



The Healthcare Evolution

ACCRCAC 2024 30th Annual Educational & Research Agenda Conference
March 21 – 23, 2024 Sheraton Hotel and Marina, San Diego CA

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ASSOCIATION OF
CHIROPRACTIC
COLLEGES



The purpose of this document is to provide the scientific platform and poster presenters the preliminary schedule for the conference so they may plan their travel. This preliminary schedule includes the order of presentations and moderator information. Note that there are 3 parallel platform sessions running at the same time.

Scientific Sessions- Platform and Poster Presenters Program (as of 1-9-2024)

Thursday, March 21, 2024			
12:00- 5:00	Poster Presentation Set Up – Silver Pearl Ballroom		
5:30- 7:00	Welcome Reception – Silver Pearl Ballroom		
Friday, March 22, 2024			
8:30-10:00	Plenary Presentations - Pacific Jewel Ballroom		
10:00-10:30	Break		
10:30-12:00	Breakout sessions		
12:00-1:30	Lunch – Pacific Jewel		
1:30-3:30	Scientific Platforms Evolving Chiropractic Education and Research Coral 1-2	Scientific Platforms Exploring the Science of Chiropractic Coral 3	Scientific Platforms Public Health and the Future of Chiropractic Workforce Coral 4
3:30-4:00	Break		
4:00-6:00	Scientific Platforms Evolution of Education and the Chiropractic Work Environment Coral 1-2	Scientific Platforms Chiropractic Public Health and Clinical Applications Coral 3	Scientific Platforms The Changing Chiropractic Healthcare Landscape Coral 4
6:00-7:30	Poster Presentations and Reception Poster presenters – be at your posters		
Saturday, March 23, 2024			
8:00-10:00	Plenary Presentations (2)		
10:00-10:30	Poster Presentations Poster presenters – be at your posters (take down when this session is done)		
10:30-12:00	Breakout sessions		
12:00-1:30	Lunch – Pacific Jewel Ballroom Research Awards		
1:30-3:30	Scientific Platforms Chiropractic Applications, Assessment, and Education Coral 1-2	Scientific Platforms Evolution of Chiropractic and Spine Care Coral 3	Scientific Platforms Improving Patient Care: Insights from Clinical Case Reports Coral 4
3:30-4:00	Break		
4:00-5:00	Closing Plenary		
6:00-8:30	Reception and Gala Dinner - Pacific Jewell Ballroom		

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Friday, March 22, 2024 1:30-3:30 Scientific Platforms A Coral 1-2

Evolving Chiropractic Education and Research

As demand for chiropractic research and evidence grows, chiropractors must be prepared to address these demands. This session will consider knowledge and skills necessary for chiropractic practice and research. This session will review current and new concepts related to evidence-based practices focusing on chiropractic skills and contribution to new knowledge.



Moderator
Stuart Kinsinger
Center for Personalized
Education for Physicians



Moderator
Brett Guist
Canadian Memorial Chiropractic
College

Research Presentations:

- **Examination of chiropractic students' force and speed in delivery of chiropractic adjustments** *Mara Trowbridge, Finnley Parsons, Krista Ward, Monica Smith*
- **Comparison of force-time characteristics of prone cervico-thoracic spinal manipulative therapy between chiropractic interns and experienced chiropractors** *Francois Perron, Martha Funabashi, Jean-Luc Gauthier, Isabelle Pagé*
- **Correlation between chiropractic manipulative therapy class cumulative grade point average and clinic spinal manipulation exit exam grade** *Michael Sheppard, John Ward*
- **A qualitative study investigating the challenges and opportunities for building research capacity in sports-focused research in the chiropractic profession** *Alexander Lee, Lara deGraauw, Ali Masoumi, Bradley Muir, Melissa Belchos, Kaitlyn Szabo, Christopher deGraauw, Scott Howitt*
- **Research capacity and culture at the Canadian Memorial Chiropractic College: A mixed methods study** *Carol Ann Weis, Diane Grondin, Danielle Southerst, Sam Howarth, Mark Fillery, Christine Bradaric-Baus, Janet D'Arcy, Silvano Mior*
- **The relationship between satisfaction of work-related needs and forms of motivation for the pursuit of scholarly activity in chiropractic faculty** *Christine Major, Melinda Novak, Sarah Visconti, Kathryn Ross, Kara Burnham*
- **Development of a faculty-driven mixed methods exploratory study of a collegiate research climate** *Kevin Percuoco, Alex Margrave, Patrik Schneider, Breanne Wells, Michael VanNatta, Kara Shannon, Meredith Meyers, Amberly Ferguson, John Crouse, Kira Baca, Brian Anderson, Dustin Derby, Lia Nightingale, Stacie A. Salisbury*

3:30-4:00 Break



Friday, March 22, 2024 1:30-3:30 Scientific Platforms B Coral 3

Exploring the Science of Chiropractic

Chiropractic knowledge of basic science principles continues to grow with new research studies. Understanding how the neuromusculoskeletal system functions helps chiropractors improve their practices and apply these principles to patient care. This session will consider current clinical, physiological, and biomechanical research and relate these findings to how we can better understand patient function and dysfunction.



Moderator
 Ilija Arar
 Northeast College of Health
 Sciences



Moderator
 Bart Green
Journal of Chiropractic Education

Research Presentations:

- **Motor performance of participants with chronic neck pain and asymptomatic participants pre- and post-spinal manipulation using separate eye and head movement fitts tasks** *Geoffrey Gelley, Steven Passmore, Brian MacNeil*
- **Measuring adjustment forces: Applied compared to transmitted loads** *Brent Russell, Edward Owens, Lydia Dever, Ronald Hosek, Kevin Tran*
- **Neural connectivity alterations in people with chronic low back pain receiving chiropractic care** *Usman Ghani, Imran Khan Niazi, Nitika Kumari, Imran Amjad, Samran Navid, Kelly Holt, Moez Ashfaque, Amit Pujari, Ernest Kamavuako, Heidi Haavik*
- **The impact of chronic neck pain on oculomotor performance during near point convergence and Fitts tasks** *Steven Passmore, Michayla Esteves*
- **Comparing balance and kinematic effects of standard athletic taping of the ankle during jumping activities** *Shari Wynd, Rachiel Torrence, Todd Riddle, John Ward*
- **Spinal manipulation effect on standing balance on a force plate of individuals with neck and low back pain** *John Ward, Jesse Coats, Carol Longo*
- **In-vivo ultrasound measurement of spinous process separation during axial distraction** *Maruti Ram Gudavalli, Ralph Kruse, Bret A. White, Stacey L. Rider*
- **Exploring the acute effects of spinal manipulation on handgrip strength and reaction time relative to anxiety and neck pain level** *John Ward, Carol Longo*

3:30-4:00 Break

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Friday, March 22, 2024 1:30-3:30 Scientific Platforms C Coral 4

Public Health and the Future Chiropractic Workforce

The world population continues to grow, and chiropractors must be prepared for these global changes. This session will consider presentations about the preparation of chiropractors for current and future challenges in healthcare. We will review current and new concepts related to evidence-based practices within special populations as it relates to chiropractic practice.



Moderator
Martha Kaeser
University of Western States



Moderator
Jonathan Egan
Southern California University of
Health Sciences

Research Presentations:

- **Racial and ethnic representation among complementary and integrative health graduates** *Margaret Whitley, Nipher Malika, Patricia Herman, Ian Coulter, Margaret Chesney, Michele Maiers, Emma Bianculli*
- **The lived experience of pregnant women under chiropractic care** *Joel Alcantara, Elizabeth Emmanuel, Sandra Grace, Stephen Myers*
- **Women's health and chiropractic: Educational audit and development of core competencies** *Carol Ann Weis, Danica Brousseau, Chantal Doucet, Cecilia Bergström, Barbara Drake-Land, Deborah Kopansky-Giles, Nichelle Gurule, Francesca Wuytack, Katherine A. Pohlman*
- **The 4Ms of age-friendly healthcare system: A qualitative study of what matters most to chiropractic students** *Lisa Killinger, Stacie Salisbury, Judy Bhatti, Elissa Twist*
- **Evaluating the effectiveness of team-based chiropractic applied clinical neuroscience care on self-reported depression and cognition for medication-resistant depression: A pilot study** *Stephanie Sullivan, Michael Longyear, Dominic Fetterly, Emily Drake, Mitchell Ferguson, Dylan Saulsbery*
- **The relationship between stress scores, a single-session of chiropractic care, and electroencephalography patterns** *Courtney Bliese, Emily Drake, Margaret Sliwka, Stephanie Sullivan*
- **Effectiveness of a peer mind body medicine training program on faculty stress responses** *Suzanne Lady, Katie Lockwood, Kara Burnham, Chad Lambert, Christine Major*
- **The effects of study time, sleep duration, perception of course difficulty, and grade satisfaction on final exam scores** *Niu Zhang, Xiaohua He*

3:30-4:00 Break



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Friday, March 22, 2024 4:00-6:00 Scientific Platforms D Coral 1-2

Evolution of Education and the Chiropractic Work Environment

The work environment for chiropractic care continues to evolve and chiropractors must be prepared to address these demands. This session will consider presentations about the preparation of chiropractors for current healthcare environments. This session will review current and new concepts related to evidence-based practices focusing on chiropractic education and integration.



Moderator
John Mrozek
Texas Chiropractic College



Moderator
Beth Heim
Northwestern University of Health
Sciences

Research Presentations:

- **Examination of student and curricular time requirements for faculty** *Kristy Carbonelli-Cloutier, Mehrsa Harati, Dana Hollandsworth, Chris Malaya*
- **Chiropractic student perceptions of rehabilitation knowledge and skill level improve after incorporation a video-based group learning activity in an advanced rehabilitation course** *James Strange, Cortney Williams, Christine Major*
- **The impact of class attendance on both individual and collective exam performances** *Xiaohua He*
- **Improving patient safety in the chiropractic teaching clinic setting: A qualitative analysis of stakeholder suggestions** *Bryan Porter, Alex Lee, Cameron Borody, Eric St-Onge, Martha Funabashi*
- **Complexity of veterans within a Veterans Affairs chiropractic clerkship using the Charlson co-morbidity index** *Michael R. Cole II, Charles Penza*
- **Chiropractic student attributes and perspectives about their future** *John Ward, Osiel Pena*
- **Hospital-based chiropractors and interdisciplinary care training: An education descriptive report** *Katie Benson, William Foshee, Jason Moss, Keilah Brown, Joseph Chung, Brandon Meseberg, Breanna Leach, Chelsea Frank, Jeff Miller, Adam Wilkerson, Eric Daniel*
- **Applying universal design for learning to health care education** *Michael Cioffi*

6:00-7:30 Posters and Reception – Silver Pearl Ballroom See below for poster presentations

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Friday, March 22, 2024 4:00-6:00 Scientific Platforms E Coral 3

Chiropractic Public Health and Clinical Applications

Chiropractic care brings value to patient care and population health. Chiropractors practicing within the healthcare system must be aware of evidence-based health care principles and practices. This session will discuss new findings and recent studies of chiropractic care in integrated and whole health settings and will focus on how chiropractors can improve patient care.



Moderator
Stephanie Sullivan
Life University



Moderator
Mehrsa Harati
Parker University

Research Presentations:

- **Cost-effectiveness of spinal manipulation for back or neck pain** *Brent Leininger, Gert Bronfort, Roni Evans, James Hodges, Eva Enns, Karen Kuntz*
- **Association between pregnancy and spontaneous cervical artery dissection: A propensity-matched retrospective cohort study** *Robert Trager, Clinton Daniels, Zachary Scott, Regina Marie Casselberry, Jamie Perez*
- **Healthcare provider perspectives of integrating a comprehensive spine care model in an academic health system: A cross-sectional survey** *Wren Burton, Stacie Salsbury, Christine Goertz*
- **Trends in utilization of non-pharmacological pain therapies under Medicare** *James Whedon, George Zakhary*
- **Forecasting the use of chiropractic services within the Veterans Health Administration** *Victoria Bensele, Kelsey Corcoran, Anthony Lisi*
- **Mapping chiropractic services within us federally qualified health centers** *Holli Kells, Charles Sawyer, Andrea Albertson, Michele Maiers*
- **What are the wider health benefits of chiropractic care** *David Wilmott, Christina Cunliffe, Adrian Hunnisett*
- **Prevalence of neck pain and disability in mild traumatic brain injury (concussion)** *Jeff King, Mike Schneider, Minnie Sundaram, Greg Kawchuk, Charity Patterson, Anthony Kontos*

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Friday, March 22, 2024 4:00-6:00 Scientific Platforms F Coral 4

The Changing Chiropractic Healthcare Landscape

Chiropractors must be prepared to help a wide variety of people and be prepared to evolve as new technologies are available. This session will discuss the responsibilities that chiropractors must carry as well as new trends for chiropractic in healthcare delivery.



Moderator
Krista Ward
Life Chiropractic College West



Moderator
Anne Venderley
University of Western States

Research Presentations:

- **The use and misuse of a health care professionals' power: A study of 32 professional misconduct cases** *F. Stuart Kinsinger*
- **Evolving healthcare education to address whole health leadership** *Jonathon Egan, Winmar Way, Michael Ramcharan*
- **Reviewing prior imaging in a chiropractic radiology practice: Influences on recommendations for additional diagnostic testing** *Emma Forlow, Ian McLean, Kira Baca, Robert Vining*
- **Chiropractic consultation requests from a neurosurgery service in a 1A Veterans Affairs health care system** *Robert Walsh, Alec Schielke, Ellen Chevillet*
- **Describing congruence between CPT codes and medical record text in Veterans Health Administration chiropractic notes** *Samuel M. Schut, Sarah E. Graham, Anna R. Sites, Brian C. Coleman, Anthony J. Lisi*
- **Use of chiropractic care in Alberta: Evidence for the restoration of diagnostic imaging funding** *Cecilia Bloxom, Natalie Carrington, Kelly Fleck*
- **Utilization rates by referral pathway and managed care profile in a multi-state, hospital-based chiropractic organization** *William Foshee, Jason Moss*
- **Identifying documentation of patient reported outcome measures in Veterans Health Administration chiropractic care using rule-based natural language processing** *Brian Coleman, Kelsey Corcoran, Anthony Lisi, Cynthia Brandt*

6:00-7:30 Posters and Reception – Silver Pearl Ballroom See below for poster presentations

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Saturday, March 23, 2024 1:30-3:30 Scientific Platforms G Coral 1-2

Chiropractic Applications, Assessment, and Education

Chiropractic care had been challenged to rise to its potential during the recent COVID-19 pandemic. Chiropractic can add value to integrated healthcare settings and can expand on the value of patient care. This session will discuss the interface of chiropractic and the pandemic and will consider the quality of chiropractic assessment.



Moderator
Celia Maguire
Parker University



Moderator
Hiwot Melka
Southern California University of
Health Sciences

Research Presentations:

- **Effect of suspension of chiropractic treatment during the COVID-19 mandated shutdown on patients' reported symptoms and function: A retrospective case study** *Igor Steiman, Silvano Mior, Chadwick Chung, Lauren Ead, Dan Wang*
- **Quality of life in chiropractic students pre- and post-COVID-19 lockdowns utilizing the short-form health survey-36** *Alice Cade, Kirk Stevens, Elly Whittaker, Reid Midanik*
- **Experiential learning: Evolution and pandemic changes** *Scott Dunham, David Starmer*
- **The psychological impact of the pandemic on primary healthcare providers: Perspectives from a primary care clinic** *Joe Lintz*
- **Public health emergencies: Addressing the mobilization of complementary and integrative and allied health professionals** *Cynthia Chapman, Ian Coulter, Patricia Herman*
- **Analyzing the implications of employing global scoring in chiropractic license examinations** *Igor Himelfarb, Nai-En Tang, Bruce L. Shotts*
- **Assessing the impact of an early program intervention on student board examination performance** *Jon Wilson, Joni Johnson, Emily Ford*
- **Correlation between student performance in NBCE-Part I and the innovative curriculum in the doctoral chiropractic program from Universidad Central del Caribe in Puerto Rico** *Kimberleve Rolón-Reyes, Yomarie Rivera-Román, Janisse Salas-Luciano*

3:30-4:00 Break

4:00-5:00 Closing Plenary



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Saturday, March 23, 2024 1:30-3:30 Scientific Platforms H Coral 3

Evolution of Chiropractic and Spine Care

The fundamental impact of chiropractic care on spine outcomes for patients continues to evolve. Because our knowledge and skills continue to grow, chiropractors practicing within the healthcare system should be fluent in current evidence. This session will discuss new findings and recent studies of chiropractic care in integrated and whole health settings and will focus on how chiropractors may best improve patient care.



Moderator
Ilija Arar
Northeast College of Health
Sciences



Moderator
Bart Green
Journal of Chiropractic Education

Research Presentations:

- **Assessing treatments delivered by Veterans Affairs chiropractors in a multi-site pragmatic trial on patients with chronic low back pain** *Ryan Muller, Cynthia Long, Kei-Hoi Cheung, Harini Bathulapalli, Christine Goertz, Anthony Lisi*
- **The effectiveness of clinic versus home-based, artificial intelligence-guided therapy in patients with low back pain: A non-randomized clinical trial** *Benjamin Holmes, Kenan Alzouhayli, Nathan Schilaty, Takashi Nagai, Luca Rigamonti, April McPherson, Nathaniel Bates*
- **The prevalence of axial spondyloarthritis in patients treated for chronic back pain in chiropractic clinics: The Oregon chiropractic axial spondyloarthritis study** *Shireesh Bhalerao, Cydney Keller, David Perham, David Panzer, Kim Phung Nguyen, Rosy Quinn, William Malatestinic, Rebecca Bolce, Theresa Hunter, Atul Deodhar*
- **Neck disability index scores at 3 and 12-month follow-up for treatment of post-surgical cervical symptoms utilizing flexion distraction chiropractic manipulation: A case series** *Ralph Kruse, Maruti Gudavalli, Jason Klamson*
- **The use of rehabilitation exercises in conjunction with chiropractic care for neck pain** *Hay Yeung Cheng, Christina Cunliffe, Adrian Hunnisett*
- **The impact of what matters most: Activity goal setting on pain and disability ratings of older veterans receiving chiropractic care for chronic low back pain** *Casey J Rogers, Lisa Zubkoff, Katharina Echt, Madeleine E Hackney*
- **Clinical correlates of pressure pain thresholds in 98 patients with uncomplicated low back and leg pain: A retrospective consecutive case series** *Robert Leach, Kate Hayes, Stephanie Sullivan*

3:30-4:00 Break

4:00-5:00 Closing Plenary

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Saturday, March 23, 2024 1:30-3:30 Scientific Platforms I Coral 4

Improving Patient Care: Insights from Clinical Case Reports

Chiropractors must be prepared for a wide variety of patient presentations and must be knowledgeable about unusual signs and symptoms that may underly a serious or life-threatening conditions. In this grand round-style session, we will discuss how chiropractors identify uncommon or complicated patient cases and discuss what to do in these clinical situations. We will review cases and discuss the outcomes of chiropractic care.



Moderator
Brittney Walters
VA Western New York
Healthcare System



Moderator
Weston Holzinger
Logan University



Moderator
Claire Johnson
Brighthall,
ACCRCAC Peer
Review Chair

Research Presentations:

- **Spinal ependymoma presenting as subtle neurological findings in a Veterans Administration chiropractic clinic: A case report in differential diagnosis and appropriate use of diagnostic imaging**
Olivia Poppen, Alyssa Troutner, Christopher Farrell, Lindsay Rae
- **Chiropractic triage at primary care for degenerative cervical myelopathy: A case report**
Derrick Bark, Jevinne Khan, Patrick Battaglia
- **Chiropractic care for a posterior tibialis tendon rupture in transgender male athlete: A case report**
Faith Truthan, Noah Hass, Aidan O'Brien, Daniel Haun, Norman Kettner
- **Non-surgical management of post vasectomy pain syndrome: A case study involving chiropractic care**
Antonio Figueroa, Jr., Nathan Hinkeldey, Heather Meeks, Mandy Wong, Jeffrey Remsburg
- **Treatment of chronic myofascial pain following schwannoma resection: A case report**
Jeffrey Remsburg, Heather Meeks, Mandy Wong, Nathan Hinkeldey
- **Bilateral leg pain in a high school soccer player: A case report**
Jose Balseca, Amanda Balseca
- **Extensive isolated paraspinal atrophy: A case report and literature review**
Hang Nguyen, Sherman Rhee
- **Integrated chiropractic-medical management of neurogenic bowel syndrome in a syringomyelia case in India: A case study**
Tanmay Shinde, Charles Henderson, Monica Smith
- **Radial nerve schwannoma diagnosed with point of care ultrasound at a chiropractic school outpatient clinic: A case report**
David D. Crespo-Rivera, Jake Halverson, Mayda Serrano-Alvida
- **A case of kidney injury secondary to a drug-drug interaction presenting as low back pain: A case report**
Nicolas M. Littzi, Amy Kowalczyk
- **Management of foot drop with instrument assisted soft tissue manipulation: A case report**
Nathan Hinkeldey, Chloe Goodwin, Aaron Meyer, Heather Meeks, Jeffrey Remsburg, Mandy Wong
- **Chiropractic as complementary care for patients with multiple sclerosis: A case report**
Maria Elena Garcia-Carballo, Maria Eugenia Dueño Berrios, Mayda Serrano Alvira

3:30-4:00 Break

4:00-5:00 Closing Plenary



POSTER ABSTRACTS

Friday, March 22, 2024 posters must be on posterboards by 12 noon

Friday, March 22, 2024 Poster session and RECEPTION 6:00 to 7:30 pm

Saturday, March 23, 2024 Poster session 10:00 to 10:30am (take down poster at end of Saturday session)



Posters are listed alphabetical by first author last name. At the conference, posters will be assigned boards.

An exploration of the relationship between quality of life and associated factors in women attending care in a chiropractic practice-based research network

Joel Alcantara, Andrew Whetten, Elizabeth Emmanuel, Sandra Grace, Stephen Myers

A 5 ½ month old female treated for plagiocephaly/brachycephaly with Sacro Occipital Technique cranial protocols: A case report

Olga Alvarez

Effects of chiropractic care on sputum and hair cortisol levels in children with subclinical spinal pain: A randomized controlled trial

Imran Amjad, Imran Khan Niazi, Nitika Kumari, Usman Rashid, Usman Ghani, Kelly Holt, Heidi Haavik

Paraffin bath therapy for de Quervain's tenosynovitis and arthritis after failed injection therapy: A case report

Isabehl Ascher

Management of atypical lumbar radicular pain only provoked with neck rotation movements in a Veteran: A case report

Shery Assal, Acker, M. Tyler

Chiropractic management of a 38-year-old male veteran with acute low back pain presenting to the emergency department: A case report

Annie Babikian, Robert Walsh, Alec Schielke

Developing and validating scales phase 1: Radiographic visual perception test

Michele Bahadoor

A quality improvement project to develop and implement a comprehensive chart review and communication tool for Veteran Affairs chiropractic trainees

Tyler Barton, Alex Pham, Clinton Daniels

Morphometric and non-morphometric evaluation in a pathology skull collection: A pilot study

Megan Beveridge, Emily Speer, Katie Manley-Buser, Judy Bhatti, Roger Hynes, Steve Duray

Chiropractic and dental integrative care for 52-year-old male stroke victim suffering from chronic temporomandibular joint dysfunction: A case report

Thomas Bloink, Charles Blum

Treatment of a grade III anterolisthesis of a 28-year-old female: A case report

Charles Blum

A scoping review of cervical mechanical traction protocols, effectiveness and use in virtual care

Frank M Bucki, Clarice Wallert, Jessica Tom

Clinical manifestation of peripheral neuropathy with elevated vitamin B12: A case report

Gina Budjak, Victora Bowe-Fisher, Christopher Arick, Eric Kirk

The impact of neck pain on gait health: A systematic review and meta-analysis

Wren Burton, Yan Ma, Brad Manor, Jeffrey Hausdorff, Matthew Kowalski, Paul Bain, Peter Wayne

Chiropractic clinical registries: A scoping review

Joel Carmichael, Kent Stuber, Katherine Pohlman, Amy Ferguson, Michele Maiers

Scapular pain in cervical radiculopathy: A scoping review

Joel Carmichael, Kenneth Weber II, Sidney Rubinstein, Ellie Svoboda, Michael Bade,

Access to chiropractic services and spinal manipulation for Medicaid patients: A critical analysis

Cynthia Chapman

Chiropractic students' perception of readiness for clinical practice following a Veterans Affairs chiropractic clerkship: A pilot study

Michael R. Cole II, Brittany Pase, Charles Penza

Management of diabetic neuropathy with low level laser therapy in an 81-year-old male: A case report

Callyn Dittmar

Experiential learning exercise: Lessons learned for curriculum development

Scott Dunham, Christine Bradaric-Baus, Cirene D'Monte, David Starmer, Dominic Giuliano, Kim Ross, Alex Lee

Communication-based interventions, psychotherapy in chronic musculoskeletal pain: A narrative review

Sydney Ernst, Jason Napuli, Anna-Marie Ziegler

Musculoskeletal rehabilitation professions and the management of spinal manifestations of diffuse idiopathic skeletal hyperostosis: A scoping review

William Foshee, Michael Fergus, Katie Benson, Jeff Miller, Brenna Gray, Eric Daniel

Chiropractic continuing education: A descriptive analysis of cultural competence and special health topics requirements

William Foshee, Danielle Howard, Maria Buscemi, Nakiesha Pearson

A hidden ganglion cyst: A case report

Leslie Fuller, Melinda Novak

Results from the ACCRAC 2023 workshop business education for chiropractors part 1: Building a foundation

Brian J Gleberzon, Michael Cioffi, Ayla Azad

Development of entrustable professional activities at 2 community-based chiropractic student preceptorship sites

Jordan A. Gliedt, Kevin S. Mathers, Jeff King, Michael J. Schneider, Michael R. Wiles

Brain neurotransmitter imbalance in central sensitization and chronic pain in vivo using 1h-mrs: A narrative review

Noah Hass, Janelle Goss, Norman Kettner

Chiropractic care and research priorities for the pediatric population: A cross-sectional survey of Quebec chiropractors

Rebecca Hayes, Camille Imbeau, Katherine A Pohlman, Marc-André Blanchette, Chantale Doucet

Content validation of globally scored chiropractic basic and clinical sciences exams: a Delphi study

Igor Himelfarb, Bruce L. Shotts, Andrew R. Gow

Alignment between NBCE exams and CCE meta-competencies: Qualitative and quantitative analyses

Igor Himelfarb, Nai-En Tang, Bruce Shotts

Recalcitrant lower trunk pain responds to yoga combined simultaneously with myofascial release therapy: A case report

Benjamin Holmes, Brianna Vaa Stelling

Faculty perceptions of dropout detective as a tool to identify and support at-risk students in a doctor of chiropractic program

Ramona Houston, Krista Ward, Susie Childs

Novel video telehealth for chronic low back pain self-management in United States Military Veterans during the COVID-19 pandemic: A quality improvement study

Steven Huybrecht, Bridget Conboy, Karen Seal, Zac Cupler

Twists and turns evolving clinical decision-making for intermittent cervical spine symptoms in the presence of vascular anomalies and other complicating factors: A case report

Jessy Johnson, Christopher Arick, Eric Kirk

Healthcare overspend insights from a hands-on assessment and chiropractic care for uninterrupted cervicogenic headaches: A case report

Jessy Johnson, Michael McQueen, Christopher Arick, Eric Kirk

Intimate partner violence among chiropractic patients: A literature review and call to action

Julie Johnson, Alex Margrave, Kira Baca, Lisa Killinger, Judy Bhatti

Catastrophic seizure syndromes: A case study introducing novel nonpharmaceutical treatment protocols

Trent Jones, Jake Halverson, Norman Kettner

Manipulation under anesthesia for 4-level cervical fusion with dropped head syndrome: A case report

Kevin Kaldy

Effects of class IV laser on post-surgical wound healing: A case report

Mary Kampa, Micayla Batchlor

Chiropractic management of a 25-year-old female patient with cervicogenic vertigo: A case report

Sulakshandan Kathireson

Reducing barriers to conservative spine care to minimize opioid exposure in indigenous community: a global spine care initiative implementation project in northern Manitoba, Canada

Deborah Kopansky-Giles, Steven Passmore, Andre Bussieres, Patricia Tavares, Jennifer Ward

Opioid use reduction in failed back surgery syndrome patients at 3 months utilizing manual spinal decompression manipulation

Ralph Kruse, Maruti Gudavalli, Casey Rogers

Knowledge and willingness to use an automated external defibrillator among chiropractic students at a single United Kingdom institution: A cross-sectional survey

Wai Ting Lee, Adrian Hunnisett, Christina Cunliffe

Reliability of the biomechanical assessment of the sagittal cervical spine on radiographs used in clinical practice: A systematic review of the literature

Douglas F. Lightstone, Joe W. Betz, Paul Oakley, Deed E. Harrison, Ibrahim Moustafa

The role of complementary and integrative health schools in serving underserved communities

Nipher Malika, Margaret Whitley, Patricia Herman, Michele Maiers, Ian Coulter, Margaret Chesney

Conservative management of lower extremity radicular pain in a Veteran with solitary intraneural neurofibroma of the lumbosacral plexus: A case report

Kevin Meyer

Thoracic compression and scapular fracture, rare sequela of a seizure event: A case report

Hang Nguyen, Sherman Rhee

Abolishing a recurrent lateral lumbar shift with associated low back pain via chiropractic care guided by end-range loading: A case report

Joshua Nisler, Jessy Glaub

Evaluating the tolerance, oxidative stress, and inflammatory biomarker response to a whole-food dietary intervention based on hemp oil, calamari oil, and broccoli

Chinmayee Panda, Brandon Metzger, Thirumurugan Rathinasabapathy, Slavko Komarnytsky

Burnout amongst chiropractic practitioners and trainees: A scoping review

Brittni Partridge, Zachary Scott, Christopher Roecker, Sheryl Walters, Clinton Daniels

A cognitive functional therapy approach to the management of persistent, debilitating lumbar radiculopathy: A case report

Kevin Percuoco, Casey Buns, Ryan Kelly

Proximal median nerve schwannoma sonographic findings: A case report

Huxlande Petigny, Jessica Billham, Daniel Haun, Norman Kettner

Chiropractic management of tendinopathy: A systematic review

Mark Pfefer, Stuart McIntosh, Melanie Church, Jacob Holbrooks, Michael Pearl, Devon Van Houten, Travis Turley, Kaylee Grissom

Can chiropractic improve tone production in singers

Joseph Porter, Christina Cunliffe, Adrian Hunnisett

Chiropractic management of alar ligament injury: A case study and review

Katherine Reckelhoff, Chris Leonardi, Mark Pfefer, Kenneth Reckelhoff, jacqueline neal, Helena Jorgenson, Dacia Mast, Jaci Bayne, Kysn Paepke, Jack Rader

Best exercises to treat and prevent low back pain: A narrative review

Steven Reece, Mark Pfefer, Christopher Scott, Ivon Garcia, Lindsey Wendland, Josephine Kubat, Anthony Keck, Makenzie Curry

Objective human motion assessment using inertial measurement systems: An umbrella literature review

Steven Reece , Mark Pfefer , Stuart McIntosh , Mitchell Ludwig , karen umana , Johnny Fuller, Caleb Ketelsen, Katie Mahoney, Ashley Collins, Hannah Risley

Spinal manipulation for fibromyalgia: A narrative review

Christopher B. Roecker, Sachien R. Hewawasam

An automated computational method of identifying the site of human crepitus with piezoelectric accelerometers

Gregory R. Roytman, Jocelyn Faydenko, Matthew Budavich, Judith D. Pocius, Gregory D. Cramer

A scoping review to identify barriers and facilitators of research participation among chiropractic faculty

Kara Shannon, Brian Anderson, Kira Baca, John Crouse, Amberly Ferguson, Alex Margarve, Meredith Meyers, Kevin Percuoco, Patrik Schneider, Jennifer Smith, Michael VanNatta, Breanne Wells, Lia Nightingale, Stacie A. Salisbury

Management of irritable bowel syndrome with non-invasive vagus nerve stimulation and an integrated chiropractic and medical treatment approach in India: A case study

Tanmay Shinde, Charles Henderson, Monica Smith

Correction of pigeon toe or in-toeing in a 2 ½ year old female with chiropractic treatments: A case report

Lisa Stowell, Charles Blum

Functional recovery following traumatic brain injury in rats is enhanced by oral supplementation with bovine thymus extract

Natalia Surzenko, Johana Bastidas, Robert W. Reid, Julien Curaba, Wei Zhang, Hamed Bostan, Mickey Wilson, Ashley Dominique, Julia Roberson, Glicerio Ignacio, Slavko Komarnytsky, Alexa Sanders, Kevin Lambirth, Cory R. Brouwer, and Bassem F. El-Khodor

Influence of class IV laser on osteolysis of the distal clavicle: A case study and review

D'sjon Thomas , Chris Leonardi, Mark Pfefer , Phil Gastl , Jacob Steneberger, Edward Kutsar, Zachary Bloenker, Grant Burnett

Manual therapy management of temporomandibular joint dysfunction: A literature review

D'sjon Thomas , Mark Pfefer , Eve Cohn , Brian Perez , derek bowman , Holly Pirolim, Maria Tackett, C J McGurk, Nicole Manning

Applications of eye-tracking technology in chiropractic: Current evidence and example data

Parth Trivedi , Charles Henderson, Monica Smith

Does core stabilization training prevent injury and improve performance: A literature review

Shelby Waldman , Brian Perez , Thomas Kopatich, Mark Pfefer , Timothy McHaffie , Keaton Hoeke, Andrew Medico, Emily Winter, Jaimison Peckham

Discomfort during side posture lumbopelvic manipulation in a low back pain population: Effects of a modified flexed lumbopelvic position

Simon Wang, Erinn McCreath Frangakis, Martha Funabashi, Sheilah Hogg-Johnson

Current literature and resources addressing metabolic syndrome in chiropractic practice

Krista Ward, Koen P. Kallop, Victor Asemota, Dale F. Johnson, Suzanne L. Ray, Sergio Tony Fernando, Monica Smith