WELCOME & INTRODUCTION

Chiropractic For A New Normal

2021 marks the 30th anniversary of the World Federation of Chiropractic’s Biennial Congress. Since our inaugural meeting in Toronto back in 1991, we’ve come a long way. This year, our 16th Biennial Congress, reflects an unprecedented time in our history. COVID-19 has impacted every aspect of our lives. It has presented challenges for clinicians, educators, students, and scientists within the chiropractic profession. It has also acted as a catalyst for inspiration, innovation, and opportunity.

As we emerge from the pandemic, we find ourselves in a new normal. What seems certain is that the delivery of healthcare has evolved, new methods will become accepted practices, and emerging evidence will drive methods of learning, communication, and care delivery. Patient expectations will also have changed, and expectations of evidence-based, people-centered, interprofessional and collaborative practice will drive change in the environment of this new normal.

Our 2021 Biennial Congress will showcase the leading global advances in chiropractic. With contributors from around the globe, our theme of Chiropractic For A New Normal will showcase leading contemporary issues, with outstanding keynote speakers, stimulating panel debates, groundbreaking research and inspiring workshops.

Past attendees will know that the WFC Congress has something for everyone. Whether you’re a student, early-career clinician, longstanding practitioner, educator or research scientist, our congresses uniquely bring our global community together.

This year’s event is 100% virtual and we’re partnering with the best in the business. Parker Seminars have developed a worldwide reputation for delivering outstanding online events and we’re proud to be working collaboratively to present an unmissable experience.

Richard Brown  DC, LL.M, FRCC, FICC
Secretary-General
World Federation of Chiropractic
SESSION A: NEW NORMAL - THE GLOBAL NEED FOR PEOPLE-CENTEREDNESS

08:00 Opening and welcoming address
Carlos AYRES, President, WFC
Richard BROWN, Secretary-General, WFC

08:20 Keynote address:
Opportunities to Lead in a People-Centered World
Nakela COOK, Executive Director, PCORI (USA)

09:00 Chiropractic's Role in Community Healthcare: the Hands On Health Experience
Joan VAN ROTTERDAM, Chair, Hands on Health (Australia)

09:20 Kindness is a Blockbuster Drug!
Jeremy HOWICK, Oxford Empathy Programme, University of Oxford (UK)

09:40 Universal Health Coverage: Serving the Underserved
Mufudzi CHIHAMBAKWE, Spine Health Africa (Botswana)
Steven PASSMORE, Faculty of Kinesiology & Recreation Management University of Manitoba (Canada)

10:00 REFRESHMENT BREAK, TRADE EXHIBITION & POSTER VIEWING

SESSION B: MANY FACES, ONE VOICE - DEI IN ACTION

10:40 Panel Discussion: Addressing Diversity, Equity & Inclusion in Chiropractic
Jamiu BUSARI (Chair), Dean, Horatio Oduber Hospital (Aruba)
Micheala EDWARDS, President, American Black Chiropractors Association (USA)
Philippa OAKLEY, British Chiropractic Association (United Kingdom)
David PEEACE, Past Chair, Canadian Chiropractic Association (Canada)
Ranen RAMBRIJ, Private Practice (United Arab Emirates)

11:40 REFRESHMENT BREAK, TRADE EXHIBITION & POSTER VIEWING

*All times in Central Daylight Time U.S. (UTC -5)
12:00

**TRACK 1: ORIGINAL RESEARCH**

*Research Platforms I*

**Chair:** Katie POHLMAN, Director of Research, Parker University (USA)

**James WHEDON**

*Utilization of chiropractic care reduces use of prescription opioids among older medicare beneficiaries with spinal pain*

**Matthew FERNANDEZ**

*GLA:D Back Australia: a feasibility study for implementation*

**Carlo AMMENDOLIA**

*Nonoperative treatment for lumbar spinal stenosis with neurogenic claudication. An updated systematic review*

**Craig MOORE**

*The impact and public health response of chiropractors to the COVID-19 pandemic: A survey across four continents*

**Alan JENKS**

*Spinal manipulative therapy in older adults with chronic low back pain: An individual participant data meta-analysis*

**Michele MAIER**

*Association between psychosocial parameters and response to chiropractic care among older adults with chronic back pain*

**TRACK 2: PREVIOUSLY PUBLISHED RESEARCH**

*Research Platforms II*

**Chair:** Sidney RUBINSTEIN, Assoc. Professor, Vrije Universiteit Amsterdam (Netherlands)

**Kris ANDERSON**

*Best practices for chiropractic management of patients with chronic musculoskeletal pain: a clinical practice guideline*

**Felipe DUARTE**

*Impulse attenuates nociception and oxidative stress in the spinal cord and sciatic nerve of a rat model of neuropathic pain*

**Lise HESTBAEK**

*Effectiveness of chiropractic manipulation versus sham manipulation for recurrent headaches in children aged 7-14 years. A randomised clinical trial*

*All times in Central Daylight Time U.S. (UTC -5)*
Hazel JENKINS
The association between guideline adherent radiographic imaging by chiropractic students and the
diagnostic yield of clinically significant findings

Katherine POHLMAN
Active versus passive surveillance adverse event reporting in a pediatric chiropractic care setting: a
cluster randomized controlled trial

Michael SCHNEIDER
Risk Factors Associated with Transition from Acute to Chronic Low Back Pain in US Patients Seeking
Primary Care

Patricia TAVARES
Distance management of spinal disorders during the COVID-19 pandemic and beyond:
evidence-based guides from the Global Spine Care Initiative

Track 3: CLINICAL SCIENCE

Essential Pain Science for Chiropractors

Romy PARKER, Dept. Anaesthesia & Perioperative Medicine, University of
Cape Town (South Africa)

Demetry ASSIMAKOPOULOS, Clinical Coordinator, Comprehensive Integrated Pain Program,
University of Toronto (Canada)

Track 4: PUBLIC HEALTH

Chiropractors as Public Health Advocates

Claire JOHNSON, Chair, WFC Public Health Committee (USA)

Rebekah WILKS, World Spine Day Committee (USA)

Yi Kai WONG, Chiropractic Programme Director, International Medical University (Malaysia)

*All times in Central Daylight Time U.S. (UTC -5)
13:00

**TRACK 5: ORIGINAL RESEARCH**

*Research Platforms III*

**Chair:** Marc-André BLANCHETTE, University of Quebec at Trois Rivieres (Canada)

**Casper NIM**

The temporal stability of self-reported back pain trajectories

**Lyndon AMORIN-WOODS**

The role of chiropractic care in providing health promotion and clinical preventive services for adult patients with musculoskeletal pain

**Felipe DUARTE**

Short-term effects of spinal manipulation with different force-magnitudes on blood biomarkers of oxidative stress and inflammation: A pilot study

**Stephanie ALEXOPOULOS**

Tracking clinical care among patients with chronic low back pain: the utility of performance-based measures of physical function and impairment

**Carol Ann WEIS**

Best practices recommendations for chiropractic care for pregnant and postpartum patients: results of a consensus process

**Anna-Marie ZIEGLER**

Learning the neurobiology of pain: A scoping review of pain education from an instructional design perspective

**TRACK 6: ORIGINAL RESEARCH**

*Research Platforms IV*

**Chair:** Michael SCHNEIDER, University of Pittsburgh (USA)

**Dorthe Schoeler ZIEGLER**

Inequality in the treatment of disc herniation? Socio-demographic characteristics of patients undergoing first-time, single-level, simple lumbar discectomy

**Hazel JENKINS**

The effects of diagnostic imaging on clinical outcomes in low back pain patients presenting for chiropractic care: matched observational study

*All times in Central Daylight Time U.S. (UTC -5)*
Elisa DUBUC
Chiropractic techniques and treatment modalities included in academic programs: a survey of accredited chiropractic colleges

Andrew ROMANELLI
GLA:D® at the Canadian Memorial Chiropractic College: a description of implementation and participant outcomes

Maliheh HADIZADEH
Identifying predictors of the timing of successful low back pain treatment response: A secondary RCT analysis

Lindsay GORRELL
Kinematics of the head and associated vertebral artery strains during the thrust phase of high-velocity, low-amplitude cervical spine manipulation

TRACK 7: NEUROLOGY
Emerging Themes in Functional Neurology
Matthew ANTONUCCI, Plasticity Brain Centers, Florida (USA)
Igor DIJKERS, Chair, European Academy of Chiropractic (Netherlands)

TRACK 8: INNOVATION
Spine Care Telehealth: Getting Started with the New Normal
Bart GREEN, Stanford Health Care, California (USA)
Scott HALDEMAN, World Spine Care (USA)

14:00 OPEN DIGITAL POSTER VIEWING

*All times in Central Daylight Time U.S. (UTC -5)*
SESSION C: CHIROPRACTORS AS GLOBAL TEAM PLAYERS

08:00  Keynote Address

*There and Back Again: An Overview of Biopsychosocial Approaches for Spine Pain*
Steven GEORGE, Director of Musculoskeletal Medicine, Duke University (USA)

08:40  Now More Than Ever: A Global Strategy of Musculoskeletal Health
Andrew BRIGGS, Curtin University, Global Alliance for Musculoskeletal Health (Australia)
Deborah KOPANSKY-GILES, Unity Health Care, University of Toronto, Canadian Memorial Chiropractic College, Global Alliance for Musculoskeletal Health (Canada)

09:00  Chiropractors Within the National Sports Care Framework
Raul CARILLO RODRIGUEZ (Mexico)

09:20  Interprofessional Care: Only Team Players Need Apply
Anthony LISI, Chiropractic Program Director, Veterans Health Administration (USA)

09:40  REFRESHMENT BREAK, TRADE EXHIBITION & POSTER VIEWING

SESSION D: SEEKING UNITY THROUGH COLLABORATION

10:00  Panel discussion: Shared Values - Unifying Principles in Chiropractic
William MORGAN (Chair), President Parker University (USA)
Martin CAMARA, President, Association of Professional Chiropractors of the Philippines (Philippines)
Selina SIGAFOOSE-JACKSON, Chair, International Chiropractors Association (USA)
Hayden THOMAS, President New Zealand Chiropractors Association (New Zealand)
Debbie WRIGHT, Chair, Canadian Chiropractic Association (Canada)

11:00  WFC David Chapman-Smith Honor Awards
Richard BROWN, WFC Secretary-General (United Kingdom)
David CHAPMAN-SMITH, Past WFC Secretary-General (Canada)

11:20  REFRESHMENT BREAK, TRADE EXHIBITION & POSTER VIEWING

*All times in Central Daylight Time U.S. (UTC -5)*
12:00  TRACK 1: ORIGINAL RESEARCH

Research Platforms V
Chair: Keseri PADAYACHY, Durban University of Technology (South Africa)
Casper NIM
The need for specificity when applying spinal manipulation: Myth or reality? A systematic review
Annamarie DE ZOETE
Exercise for treatment of acute non-specific low back pain: update of the Cochrane review
Morgan PRICE
Systematic review of guideline-recommended medications prescribed for treatment of mechanical low back pain
Aurelie MARCHAND
Entrustable professional activities; the next step in competency-based education? Five EPAs in chiropractic paediatric education
Melissa NEAVE
Characteristics of chiropractic paediatric practice: secondary analysis of the COAST and O-COAST
Jesper HJERSTRAND
The Nordic Maintenance Care Program: Patient experience of maintenance care - a qualitative study

TRACK 2: ORIGINAL RESEARCH

Research Platforms VI
Chair: Melissa KIOH, International Medical University (Malaysia)
Christian MANANSALA
Predictors of non-pharmacological, non-surgical treatment utilization prior to thoracolumbar spine surgery in Manitoba: A Canadian Spine Outcomes Research Network study
Andreas EKLUND
Maintain, a short clinical instrument for the identification of dysfunctional patients suitable for Maintenance Care
Christine GOERTZ
Managing pain better: strategies to advance integrated pain management programs

*All times in Central Daylight Time U.S. (UTC -5)
Peter EMARY
Quality of reporting in chiropractic mixed methods research: a methodological review

Anneke VERBEECK
Spinal manipulative therapy for acute and subacute low back pain: update of the Cochrane review

Stacie SALSBUY
Adapting a clinical trial protocol to support virtual chiropractic care delivery and research: planning responses to the evolving COVID-19 pandemic

**TRACK 3: RADIOLOGY**

*Black, White and Shades of Gray: A Contemporary Approach to Chiropractic Imaging*

Marshall DELTOFF, Chiropractic Radiologist, Barcelona College of Chiropractic (Spain)

Cliff TAO, Chiropractic Radiologist (USA)

**TRACK 4: REGULATION**

*Chiropractic Regulation: Through Covid-19 and Beyond*

Tim COOPER (Chair), New Zealand Chiropractic Board (New Zealand)

Nick JONES, Chief Executive & Registrar, General Chiropractic Council (United Kingdom)

Wayne MINTER, President, International Chiropractic Regulatory Society (Australia)

Leonard WONG, Hong Kong Chiropractors Council (Hong Kong)

Chris YELVERTON, Chair, Allied Health Professions Council of South Africa (South Africa)

13:00

**TRACK 5: ORIGINAL RESEARCH**

*Research Platforms VII*

Chair: Dana LAWRENCE, Parker University (USA)

Simon WANG
Discomfort, pain and stiffness: what do these terms mean to patients? A cross-sectional survey with lexical and qualitative analysis

Anke LANGENFELD
Back muscle perfusion and oxygenation during isometric back muscle exercise in patients with chronic low back pain: A cross-sectional study

*All times in Central Daylight Time U.S. (UTC -5)*
Marc-André BLANCHETTE
The association between characteristics of Danish chiropractors and number of referred patients from general practitioners—a cross-sectional study

Katherine POHLMAN
Supporting a culture of transparency and trust – results of an active surveillance reporting system from spinal manipulation therapy providers

Michelle HOLMES
Doing our best for patient safety: a qualitative analysis of provider perspectives from community-based settings offering spinal manipulative therapy

Stephen PERLE
Evaluation of United States chiropractic professional subgroups: a survey of randomly sampled chiropractors

**TRACK 6: ORIGINAL RESEARCH**

*Research Platforms VIII*

**Chair: Stacie SALSURY, Palmer College of Chiropractic (USA)**

Brian COLEMAN
Patterns of low back pain visits by patients receiving on-station healthcare in the Veterans Health Administration

Jacqueline RIX
Usability Testing as an Aid to Design a Person-Centred Randomised Clinical Trial

Robert WALLACE
Benefits and challenges of going virtual: the future of research and clinical approaches to musculoskeletal care in US military Veterans

William BRANN
The effectiveness of cervical spine manipulation on neck muscle activity, force output, pain and disability in participants with cervicogenic headache

Brian GLEBERZON
The current and future status of the chiropractic profession: A thematic analysis of interviews of 30 influential stakeholders

Anthony LISI
Assessing mechanisms of chiropractic care delivery in the US Veterans Health Administration

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TRACK 7: PEDIATRICS

Pediatric Care in Chiropractic: Evaluating the Evidence
Lisa HESTBAEK, University of Southern Denmark (Denmark)
Katie POHLMAN, Director of Research, Parker University (USA)
Anna PAPADOPOULOU, Private Practice, Nicosia (Cyprus)

TRACK 8: CLINICAL PRACTICE

Unlocking the Mysteries of the TMJ
Alex VIDAN, Private Practice, St Louis (USA)

14:00 OPEN DIGITAL POSTER VIEWING

*All times in Central Daylight Time U.S. (UTC -5)*
SESSION E: ADAPTING HEALTHCARE TO A NEW NORMAL

08:00  
*Gen Z: How Digital Natives Are Moving the Needle in Chiropractic*

Wren BURTON, Osher Centre for Integrated Health (USA)

08:20  
*The WHO Global Transformation and Key Lessons from COVID-19*

Meri ROBINSON NICOL, Unit Head, Process Efficiency Unit, World Health Organization

08:40  
*Adding Life to Years: Chiropractic's Contribution to Healthy Ageing*

Katie DE LUCA, Macquarie University (Australia)

09:00  
**Keynote address:**

*Why the Decade of Healthy Ageing is Important For Us All*

Yuka SUMI, Ageing and Health Unit, World Health Organization

09:40  
**REFRESHMENT BREAK, TRADE EXHIBITION & POSTER VIEWING**

SESSION F: THE FUTURE IN OUR HANDS

10:20  
*Knowledge Transfer in Chiropractic: Power, Advancement, Currency*

Shawn THISTLE, RRS Education (Canada)

10:40  
**Panel discussion**

*Future Focused: Chiropractic in a Post-COVID World*

Clay McDONALD (Chair), President, Logan University, Missouri (USA)

Keiron BOOSI, Director External Affairs, WCCS (South Africa)

Anthony COXON, President, Australian Chiropractors Association (Australia)

Alison DANTAS, CEO, Canadian Chiropractic Association (Canada)

Lone KOUSGAARD JORGENSEN, President, Danish Chiropractic Association (Denmark)

11:40  
**REFRESHMENT BREAK, TRADE EXHIBITION & POSTER VIEWING**

*All times in Central Daylight Time U.S. (UTC -5)*
SESSION G: WFC RESEARCH AWARDS: THE VOICES OF SCIENCE

12:00  WFC NCMIC Research Awards
Christine GOERTZ, Chair, WFC Research Committee
Scott Haldeman Award for Outstanding Research
NCMIC Louis Sportelli Research Award (First Prize)
NCMIC Louis Sportelli Research Award (Second Prize)
Early Investigator Award

WFC IBCE Poster Awards

13:00  The Biennial John Sweaney Lecture
Michele MAIERS, President, American Chiropractic Association (USA)

13:40  Preview of 17th WFC Biennial Congress, Gold Coast, Queensland, Australia
2023 WFC Congress Organizing Team

13:50  Summary and Closing Remarks
Carlos AYRES, President, World Federation of Chiropractic (Peru)

14:00  END OF CONGRESS

ON-DEMAND ACCESS
In conjunction with our friends at Parker Seminars, we are offering Congress delegates On-Demand access to Chiropractic For A New Normal until December 31, 2021.

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