

DRAFT ACADEMIC PROGRAMME*

17th World Federation of Chiropractic Biennial Congress
in association with the

Australian Chiropractors Association

Gold Coast Convention & Exhibition Centre, Gold Coast, Queensland, Australia
11-14 October 2023

*Programme is subject to change without notice

THE TROPIC AT BURLEIGH PAVILION

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WELCOME & INTRODUCTION

On behalf of the World Federation of Chiropractic and the Australian Chiropractors' Association, welcome to the 17th WFC Biennial Congress.

People-centred care is an approach that prioritises the needs, preferences and values of patients. It recognises that every individual is unique and requires care that is tailored to their specific circumstances. Patients are the reason why we exist and do what we do. They are the common element to all chiropractors, in every country, in every world region.

Our Congress theme of 'Let's Start With The Patient' reflects the need to be people-centred and acknowledge the central role that they play in the provision of chiropractic care, regardless of the part of the world or environment in which that care is being delivered.

The spectacular Gold Coast Conference and Exhibition Centre will play host to the 17th WFC Biennial Congress. This state of the art facility is located in the upscale Broadbeach area of Gold Coast, close to our recommended hotels and within easy reach of the world famous, sun-kissed beaches.

Over the course of three packed days, our academic programme will take attendees on a journey covering various facets associated with people-centred care. These include equity, diversity and inclusivity, the patient experience, contextual factors, personalised packages of care, delivery of care across the life course, patient safety, communication and social determinants of care.

The WFC's commitment to evidence-based, people-centred, interprofessional and collaborative care - the pillars of our #BeEPIC campaign - will be front and centre throughout the Congress. We will be showcasing both

original and published research and awarding prizes to the best submissions in our research competition.

We have a range of workshops that provide something for everyone, with topics including paediatrics, women's health, sports chiropractic, neurology, rehabilitation, clinical biomechanics, business and management, and public health. Technique masterclasses will also be included in the programme for those wanting a hands-on experience.

Our Congresses would not be the same without a vibrant social programme and our 2023 event is no exception. As well as our opening night cocktail and canape welcome reception, we are hosting a traditional Aussie Night at Gold Coast's Sea World resort and a Gala and Awards Dinner on the final night.

Gold Coast is located on the east coast of Australia, 66km (41 miles) south of Brisbane, where the main international airport is located. Famous for its long sandy beaches, surfing spots and elaborate system of inland waterways, there are endless activities such as hiking, water sports and theme parks.

The 17th WFC Biennial Congress promises to be an unforgettable experience and a once-in-a-lifetime opportunity to share in the excitement of a global chiropractic event at an iconic location. We look forward to seeing you there!





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VENDOR AND POSTER EXHIBITION SET UP

15:00	Exhibition bump in	Hall 1
	Poster presentation set up	Hall 1
15:00	Registration opens	

Delegates are advised to register on Wednesday, October 11 in order to avoid congestion and delay on the first morning of the Congress.

WELCOME RECEPTION

18:00 - 20:00	Welcome Reception	Hall 1
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Attendees are invited to the traditional WFC Congress Welcome Reception where they can reconnect with old friends, forge new friendships, experience the Congress Expo and visit the poster exhibition.

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There's safety in numbers. And with safety comes confidence; the confidence to keep moving forward, especially in your career. At Guild, we've dedicated the last 60 years to building a network of professionals to provide the support to help you leap higher.

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07:30 Registration opens

WELCOME CEREMONY

08:30 Indigenous cultural welcome Hall 2

Official welcome from the Queensland Government

David Cahill MAppSc, President, Australian Chiropractors Association (Australia)

John Maltby DC, President, World Federation of Chiropractic (United States)

SESSION A: PATIENTS AS DRIVERS OF HEALTHCARE

Session Chair: Richard Brown DC, LL.M, Secretary-General, World Federation of Chiropractic (Canada)

09:00 **What Does It Take To Be Person-Centred? Behaviours, Skills and Competencies** Hall 2

Michele Maiers DC, MPH, PhD (United States)

Dr Michele Maiers is the immediate past president of the American Chiropractic Association, the Executive Director of Research and Innovation at Northwestern Health Sciences University and the co-director of the Center for Collaborative Research in Complementary and Integrated Health at the Rand Corporation. In this presentation, she will describe how chiropractors can best equip themselves to deliver people-centred solutions in an ever-changing health care environment.

09:30 **Leaving No-one Behind: Realising a Vision for Chiropractic** Hall 2

Martin Camara DC (Philippines)

The World Health Organization (WHO) promotes Universal Health Coverage. It defines equity as the absence of avoidable, unfair or remediable differences between different groups of people. Health equity is a fundamental human right and is achieved when everyone can attain their full potential for health and well-being. In this presentation, Dr Martin Camara will outline the importance of leaving no-one behind in delivering fair, equitable and accessible to chiropractic.

10:00 **Why patient centredness must be our mantra** Hall 2

Michael J. Schneider DC, PhD (United States)

This presentation will set out the role of a patient-centred approach in chiropractic practice, clinical research and education of chiropractors around the world. It will describe the need for patient empowerment, shared decision making and an integrated approach to the delivery of care

10:30 **REFRESHMENT BREAK, POSTER EXHIBITION AND VENDOR BOOTHS**

SESSION B: DELIVERING A PERSONALISED PACKAGE OF CARE

Session Chair: Dawn Dane DC, EdD, Head of Course, Central Queensland University (Australia)

11:00 **Exploring The Patient Experience: Outcomes Of A National Task Force** Hall 2

Ayla Azad DC, MBA (Canada)

The Canadian Chiropractic Association (CCA) is the largest WFC Member national association, representing over 8000 chiropractors. Through a national patient experience task force, the CCA has undertaken extensive work to listen to and understand the voices of patients in order to optimise the provision of chiropractic care. In this presentation, Ayla Azad, Chief Executive Officer of the CCA, will summarise the outcomes of the task force and the key messages for future people-centred care.

11:20 **Patient Centred Maintenance Care: Anything But Routine** Hall 2

Andreas Eklund DC, MChiro, PhD (Sweden)

Andreas Eklund is recognised as one of the world's leading authorities on the subject of maintenance care and the chiropractic management of recurrent, persistent pain. He is an Assistant Professor at the prestigious Karolinska Institutet in Stockholm, Sweden. In this presentation he will set out the evidence supporting the effectiveness and cost effectiveness of maintenance care in the context of people-centred management of spinal pain and disability.

11:40

Panel Discussion: Do Individualised Needs and Preferences Come First In Holistic, Evidence-based Practice?

Hall 2

Ryan Coster DC, MBA (Chair) (Canada)

Martin Camara DC (Philippines)

Matthew Fernandez MAppSc, PhD (Australia)

Catherine Quinn MChiro (United Kingdom)

Anne Marie Selboskar Selven DC, MSc (Norway)

In an era of evidence-based practice, there is often confusion as to the relative weighting of its three components. A commitment to people-centered environments requires the judicious application of care such that the right patients get the right treatment at the right time. This panel will explore issues including interprofessional practice, identifying patient needs and ensuring the delivery of focused solutions.

12:30

LUNCH, POSTER EXHIBITION AND VENDOR BOOTHS

14:00 - 15:30

WORKSHOP TRACKS

A1: Research Platform Presentations

Central Room B

Chair: Katherine Pohlman DC, PhD (United States)

Spinal Pain, Chronic Health Conditions and Health Behaviors

Patricia Tavares BSc, DC (Canada)

Association of Chiropractic Care with Receiving an Opioid Prescription: a Mixed Methods Study

Peter Emary DC, PhD (Canada)

Use of Thrust Cervical Spinal Manipulative Therapy

Eric Chu BSc, MHA, DC, PhD (Hong Kong)

Myofascial Pain as an Unseen Comorbidity

Felipe C. K. Duarte DC, MSc, PhD (Australia)

The Literature on Treatment Approaches Utilized in the Management of Low Back Pain in the Continent of Africa: A Scoping Review

Raheleh Khorsan BA, MA, PhD (United States)

Factors That influence Delivery of Canadian Chiropractic Services to Equity-Seeking Communities: A Qualitative Study

Nora Bakaa BSc, DC, MSc (Canada)

Occupationally induced Low Back Pain in Emergency Ambulance Staff: Impact Upon Quality of Life and Attitudes and Preferences towards Treatment and Prevention

Adrian Hunnisett BSc, MPhil, PhD (United Kingdom)

Bridging the Knowledge-to-Action Gap in Evidence-Based Practice: A Narrative Review to Address the Needs of Community-Based Chiropractors

Caroline Brereton RN, MBA (Canada)

Development of an integrative, Diagnosis-Based Spine Care Pathway at a Healthcare University and Its Academic Healthcare Centers

Robb Russell BS, DC (United States)

A2: Research Platform Presentations

Central Room C

Chair: Amy Miller MSc, PhD (United Kingdom)

What Are the Defining Features of a Pediatric Chiropractor? A Qualitative Study

Andrea Diaz BS, MS, DC (United States)

Practitioner Characteristics in the Care of Women in the Perinatal Period

Joel Alcantara DC (United States)

Short-Term Clinical Course of infantile Symptoms Presenting in Primary Care: A Secondary Analysis of the United Kingdom infant Questionnaire (UKIQ) Study

Michael Swain BAppSc, MChiro, PhD (Australia)



Unveiling the Perspectives of Chiropractors: A Qualitative Study on Adaptations for Chiropractic Care in Aging Adults

Delphine Caissy DC (Canada)

Factors Associated with Rehabilitative Home Exercise Adherence and Disability Recovery Among Older Adults with Chronic Low Back Pain: Secondary Analysis of a Randomized Trial

Michele Maiers DC, MPH, PhD (United States)

Development of the Spine Mobility Smartphone App to increase Physical Activity in Older Adults with Lumbar Spinal Stenosis: An intervention Mapping Approach

Carlo Ammendolia BSc, DC, MSc, PhD (Canada)

Examine the Safety and Satisfaction of Chiropractic Care for the Treatment of LBP in Older People

Central Room C

Hannah Dale BSc, MChiro (Australia)

A3: Evidence-based Musculoskeletal Care For Paediatric Health Conditions

Central Room A

Elise Hewitt DC, DICCP, FICC (United States)

One of the world's foremost paediatric chiropractors, Elise Hewitt is the programme director for Logan University's Master of Science in Integrative Paediatrics. Having served for 10 years as the American Chiropractic Association's Pediatrics Council, Elise will bring her 34 years of experience in improving the health of children to the global stage. In this workshop, she will cover a range of health conditions commonly encountered in children and infants and explore options for chiropractic care.

A4: Cervical Spine Rehabilitation: A Multidisciplinary Approach

Hall 2

*Deed Harrison DC (United States)**Jason Jaeger DC (United States)*

Rehabilitation comprises a set of interventions designed to optimise functioning and reduce disability in individuals with health conditions in interaction with their environment. As spine care experts, chiropractors frequently encounter both acute and chronic cervical spine conditions giving rise to disability. In this workshop, the presenters will use published research and protocols to illustrate how multidisciplinary approaches to rehabilitation can contribute positively to clinical outcomes. Deed Harrison is the president of Chiropractic Biophysics and has published over 230 papers in peer-reviewed journals and 7 textbooks. Jason Jaeger is a physical medicine and rehabilitation specialist, leading a chain of integrated health facilities in southern Nevada.

15:30

REFRESHMENT BREAK, POSTER EXHIBITION AND VENDOR BOOTHS

16:00 - 17:30

WORKSHOP TRACKS**B1: Research Platform Presentations**

Hall 2

Chair: Michael Swain MAppSc, PhD (Australia)

The Effectiveness of Various Spinal Manipulative Therapy Procedures for Spine Pain: A Systematic Review and Network Meta-Analysis

Casper Nim MSc, PhD (Denmark)

Patient and Provider Characteristics Associated with Therapeutic intervention Selection in A Chiropractic Clinical Encounter: A Cross-Sectional Analysis of the COAST and O-COAST Cohort Study Data

Aron Downie BSc, MChiro, MPhil, PhD (Australia)

The Relationship Between the Drawn Area of Digital Pain Drawings and Psychosocial and Disability Variables in Low Back Pain Patients

Steen Harsted BSc, MSc, DC, PhD (Denmark)

Systematic Review to inform A World Health Organization Clinical Practice Guideline: Benefits and Harms of Exercise Programs for Chronic Primary Low Back Pain in Adults

Hainan Yu MBBS, MSc (Canada)

A Systematic Review of the Effectiveness of Superficial Heat and Cold for Decreasing Pain and Improving Disability in Adults with Low Back Pain

Katie de Luca BAppSc, MChiro, PhD (Australia)

Network Meta-Analysis for Comparative Effectiveness of Non-Pharmacological interventions On Sleep Quality in Individuals with Chronic Musculoskeletal Pain

Arnold Wong BSc, MPhil, PhD, PT (Hong Kong)

A Systematic Review of Recent Case Reports on Chiropractic Cervical Spine Manipulation and Cervical Artery Dissection

Peter Tuchin BSc, GradDipChiro, PhD (Australia)

Components of Multimodal Chiropractic Care in A Pragmatic Clinical Trial of U.S. Military Veterans with Chronic Low Back Pain

Cynthia Long PhD, PStat (United States)

B2: Research Platform Presentations

Central Room C

Chair: Imran Khan Niazi (New Zealand)

Development of Low Back Pain Curriculum Content Standards for Entry-Level Clinical Training

Hazel Jenkins BMedSci, MChiro, MAppSc, PhD (Australia)

Interprofessional Student-Led Clinics: An Educational Opportunity to Realize WFC EPIC Principles and Meet Patient Needs

Amy Miller BSc (Hons), MSc, PhD (United Kingdom)

Patient Safety in Chiropractic Teaching Programs: A Cross-Sectional Evaluation

Michael Moore DC, MHA (United States)

Toward the Development of a Standardized Ethics Curriculum for Chiropractic Programs Worldwide: A Narrative Review and Call to Action

Navine Haworth DC, PhD (Australia)

Diagnostic Imaging instruction and Assessment at Chiropractic Programs: A Cross-institution Curricular Content Sub Study with Implications for Competency Assessments

Kristin Grace DC, DACBR (Australia)

Development and Implementation of a Novel Chiropractic Peer-Review Training Program: A Qualitative Study

Shannon Schueren DC, MS (United States)

Postgraduate Clinical Education in Switzerland: Factors influencing Employment Decisions of Chiropractic Assistants

Luana Nyirö DCM, BMed, MChiroMed (Switzerland)

Using A Mixed Methods Approach to Exploring in-Person Vs Virtual interprofessional Teaching Among Health Professional Learners in Primary Care

Deborah Kopansky-Giles BPHE, DC, MSc (Canada)

Presenters At Chiropractic Research Conferences 2010 - 2019: Is there A Gender Equity Problem?

Sasha Aspinall PhD, BSc (Hons), BChiro (Australia)

B3: Athlete-Centred Approaches To Sports Chiropractic

Central Room A

Luke Nelson BAppSc, ICSC, MSc (Sport) (Australia)

Pete Garbutt BAppSc, ICCSD (Australia)

Athlete-centred care is the delivery of healthcare services that focus on the individual athlete's needs and concerns. With chiropractors taking an increasing role as members of sports medical teams, the expectation is that care must be interprofessional, collaborative and centred on the individualised needs and preferences of the athlete relative to



their sporting activity. Luke Nelson and Pete Garbutt are highly respected sports chiropractors in Australia, providers of care to elite athletes and experienced members of FICS, the international sports chiropractic federation. In this workshop, they will cover the importance of a targeted assessment, shared decision-making in relation to plans of care, and clinical pearls from careers in sports chiropractic.

B4: Complaints Avoidance: Top Tips To Manage Challenging Patients, Handle Complaints And Combat Patient Dissatisfaction

Hall 2

Wayne Minter BAppSc, AM (Australia)

Dean Wright DC (Canada)

Chris Yelverton MTechChiro, PhD (South Africa)

There are few, if any, chiropractors who do not encounter challenging situations in their practices. These can arise from difficult or challenging patients and can lead to the receipt of complaints, either at clinic, civil negligence or regulatory level. This workshop, led by three highly experienced experts, will outline case scenarios, describe lessons learned and offer strategies for complaints avoidance.

END OF DAY ONE

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08:00 Registration opens

SESSION C: DELIVERING CHIROPRACTIC CARE ACROSS THE LIFE COURSE

Session Chair: Cassandra Fairest BAppSc, President, New Zealand Chiropractic Association (New Zealand)

08:40 **Current Perspectives On The Chiropractic Care Of Infants** Hall 2

Genevieve Keating BAppSc (Chiro), PhD, DACNB (Australia)

Genevieve Keating has dedicated her career to understanding the healthy development of babies and children. Her PhD is in Early Childhood Development, and she is a fellow of the Australasian Institute of Chiropractic Education's Paediatric committee. She is in full-time family practice and teaches professional development seminars to chiropractors and associated health professionals. In this presentation, she will discuss an evidence based approach to the care of infants and children.

09:00 **Modern Approaches To The Non-Surgical Management Of Scoliosis** Hall 2

Jeb McAviney MAppSc (Chiro), MPainMed (Australia)

Jeb McAviney has a career long focus on the management of scoliosis in children and adults. A graduate of Macquarie University, he also holds a Masters in Pain Medicine from Newcastle University. He is an active member of the Spine Society of Australia and has published on the use of bracing for scoliosis in children. This lecture will examine the contemporary, conservative management of scoliosis.

09:20 **Musculoskeletal Considerations In Children And Adolescents** Hall 2

Lise Hestbaek DC, PhD (Denmark)

Lise Hestbaek is a full professor at the University of Southern Denmark and a senior researcher at the Danish Chiropractic Knowledge Hub. Her research has focused on musculoskeletal disorders in children and adolescents and she is an acknowledged international authority on back and joint pain in this age group. She will present the latest evidence describing the prevalence of musculoskeletal disorders in this special population and clinical considerations for chiropractors.

09:40 **Chiropractic And The Lifestyle Determinants Of Health** Hall 2

Peter McGlynn BAppSc, MPH, PhD (Australia)

Peter McGlynn is a chiropractor with a special interest in health promotion. Chair of the Australasian Institute of Chiropractic Education's Well-being and Lifestyle Committee and a Fellow of the Australasian Society of Lifestyle Medicine, he runs a multidisciplinary clinical practice offering chiropractic, psychology, nutrition, podiatry and other disciplines. In this presentation, Peter will describe how chiropractors can integrate lifestyle medicine and health promotion into their practices.

10:00 **Chiropractic In The Decade of Healthy Ageing** Hall 2

Katie de Luca BAppSc, PhD (Australia)

Katie de Luca is a senior lecturer at Central Queensland University. Her research interests focus on the epidemiology and management of musculoskeletal conditions, especially in older adults. In her lecture, she will describe why chiropractic is critical to health in older persons, how co-morbidities can impact on treatment consideration and why a focus on this special population can be rewarding and successful.

10:20 **Question & Answer Session** Hall 2

10:30 **REFRESHMENT BREAK, POSTER EXHIBITION AND VENDOR BOOTHS**

SESSION D: PATIENT SAFETY - THE STATE OF THE EVIDENCE

Session Chair: Rebekah Wilks DC, Strategy & Policy Lead, World Federation of Chiropractic (United States)

11:00 **What Does The Evidence Tell Us About Patient Safety?** Hall 2

Katherine Pohlman DC, MS, PhD (United States)

Katie Pohlman is the Director of Research at Parker University. Her research interests have focused on the safety and effectiveness of chiropractic care in special populations,

including individuals suffering from chronic pain, children and pre- and post-partum women. She serves as vice-chair of the WFC Research Committee. In her presentation, Katie will discuss safety considerations, reporting mechanisms and strategies to mitigate adverse events.

11:20 **What Do We Know About Adverse Events?** Hall 2

Sidney Rubinstein DC, PhD (Netherlands)

Sidney Rubinstein is the Chair of the WFC's Research Committee. He has a research interest in patient safety and clinical effectiveness and is the author of multiple publications. He has undertaken systematic reviews for both the World Health Organization and Cochrane Collaboration. In this presentation, Sidney will describe the best scientific evidence related to highly publicised adverse events involving chiropractors.

11:40 **Panel Discussion: What Does Clinical Risk Management Look Like For Chiropractors?** Hall 2

Martha Funabashi PT, PhD (Chair) (Canada)

Eric Chu BSc, MHA, DC, PhD (Hong Kong)

Mark Gurden MSc (Chiro), DC, PhD, FRCC (United Kingdom)

Henrik Wulff Christensen DC, MD (Denmark)

Stacie Salisbury RN, PhD (United States)

Patient safety and clinical risk management are important considerations in chiropractic practice. In this discussion, an international and multi-disciplinary panel of experts will consider areas of risk associated with chiropractic practice and discuss concepts relating to clinical risk management, covering assessment, treatment interventions, consent and communication.

12:30 **LUNCH, POSTER EXHIBITION AND VENDOR BOOTHS**

14:00 - 15:30

WORKSHOP TRACKS**C1: Research Platform Presentations**

Central Room B

*Chair: Alice Cade BAppSc, PhD (New Zealand)***Assessing Competency in Healthcare Learners and Professionals to inform the Chiropractic Profession; A Systematic Review and Thematic Analysis***Daniel Moore BSc (Hons), MChiro (United Kingdom)***Why Study Chiropractic? A Qualitative Analysis of Student Choices***Philip Dewhurst BSc (Hons), MChiro (United Kingdom)***Reducing Barriers to Conservative Spine Care Minimizing Opioid Exposure in an indigenous Community: A Global Spine Care initiative (GSCI) Implementation Project in Northern Manitoba, Canada***Steven Passmore DC, PhD (Canada)***Tshidilo: A Step towards Understanding Spine Care in Gaborone, Botswana***Mufudzi Chihambakwe MTechChiro (Botswana)***Stability of Prevalence and Patterns of Co-Occurring Musculoskeletal Pain Among People with Persistent Low Back Pain in the General Population: The Hunt Study, 1995-2019***Cecilie K. Øverås MSc (Chiro), MSc (Ultrasound), PhD (Norway)***Defining and Classifying Adverse Events Following Joint Manipulation and Mobilization: An international E-Delphi Study***Martha Funabashi BSc, MSc, PhD (Canada)***Characterization of Force-Time Characteristics of Prone Cervico-Thoracic Spinal Manipulative Therapy***Nicole Meaghan Smith BA (Canada)*

Correction of Atlanto-Occipital Joint Dysfunction Using the One to Zero (OTZ) Method Affects Cervical Proprioception: A Randomized Control Trial

Bernadette Murphy DC, PhD (Canada)

C2: Research Platform Presentations

Central Room C

Chair: Claire Johnson DC, MEd, PhD (United States)

Understanding the Sensory and Motor Effects of Spinal Manipulation: Exploring Technique and Regional Specificity

Carlos Gevers-Montoro DC (Spain)

Intrinsic Lumbar Spine Shape During a Dynamic Bend

Alister du Rose BSc (Hons), MChiro, DC, PhD (United Kingdom)

Pain-Related Single Nucleotide Polymorphisms: Association with Lumbar Spinal Stenosis Patient Experience and Non-Surgical Treatment Outcomes

Michael Schneider DC, PhD (United States)

Inside the Painful Mind: Exploring Long-Term Brain Alterations in Fibromyalgia

Paulo Gomes de Oliveira Neto BSc (Chiro) (Brazil)

Effect of A Clinically Versus Non-Clinically Relevant Site of High-Velocity, Low-Amplitude Vertebral Thrusts On Brain Activity in Adults with Subclinical Neck Pain: A Randomized Controlled Trial

Imran Khan Niazi MSc, PhD (New Zealand)

The Frequency and Presentation of Upper Thoracic Spinous Process Deviations, their Relationship to Articular Morphology, and the Potential influence On Static Palpation Techniques

Christopher Yelverton MTech (Chiro), PhD. (South Africa)

Chiropractors in Multidisciplinary Teams: Enablers of integration in General Practitioner-Led Primary Healthcare Settings

Florin Oprea MD, MPH, MBA, PhD (Australia)

The “Haptic Glove” for Training and Monitoring Sensorimotor Skills Development for the Delivery of Safe and Effective Spinal Adjustive Therapy

Dein Vindigni BAppSc (Chiro), BA (SocSc), MMedSc, PhD (Australia)

C3: Chiropractic Approaches To Women's Health And Well-being

Central Room A

Kristina Petrocco-Napuli DC, MS, FICC (United States)

Kristina Petrocco-Napuli serves as the Dean of the College of Chiropractic at Logan University. Women's health, particularly related to natural health care plans, has been her focus for more than two decades and she serves as the current president of the American Chiropractic Association's Council on Women's Health. This workshop will explore a range of women's health issues, technique modifications and ways in which chiropractors can play an active role in optimising women's health.

C4: Evidence-Based Management Of Intervertebral Disc Disorders

Hall 2

William E. Morgan BS, DC (United States)

William Morgan is the President of Parker University. During an illustrious career, he served as the chiropractor to the United States Capitol, treating members of the U.S. Congress and the Supreme Court. He was also chiropractic consultant to the White House and was on staff at Walter Reed National Military Center. In this workshop, William will describe best practices relating to the assessment, diagnosis and management of intervertebral disc disorders, appropriate use of diagnostic imaging, specific adjusting skills and emergency referral criteria.

15:30

REFRESHMENT BREAK, POSTER EXHIBITION AND VENDOR BOOTHS

16:00 - 17:30

WORKSHOP TRACKS**D1: Research Platform Presentations**

Central Room B

*Chair: Arantxa Ortega PhD (Spain)***Guideline Adherence and Socioeconomic Factors in Danish Patients Referred to Secondary Care for Low Back Pain: A Cross Sectional Study***Lise Hestbæk DC, PhD (Denmark)***A Scoping Review Developing an Initial Set of Quality indicators for Chiropractic Care***Robert Vining DC, DHSc (United States)***Motivators, Experiences, and Expectations of U.S. Military Veterans Receiving Chiropractic Care: A Nested Qualitative Study from A Pragmatic Trial for Low Back Pain***Stacie Salisbury RN, PhD (United States)***Biopsychosocial Factors as Mechanisms of the Effect of Chiropractic Care on Low Back Pain in US Active-Duty Military Members***Zacariah Shannon DC, MS, PhD (United States)***Surprising Megatrends in Chiropractic Research: Linguistic and Social Network Analysis of 60 Years of Chiropractic Research***Brian Budgell DC, PhD (Canada)***Rasch Analysis of the Chiropractic Case Management Risk Scale***Bruce Shotts MSc, DC (United States)***Dosing of Lumbar Spinal Manipulative Therapy and Its Association with Escalated Spine Care: A Cohort Study of insurance Claims***Brian Anderson DC, MPH, MS, PhD (United States)***Electronic Health Records for Predicting Outcomes to Work-Related Musculoskeletal Disorders: A Scoping Review***Melinda Wassell BAppSc, BChiroSc (Australia)***Insights into Physical Activity Promotion Among Australian Chiropractors: A Cross-Sectional Survey***Matt Fernandez BSpSc, MChiro, PhD (Australia)*

D2: Research Platform Presentations

Central Room C

Chair: Andreas Eklund MChiro, DC, PhD (Sweden)

Retrospective Analysis of Chiropractic Care in A Multidisciplinary Sports Healthcare Environment: A Descriptive Survey of Canadian National Team Athletes

Scott Howitt BA(Hons), MSc, DC (Canada)

Kickstarting G-CARE (Global Chiropractic Athletics Research and Education initiative); the Experiences of Chiropractors Working in Elite interdisciplinary Athletic Healthcare and Performance Management Settings

Mohsen Kazemi RN, DC, MSc, PhD (Canada)

Clinical Practice Guideline for Best Practice Management of Pediatric Patients by Chiropractors: Results of A Delphi Consensus Process

Genevieve Keating BAppSc (Chiro), PhD (Australia)

Young Patients and Chiropractors' Observation and Analysis Study (Young-COAST): A Feasibility Study

Melissa Neave BSc (Hons), MChiro, MRes (Australia)

The Association Between Bullying and Headache, Stomach-Ache, and Backache in Australian Schoolchildren

Nichole Phillips BAppSc-HB, MSc (Australia)

Factors That influence Scope of Practice of the Chiropractic Profession in Australia: A Reflexive Thematic Analysis

Desmond Wiggins BA, GradDip, MA, MAppSci, MPH, MRes (Australia)

Indicators to Monitor the Quality of Care for Low Back Pain in Australia: A Scoping Review

Bayden McKenzie BSc, BAppSc, MClinChiro, MPH (Australia)

Practice Characteristics of the New Zealand Chiropractic Profession: A 2022 Survey

Tanja Glucina BSc, BChiro, BHSc (Hons) (New Zealand)

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D3: How To Integrate Public Health Messaging In Chiropractic Clinical Practice

Central Room A

Claire Johnson DC, MEd, PhD (United States)

Kendrah da Silva MDipChiro (South Africa)

Dawn Dane DC, EdD (Australia)

Faye Deane MChiro, MPH, FRSPH (United Kingdom)

Yi Kai Wong BSc Chiro, MScPH (Malaysia)

As primary contact health care professionals, chiropractors are responsible for the provision of people-centered lifestyle and general health advice alongside their clinical care of patients. In this workshop, chiropractors will learn how to integrate public health messaging into clinical practice and to engage in their communities as public health advocates.

D4: Acute Concussion: Diagnosis and Chiropractic Management.

Hall 2

Joshua Sweeney DC, MS, DACNB (United States)

Joshua Sweeney is an associate professor and is the course director for clinical neurology and advanced clinical neurology at Parker University. He is a designated medical expert appointed by the Division of Worker's Compensation in state of Texas. In this workshop, he will introduce practical applications for the assessment and management of mild traumatic brain injury and acute concussion.

END OF DAY TWO

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08:00 Registration opens

SESSION E: ALL PEOPLE, ALL AGES, ALL NATIONS

Session Chair: Faye Deane MChiro, MPH, FRSPH, Teesside University (United Kingdom)

09:00 **Global Health Systems Strengthening In Musculoskeletal Health** Hall 2

Andrew Briggs PT, PhD (Australia)

Deborah Kopansky-Giles BPHE, DC, MSc (Canada)

Andrew Briggs' career has included senior roles in clinical practice, research and health policy and strategy. Since 2017, he has held a senior consultant role at the World Health Organization. He is also chair of the WHO Low Back Pain Guideline Committee and has held government positions in Western Australia. Deborah Kopansky-Giles holds positions at the Canadian Memorial Chiropractic College and in the Department of Family Medicine at St Michael's Hospital, Toronto. Both serve on the coordinating council of the Global Alliance for Musculoskeletal Health. This keynote presentation will describe the key findings of the global health strengthening paper in musculoskeletal health.

09:40 **Delivering People-Centred Care To Underserved Communities** Hall 2

Mufudzi Chihambakwe MTechChiro (Botswana)

Mufudzi Chihambakwe serves as the president of the African Chiropractic Federation. He is the clinic director of World Spine Care in Gaborone, Botswana. He is the co-founder of Spine Health Africa, an NGO working to provide care to underserved communities in Zimbabwe. With a focus on the social determinants of health, this presentation will describe his work and the global need for equitable access to chiropractic services.

10:10 **Chiropractic At The World Health Organization** Hall 2

Richard Brown DC, LL.M, FRCC (United Kingdom)

Richard Brown is the Secretary-General of the World Federation of Chiropractic, a non-state actor in official

relations with the World Health Organization (WHO). He is the designated focal point to WHO and represents the WFC at both WHO Executive Board meetings and World Health Assemblies. In this presentation, he will describe the areas of WHO with which WFC is involved, including the development of a new Benchmark for Training in Chiropractic.

10:30

REFRESHMENT BREAK, POSTER EXHIBITION AND VENDOR BOOTHS**SESSION F: ADVANCING KNOWLEDGE AND SCIENCE**

Session Chair: Steven Passmore DC, PhD, University of Manitoba (Canada)

11:00

Communicating With Clarity To Empower Patients And Colleagues

Hall 2

Lesley Haig Msc (PT), DPT (United Kingdom)

The evidence-based management of people with spine and joint conditions embraces a biopsychosocial model, where patient-centred values and preferences are taken into consideration in delivering care plans. This presentation will emphasise the value of patient and interprofessional communication, specifically motivational interviewing, to ensure engagement and optimal outcomes.

11:30

Seeing Healthcare Through Multiple Lenses

Hall 2

Dinesh Palipana LL.B, MD, OAM (Australia)

Dr Dinesh Palipana is an Australian doctor, lawyer, scientist and disability advocate. He was the first quadriplegic medical intern in Queensland, the second to graduate as a medical doctor and the first with a spinal cord injury. In this opening keynote address, Dinesh will describe how his own experience as a patient, disabled person and doctor have shaped his perspectives on the provision of people-centred health care.

12:00

WFC Research Awards 2023

Hall 2

Sidney Rubinstein DC, PhD (Netherlands)

This session will celebrate the prize-winning abstracts and papers of the scientific sessions of the congress, with the NCMIC Research Awards and IBCE Poster Awards being announced.

12:40 **Preview Of The 18th WFC Biennial Congress** Hall 2

Jointly presented by the WFC and Danish Chiropractic Association

The 18th WFC Biennial Congress will take place May 7-10, 2025 in Copenhagen, Denmark. This preview will showcase the venue, theme and preliminary programme.

12:50 **Closing Ceremony** Hall 2

13:00 **LUNCH, POSTER EXHIBITION AND VENDOR BOOTHS**

14:00 - 15:30 **WORKSHOP TRACKS**

E1: Technique Masterclass - Extremity Adjusting Protocols For The Upper And Lower Limbs Central Room A

Mark Charrette DC (United States)

One of the world's most popular chiropractic presenters, Mark Charrette has presented well over 2000 seminars worldwide. For over 3 decades, he has presented technique seminars on behalf of Foot Levelers in over 30 countries worldwide. In this workshop, he will deliver a technique masterclass on extremity adjusting.

E2: Operational Procedures For Ethical Business Success Hall 2

Eric Chu BSc, MHA, DC, PhD (Hong Kong)

Eric Chu is the founder of EC Healthcare, Hong Kong's largest provider of integrated health services. After partnering with Goldman Sachs, Eric has grown EC Healthcare to provide clinics at 25 locations, providing chiropractic, physiotherapy, health screening, rehabilitation, medical and pharmacy services. His business is listed on the Hang Seng stock exchange and he has partnered with numerous high profile companies, including Google and Prudential. This workshop will focus on the value of standard operating procedures, data collection and consistency in business practices when building a successful organisation.

15:30

REFRESHMENT BREAK

16:00 - 17:30

WORKSHOP TRACKS**F1: Technique Masterclass: Instrument-Assisted
Adjusting Protocols**

Central Room A

Ricardo Fujikawa MD, DC (Spain)

Ricardo Fujikawa is dual qualified both as a medical doctor and chiropractor. He has been involved in chiropractic education for over two decades, both in Latin America and Europe, and now heads up a Madrid-based research foundation, Fujitega Foundation. He retains a chiropractic practice and has extensive expertise in instrument-assisted spinal manipulation partnering with Activator Methods International to conduct research and deliver technique protocol instruction.

F2: Journeys In Research: An Interactive Session

Hall 2

Kenneth Young DC, MAppSc (Med Imaging), PhD (United Kingdom)
Martha Funabashi BSc, MSc, PhD (Canada)
Luana Nyirö MChiroMed (Switzerland)

Research is often described as the currency of the chiropractic profession and underpins a key component of evidence-based practice. There are now more PhD graduates within the chiropractic community than at any other time in the profession's history, with over 300 clinical trials listed as being in progress and the volume of publications in peer reviewed journals expanding year on year. In this workshop, Kenneth Young, a Senior Research Fellow at the University of Central Lancashire in the UK, examines the available pathways and challenges facing researchers, early career chiropractors and post-doctoral fellows.

END OF DAY THREE**END OF CONGRESS**



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The following posters have been selected for exhibition at the Congress and will be on display in Hall 1 for the duration of the event. Presenters will be in attendance during the Welcome Reception (October 11) and at refreshment and lunch breaks throughout the Congress.

The Characteristics of Women Attending Care in the Perinatal Period

Joel Alcantara DC (United States)

Harnessing Positive Contextual Effects in Daily Chiropractic Practice. A Conceptual Framework and Practical Implementation Guide.

Carlo Ammendolia BSc, DC, MSc, PhD (Canada)

Predictors of Pain Management Strategies in Adults with Low Back Pain

Brian Anderson DC, MS, MPH, PhD (United States)

Waste Not, Want Not: Squandered Efforts in Spinal Manipulative Therapy Research

Sasha Aspinall BSc (Chiro), BSc (Hons), PhD (Australia)

Factors That Influence Surgical Decision Making for Lumbar Spinal Stenosis: A Qualitative Study

Nora Bakaa BSc, MSc, DC (Canada)

Intra-Examiner Reliability and Validity of Sagittal Cervical Spine Mensuration Methods Using Deep Convolutional Neural Networks

Joe Betz BS, DC (United States)

Reliability of the Biomechanical Assessment of the Sagittal Lumbar Spine and Pelvis on Radiographs Used in Clinical Practice: A Systematic Review of the Literature

Joe Betz BS, DC (United States)

Treatment of A Patient with Cervicogenic and Craniocervical Related Tinnitus: A Case Report

Thomas Bloink DC (United States)

Global integrative Health: A Tale of 2 Philanthropies

Brian Budgell DC, PhD (Canada)

Development, Reliability, and Analysis of Baseline Computerized Eye Tracker Assessments Between Healthy, Short- and Long-Term Mild Traumatic Brain injured Populations

Alice Cade BSc (Chiro) MHSci, PhD (New Zealand)

Chiropractic intervention Improves Computerized Eye Tracker Assessment in Young Adults with Long-Term Mild Traumatic Brain injury

Alice Cade BSc (Chiro) MHSci, PhD (New Zealand)

A retrospective analysis of the incidence of severe adverse events

Eric Chu DC, MHA, PhD (Hong Kong)

The impact of a targeted education package on the knowledge, attitudes and utilisation of patient reported outcome measures amongst chiropractors in Australia

Natalie Clohesy PhD, BSc, BChiro (Australia)

The Scope of Chiropractic Pediatric Practice in Australia

Christina Cunliffe DC, PhD (United Kingdom)

Maintenance Chiropractic Care: Is Research Changing Professional Perceptions?

Christina Cunliffe DC, PhD (United Kingdom)

Is there An Association Between Diabetes and Spine Pain? An Updated Systematic Review with Meta-Analyses

Hannah Dale BSc, MChiro (Australia)

Do Chiropractic Clinical Placements Influence Where Chiropractic Students Gain Employment?

Andrew Dane BSc, BSc (Hons) MChiro, (Australia)

Strategies for Successfully Transitioning Mature Students to An Accredited Chiropractic University-Based Program

Dawn Dane BSc (Hons, MSc (Chiro), EdD (Australia)

**How UK Chiropractic Students Define their Profession:
Should We Listen to the Next Generation of Leaders Now?**

Philip Dewhurst BSc (Hons), MChiro (United Kingdom)

**A Mixed Methods Feasibility Study of a
Comorbidity-Adapted Exercise Program for Low BACK Pain
in Older Adults (COME-BACK)**

Kathryn Di BSc (Chiro), MClincChiro (Australia)

**Prevalence of Consultations Concerning Patients with
Headaches in Danish Chiropractic Practice**

Kristina Dissing MSc, PhD (Denmark)

**Management of Headaches in Danish Chiropractic
Practice**

Kristina Dissing MSc, PhD (Denmark)

**A Pilot Study to Update and Assess the Content Validity of
a Survey of Australasian Chiropractic Students On
Identity, Role, Setting, Future Practice, and Worldview**

Matthew Doyle BSc, BSc(Chiro), MChiro, MSc (Australia)

**What Are the Perceptions of Chiropractic Among Elite
Athlete Physiotherapists in the Netherlands?**

Alister du Rose BSc (Hons), MChiro, DC, PhD (United Kingdom)

**The association between chiropractic integration in an
Ontario community and prescription opioid use**

Peter Emary DC, PhD (Canada)

**Stage One of Deprive Scale Development: Piloting and
Launching Focus Groups to Explore Patient Value
formation and Care-Seeking Behaviors**

Mark Fillery BSc, MHS (Canada)

**Development of Chiropractic Practice Standards to
Provide a Benchmark for Normal Professional Practice in
the UK**

Rob Finch PhD (United Kingdom)

What Does Patient Safety Mean to You? A Qualitative Analysis of Survey Responses From 4 international Chiropractic Teaching Clinics: Safetynet Part 1

Martha Funabashi BSc, MSc, PhD (Canada)

The Effects of Running Gait Retraining in the Treatment of Lower Limb Overuse injuries: A Systematic Review

Adam Gavine B.HK, MChiro (Australia)

Instrument Construction and initial Validation: The Chiropractic Professional Identity Subtype Orientation Scale

Tanja Glucina BSc, BChiro, BHSc (Hons) (New Zealand)

Diagnostic Imaging in the Management of Older Adults with Low Back Pain: A Secondary Analysis from the Back Complaints in Elders, Chiropractic-Australia Study

Kristin Grace DC, DACBR (New Zealand)

Submission to the Australian Senate Inquiry into Concussion and Repeated Head Trauma in Contact Sports (Not a published paper)

Peter Gwozdecky BSc, DC, DipLaw (Australia)

A Novel Approach to the Management of Chronic Pain Using Heartspeak, An Emotional-Somatic Release Technique, in A Yoga Context

Anne Jensen MSc, MS, DC, DPhil (Australia)

A clinical crossover trial of the effect of manipulative therapy

Mohsen Kazemi RN, DC, MSc, PhD (Canada)

Lumbar Spine Coronal Balance Parameters as A Predictor of the Rehabilitation Management Outcomes in Patients with Radiculopathy Due to Lumbar Disc Herniation: A Multicenter Prospective Cohort Study

Deed Harrison DC (United States)

Translational and Rotational Postural Aberrations Are Related to Pulmonary Functions and Skill Related Physical Fitness Components in Collegiate Athletes

Deed Harrison DC (United States)

Chiropractic Care and Research Priorities for the Pediatric Population: A Cross-Sectional Survey of Quebec Chiropractors

Rebecca Hayes DC (Canada)

Exploring Connections Between Chiropractic Practice Settings, Patient Characteristics, and Professional Functions

Igor Himelfarb PhD, MBA (United States)

Gender Differences in Perception of Risk and Relationship Among Risk and Performance Frequencies of Chiropractic Tasks

Igor Himelfarb PhD, MBA (United States)

Challenges and Advantages of Online Teaching and Learning: A Reflective Overview

Matthew Holmes BAppSc, BCSc (Australia)

Post-concussion symptoms and disability in adults

Scott Howitt BA(Hons), MSc, DC (Canada)

Risk Factor for Low Back Pain in Taiwan Badminton College Players

Hung-Chun Huang BA, MS, DC (Taiwan)

The Knowledge Base of Concussion Amongst UK Chiropractors: A Cross-Sectional Study

Adrian Hunnisett BSc (Hons), MPhil, PhD (United Kingdom)

Commentary on the 2019 Safer Care Victoria review of chiropractic

Genevieve Keating BAppSc (Chiro), PhD (Australia)

Association Between Flat Foot and Low Back Pain Among Adults in Klang Valley, Malaysia

Sheng Hui Kioh BSc, MPH, PhD (Malaysia)

Factors Associated with Patients' Preference in Choosing their Chiropractor in Klang Valley, Malaysia

Sheng Hui Kioh BSc, MPH, PhD (Malaysia)

Conceptualizing Clinical Expertise in Evidence-Based Practice: A Narrative Literature Review

Deborah Kopansky-Giles BPHE, DC, MSc (Canada)

Prevalence of Sagittal Cervical Segmental instability in A Clinical Population Exposed to A Motor Vehicle Crash: A Retrospective Sampling of Consecutive Cases from A Single Private Practice Over 7 Years

Jason O Jaeger DC (United States)

Do Spinal Radiographs in Patients Receiving Chiropractic Care Change Patient Outcomes? A Pilot Randomized Controlled Trial

Hazel Jenkins BMedSci, MChiro, MAppSc, PhD (Australia)

How Does the Chiropractic Profession Approach and inform their Treatment of Musculoskeletal Conditions for Patients Living with Mental Health Conditions? A Scoping Review

Damien Johnson BSc (Chiro), BClinExPhys (Australia)

The Psychological Impact of the Pandemic on Primary Healthcare Providers: Perspectives from A Primary Care Clinic

Joe Lintz BS, MS, DHA (United States)

No Association Between Radiographic Findings and Response to Chiropractic Care in Older Adults with Back-Related Disability

Michele Maiers DC, MPH, PhD (United States)

Use of force Sensing Table Technology for Training Kinetic Skills in First-Trimester Chiropractic Students, A Preliminary Study

Christopher A. Malaya DC, PhD (United States)

Improvement of Trunk Muscle Endurance in Adolescents with Idiopathic Scoliosis Treated with Scolibrace and the Scolibalance Exercise Approach to Scoliosis

Jeb McAviney MChiro, MPain (Australia)

The Impact of Pregnancy on Women with Adolescent Idiopathic Scoliosis: A Scoping Review

Jeb McAviney MChiro, MPain (Australia)

The Use of Superficial Heat in Low Back Pain Management by Chiropractors and Osteopaths in Australia: A Cross-Sectional Survey

Peter McCann BSc, MSc (Australia)

A Multimodal Chiropractic Approach to the Treatment and Management of Medial Elbow injuries in Amateur/Elite Javelin Throwers: A Case Series

Angus McEntyre MChiro, BChirSc (Australia)

The environmental impact of health care for musculoskeletal conditions

Bayden McKenzie BSc, BAppSc, MClinChiro, MPH (Australia)

Development of A Practice-Based Research Network: The Collaborative Research UK Network for Chiropractic (Crunch)

Amy Miller MSc, PhD (United Kingdom)

Implementing An External Student Placement Strategy into An Undergraduate Chiropractic Curriculum in the United Kingdom: An Education Descriptive Report

Daniel Moore BSc (Hons), MChiro (United Kingdom)

The Effect of the One to Zero (OTZ) Method on Motor Control of the Neck and Limbs: A Randomized Control Trial

Bernadette Murphy DC, PhD (Canada)

Comparative Study on the Perception and Practices of Chiropractic Among Healthcare Professionals and Non-Healthcare Professionals

Paulo Gomes de Oliveira Neto BSc (Chiro) (Brazil)

Unlocking the Healing Potential: Chiropractic Care's Impact on Brain Activity, Immune Function, and Quality of Life in Chronic Low Back Pain

Imran Khan Niazi MSc, PhD (New Zealand)

Patient Satisfaction with Clinical Services Provided by Chiropractic Students Under Supervision Compared to Licensed Chiropractors: A Natural Comparative Study

Casper Nim MSc, PhD (Denmark)

Variability, Repeatability, and Variation of Spinal Manipulative Therapy forces in Thoracic Spinal Manipulation on A Manikin

Luana Nyirö DCM, BMed, MChiroMed (Switzerland) (Switzerland)

Are Rotations and Translations of Head Posture Related to the Biomechanical Parameters involved in Three Different Dynamic Tasks?

Paul Oakley DC, MSc (Canada)

Prevalence of shoulder problems in youth swimmers in Ontario

Taylor Ostrander BSc, DC (Canada)

Bullying and Back Pain in Young People: A Systematic Review and Meta-Analysis

Nichole Phillips (Australia)

The Clinical Course of Spinal Pain in Adolescents: A Feasibility Study in Canada and the United States of America

Katherine Pohlman DC, MS, PhD (United States)

**Conducting Research at Chiropractic Teaching Clinics:
Challenges Identified**

Katie Pohlman DC, MS, PhD (United States)

**Using Field Notes to Support interprofessional Clinical
Competency Assessment of Family Medicine Resident
Physicians**

Pegah Rahbar BSc (Hons), DC (Canada)

**Pain Trajectories in Older Adults with Low Back Pain: A
Latent Class Analysis**

Sidney Rubinstein DC, PhD (Netherlands)

**Exploring the Course and Characteristics of Older Adults
with Low Back Pain: An Observational Analysis of the
BACE-C Cohort Study**

Sidney Rubinstein DC, PhD (Netherlands)

**Who Are the Key Actors in Patient Safety: A Safety Net
Stakeholder Analysis From 4 international Chiropractic
Teaching Clinics**

Stacie Salisbury RN, PhD (United States)

**Prevalence of Neck Pain/Disability in A Mild Traumatic
Brain injury, Concussion: An Observational Study**

Michael Schneider DC, MS, PhD (United States)

**Change in Low Back Pain intensity and interference As
Mechanisms of the Effect of Chiropractic Care on
Biopsychosocial Factors for Us Active-Duty Military
Members**

Zacariah Shannon DC, MS, PhD (United States)

**Post-Surgical Rehabilitation of a Semi Elite Soccer Player
Utilizing a Biomechanical and Neurocognitive Approach
by A Sports Chiropractor: A Case Report**

Natalie Sharp BChiroSc, MChiro (Australia)

**The Clinical Course of Spinal Pain in Adolescents: A
Feasibility Study in Australia**

Michael Swain PhD MPhil MChiroprac (Australia)

Cervicogenic Migraine and Chiropractic Care

Peter Tuchin BSc, GradDipChiro, PhD (Australia)

Chiropractic and Manual Therapy Research with indigenous Peoples on Turtle Island (North America): Findings from A Scoping Review Using a Critical Participatory Decolonizing Methodology

Jennifer Ward DC, MSc (Canada)

The Importance of Chiropractic EHR Data for Predicting Outcomes to Work-Related Musculoskeletal Disorders

Melinda Wassell BAppSc, BChiroSc (Australia)

Cross-Cultural Adaptation and Validation of the Traditional Chinese Version of Optimal Screening for Prediction of Referral and Outcome Yellow Flag Assessment tool

Arnold Wong BSc (Hons), MPhil, PhD, PT (Hong Kong)

The Association Between Time Management and Perceived Stress Among the international Medical University Pre-Clinical Chiropractic Students

Yi Kai Wong BSc (Chiro), MScPH (Malaysia)

Chiropractic Attitude and Utilization of Evidence-Based Practice in South Africa

Christopher Yelverton MTech (Chiro), PhD. (South Africa)

Systematic Review to inform A World Health Organization Clinical Practice Guideline: Benefits and Harms of Needling Therapies for Chronic Primary Low Back Pain in Adults

Hainan Yu MBBS, MSc (Canada)



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SCIENTIFIC ABSTRACT PEER REVIEW PANEL

The Congress organizers wish to acknowledge and thank the following individuals who collectively comprised the 2023 WFC Biennial Congress peer review panel

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Kara Burnham, PhD	University of Western States, USA
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Brian Davis, DC, BA	Gainesville VA Medical Center, USA
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Tanja Glucina, BSc(Chiro), BSc(Psych)	New Zealand College of Chiropractic, New Zealand
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Bart Green, DC, MEd, PhD	National University of Health Sciences, USA
Brett Guist, DC, BHSc, MS	Canadian Memorial Chiropractic College, Canada
Billie Harrington, PhD	Sherman College of Chiropractic, USA
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Emile Marineau, DC, MS	Université du Québec à Trois-Rivières, Canada
Hiwot Melka , DC, BS	Southern California University of Health Sciences USA
Kevin Meyer, DC, BS	VA Puget Sound, USA
Jani Mikkonen , DC, BSc(Hons)	University of Eastern Finland, Finland
Amy Miller , BSc, MSc(Chiro), PhD	AECC University College, UK
Daniel Moore, BSc(Hons), MChiro	Teesside University, UK
Bernadette Murphy, DC, PhD	Ontario Tech University, Canada
Casper Nim, MSc, PhD	University Hospital of Southern Denmark, Denmark
Tolu Oyelowo, DC, MS, PhD	Northwestern Health Sciences University, USA
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Morgan Price, DC	VA Puget Sound, USA
Mohsen Radpasand, DC, MD, MS	Private Practice, USA
Lindsay Rae, DC, BA	VA Finger Lakes Healthcare System, USA
Katherine Reckelhoff, DC, BA, BA, BS, MHPE	Cleveland University, USA
Alister du Rose, DC, PhD	AECC University College, UK
Robert Rowell, DC, MS	Palmer College of Chiropractic, Davenport, USA
Gregory Roytman, DC, BS	Yale School of Medicine, USA
Robb Russell, DC, BA	Southern California University of Health Sciences USA

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Michael Schneider, DC, PhD	University of Pittsburgh, USA
Samuel Schut, DC	Palmer College of Chiropractic, Davenport, USA
Margaret Sels, DC, BS	Veterans Administration, USA
Mayda Serrano, DC, MEd	Universidad Central del Caribe, Puerto Rico, USA
Zacariah Shannon, DC, MS, PhD	Palmer College of Chiropractic, Davenport, USA
Monica Smith, DC, BSc, PhD	Life Chiropractic College West, USA
Christopher Smoley, DC, BS	Northwestern Health Sciences University, USA
Gregory Snow, DC, BA	Palmer College of Chiropractic West, USA
John Stites, DC, BA	Palmer College of Chiropractic, Davenport, USA
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