
ABSTRACTS OF ACC CONFERENCE PROCEEDINGS

44 Peer Review Information and Acknowledgments

PLATFORM PRESENTATIONS

- 47 An Investigation Into Motor Pattern Differences Used During Prone Hip Extension Between Subjects With and Without Low Back Pain
Paul A. Bruno and Jeff Bagust
- 48 Orienting New Faculty at a Chiropractic College: A Pilot Project
Alana Callender and Roger Hynes
- 48 Relationship Between Lumbar Facet Joint Capsule Strain and Paraspinal Muscle Spindle Discharge During Vertebral Movement
Dongyuan Cao, Joel G. Pickar, Weiqing Ge, Allyson Ianuzzi, and Partap S. Khalsa
- 49 Tumoral Calcinosis Associated With End-Stage Renal Disease: A Case Study
Marni Capes and R. Bruce Fox
- 50 Attaining Grading Reliability and Validity With Student Teaching Assistants
Linda Carlson and Daniel J. Weinert
- 50 Analysis of Peak Force in Applied Kinesiology Manual Muscle Testing
Katharine Conable, John Corneal, Terry Hambrick, Nelson Marquina, and John Zhang
- 51 Identification of Thoracic Spinal Levels by Palpation Versus an X-Ray Gold Standard
Robert Cooperstein, Michael T. Haneline, and Russell Wilson
- 52 Feigned Pain and Subluxation Calls: A Pilot Study on the Role of Expectation Bias
Robert Cooperstein, Michael T. Haneline, Makani Lew, Morgan Young, and Jennifer M. Hettich
- 52 Diagnosis and Management of Functional Femoral Neuropathy: A Case Study
Ariane Desmarais, Renaud Jeffrey-Gauthier, and Martin Descarreaux
- 53 Relationship of Paraspinal Surface EMG Levels to Perceived Muscle Tightness of Low Back Pain Patients in a Clinical Study
James W. DeVocht, Edward F. Owens, Jr., Ram Gudavalli, David G. Wilder, Joseph O. DiDuro, and William C. Meeker
- 54 Examination of Joint Hypermobility as a Premanipulative Test
Joseph O. DiDuro, Dennis P. Lopez, Steven L. Silverman, Dennis Malik, Thomas A. Wicks, Scott Carpenter, and James V. Owens
- 55 Chiropractic Academic Affiliations Within the Department of Veterans Affairs Health Care System
Andrew S. Dunn

- 55 Infectious Microbes on Chiropractic Treatment Tables: Assessment and Risk Reduction
Marion Willard Evans, Jr., Jennell Breshears, Alan Campbell, Chris Husbands, and Ronald Rupert
- 56 An Electronic Survey of Nomenclature Used in Chiropractic Colleges in the United States
Meridel I. Gatterman and Kathryn T. Hoiriis
- 57 Directional Effect of Vertebral Position on Muscle Spindle Responsiveness at L6–7 Segments
Weiqing Ge and Joel G. Pickar
- 58 Impact of Cervical Spine Manual Therapy on Mouth Opening Measurements in an Asymptomatic Population
James W. George, Jason Fennema, Adam Maddox, Martha Nessler, and Clayton D. Skaggs
- 58 Rhabdomyolysis: The Importance of Accurate Diagnosis: A Case Report and Literature Review
Micheal L. Gilbert and Jean-Nicolas Poirier
- 59 Feasibility of Audio Recording Chiropractor–Patient Encounters in a Private Practice Setting
Andrea G. Haan, Cynthia R. Long, and Maria A. Hondras
- 60 A Review of the Use of Likelihood Ratios in the Chiropractic Literature
Michael T. Haneline
- 61 Sensitivity and Specificity of Elliptical Modeling and Sagittal Lumbar Alignment Variables in Normal Versus Chronic Low Back Pain Subjects: Does Pelvic Morphology Explain Group Lordotic Differences?
Deed E. Harrison, Donald D. Harrison, Tadeusz J. Janik, Rene Cailliet, and Burt Holland
- 61 Identifying Student Learning Styles and the Implementation of Alternative Teaching Methods in the Classroom
Laura L. Huber
- 62 Augmentation of Interleukin-2-Induced Antibody Production Following a Single Spinal Manipulative Therapy in Normal Subjects
Stephen Injeyan, Julita Teodorczyk-Injeyan, and Richard Ruegg
- 63 Integrating Community Education With Chiropractic Continuing Education
Patricia M. Jestel and Laurie Mueller
- 64 MEG Response to Electroacupuncture Stimulation: A Case Study
Norman W. Kettner, Rupali P. Dhond, Athinoula A. Martinos, Vitaly Napadow
- 64 Implementing Cobb Kids Straighten Up and Move: A National Public Health Week Educational Outreach
Ron Kirk and Richard Franz
- 65 Development of an Applied Skills Lab in Therapeutic Exercise at the Canadian Memorial Chiropractic College
Rhonda Kirkwood, Kim Ross, and Hettie Till
- 66 Standards, Learning Objectives, and a Curricular Model for Teaching Evidence-Based Practice
Ron LeFebvre, Dave Peterson, Mitch Haas, Charles Novak, and Richard Gillette
- 67 Treating Musculoskeletal Injuries With Monochromatic Infrared Light Therapy: Three Case Studies With a Literature Review Examining This Technology and Its Impact on Patient Care
Kathleen L. Linaker, Quoc Giang, and Angela Silva
- 67 Managing Conflicts of Interest in Continuing Medical Education: A Comparison of Policies
Anthony J. Lisi

- 68 Undiagnosed Metastatic Disease Presenting as Mechanical Spinal Pain: A Report of Three Cases and Review of Management Strategies
Anthony J. Lisi and Gregory Mara
- 68 Doctor-Driven, Patient-Centered Care in the Campus Health Center
Wendy L. Maneri
- 69 Exploring Associations Between Patient–Provider Trust, Patient’s Frequency of Visits, Continuity of Care, and Expectations of Care in Chiropractic Practice
Dennis M. Marchiori and Alan B. Henkin
- 70 Attitudes Toward Chiropractic Paradigm and Practice: An Exploratory Study
Brian J. McAulay
- 70 A Survey of Chiropractic Students’ Knowledge and Attitudes Regarding Diagnosis and Primary Care
Matthew McCoy, Marc Schneider, Michael Pryor, and Karen Numeroff
- 71 Facilitating the Learning Process: A Pilot Study of Collaborative Testing Versus Individualistic Testing in the Chiropractic College Setting
Jamie K. Meseke, Rita Nafziger, and Christopher A. Meseke
- 72 Principal Components Analysis of the Atlas Vertebra
Christopher A. Meseke, Sebastien R. Brillon, and Stephen M. Duray
- 72 Analysis of Written Continuing Education Materials in Determining Allocation of CE Credits
Laurie L. Mueller and Sharon Whitney
- 73 Kinematics and Kinetics of Chiropractors During Side-Posture Lumbar Spine Manipulation: A Pilot Study
Joshua Myers, M. Ram Gudavalli, and David Wilder
- 74 Pain Patterns and Descriptions in Patients With Radicular Pain: Does the Pain Necessarily Follow a Specific Dermatome?
Donald R. Murphy, Eric L. Hurwitz, Jonathan K. Gerrard, and Ronald Clary
- 75 Epidemiology of Musculoskeletal Injuries Among Students Entering Chiropractic College
Harrison T. Ndetan and Ronald L. Rupert
- 75 Prevalence of Musculoskeletal Injuries Sustained by Chiropractic Students While in College
Harrison T. Ndetan and Ronald L. Rupert
- 76 First Rib Fracture of Unknown Etiology: A Case Report and Review of the Literature
Hang T. Nguyen, Joel P. Carmichael, J. Scott Bainbridge, and Craig Kozak
- 77 Baseline Spinal Stiffness Characteristics of Patients Enrolled in a Clinical Study of Spinal Manipulation for Low Back Pain
Edward F. Owens, Jr., James DeVocht, Ram Gudavalli, David G. Wilder, and William C. Meeker
- 77 Preparing Learners for National Board of Chiropractic Examiners (NBCE) Part IV Objective Structured Clinical Examination Utilizing Blended Learning
Kristina L. Petrocco-Napuli and Patricia R. Merkle
- 78 Descriptive Study of DISH Patients Presenting to Teaching Clinics in Québec and France: A Pilot Study to Determine the Feasibility of a Randomized Control Trial
Marie-Helene Pilon-Choquette, Isabelle Sideleau, Marie-Sonia Marcellin, Camille Koch, Caroline Andre, Martin Descarreaux, and Michelle Wessely
- 79 Chiropractic Treatment of Chronic Childhood Constipation: A Case Report
David M. Quist and Stephen M. Duray

- 80 The Challenges of Ethical Recruitment of Patients Into Simultaneous Clinical Studies in a Chiropractic Research Clinic
Robert M. Rowell, Dana J. Lawrence, and Edward F. Owens, Jr.
- 80 Psoas Major: A Case Report and Review of Literature
Sandy S. Sajko
- 81 Effect of Chiropractic Treatment on Hip Extension Ability and Running Velocity Among Young Male Running Athletes
Jörgen Sandell, Per J. Palmgren, and Lars Björndahl
- 82 Attitudes of Chiropractic Students Regarding Academic Integrity
Marc P. Schneider and Sue Dudt
- 82 Pain Medication Use in an Obstetric Population: Indication for Reconsidering Approaches to Musculoskeletal Pain in Pregnancy
Clayton D. Skaggs, James W. George, Doug Adair, Mark A. Wyatt, Kristan Giggey, and David Adair
- 83 Effect of Chiropractic Adjustments on Locomotion in a Patient With Xeroderma Pigmentosum
Dean L. Smith, Mark Walsh, and Jane P. Smith
- 84 Demographic and Referral Analysis of a Free Chiropractic Clinic Servicing Ethnic Minorities
Gerald L. Stevens
- 85 Professional Attire for Preclinical Students: A Good Idea or a Wasted Effort?
John W. Strazewski and Ramneek S. Bhogal
- 85 A Feasibility Study Assessing Spinal Manipulative Care and Bimodal Care in Subacute and Chronic Neck Pain Patients
Richard G. Strunk and Maria A. Hondras
- 86 Spinal Manipulative Therapy (SMT) Does Not Alter the State of Activation of Systemic T Lymphocytes in Normal Subjects
Julita Teodorczyk-Injeyan, H. Stephen Injeyan, and Richard Ruegg
- 87 A Pilot Study of the Effects of Instrument-Applied Chiropractic Manipulative Therapy on Postural Control
Rodger Tepe, Kristan Giggey, Dennis Enix, and John Zhang
- 87 Developing Case-Based Assessments to Integrate Basic and Clinical Sciences
Hettie Till and Rahim Karim
- 88 Feasibility of Muscle Strain Imaging During Therapeutic Body Movements
John J. Triano
- 89 Development of a Practice-Based Research Program at a University Health Center: A Pilot Study
Sivarama Prasad Vinjamury, Cheryl Hawk, Diane Resnick, Ju-Tzu Li, Raheleh Khorsan, and Anupama Kizhakkeveetil
- 90 Sacroiliac Subluxation Following Ankle Sprain Mimicking Sciatica
David T. Ward and Robert J. Rectenwald
- 90 A Review of Magnetic Resonance Imaging and Magnetic Resonance Arthrography in the Evaluation of Structures Comprising the Temporomandibular Articulation in the Open and Closed Mouth Position in Cadaveric Specimens
M.A. Wessely, M. Abreu, C.B. Chung, P. Haghighi, D. Trudell, and D. Resnick

91 Striving for Transparency: Development of an Evidence-Based Application and Rubric for Evaluating Applicants' Qualifications for Promotion to Professor
Glenda Wiese, Robert E. Percuoco, Stephen M. Duray, Saeed R. Faruqui, Ian D. McLean, Joel G. Pickar, and Gilbert O. Schmiedel

92 Development and Implementation of Faculty Portfolios at Northwestern Health Sciences University
Jonathan C. Williams

93 Effect of Fruit and Vegetable Powder Mix on Hypertensive Subjects
John Zhang and George Oxinos

POSTER PRESENTATIONS

94 The Practice of Pediatric Chiropractic
Joel Alcantara

95 A Correlation of Static Versus Motion Models: Updated Approach for Instruction
Karen A. Bobak and Dennis M.J. Homack

95 Survey of Open Pod Clinical Teaching in a Multi-Doctor Setting, Modeling Collaborative Practice
Ronnie J. Boesch, Misty Stick-Mueller, Anna Livdans-Forret, David Hannah, and James Countryman

96 A Primary Ambulatory Care Quality Assessment Program Developed for a Chiropractic College Teaching Clinic
Morris Braum

97 Ethics and Compliance: A Model for Internal Auditing of Patient Health Records in a Chiropractic College Clinic
Anthony A. Cacioppo, Jeanne E. McWilliams, James V. Owens, and Troy L. Tatum

97 The Association Between Cerebrovascular Accident and Chiropractic Manipulative Therapy: A Prospective Study
Michael J. Carucci, Luanne Centrella, and Ryan Cramer-Forbes

98 Conventional Microscopy Versus Computer Imagery in the Educational Laboratory
Christine Cunningham, Elizabeth D. Larzelere, and Ilija Arar

99 A Retrospective Analysis of the Development, Implementation, and Assessment of an Evidence-Based Practice Course for Chiropractors
Anthony V. D'Antoni and Genevieve Pinto Zipp

99 Can a Chiropractic College Clinic Effectively Use Current Technology Available for Record Keeping?
Scott F. Donaldson and Don Lewis

100 Vibration-Induced Neural Plasticity in a Subject With Dysafferentation Syndrome: A Case Study
Dennis Enix and Kristan Giggey

101 Head Repositioning Accuracy in Healthy Subjects: Effect of Muscular Fatigue
Andréanne-Claire Gamache, Isabelle Sideleau, Jean Raymond, and Martin Descarreaux

101 Organizing the Technique Curriculum: A Case Report
Christopher Good, Matthew Funk, Stephen Perle, Gary Greenstein, and Paul Sherman

102 Correlation of GPA and Diagnostic Imaging Scores on the NBCE Exam
Laura Greene-Orndorff and John Hart

103 Evidence-Based Practice and Curriculum Development at UBCC
Gary Greenstein, Matthew Funk, Paul Sherman, Christopher Good, and Stephen Perle

- 104 Improvement in the Quality of Life of a Patient With Multiple Neuromusculoskeletal Disorders Undergoing Chiropractic Care
Joseph V. Haezebrouck and Robert B. Mattson
- 104 Determining Spinal Level Using the Inferior Angle of the Scapula as a Reference Landmark Retrospective Analysis of 50 X-Rays
Michael T. Haneline, Robert Cooperstein, Morgan D. Young, and Justin Ross
- 105 Survey Evaluation of Clinic Abroad Program Goals and Objectives
David W. Hannah, Karol A. Donaubauer, and Lori M. Curry-Whitcomb
- 106 Abnormal Static Sagittal Cervical Curvatures Following Motor Vehicle Collisions: A Retrospective Case Control of 41 Subjects Exposed to a Motor Vehicle Collision
Deed E. Harrison, Donald D. Harrison, Evan Katz, Joseph R. Ferrantelli, Tadeusz J. Janik, and Burt Holland
- 106 Structure Does Not Necessarily Dictate Function
John Hart
- 107 Thermal Patterns and Health Perception
John Hart and W.R. Boone
- 108 Effects of the Sacro-occipital Technique on the Quality of Life in a Lung Cancer Patient Undergoing Chemotherapy and Radiation Treatment
Marilyn Holbeck, Alison Tomson, Charles L. Blum, and Robert Monk
- 109 Effectiveness of Custom Orthotics at Reducing Injuries in a College Football Team
Brian Jensen, William Austin, J. Nathan Wilder, Brent A. Ungar, John Zhang, Dennis L. Nosco, and Mark Mandell
- 109 Student Patient Education Awareness and Knowledge (S.P.E.A.K.): A Clinic Marketing Program That Augments a Chiropractic Student's Educational Process and Impacts the Chiropractic Profession
Julie Johnson
- 110 Beyond Compliance: Chiropractic, Wellness, and the Council on Chiropractic Education
Lisa Zaynab Killinger
- 111 Communicating Chiropractic to Special Populations Using Student Projects for Pediatric Patient Education
Brigette Langston Kinard
- 112 Effect of Lateral Cranial Translation on the Appearance of the Atlanto-occipital Joint
Patricia Kuhta and Edward F. Owens, Jr.
- 112 Ethics and Technology: A Survey of Chiropractic College Clinic Constituencies
Cynthia J. Lund and Michael Pryor
- 113 Interrater and Intrarater Reliability of Static Paraspinal Surface Electromyography
Matthew McCoy, Ian George, Nicole Jastremski, Lauren Butaric, and Robert Blanks
- 114 Utilizing Cooperative Learning to Develop Integrated Case Management Skills
Jason G. Napuli
- 114 Evaluation of Standing Posture as Rotations and Translations in 3D Interexaminer and Intraexaminer Reliability of the PosturePrint
Martin C. Normand, Donald D. Harrison, Martin Descarreaux, Deed E. Harrison, Denise L. Perron, Joseph R. Ferrantelli, and Tadeusz J. Janik
- 115 Management of Mechanical Back Pain in a Patient With Carcinoma of the Bladder
Paul J. Osterbauer

- 116 Public Health Education: A Traditional Approach
Irene N. Paulavicius
- 116 The Flipped Meniscus Variation of a Bucket-Handle Tear: A Case Report
Jean-Nicolas Poirier
- 117 Obesity-Related Spinal Epidural Lipomatosis: A Case Report
Jean-Nicolas Poirier, Aislin M. Gerow, and Stephanie M. Janiak
- 118 Avascular Necrosis and Clinical Documentation: A Case Study
Renee M. Prenitzer
- 118 Conversion to Digital Imaging
Kerri Duggins Rames
- 119 Triage in a Chiropractic Pediatric Setting
Drew Rubin
- 119 Student Mental Health in a Chiropractic University Setting
Lisa Rubin
- 120 Gait Analysis of Patients With Low Back Pain, Before and After Spinal Manipulation: A Preliminary Report
Brent da Silva Russell
- 121 Effect of High-Heeled Shoes on Lumbar Lordosis
Brent da Silva Russell
- 121 The Use of Shock Wave Therapy as a Preventative Measure for Nonunion of the Scaphoid: A Case Report and Review of Literature
Sandy S. Sajko, Mohsen Kazemi, and Herbert Von Schroeder
- 122 Developing a Survey for Needs Assessment: A Case Study
Jon Schwartzbauer, Laura Chadwick-Weeks, and John Hart
- 123 A Comparison Study Between the Use of a Combined Educational Delivery Method and Traditional Lecture
Michael W. Shreeve, Medhat Alattar, and Christopher Meseke
- 124 Effect of Logan Basic Technique on Blood Pressure and Pulse Rate in a Student Population
Brian Snyder, Pat Montgomery, and John Zhang
- 124 Effect of the Toftness System of Chiropractic Adjusting in Adults With Scoliosis: A Pilot Study
Brian Snyder and John Zhang
- 125 The MERIC System—Myth or Mechanism?
Gene S. Tobias, David Sikorski, and Anupama Kizhakkeveetil
- 126 Patient Expectations for Chiropractic Care: Developing Consensus Within the Profession: Initial Findings
William Updyke and Gary Schultz
- 126 Lumbar Spine Radiographic Changes After an Initial Treatment With an Impulse Adjusting Instrument in a Female Patient With Low Back Pain
Janeen L. Wallace
- 127 Laser Acupoint Treatment on Blood Pressure and Body Weight
John Zhang, Nelson Marquina, George Oxinos, Amy Sau, and Derek Ng
- 128 Instrument-Applied and Manual Manipulation-Induced EMG Responses in Asymptomatic Subjects
John Zhang, Amy Sau, Derek Ng, Dennis Enix, Kristan Giggey, and Rodger Tepe