiropractic Australia
- Danish Association of Musculoskeletal Medicine (DSMM)
- Danish Musculoskeletal Physiotherapy Ass. DMPA
- Danish Physiotherapy Association
- Department of Rehabilitation, Sciences and Physiotherapy, University of Ghent
- Emirates Medical Association and Physiotherapy Society
- European Chiropractors' Union (ECU)
- European Roling 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
- Japanese Association of Chiropractors
- Japanese society of musculoskeletal physical therapy
- Japanese Physiotherapy Association
- 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
- Myotherapy Association Australia (MA)
- 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)
- North American Spine Society
- Norwegian Manual Therapist Association
- Ontario Association of Osteopathic Manual Practitioners
- Osteopaths New Zealand
- Physical Therapy Association of the Republic of China – Taiwan
- Physiotherapy New Zealand
- Philippine Physical Therapy Association
- Saudi Association of Neurological Surgery
- Saudi Physical Therapy Association
- Singapore Orthopaedic Society
- Singapore Physiotherapy Association
- Sociedad Iberoamericana de Información Científica (SIIC)
- Sociedade Brasileira de Fisioterapia
- SOMTY Finnish Association of Orthopaedic Manual Therapists

11th Interdisciplinary World Congress on Low Back and Pelvic Girdle Pain

The interdisciplinary perspective on LBP/GP



- 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 Rolf Institute of Structural Integration
- The Vert Mooney Spine & Sport Foundation
- Turkish Physiotherapy Association
- University of New England, Medical faculty of Osteopathic Medicine
- Vereniging voor Sportgeneeskunde
- Verein zur Förderung der Faszienforschung e.V
- World Federation of Chiropractic
- World Spine Society – WSS

With the kind support from the following publications:

- Elsevier Limited
- HealthTimes
- Journal of Manipulative and Physiological Therapeutics
- Journal of Orthopaedic & Sports Physical Therapy JOSPT
- Spinal News
- The Journal of Rheumatology

SCIENTIFIC PROGRAM





Please note: Wearing a badge is mandatory to have access to the congress area

Tuesday, October 31st

17.30 – 18.30 **Pre-Registration** **GOLDFIELDS FOYER**
17.30 - 18.30 **Welcome Reception** **EXHIBITION AREA**

Wednesday, November 1st

07.00 **Registration open** **GOLDFIELDS FOYER**

Main Session **GOLDFIELDS THEATRE**

08.20 **Welcome to Melbourne and Official Opening of the Congress**
Paul Hodges, Andry Vleeming

Anatomy, Biomechanics & Motor Control: Changes in motor control with low-back pain; causes, effects and clinical implications
Moderators: Jaap van Dieën, Paul Hodges & Andry Vleeming

08.30 **Introduction**
Jaap van Dieën

08.35 **Changes in trunk motor control with LBP, causes and effects**
Jaap van Dieën

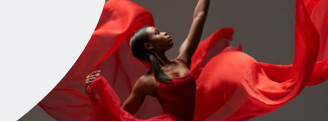
08.55 **Changes in trunk muscle properties with LBP**
Paul Hodges

09.15 **Subgroups of lumbo-pelvic flexion kinematics**
Robert Laird

09.25 **Postural threat and motor control**
Meta Wildenbeest

09.35 **Stress shielding within lumbar musculoskeletal soft tissues**
Emily Newell

09.45 **Ultrasound imaging of multifidus muscle composition**
Patricio Pincheira



09.55 **Discussion**

10.15 **Morning break in the Exhibition Area**

Lumbar Pain - One size does not fit all **GOLDFIELDS THEATRE**
Moderators: Hanne Albert & Jon Ford

Do the majority of patients with pain related to the lumbar spine suffer from “non-specific low back pain?” Should they all be treated with a guideline-based approach? Or should health practitioners provide treatment individualised based on the complexity implicit within the biopsychosocial model? This session will highlight the complexity of low back pain and the implications for providing effective, evidence-based and individualised treatment.

10.45 **Introduction**
Hanne Albert

10.50 **A question of balance**
Hanne Albert

11.10 **Time for a change: Interpreting clinical practice guidelines; an individualised physiotherapy approach**
Jon Ford

11.30 **Sensory Cortex reorganization in chronic low back pain: Solving the riddle**
Michael Meier

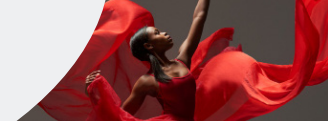
11.40 **Effectiveness of conservative management for lumbar disc herniation with associated radiculopathy: A systematic review and meta-analysis update**
Musa Sani Danazumi

11.50 **Does the presence of inflammation impact surgical and conservative management outcomes for people with lumbar disc herniation with associated radiculopathy?**
Andrew Hahne

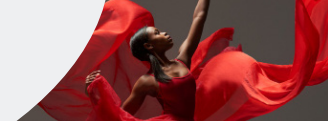
12.00 **Predictors and moderators of response to chiropractic spinal manipulative therapy for chronic primary low back pain: A mechanistic randomized controlled trial**
Carlos Gevers-Montoro



12.10	Discussion
12.30	Lunch Break in the Exhibition Area
	Educational and Behavioural Therapies GOLDFIELDS THEATRE Moderators: Lorimer Moseley & Peter O'Sullivan
13.30	Introduction Peter O'Sullivan
13.35	Caring for people with low back pain, can we do better? Peter O'Sullivan
13.55	Changing minds and bodies: New wave pain education - innovations and challenges Lorimer Moseley
14.15	Mechanisms of education and graded sensorimotor retraining in people with chronic low back pain Aidan Cashin
14.25	What pain concepts do 'improved' and 'not improved' consumers value at long-term follow up? A survey on the relevance of target concepts after pain science education for chronic back or pelvic pain Hayley Leake
14.35	Cognitive Functional Therapy with or without movement sensor biofeedback versus usual care for chronic, disabling low back pain (RESTORE) Mark Hancock
14.45	Patient beliefs about imaging for low back pain management and perceptions of commonly reported imaging terms Jessica Witherow
15.55	Discussion
16.15	Afternoon Break in the Exhibition Area



	Surgery GOLDFIELDS THEATRE Moderators: Bengt Sturesson & Thomas Kibsgård
16.45	Introduction Bengt Sturesson
16.50	Where does the pain come from? Bengt Sturesson
17.10	Minimally invasive sacroiliac joint fusion versus sham surgery as treatment for sacroiliac joint pain - A randomized controlled double-blinded multicenter trial Engelke Marie Randers
17.20	Outcome measurements and register data Thomas Kibsgård
17.35	Complications and revisions in minimal invasive sacroiliac joint surgery David Polly
17.55	Development of treatment for sacroiliac pain in Japan Daisuke Kurozawa
18.10	Discussion
18.30	Closure



Thursday, November 2nd

Main Session

GOLDFIELDS THEATRE

Exercise Interventions

Moderators: Lieven Danneels & Linda van Dillen

08.25	Introduction Lieven Danneels & Linda van Dillen
08.30	Sensorimotor control training: Do we really want to throw the baby out with the bathwater? Lieven Danneels
08.50	Spinal movement impairments in non-chronic low back pain: A potential clinical biomarker Linda van Dillen
09.10	WalkBack: Effectiveness and cost-effectiveness of a progressive, individualised walking and education program for prevention of low back pain recurrence Natasha Pocovi
09.20	HITHOME – Technology supported high intensity training at home for persons with chronic low back pain: A pilot cohort study Jonas Verbrugghe
09.30	Physiotherapy aided by a clinical decision support system versus standard physiotherapy for treating persistent low back pain: Results of a pilot randomised controlled trial Andrew Hahne
09.45	The added value of cognitive behavioural therapy for insomnia to current best evidence physical therapy for chronic spinal pain: A randomised controlled clinical trial Liesbet De Baets
09.55	Discussion
10.15	Morning Break in the Exhibition Area

Advances in Technology

GOLDFIELDS THEATRE

Moderators: Paul Hodges & Paulo Ferreira

10.45	Introduction Paul Hodges
10.50	New innovations and opportunities for wearable sensors in back pain Paul Hodges
11.10	How digital technology can help people with low back pain Paulo Ferreira
11.30	Repetitive transcranial magnetic stimulation alone and in combination with motor control exercise for the treatment of individuals with chronic non-specific low back pain: The ExTraStim sham-controlled randomised controlled trial Philippe Patricio
11.40	Effectiveness of an eHealth-delivered physical activity program to EMpower People with musculoskeletal pain in Rural communities (EMPower): A randomised controlled trial Carlos Mesa Castrillon
11.50	Phenotyping low back pain from video capture using computer vision and machine learning Liba Sheeran
12.00	The application of markerless technology and deep learning for the assessment of spine movement patterns and dysfunction Jessica Wenghofer
12.10	Discussion
12.30	Lunch Break & Poster Presentations in the Exhibition Area

Parallel Sessions

13.45	Parallel Session I: Surgery
13.45	Parallel Session II: Pelvic Girdle Pain
13.45	Parallel Session III: Advances in Technology
14.50	Parallel Session IV: Self Management & Lifestyle Interventions
15.30	Afternoon Break in the Exhibition Area
16.05	Parallel Session V: Fascia
16.05	Parallel Session VI: Exercise
16.05	Parallel Session VII: Primary Care
17.10	Discussion
17.40	Closure of parallel sessions

Friday, November 3rd

Main Session

GOLDFIELDS THEATRE

	Fascia Moderators: Robert Schleip & Carla Stecco
08.25	Introduction Robert Schleip & Carla Stecco
08.30	Coordination between trunk muscles, thoracolumbar fascia and intra-abdominal pressure toward static spine stability Mark Driscoll
08.50	Impact of hormonal and mechanical inputs into fasciae Carla Stecco
09.10	Interactions between fascia, the autonomic nervous system and immune regulation Robert Schleip
09.30	Fascia tissue manipulation using skin displacement at the lumbar spine affects flexion and extension of the spine, pelvic and hip range of motion Robbert Van Amstel
09.40	What are the long-term outcomes for diastasis rectus abdominis? A qualitative research study Diane Lee
09.50	Muscle spindles of the multifidus muscle undergo structural change after intervertebral disc degeneration Gregory James
10.00	Discussion
10.10	Morning Break in the Exhibition Area

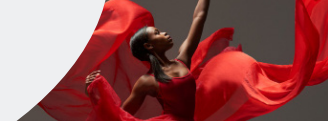


Pelvic Girdle Pain - Listen to patients with pelvic girdle pain - Worldwide prevalence, causes and care

Moderators: Britt Stuge & Annelie Gutke

Pelvic Girdle Pain (PGP) is an increasingly recognized condition in clinical work and research worldwide. Evidence based practice should be based on the integration of best research evidence with clinical expertise and patient values. This session will focus on current evidence of multinational prevalence of PGP, and highlight beliefs and expectations of causes and care among patients and health care providers. Active patient engagement in research is another novelty to be presented and discussed.

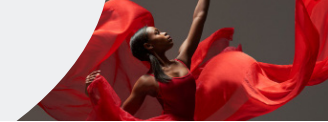
- | | |
|-------|---|
| 10.40 | Introduction
Britt Stuge |
| 10.45 | Pelvic girdle pain today
Britt Stuge |
| 10.55 | Is ethnicity associated with pelvic girdle pain during pregnancy and early postpartum?
Hilde Stendal Robinson |
| 11.05 | Prevalence and factors associated with pregnancy-related pelvic girdle pain in Australian women
Dragana Cernja |
| 11.15 | A dynamic model for active patient engagement in low back pain and pelvic girdle pain
Amy Elise Martinsen |
| 11.25 | Pelvic girdle pain tailored to patient and context
Annelie Gutke |
| 11.35 | Perceived cause of pelvic girdle pain by primiparae and the influence of healthcare providers
Esther van Benten |
| 11.45 | Drivers, barriers, and response to care of Australian pregnant women seeking chiropractic care for low back and pelvic girdle pain
Maria Bernard-Giglio |



- | | |
|-------|---|
| 11.55 | Expertise and individually tailored interventions are expected by pregnant women with pelvic girdle pain when they seek physiotherapy
Annika Svahn Ekdahl |
| 12.05 | Discussion |
| 12.25 | Lunch Break and Poster Presentations in the Exhibition Area |

Parallel Sessions

- | | |
|-------|---|
| 13.40 | Parallel Session VIII: Lumbar Pain |
| 13.40 | Parallel Session IX: Educational and Behavioural Therapies |
| 15.15 | Parallel Session X: Anatomy, Biomechanics & Motor Control |
| 17.15 | Closure |
| 19.00 | Gala
Venue: Zinc Federation Square (registration is mandatory)
Buses will depart outside Pan Pacific Hotel/MCEC at 18.45 hrs.
Gala welcome reception starts at 19.00 hrs
Dinner starts at 19.30 hrs. |



Saturday, November 4th

Main Session

GOLDFIELDS THEATRE

Primary Care

Moderators: Bart Koes & Nadine Foster

08.45	Introduction Bart Koes
08.50	Management of sciatica in primary care Bart Koes
09.10	Can e-health help primary care management of low back pain, and what is needed next? Nadine Foster
09.30	Australian standards for back pain, recommendations and implementation and evaluation plan Chris Maher
09.50	Factors influencing general practitioners' choices in prescribing analgesic medicines to patients with chronic low back pain: A discrete choice experiment Melanie Hamilton
10.00	Reassurance for low back pain in primary care: A scoping review Anika Young
10.10	Discussion
10.30	Morning Break in the Exhibition Area

Self-Management & Lifestyle Interventions

Moderators: Jan Hartvigsen & Steven Kamper

11.00	Introduction Jan Hartvigsen
11.05	Self-management in back pain care: What, why, how Jan Hartvigsen
11.25	Lifestyle interventions for low back pain. What are they and what is the evidence that they benefit people? Steven Kamper
11.45	The impact of aggregate positive lifestyle behaviours on low back pain resilience and care seeking Katharine Roberts
11.55	Booster prescription and outcomes in adults with low back pain Vanessa Lanier
12.05	Co-production of BACK-on-LINETM, a work-based digital self management of low back pain, for implementation and scaleup the rail industry Liba Sheeran
12.15	Case description of unique global health outcomes in a patient with musculoskeletal pain enrolled in a novel intensive lifestyle medicine program Heidi Prather
12.25	Discussion
12.45	Lunch Break in the Exhibition Area
13.45	Panel: The present and the future This panel discussion will be lead by International Researchers and Clinical experts. They will reflect on the information presented during the week and share their vision for the future.
15.15	CLOSING CEREMONY & POSTER PRIZES



Thursday, November 2nd

13.45 **Parallel Sessions I, II, III**

14.50 **Parallel Session IV**

Parallel Session I

EUREKA 1

Surgery

Moderators: Bengt Sturesson & Thomas Kibsgård

13.45 **Introduction**

Bengt Sturesson & Thomas Kibsgård

13.50 **Relationship between patient baseline lifestyle-related comorbidities and lumbar spine surgery post-operative course**

Heidi Prather

14.00 **Access denied: Minimally invasive SI joint fusion patient reported outcomes in obese patients**

David Polly

14.10 **Comparative effects of discectomy, physiotherapy or advice for people with lumbar disc herniation with associated radiculopathy**

Andrew Hahne

14.20 **REACT rehabilitation pathway for lumbar fusion surgery: Interim results of a hybrid effectiveness-implementation study**

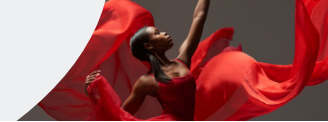
Liedewij Bogaert

14.30 **Osseointegration in minimally invasive sacroiliac joint fixation implants - A study of titanium triangular implants removed from in vivo after 6 months**

Engelke Marie Randers

14.40 **Computed tomography-guided sacroiliac joint intra-articular injections: Success rate and technical issues**

Daisuke Kurosawa



14.50

Surgical outcomes of patients with sacroiliac joint pain: An analysis of patients with poor results regarding activities of daily living

Daisuke Kurosawa

15.00

Surgical versus non-surgical treatment for sciatica: A systematic review and meta-analysis

Giovanni Ferreira

15.10

Spinal cord stimulation for low back pain: a Cochrane review

Adrian Traeger

15.20

Minimally invasive SI joint fusion procedures for chronic SI joint pain: Systematic review and meta-analysis of safety and efficacy

David Polly

15.30

The sacroiliac joint axes of rotation: Implications for rigid and dynamic stabilization

Oluwatodimu Richard Raji

15.40

Discussion

15.50

Afternoon Break in the Exhibition Area

Parallel Session II

GOLDFIELDS THEATRE

Pelvic Girdle Pain

Moderators: Britt Stuge & Annelie Gutke

13.45

Introduction

Britt Stuge & Annelie Gutke

13.50

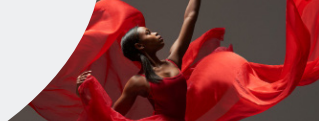
Sacroiliac joint pain increases repositioning error during active straight leg- raising

Tsuyoshi Morito

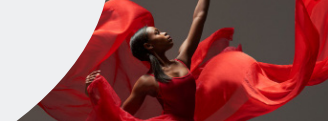
14.00

Living with pelvic girdle pain in pregnancy amongst Australian women: A qualitative study

Dragana Cepnja



- 14.10 **Differences in healthcare providers' illness perceptions of pregnancy related pelvic girdle pain**
Esther van Benten
- 14.20 **Caring for women with pregnancy-related pelvic girdle pain: Perceptions, beliefs and experiences of healthcare workers in Australia**
Dragana Cernjic
- 14.30 **The effectiveness of exercise for pregnancy-related lumbopelvic pain: A systematic review and meta-analysis of randomized control trials**
Luciana Macedo
- 14.40 **Exercising after pregnancy and its impact on pelvic symptoms and muscle recovery: A longitudinal prospective cohort study**
Sabine Vesting
- 14.50 **Postpartum evaluation of individualised physiotherapy interventions in pregnancy for pelvic girdle pain**
Annika Svahn Ekdahl
- 15.00 **Risk factors for pelvic girdle pain and pregnancy related low back pain postpartum - A systematic review and meta-analysis**
Annelies Pool-Goudzwaard
- 15.10 **The Dutch language version of the Pelvic Girdle Questionnaire- Translation and confirmative factor analysis in women with pelvic girdle pain**
Annelies Pool-Goudzwaard
- 15.20 **Discussion**
- 15.30 **Afternoon Break in the Exhibition Area**



Parallel Session III

EUREKA 2

Advances in Technology

Moderators: Paul Hodges & Paolo Ferreira

- 13.45 **Introduction**
Paul Hodges & Paolo Ferreira
- 13.50 **Machine learning derived lifting techniques and pain self-efficacy in people with chronic low back pain**
Trung Phan
- 14.00 **Convolutional neural networks for the automatic segmentation of lumbar paraspinal muscles in people with low back pain**
Eddo Wesselink
- 14.10 **Assessment of spinal and pelvic kinematics using inertial measurement units in people with persistent low back pain**
Liba Sheeran
- 14.20 **How we measure movement matters; changes in forward bending over the course of cognitive functional therapy for chronic low back pain**
Ruth Chang
- 14.30 **Feasibility and reliability in using ultrasound shear wave elastography on measuring stiffness of the psoas major and quadratus lumborum muscles**
FengMing Zhou
- 14.40 **Discussion**



Parallel Session IV

EUREKA 2

Self-Management & Lifestyle Interventions

Moderators: Jan Hartvigsen & Steven Kamper

- 14.50 **Introduction**
Jan Hartvigsen & Steven Kamper
- 14.55 **Effectiveness of a coordinated discharge support system for reducing health care use in patients with chronic low back pain: A randomised controlled trial**
Emma Ho
- 15.05 **Person-specific characteristics moderate the effect of motor skill training in adults with low back pain**
Vanessa Lanier
- 15.15 **The effect of self-management interventions on musculoskeletal disorders in musicians: A scoping review**
Noudy Eleryan
- 15.25 **Discussion**
- 15.35 **Afternoon Break in the Exhibition Area**

Parallel Session V

EUREKA 1

Fascia

Moderators: Robert Schleip, Carla Stecco & Jan-Paul van Wingerden

- 16.05 **Introduction**
Robert Schleip & Carla Stecco
- 16.10 **Fascia in relation to pressure systems: The missing link in comprehending comorbidity in lumbopelvic pain?**
Jan-Paul van Wingerden
- 16.20 **Associations between deformation of the thoracolumbar fascia and activation of the erector spinae and multifidus muscle in patients with acute low back pain and healthy controls**
Robert Schleip



- 16.30 **Ultrasound imaging of thoracolumbar fascia in low back pain: A cross-sectional study**
Carla Stecco
- 16.40 **Are fascial strains involved in chronic pelvic pain syndrome? An exploratory matched case-control study**
Fulvio Dal Farra
- 16.50 **Pelvic external myofascial mobilization improves outcomes of chronic pelvic pain with long lasting effects**
Ajimsha Sharafudeen
- 17.00 **Thoracolumbar fascia morphology of those with and without lower back pain: An observational ultrasound study**
Claire Melanie Boucher
- 17.10 **Discussion and Closure**

Parallel Session VI

GOLDFIELDS THEATRE

Exercise

Moderators: Lieven Danneels & Linda van Dillen

- 16.05 **Introduction**
Lieven Danneels & Linda van Dillen
- 16.10 **Association between different amounts of physical activity and sedentary behaviour and the trajectory of low back pain**
Meiyi Huo
- 16.20 **Beneficial and harmful effects of physical activity or sedentary behaviour on care-seeking for low back pain**
Emma Ho
- 16.30 **Motor control training for symptomatic lumbar disc herniation: A systematic review and meta-analysis**
Mohammadreza Pourahmadi
- 16.40 **BREATHE-(H)IT Trial protocol: High-intensity training to improve diaphragm functioning in persons with chronic nonspecific low back pain**
Sim Klaps

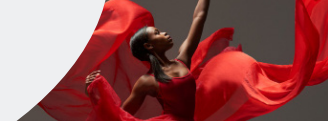


- 16.50 **The effects of exercise therapy on the muscle structure of low back muscles in low back pain patients: A systematic review and meta-analysis**
Tine Willems
- 17.00 **A protocol for a mixed methods feasibility study of a COMorbidity adapted Exercise program for low BACK pain in older adults (COMEBACK)**
Katie de Luca
- 17.10 **Effect of perioperative pain neuroscience education in people undergoing surgery for lumbar radiculopathy: A multicenter randomized controlled trial**
Eva Huysmans
- 17.20 **Is a twelve-week running program appropriate for people with chronic low back pain? Efficacy and feasibility data from a randomised controlled trial**
Christopher Neason
- 17.30 **Discussion and Closure**

Parallel Session VII

EUREKA 2

- Primary Care**
Moderators: Bart Koes & Nadine Foster
- 16.05 **Introduction**
Bart Koes & Nadine Foster
- 16.10 **The Observable Movement Quality scale for patients with low back pain: Validity, reliability and feasibility in primary care**
Margriet van Dijk
- 16.20 **Efficacy of a psychologically-informed physiotherapy intervention in patients with chronic low back pain with a high level of psychosocial factors: A pilot and feasibility randomised controlled trial**
Hugo Massé-Alarie



- 16.30 **Predictors of presenteeism in care workers with low back pain: Longitudinal study, decision tree analysis**
Teppei Abiko
- 16.40 **General practitioners' decision-making process to prescribe pharmacological treatments for low back pain: A qualitative study**
Giovanni Ferreira
- 16.50 **Prognostic factors and treatment effect modifiers of musculoskeletal patients in primary care: Exploratory secondary analysis of the STEMS randomised trial of the offer of direct access to physiotherapy-led care**
James Zouch
- 17.00 **Reassurance for low back pain in primary care: A qualitative study**
Anika Young
- 17.10 **A short-term follow-up of the PREVSAM-model - Prevention of persistent pain and sickness absence through early identification and rehabilitation of at-risk patients with musculoskeletal disorders in primary care**
Maria Niklasson Larsson
- 17.20 **Discussion and Closure**



Friday, November 3rd

13.40 **Parallel Sessions VIII, IX**

17.15 **Parallel Session X**

Parallel Session VIII

GOLDFIELDS THEATRE

Lumbar Pain

Moderators: Hanne Albert & Jon Ford

13.40 **Introduction**
Hanne Albert

13.45 **Reference standard for lumbar paraspinal muscle morphology
in people with and without low back pain**
Eddo Wesselink

13.55 **Prevalence of serious spinal pathology: clinical setting matters**
Alla Melman

14.05 **The association of low back pain with lumbar spine movement
control impairment syndromes – A cohort study**
Peetu Rytönen

14.15 **Direction specific changes in trunk muscle synergies in
individuals with extension-related low back pain**
Hiroki Saito

14.25 **Diaphragm function in weightlifters with and without chronic
low back pain and its association with sports performance**
FengMing Zhou

14.35 **Predictors of disability in older adults with LBP and changes over
time: Findings from the BACE: C-A study**
Katie de Luca

14.45 **Discussion**

14.50 **Afternoon Break in the Exhibition Area**



15.15 **How are clinically unimportant terms in lumbar spine imaging
reports identified? A content analysis of X-ray, CT and MRI reports**
Caitlin Farmer

15.25 **Risk factors for low back pain outcome: Does it matter when they
are measured?**
David Klyne

15.35 **Determining factors for return to work after a multidisciplinary
treatment in incapacitated workers with low back pain**
Tine Willems

15.45 **Normalisation process theory (NPT) analysis of user experience
of BACK-to-FITTM – A novel digital intervention to promote
exercise self-management and physical activity in people with
low back pain**
Akushla Rathnayake

15.55 **Exploring the perceptions and experiences of patients and
healthcare professionals in Belgium's multidisciplinary program for
secondary prevention of low back pain**
Lisa Bernaers

16.05 **Coronavirus-2 infection is associated with low back pain:
Result from a case-control study**
Mohammad Ali

16.15 **Low back pain in Australian CrossFit participants: A national
survey**
Benjamin Lustig

16.25 **Directional preference management for low back pain:
A systematic review update**
Luke Surkitt

16.35 **The effectiveness of specific manual therapy for low back pain:
A systematic review update**
Jon Ford

16.45 **Discussion**

19.00 **Gala** (buses depart at 18.45 sharp)



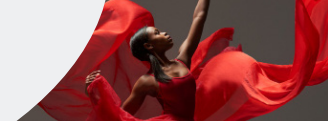
Parallel Session IX

EUREKA 2

Educational & Behavioural Therapies

Moderators: Lorimer Moseley & Peter O'Sullivan

- 13.40 **Introduction**
Lorimer Moseley & Peter O'Sullivan
- 13.45 **Development of consumer information leaflets to support TaperiNG of Opioids in older adults with low back pain and hip and knee osteoarthritis (TANGO)**
Alessandra Marcelo
- 13.55 **Expert opinions to develop an electronic sleep intervention tailored for individuals with low back pain: A nominal group study**
Paulo Ferreira
- 14.05 **Developing confident competence to deliver cognitive functional therapy for persistent low back pain: A qualitative investigation of training**
Phoebe Simpson
- 14.15 **Whether and how to address mental health in the musculoskeletal care setting: Perspectives from spine patients and clinicians**
Abby Cheng
- 14.25 **Preferred modalities for mental health intervention delivered in the orthopedic clinic: Perspectives from spine patients and clinicians**
Abby Cheng
- 14.35 **Discussion**
- 14.45 **Afternoon Break in the Exhibition Area**



Parallel Session X

EUREKA 2

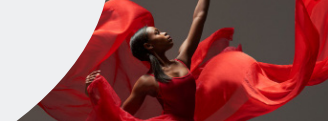
Anatomy, Biomechanics & Motor Control

Moderators: Jaap van Dieën, Paul Hodges & Andry Vleeming

- 15.15 **Introduction**
Jaap van Dieën
- 15.25 **The effects of variations in lumbar spine curvatures on biomechanical behaviour**
Mark Driscoll
- 15.35 **The female LBP conundrum**
Adele Stewart
- 15.45 **Sexual differentiation in sacroiliac joint rotational and shear motion zones - Implications for arthrodesis, LBP and pelvic girdle pain therapies**
Oluwatodimu Richard Raji
- 15.55 **The impact of psychological stress on motor control**
Timothy Doorson
- 16.05 **Lower limb proprioception and postural control strategies in people with low back pain**
Zhengquan Chen
- 16.15 **Clinical examination of lumbopelvic sensorimotor control in low back pain: Is it actually valid? A systematic review**
Thomas Matheve
- 16.25 **Which factors influence motor imagery performance in chronic low back pain**
Thomas Matheve
- 16.35 **An enhanced spine model validated for simulating dynamic lifting tasks in OpenSim**
Mohammadhossein Akhavanfar



16.45	Within-session effects of treating spinal movement impairments during functional activities in people with acute low back presenting to the Emergency Department Linda van Dillen
16.55	Discussion
17.15	Closure
19.00	Gala (buses depart at 18.45 sharp)



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

Workshops Tuesday, October 31st

- 09.00 - 16.30** **Workshop 1** **EUREKA 1**
Pelvic girdle pain & dysfunction – The form and force closure mechanisms for pelvic control 30 years of research to clinical practice (1993-2023)
Speaker: Diane Lee PT
- 09.00 - 16.30** **Workshop 2** **EUREKA 2**
Why fascia matters? Scientific evidence for the role of fascia in low back pain and how to manage it with Fascial Manipulation technique
Speaker: Prof. Carla Stecco, MD
- 09.00 - 16.30** **Workshop 3** **HOSPITALITY SUITE 6**
Surgical treatment of the sacroiliac joint – When the physiotherapy is not enough
Speakers: Bengt Sturesson MD, PhD & Inge Dahlberg PT

Workshops Sunday, November 5th

- 09.00 - 16.30** **Workshop 4** **EUREKA 1**
Cognitive functional therapy for people with disabling low back pain
Speaker: Prof. Peter O'Sullivan
- 09.00 - 16.30** **Workshop 5** **EUREKA 2**
Optimising dynamic function of the lumbo pelvic region
Speaker: Trish Wisbey-Roth PT
- 09.00 - 16.30** **Workshop 6** **COURTYARD ROOM 1**
New advances in integrated management of lumbopelvic pain: Addressing the complexity
Speakers: Prof. Paul Hodges PhD MedDr DSc, David Klyne PhD MSc & Marie-Pierre Cyr PhD MSc

POSTER TOURS



POSTER TOUR 1

Thursday November 2nd
13.00 hrs
Posters P1 - P47
Eureka 3

POSTER TOUR 2

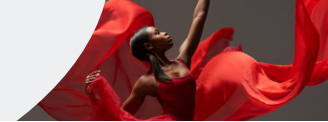
Friday November 3rd
13.00 hrs
Posters P48 - P95
Eureka 3



Poster Tour 1 – Thursday, November 2nd

Anatomy, Biomechanics & Motor Control

- P1** **Trunk muscle strength and muscle coactivation in patients with chronic non-specific low back pain: An observational case-control study**
Althobaiti S., Falla D. (UK & Saudi Arabia)
- P2** **CT guided diagnostic block of the SIJ**
Badgley L.E. (USA)
- P3** **Prolonged sitting decreases and prolonged lying increases the water content of the lumbar intervertebral discs**
Chiba M., Oshikawa T., Otake N., Kitahara T., Kaneoka K. (Japan)
- P4** **Coccygeal motion due to pelvic floor muscles contraction in patients with low back and pelvic girdle pain**
Ezaki H., Morito T., Oshikawa T., Kaneoka K. (Japan)
- P5** **Comparison of morphology and joint surface changes in the sacroiliac joints of quadrupeds and bipeds**
Goff L.M. (Australia)
- P6** **Preoperative balance ability predicts the functional performance in patients with degenerative lumbar spondylolisthesis after lumbar fusion**
Wong W.J., Chen Y.C., Lai D.M., Hsu W.L. (Taiwan)
- P7** **Effect of pilates-based motor control exercise intervention on low back pain in baseball players**
Ichikawa I., Morito T., Oshikawa T., Kaneoka K. (Japan)
- P8** **Using surface electromyography to quantify diaphragm muscle activation during postural control in chronic nonspecific low back pain: Protocol for a validation study**
Klaps S., Verbrugghe J., Goossens N., Köke A., Verbunt J., Timmermans A., Langer D., Janssens L. (Belgium & The Netherlands)



- P9** **Which factors influence motor imagery performance in chronic low back pain**
Matheve T., Janssens L., Timmermans A., Goossens N., Danneels L., Meirezone H., Brandt M., De Baets L. (Belgium)
- P10** **Analysis of in-plane and perpendicular axis displacement of the sacroiliac joint under multidirectional bending: A cadaveric biomechanical study**
Raji O.R., Mayer, S.M., Leasure J.M. (USA)
- P11** **The influence of lumbar disc degeneration on spine compensation: A finite-element approach**
Mithani A., Aoude A., Driscoll D. (Canada)
- P12** **Relationship between low back pain-induced disability and lumbar and hip motion angles and disruption of lumbar self-perception**
Miyachi R., Miyazaki J. (Japan)
- P13** **Investigation of the reliability and validity of motion angle measurements during trunk flexion and extension exercises using Openpose**
Miyazaki J., Shigeto H., Harada S., Hirata A., Katayama J., Tennan K. (Japan)
- P14** **Spinopelvic alignment and low back pain after total hip arthroplasty: A scoping review**
Pourahmadi M., Sahebalam M., Dommerholt J., Fernández-de-Las-Peñas C., Mansournia M.A. (Iran, USA & Spain)
- P15** **People with chronic low back pain increase vertical ground reaction force steadiness during lifting**
Pranata A., Bryant, A.L., Clark R., Han J., Farragher J. (Australia & China)
- P16** **Differences in muscle coordination during cross motion exercises with and without a history of groin pain**
Saito H., Hakariya N., Soga T., Shinohara S., Matsunaga N., Teerapat L., Hirose N. (Japan)



- P17** **Differences in muscle coordination in approach angle during inside kick and with and without history of groin pain**
Saito H., Matsunaga N., Takahashi S., Hakariya N., Soga T., Nakaichi N., Shinohara S., Hirose N. (Japan)
- P18** **Development of device for measuring the stiffness of pelvic floor muscles: An attempt to develop a device for measuring pelvic floor muscles**
Sakamoto A., Eguchi T., Gamada K., Fukuda O. (Japan)
- P19** **The 5 Primary Kinetic Chains (5PKCs), an expansion of Dr. Vleeming's five subsystems**
Schwartz J. (USA)
- P20** **Manual handling in childcare work: Components of back injury risk during the task of nappy changing**
Stewart A.J. (Australia)
- P21** **Pregnancy: Identifying components of work-related lower back pain**
Stewart A.J. (Australia)

Lumbar Pain

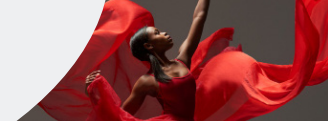
- P22** **Predictors of disability in older adults with LBP and changes over time: Findings from the BACE: C-A study**
de Luca K., Young A., Hartvigsen J., Rubinstein S., French S.D. (Australia, Denmark & The Netherlands)
- P23** **How are clinically unimportant terms in lumbar spine imaging reports identified? A content analysis of X-ray, CT and MRI reports**
Farmer C., Haas R., Wallis J., O'Connor D., Buchbinder R. (Australia)
- P24** **Implementation of an evidence-based pathway and rapid access outpatient clinic for patients presenting to an emergency department with low back pain**
Gan R., Farmer C. (Australia)
- P25** **Vitamin D deficiency is associated with nonspecific chronic low back pain in young women, a case-control study**
Javadian Y., Heidari B., Hakimi N., Hajian-Tilaki K., Firouzjahi A. (Iran)



- P26** **Development of low back pain curriculum content standards for entry-level clinical training**
Jenkins H., Hancock M., Brown B., O'Keefe M., Moloney N., Maher C. and the LBP curriculum content standards working group (Australia & New Zealand)
- P27** **The association between pregnancy-related musculoskeletal pain and pregnancy outcomes: A systematic review and meta-analysis**
Lan Q.L., Wei Y.Y., Castrillon C.M., Fu A., McKay M., Simic M., Ferreira P. (Australia & China)
- P28** **Correlation between dimensions of fatigue and pain localisation in women with chronic low back pain: A cross-sectional study**
Larsson A., Bornhoft L., Bergenheim A., Nordeman L. (Sweden)
- P29** **When sitting hurts: A scoping review of sitting-related pain and disability in people with back- and pelvic girdle pain**
Martinsen A.E., Storheim K. (Norway)
- P30** **Determining the effectiveness and feasibility of a virtual hospital model of care for low back pain**
Melman A., Coombs D.M., Li Q., Billot L., Richards B., Marabani M., Anandacoomarasamy A., Hutchings O., Teng M.J., McCaffery K., Harris I., Buchbinder R., Maher C.G., Machado G.C. (Australia)
- P31** **Global prevalence of musculoskeletal pain in rural and urban populations - A systematic review with meta-analysis**
Mesa-Castrillon C.I., Beckenkamp P.R., Ferreira M.L., Simic M., Davis P.R., Michell A., Pappas E., Luscombe G., De Noronha M., Ferreira P.H. (Australia)
- P32** **Predictors for activity improvement in women with chronic low back pain after 13 years – A prospective longitudinal study in primary healthcare**
Nordeman L., Bergenheim A., Enhörning E., Ho-Henriksson C.M., Hellgren M., Grimby-Ekman A. (Sweden)
- P33** **Differences in the volume and sagittal displacement of each segment between participants with and without low back pain**
Ota M., Tateuchi H., Ezaki H., Fujio A., Kishimoto T., Sakamoto A., Ichihashi N. (Japan)

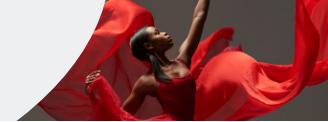
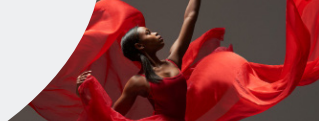


- P34** **Prevalence of lifestyle-related co-morbidities and patient-reported physical and mental health in low back pain patients**
Prather H., Casey E., Cheng A.L., Leupold O., Rau O., Cheng J. (USA)
- P35** **Unusual presentation of gluteus medius trigger point and tightness: A case study**
Rahnama L., Saberi M., Rahnama M., Ostovari A. (USA, Spain & Iran)
- P36** **The effect of caffeine on the analgesia induced by myofascial reorganization in mice with inflammation**
Schleip R., Ortiz M.E., Sinhorim L., de Oliveira B.H., da Silva R.H., de Souza G.M., Szeremeta Y., Bittencourt E.B., Bianco G., Inoue Salgado A.S., Martins D.F. (Germany, Brazil, USA & Italy)
- P37** **Peripheral and spinal activation of cannabinoid receptors CB2 by manipulation of thoracolumbar fascia alleviates hyperalgesia in mice with paw inflammation**
Schleip R., Sinhorim L., de Oliveira B.H., Ortiz M.E., da Silva R.H., de Souza G.M., Szeremeta Y., dos S. Amorim M., França M.E., Bittencourt E.B., Bianco G., Hirayama A.B., Horewicz V.V., Martins D.F. (Germany, Brazil, USA & Italy)
- P38** **Intensity of low back pain in the third-trimester pregnancy is related to postpartum pain**
Tanaka S., Narita T., Sato K., Fujii S., Aisaka K., Nose S. (Japan)
- P39** **Do Dutch-speaking Belgians agree with the national guidelines on the treatment of low back pain?**
Stevens V.K., Bernard E., Willems T., Van Tiggelen D., Perneel C., Danneels L. (Belgium)
- P40** **The potential role of MTHFR gene mutation in chronic back pain - 10 year follow-up study**
Wysocki R. (Poland)



Surgery

- P41** **Validating a novel VR/AR spinal surgical simulator with focus on physics-based force feedback**
Alkadri S., Del Maestro R., Driscoll M. (Canada)
- P42** **Alteration in back muscle strength and trunk flexion range of motion before and after transforaminal full-endoscopic spine surgery**
Koizumi R., Sugiyama H., Sato K., Dezawa A., Narita T. (Japan)
- P43** **Poor outcomes of sacroiliac joint arthrodesis for presumed sacroiliitis in spondylarthropathy: A report of two cases**
Kurosawa D., Murakami E. (Japan)
- P44** **Investigation for cage subsidence after oblique lumbar interbody fusion**
Morita M., Nakamura H. (Japan)
- P45** **Sacrotuberous ligament pain in patients who underwent sacroiliac joint arthrodesis: Incidence and management of post-surgical lower-buttock pain**
Sasaki T., Kurosawa D., Murakami E. (Japan)
- P46** **Functional assessment of patients with sacroiliac joint disorder using the Denver SI-Joint Questionnaire**
Sasaki T., Kurosawa D., Murakami E. (Japan)
- P47** **Changes in back muscle strength and trunk flexion range of motion before and after interlaminar full-endoscopic spine surgery**
Sugiyama H., Narita T., Sato K., Koizumi R., Dezawa A. (Japan)



Poster Tour 2 – Friday, November 3rd

Advances in Technology

- P48** **Effect of electromyographic activity using capacitive and resistive electric transfer on non-specific chronic low back pain**
Wachi M., Jiroumaru T., Satonaka A., Ikeya M., Oka Y., Fujikawa T. (Japan)

Education and Behavioural Therapies

- P49** **A multidisciplinary treatment focused on stress to reduce pain in persons with chronic widespread pain**
Bergenheim A., Ho-Henriksson C.M., Grimby Ekman A., Larsson M.E.H., Larsson A., Persson M., Weineland S., Nordeman L. (Sweden)
- P50** **Women, ergonomics and back disorder, it's not just diapers that need changing**
Stewart A.J. (Australia)

Exercise

- P51** **Hand-held dynamometry is a reliable, valid, and clinically useful tool to evaluate trunk muscle strength in people with and without chronic non-specific low back pain**
Althobaiti S., Falla D. (UK & Saudi Arabia)
- P52** **The displacement of the lumbar COR as an objective index in assessing the effect of stabilizing exercises in patients with lumbar segmental instability**
Javadian Y., Akbari M., Talebi G.H., Taghipour M., Behtash H., Jafarpour H. (Iran)
- P53** **Reliability of the postural sway using accelerator during the one-hand push-up hold test**
Koyama T., Yaginuma T., Takahashi M., Noguchi T., Matsuda T., Nitta O. (Japan)

- P54** **Characteristics of electromyographic activity during yoga-applied lumbar stabilization exercise**
Okubo Y., Morikami T., Uebayashi K., Motohashi E. (Japan)

- P55** **Exercise for improving lateral abdominal muscle impairments: A feasibility study protocol**
Prentice C.L.S., Massy-Westropp N., Milanese S., Flavell C. (Australia)

- P56** **Active Straight Leg Raising (ASLR) competence improves with reverse-ASLR exercises and not repeating ASLR exercises: An assessor blinded, randomized controlled trial**
Takasaki H. (Japan)

- P57** **Is fatty infiltration in paraspinal muscles reversible with exercise in people with low back pain? A systematic review**
Wesselink E.O., Pool J.J.M., Mollema J., Weber II K.A., Elliott J.M., Coppieters M.W., Pool-Goudzwaard A.L. (The Netherlands, USA & Australia)

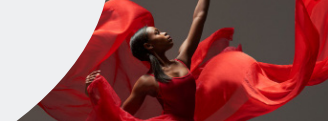
Fascia in Lumbopelvic Pain and Stability

- P58** **Improvements in functional status following manual interventions oriented to fascia in patients with chronic pelvic pain syndrome: A multiple baseline design clinical series**
Dal Farra F., Origo D., Colombo G., Di Modugno M., Giacconi G., Lanzani B. (Italy)
- P59** **The role of musculoskeletal ultrasound in the evaluation of lumbar fascia – A systematic review**
Loh K.J., Wee T.C. (Singapore)
- P60** **Treating sacroiliac joint pain away from the site of pain**
Williams J.R.E. (Australia)



Pelvic Girdle Pain

- P61** **Pregnancy and lactation associated osteoporosis (PLO) - A clinical “red flag”**
Amit David A. (Israel)
- P62** **Patient engagement in research and professional development in pelvic girdle pain**
Bolstad V.H., Lunestad A.T. (Norway)
- P63** **Classification systems for chronic pelvic pain in men: A systematic review**
Cyr M.P., Nahon I., Worman R., Cowley D., Hodges P.W. (Australia)
- P64** **Comparisons of the STaRT MSK tool to PROMIS-10 mental and physical health and international hip outcome tool in patients with hip and pelvic girdle pain in the setting of acetabular hip dysplasia**
Deo P., Cheng J., Leupold O., Trotzky Z., Dela Torre K., Plaskon P., Sink E., Prather H. (USA)
- P65** **Periacetabular osteotomies for acetabular dysplasia – Producing a physiotherapy education tool**
Kermode F., Kerruish G. (Australia)
- P66** **Frequency of potential hip joint disease complications in patients with sacroiliac joint dysfunction**
Kurosawa D., Murakami E., Noguchi M., Sasaki T., Hashimoto K., Aizawa T. (Japan)
- P67** **Frequency of sacroiliac joint dysfunction combination of lumbar intervertebral discs, facet joints, and radiculopathy: A condition that should be called sacroiliac-spine syndrome**
Murakami E., Kurosawa D., Hashimoto K., Aizawa T. (Japan)
- P68** **Femoral nerve mobilising is more than just passive knee bends**
Latimer M.G. (Australia)
- P69** **Consumers’ top ten priorities for future research**
Martinsen A.E., Lunestad A.T. Storheim K. (Norway)



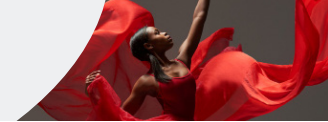
- P70** **Patterns of change in pelvic alignment and their relationship with pelvic girdle pain 12 weeks after childbirth: A prospective study of 11 postpartum cases**
Sakamoto A., Morito T., Watanabe G., Inoue S., Yamasaki M., Iwane N., Masubuchi Y., Muraki K., Kawamichi R., Katayama K., Ogura H., Takeda J., Kumagai H., Gamada K. (Japan)
- P71** **Measuring the abdominal trunk muscle strength in female patients with sacroiliac joint dysfunction and non-specific chronic low back pain using an innovative exercise device**
Sato A., Sasaki T., Kurosawa D., Murakami E. (Japan)
- P72** **Effectiveness of pathological classification of sacroiliac joint disorders in treatment**
Shin J., Matumoto R., Koga T., Koga H. (Japan)

Primary Care for Low Back Pain

- P73** **Numerical investigation of intra-abdominal pressure and spinal load-sharing upon the application of an abdominal belt – Preliminary results**
Bernier E., Driscoll M. (Canada)
- P74** **Treatment of a 23-year-old male rugby player suffering a traumatic fall of leading to disabling pelvic pain: A case report**
Bloink T., Blum C.L. (USA)
- P75** **Successful outcome of chiropractic care for a 53-year-old female patient previously scheduled for surgery presenting with sacroiliac joint sprain, lumbar spinal stenosis, and somatoemotional considerations**
Bloink T., Blum C.L. (USA)
- P76** **Multi-stakeholder engagement and development of a virtual care toolkit for integrated guideline-based low back pain management**
Correale M., Mian-Valiante S., Groe S., Lane K., Rampersaud R. (Canada)



- P77** **Provider confidence with virtual spine examination and preference for care delivery method two years after Covid-19 lockdown restrictions**
Correale M., Soever L., Rampersaud R. (Canada)
- P78** **Thermal therapy and exercises in acute low back pain: Preliminary results of a randomized controlled trial**
Côté-Picard C., Tittley J., Mailloux C., Perreault K., Mercier C., Dionne C.E., Roy J.S., Massé-Alarie H. (Canada)
- P79** **Current physiotherapy assessment and treatment practices for low back pain in Nigeria: A national survey**
Danazumi M.S., Ford J.J., Kaka B., Hahne A.J. (Australia & Nigeria)
- P80** **A group-supervised neuromuscular training program for the treatment of low back pain in military personnel – A randomized controlled trial**
Dupuis F., Perreault K., Maj J. Hébert L., Perron M., Maj Fredette A., Desmeules F., Roy J.S. (Canada)
- P81** **The interdisciplinary team members' experiences to early identify risk factors and practicing teamwork within primary care for patients with musculoskeletal disorders – A focus group study**
Ekhammar A., Bernhardsson S., Holmgren K., Larsson M.E.H. (Sweden)
- P82** **Self-reported outcomes and work participation before and during co-design of a municipal rehabilitation initiative for individuals with long-lasting back problems – A case series**
Kjaer P., Rosborg J.H., Brage K., Junge T., Larsen C.M. (Denmark)
- P83** **Exploring disabling low back pain in older adults who seek chiropractic care: Protocol for a grounded theory study**
Moss K.A., de Luca K.D., Fernandez M., Dane D.E., Moraleida F.R., Salsbury S.A.S., Wong A.Y.L. (Australia, Brazil, USA & Hong Kong)
- P84** **Evaluation of spinal pain patients at chiropractic training institutions implementing the maintain tool: A preliminary study**
Pohlman K.A., Tom L., Boylan P., Graham R., Beckerman B., Morales V., Cerf K., Malaya C., Monier Z., Muller R., Browning A., Stuber K.J., Palmgren P.J., Eklund A. (USA & Sweden)



- P85** **Telemedicine triage and consultation in the era of pandemic: Preliminary results**
Rachevits M., Roberts S., Razmjou H., Yee A., Finkelstein J. (Canada)
- P86** **Development and implementation of an integrative, diagnosis-based Primary Spine Care Pathway at a healthcare university and its academic healthcare centers**
Russell R. (USA)
- P87** **“How do I move this person forward?”: Experiences of physiotherapists delivering cognitive functional therapy for persistent low back pain in a randomised controlled trial**
Simpson P., Holopainen R., Schutze R., O’Sullivan P., Kent P., Smith A. (Australia & Finland)

Self-Management & Lifestyle Interventions

- P88** **Baseline characteristics of patients choosing an intensive lifestyle medicine approach for treatment of spine mediated pain and dysfunction**
Hunt D.M., Martin A.Z., Cheng A.L. (USA)
- P89** **Factors promoting improvements in symptoms and health in women with fibromyalgia and chronic widespread pain - A qualitative interview study**
Juhlin S., Mannerkorpi K., Bergenheim A. (Sweden)
- P90** **Building a lifestyle medicine program to address lifestyle-related chronic disease and coexisting painful musculoskeletal conditions**
Prather H., Cheng A.L., Dwivedi M., Mehta N., Hong B., Putman J., Taverna-Trani A., Cheng J., Hunt D. (USA)
- P91** **Early outcomes of an intensive interprofessional lifestyle medicine pilot program for patients with lumbar spine and musculoskeletal conditions**
Prather H., Goldring A., Suter C., Rose D., Jasphy L., Mehta N., Taverna-Trani A., Cheng J. (USA)



- P92** **Usability and technology acceptance of BACK-to-FIT – A novel digital intervention to promote exercise self-management and physical activity in people with low back pain**
Rarthnayake A.P.S., Sparkes V., Sheeran L. (UK)
- P93** **Body posture while working at a computer, but not working from home, is associated with low back pain**
Snodgrass S.J., Edwards S., Heneghan N.R., Puenteadura E.J., James C. (Australia, UK & USA)
- P94** **A novel approach to managing chronic back pain: 4 simple exercises, habit modification and standard manual therapy improves outcomes in 'right functional scoliosis'**
Solowij V. (Australia)
- P95** **We don't know what we don't know: The trouble with domestic childcare equipment**
Stewart A.J. (Australia)

The Essential Source

research
essential
results
impact
hypothesis
relevant

The Journal of Rheumatology is your
Essential Source with the latest research,
authoritative and peer-reviewed papers.



for more information visit us at jrheum.org

[illegible][illegible]

Subscribe
today



Available in digital
formats and through our
social channels



spinalnews international

Visit spinalnewsinternational.com and click 'Subscriptions'
for complimentary e-newsletter subscription
– or subscribe below.

Subscribe
here



The organization wishes to express its gratitude to authorities
and companies who made it possible to organize this congress.



GOLD SPONSOR

PHYSIOMED ELEKTROMEDIZIN AG

our brands:  **PHYSIOMED®** **proxomed®** **ERGOFIT**

EXHIBITORS

Clinical Pro
Fascia Research Society
Fasciq
LMT Surgical
Mainstay Medical
Thermotrigger

PHYSIOMED ELEKTROMEDIZIN AG

●●● PHYSIOMED® **proxomed**® ERGOFIT

Innovative in rehabilitation,
sports and aesthetic medicine

EXPLORE
OUR
PRODUCT
PORTFOLIO

