ACC RAC 2019 CONFERENCE SCHEDULE  
Baltimore Marriott Waterfront, Baltimore, MD  

Fostering Innovation

Continuing education credits will be available for most sessions. Doctors of chiropractic may earn up to TBD continuing education hours pending your state board’s approval. Continuing education credits are provided through Parker University.

**Thursday, March 14**

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<tr>
<td>8:00 am - 5:00 pm</td>
<td>ACC Working Group Meetings (closed meetings for ACC working groups)</td>
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<td>Presidents – Waterview CD (Lobby Level)</td>
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<td>Admissions/Enrollment – Grand Ballroom IX (Grand Ballroom Level 3)</td>
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<td>Assessment and Accreditation – Galena (Harborside Ballroom Level 4)</td>
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<td>Institutional Advancement/Development – Grand Ballroom VIII (Grand Ballroom Level 3)</td>
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<td>Post Graduate – Chasseur (Grand Ballroom Level 3)</td>
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<td>Research Directors – Essex (Harborside Ballroom Level 4)</td>
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<td>Student Affairs – Bristol (Grand Ballroom Level 3)</td>
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<td>6:00 pm - 7:30 pm</td>
<td>Welcome Reception - Sponsored by Standard Process, Inc.</td>
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All attendees are invited to join.

**Friday, March 15**

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<tr>
<td>7:00 am - 8:00 am</td>
<td>Continental Breakfast</td>
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<tr>
<td>8:00 am - 8:10 a.m.</td>
<td>Opening Plenary Session</td>
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<td>Opening of the ACC RAC 2019 Conference – Introductions and Welcome</td>
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<td>Michael Ciolfi, DC – Dean, University of Bridgeport, College of Chiropractic</td>
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<td>ACC Vice-Chair</td>
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<tr>
<td>8:10 am - 9:10 am</td>
<td>Fostering Innovation</td>
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<td>Keynote speakers will provide insights into the developing trends in integrative care and learn about recent research that is changing health care. Areas of future research needs will be addressed.</td>
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<td>Advancing Integrative Health through Research, Education and Clinical Practice</td>
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<td>Keynote Speaker: Peter Wayne, PhD, Associate Professor of Medicine, Harvard Medical School / Director of Research, Osher Center for Integrative Medicine</td>
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<td>Dr. Wayne is Associate Professor of Medicine at Harvard Medical School and the Director of Research for the Osher Center for Integrative Medicine, jointly based HMS and Brigham and Women’s Hospital. The primary focus of Dr. Wayne’s research is evaluating how mind-body exercises and related integrative medicine therapies can be used to prevent, rehabilitate, and manage age-related health conditions. He has served as a principal or co-investigator on more than 25 NIH-funded studies, including clinical trials evaluating the safety and efficacy of Tai Chi exercise for balance disorders, Parkinson’s disease, heart failure, chronic obstructive pulmonary disease, osteoporosis, and depression.</td>
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**NCCIH: Leading the way in health initiatives**

**Keynote Speaker:** Helene M. Langevin, MD, CM, Director, NCCIH

Dr. Langevin became the Director of the National Institutes of Health’s (NIH) National Center for Complementary and Integrative Health (NCCIH) in the fall of 2018. She has a distinguished career in the integrative health community, which includes extensive research on the role of non-pharmacologic treatment for pain. As NCCIH director, Dr. Langevin oversees the federal government’s lead agency for scientific research on the diverse medical and health care systems, practices, and products that are not generally considered part of conventional medicine. With an annual budget of approximately $142 million, NCCIH funds and conducts research to help answer important scientific and public health questions about natural products, mind and body practices, and pain management. The Center also coordinates and collaborates with other research institutes and federal programs on research into complementary and integrative health.

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**About the National Center for Complementary and Integrative Health (NCCIH):** NCCIH’s mission is to define, through rigorous scientific investigation, the usefulness and safety of complementary and integrative health approaches and their roles in improving health and health care. For additional information, call NCCIH’s Clearinghouse toll free at 1-888-644-6226. Follow them on [Twitter](https://twitter.com), [Facebook](https://www.facebook.com), and [YouTube](https://www.youtube.com).

**About the National Institutes of Health (NIH):** NIH, the nation’s medical research agency, includes 27 Institutes and Centers and is a component of the U.S. Department of Health and Human Services. NIH is the primary federal agency conducting and supporting basic, clinical, and translational medical research, and is investigating the causes, treatments, and cures for both common and rare diseases. For more information about NIH and its programs, visit [www.nih.gov](http://www.nih.gov).

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**9:10 am - 9:55 am – Grand Ballroom VI - X**

**Innovations for chiropractic care in non-pharma treatments for pain and opioid addiction**

**Fostering Change: National Academy of Science Engineering and Medicine’s forum of non-phama approaches to the opioid crisis**

**David O’Bryon, JD, CAE, President, Association of Chiropractic Colleges / Chair, Academic Collaborative for Integrative Health**

Mr. O’Bryon brings 38 years of chiropractic, legislative, and regulatory experience, in addition to his previous work for the United States Congress. He earned his BA from Gettysburg College in 1972, and his JD from Potomac School of Law in 1980. He earned a certificate in the Program for Instruction for Lawyers from Harvard Law School in 1982, and became a Certified Association Executive for the American Society of Association Executives in 1986.

**VA experiences with chiropractic care**

**Anthony Lisi, DC, Director of Chiropractic Services, Veterans Health Administration / Associate Professor of Clinical Sciences, University of Bridgeport College of Chiropractic / Assistant Professor, Yale Center for Medical Informatics**

Dr. Lisi is the Director of Chiropractic Services for the Veterans Health Administration. He is also Associate Professor of Clinical Sciences at the University of Bridgeport College of Chiropractic, and Assistant Clinical Professor at the Yale Center for Medical Informatics. He has authored or co-authored over 40 peer-reviewed publications on topics including low back pain management, spinal manipulation, interprofessional education and chiropractic services.

**Effective Clinical Innovations: Leveraging nutrition therapy in chiropractic care**

**Christopher Bump, DC, MS, IFMCP, CNS, DABCN, Director, Integrated Health Care**

Dr. Bump has over 30 years of experience in Clinical Nutrition and teaches extensively at institutions including Columbia University, Institute for Integrative Nutrition, and numerous chiropractic organizations throughout the country. He has created a unique model of patient-centered health by integrating Functional Medicine and Chiropractic Techniques. He has earned numerous degrees and certifications, including a Master’s degree in Human Nutrition from Columbia University.

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**10:00 am - 10:30 am – Grand Ballroom I - V**

**Break – Sponsored by Standard Process, Inc.**
## Workshops

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<td><strong>VETERANS ADMINISTRATION</strong></td>
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<td><strong>RESEARCH</strong></td>
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<td><strong>Unpacking the social contract: values translation for educators</strong></td>
<td>Update on the VA Community Care Program: what field chiropractors need to know</td>
<td>Clinical Practice Guidelines: impacting patients, providers, payers, and policy makers</td>
<td>Chiropractic education research capacity: 2019 research agenda update</td>
<td>Three-year training in chiropractic education and administration culminating in a Chiropractic Education Leadership (CEL) certificate</td>
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<td>This workshop employs a ‘small group – large group’ format and provides attendees an opportunity to explore the social contract beginning with its historical evolution into the 21st century. Attendees will identify the specific values and principles health care practitioners are mandated to uphold. The workshop concludes exploring teaching and learning options with appropriate pedagogy.</td>
<td>The VA MISSION Act of 2018 consolidates VA’s purchased care mechanisms into a new Veterans Community Care Program. This session will present an overview of the VA Community Care Program. Content will include data on use of VA community-based chiropractic care, considerations for treatment planning at the VA facility and with community chiropractors, and developments to improve the efficiency of administration of these benefits. Information will be presented that can help field DCs better communicate with VA facility stakeholders and improve the claims submission and reimbursement processes.</td>
<td>While there are a growing number of Clinical Practice Guidelines (CPG) being published, the impact is lessened without an emphasis on knowledge translation. This workshop will help clinicians understand how to use CPG’s to drive positive change.</td>
<td>Education research is “the scientific field of study that examines education and learning processes and the human attributes, interactions, organizations, and institutions that shape educational outcomes.” Thus, education research is fundamental to improving chiropractic education programs and ultimately the chiropractic profession. However currently, there has been little attention given to education research. This interactive workshop will be presented by a collaborative team of experts and will encourage attendee participation. This session continues the chiropractic research agenda cycle, will provide an update on the current research, and will discuss building the research capacity of the chiropractic profession, especially as this relates to education research.</td>
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<td>F. Stuart Kinsinger Stephen Perle</td>
<td>Jay Greenstein</td>
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<td>Bart Green John Mrozek Michael Wiles</td>
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### lunch - Sponsored by NCMIC Insurance Company

Announcement of the Jerry McAndrews Award
### Scientific Contributed Platform Sessions

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<td><strong>INTEGRATION</strong></td>
<td><strong>CASE STUDIES</strong></td>
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<tr>
<td><strong>Moderator:</strong> BARCLAY BAKKUM</td>
<td><strong>Moderator:</strong> LYNN POWNALL</td>
<td><strong>Moderator:</strong> TODD KNUDSEN</td>
<td><strong>Moderator:</strong> DANA HOLLANDSWORTH</td>
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<tr>
<td>Reliability and validity of muscular endurance tests in low back pain population: a systematic review</td>
<td>Vibratory stimulation of cervical vertebrae modulates the discharge activity of ventral tegmental area neurons and dopamine release in the nucleus accumbens</td>
<td>Factors associated with post-traumatic stress disorder prevalence among veterans of recent wars receiving Veterans Affairs chiropractic care</td>
<td>Chronic elbow pain management using repetitive end-range loading of the shoulder: a case report</td>
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<td>Arnaud Lardon, Hainan Yu, Pierre Cote, Anne Taylor-Vaisey, Nadege Lemeunier</td>
<td>Kyle Bills, Scott Steffensen</td>
<td>Brian Coleman, Kelsey Corcoran, Eric DeRycke, Lori Bastian, Cynthia Brandt, Anthony Lisi</td>
<td>James Leonard, Nathan Hinkeldey, Trevor McArthur</td>
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<td>Kelsey Lewis, Patrick Battaglia</td>
<td>Florian Barbier-Cazorla, Hainan Yu, Pierre Cote, Paula Stern, David Cote, Anne Taylor-Vaisey, Chelsea D’silva, Nadege Lemeunier</td>
<td>Kelsey Corcoran, Lori Bastian, Eric DeRycke, Cynthia Brandt, Sally Haskell, Anthony Lisi</td>
<td>Stacey Cornelson, Forrest Allen, Mero Nunez, Norman Kettner</td>
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<tr>
<td>Spinal manipulation increases cortical salience network connectivity in cLBP</td>
<td>The effects of chiropractic spinal manipulation on the H reflex and muscle strength in children with spastic diplegic cerebral palsy: a feasibility study</td>
<td>A multidisciplinary approach to chronic pain: a pilot of chiropractic inclusion</td>
<td>A case study in the use of therapeutic laser in wound healing of a pressure ulcer</td>
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<td>Norman Kettner, Vitaly Napadow, Kylie Isenburg, Dan-Mikael Ellingsen, Ekaterina Protsenko, Istiaq Mawla, Matthew Kowalski, David Swensen, Deanna O’Dwyer-Swensen, Robert Edwards, Marco Loggia</td>
<td>Jenna Salmons, Imran Khan Niazi, Rasmus Wiberg Nedergaard, Kelly Holt, Heidi Haavik, Denise Taylor</td>
<td>Nathan Hinkeldey, Jamie Erixon, Jeffrey Kinderdietz</td>
<td>Dana Underkofler-Mercer, Emma Minx, Christopher Belics, Benjamin Heasty, Tyler White, Bobby Prichett</td>
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<td>A survey of current chiropractic practice for patients with prior lumbar spinal fusion in the United States Department of Veterans Affairs</td>
<td>Assessment of hip and shoulder kinematics of a chiropractor during performance of side posture adjustments: data from a pilot study</td>
<td>Can existing complexity measures be used to assess VA chiropractic resident cases?</td>
<td>Menstruation, what a headache: a case report</td>
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<td>Clinton Daniels, Jordan Gledt, Edward Bednarz, Pradeep Suri, Anthony Lisi</td>
<td>Michael Weiner, Brent Russell, Linda Mullin, Edward Owens, Ronald Hosek, Gabriel Kelly</td>
<td>Vivian Ly, Christopher Coulin, Anthony Lisi</td>
<td>Morgan Lintz, Nathan Hinkeldey</td>
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<td>Forces associated with cervical stairs step technique</td>
<td>Changes over time in effective neural connectivity following a chiropractic adjustment</td>
<td>Chronic care within medical settings: a scoping review</td>
<td>Vertebral artery pseudoaneurysm: a case report</td>
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<td>Reliability and validity of neurological tests in low back pain population: a systematic review</td>
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<td>Demographics of patients referred for chiropractic care within one Federally Qualified Health Center (FQHC)</td>
<td>Auricular acupuncture: a case for using Shen Men as a bridge to movement</td>
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<td>Hainan Yu, Fabrice Mallard, Pierre Cote, Anne Taylor-Vaisey, Nadege Lemeunier</td>
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<td><strong>THEME</strong></td>
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<td><strong>Moderator:</strong> F. STUART KINSINGER</td>
<td><strong>Moderator:</strong> DANA MADIGAN</td>
<td><strong>Moderator:</strong> BREANNE WELLS</td>
<td><strong>Moderator:</strong> ROGER ENGEL</td>
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### Step one in the validation of a novel technology algorithm’s ability to produce likely low back and neck pain conditions

Jay Greenstein, Jena Etnoyer-Slaski, John McNulty, Robert Topp

### Therapeutic horticulture for veterans with chronic musculoskeletal pain

Paul Dougherty, Susan Taylor-Brown

### Does a pipeline program at a CIM university motivate students for a CIM career?

Tolu Oyelowo

### Herbal topical analgesics: an alternative tool for the management of chronic neuromusculoskeletal pain and inflammation

Stephen Grand, Kenice Grand

### Chiropractic practice in the continent of Africa

Hiwot Melka, Robb Russell, James Whedon, Scott Haldeman

### A real pain in the groin: a case series of chronic pain following surgical hernia repair

Jena Crumpacker, Nathan Hinkeldey, Heather Meeks, Kristin Freitas

### Conservative chiropractic care for a post-traumatically induced C6/7 intrarforaminal disc herniation in a 43-year-old female

Jeffrey Mersky, Charles Blum, Richard Gerardo

### Chiropractic co-management of two patients with low back pain and bullets in or near the spine

Ross Mattax

### Anatomic variation of the sciatic nerve utilizing sonography

Stacey Cornelson, Norman Kettner

### Spinal manipulation for complicated spinal conditions: a case series on cervical spinal canal stenosis

Alec Schielke

### Traumatic spondylolisthesis at L5-S1

Lauren Tollefson, John Chin-Suk Cho

### Neural arch bone marrow edema and spondylolysis in adolescent cheerleaders: a case series

Ashley Ruff, Stacey Cornelson, Courtney Wells, Norman Kettner

### Chiropractic student and new graduate perception of institution versus community based clinical education experience

Navine Haworth, Keri Moore, Louise Hostmanshof

### Chiropractic student attitudes, skills, and knowledge of evidence-based practice: EBASE survey tailored to students in preclinical and clinical chiropractic training

Sergio Fernando, Joel Alcantara

### Integrating clinical nutrition into chiropractic college clinics - obstacles and opportunities

Marina Rose

### The quality of life and patient satisfaction of pregnant patients under care in a chiropractic teaching clinic: a prospective case series

Sarah Hock, Joel Alcantara

### The use of force sensing table technology™ to instruct and evaluate students and clinicians in performing spinal manipulative therapy

Shari Wynd, Brad Koby, Michael Sheppard, John Mrozek

### Mechanical properties of a thoracic spine mannequin with variable stiffness control

Edward Owens, Ronald Hosek, Brent Russell

### Sonography of asymptomatic ulnar nerve instability

Norman Kettner, Federico Villafane, Stacey Cornelson, Roberta Sclocco

### Acute impact of cervical spine manipulation on isometric handgrip strength of participants with neck pain

John Ward, Jesse Coats

### Photogrammetric investigation of sagittal pelvic alignment and potential influencing factors during the third trimester of pregnancy

John Edwards, Allison Union, Joel Alcantara

### Prone straight leg raise: a proposed functional measure of sacroiliac joint range of motion

Robert Walsh, Aidan O’Brien, Molly Timmerman, Alec Schielke

### Manual interventions for musculoskeletal factors in infants with suboptimal breastfeeding: a scoping review

Cheryl Hawk, Amy Minkalis, Carol Webb, Olivia Hogan, Sharon Vallowe

### The Gillet Test: does it detect sacroiliac motion, or asymmetric one-legged stance patterns?

Felisha Truong, Robert Cooperstein
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<td>Improving cranial nerve sensation in a patient with occipital neuralgia with scar mobilization</td>
<td>Devon Ackroyd</td>
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<td>A case of flexor carpi radialis tenosynovitis mimicking Carpal Tunnel Syndrome diagnosed by diagnostic ultrasound</td>
<td>Ahmad Abdella, Patrick Battaglia</td>
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<td>Perceptions of safety culture in chiropractic</td>
<td>Joel Alcantara</td>
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<td>The predictive relationship of quality of life domains to sense of coherence subdomains</td>
<td>Joel Alcantara, Andrew Whetten</td>
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<td>The prevalence of adverse events, effectiveness rating, and satisfaction of patients attending chiropractic care in a practice-based research network</td>
<td>Joel Alcantara, Jeanne Ohm, Joey Alcantara</td>
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<td>Improvements in quality of life of chiropractic patients following a course of care in a practice-based research network</td>
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<td>A rare presentation of old Osgood-Schlatter Disease and old Sinding-Larsen-Johansson Disease in the same knee with contralateral acute patellar tendon rupture</td>
<td>Alejandro Aponte</td>
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<td>Chiropractic care of professional hockey player suffering from multiple concussions: a case report</td>
<td>Thomas Bloink, Charles Blum</td>
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<td>A survey of chiropractic students or recent graduates on their experiences in chiropractic college adjusting lab or class</td>
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<td>Cranial therapeutic applications to facilitate dentofacial growth and development of a 50-year-old adult female: a case report</td>
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<td>Intervention in tachycardia through chiropractic adjustment, Sacro Occipital Technique’s chiropractic manipulative reflex technique: a case report</td>
<td>William Boro</td>
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<td>Intervention in gall bladder dysfunction through chiropractic adjustment and nutritional therapy: a case report</td>
<td>William Boro, Mary Psaromatis</td>
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<td>Reduced opioid use through chiropractic care subsequent to failed low back surgery</td>
<td>Diane Clark, Donald LeBlanc</td>
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<td>Sonography of gluteal muscles and sciatic nerve in a 37-year-old with chronic spinal cord injury</td>
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<td>Sonography of the trunk and lower extremity muscles in Duchenne’s Muscular Dystrophy</td>
<td>Stacey Cornelson, Ashley Ruff, Muriel Perrilat, Norman Kettner</td>
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<td>Sacral neural stimulator mimics low back pain after fall</td>
<td>Joanne Eash</td>
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<tr>
<td>The chiropractic care of a multiparous female with a history of chronic breech and fetal malposition</td>
<td>John Edwards, Allison Union, Joel Alcantara</td>
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The chiropractic care of a multiparous woman experiencing dystocia during active labor
John Edwards, Allison Union, Joel Alcantara

Effect of high-intensity interval training and strength training on endurance and coordination in a patient with a brain stem injury
Melissa Engelson

Contraindications in certain types of Chiropractic Manipulative Therapy (CMT) for the connective tissue disorder patient: a case report on chiropractic management and Ehler-Danlos Syndrome
Erika Evans

Chiropractic care of an infant with Mosaic Trisomy 15, Prader-Will Syndrome, plagiocephaly, and torticollis
Melissa Ferranti, Sarah Williams

Incidental finding of osteochondritis dessicans in a 15-year-old female athlete
Melissa Ferranti, Stacey Brehm

Describe and demonstrate Vertebral Distraction Pump (VDP) for intersegmental distraction using DMX fluoroscopic imaging
Bryan Gatterman, Gregg Anderson

Asymmetry of paired occipital condyle convergence angles
Rachel Gilmore, Roger Morrison, Mark Pfefer, Jackson Berg

Metastatic cancer presenting as hip pain
Kenice Grand, Stephen Grand, Justin Willis, Jose Maiz

Active vs. passive Gillet sacroiliac motion testing in the side-posture position
Jake Halverson, Felisha Truong, Christopher Meanley, Robert Cooperstein

When did I feel competent? Student and new graduate self-perceived attainment of clinical competence from a North American chiropractic program
Navine Haworth, Linda Jones

Navigating a supermarket of choices, what a headache: a case report
Nathan Hinkeldey, Keira Fika, Harold Olson

Using a survey to define interprofessional competency limitations within a VA chiropractic student clerkship
Nathan Hinkeldey, Matthew Knieper

Enuresis and encopresis of a 10-year-old female: a case report
Julie Johnson, Katherine Clark

Innovative engagement of doctor of chiropractic students in extracurricular research
Ward Jones, Stephen Onifer, Randall Sozio, Charles Arends, Charbel Medlej, Austin Webster

Assessing students’ knowledge about caring for patients from diverse cultures
Lisa Killinger

What principles do health care professionals profess? A review of the literature
F. Stuart Kinsinger

Case report of an adult patient with self-reported symptoms of Attention Deficit Hyperactivity Disorder (ADHD) receiving multimodal applied clinical neuroscience care
Eniabitobi Kuyinu, Stephanie Sullivan, Michael Longyear, Emily Drake, Paulett Lawrence

Perceptions of chiropractic students toward their first term in chiropractic college: does educational background influence student perceptions on the difficulty of the academic program?
Raymond Kociolak, Judy Bhatti, Elissa Twist

Outcome measures in public health service programs
Dana Madigan, Haley Doherty
Two sisters with Plagiocephaly accompanied by Torticollis - one treatment with a cranial orthosis (helmet), the other with Sacro Occipital Technique® (SOT) Cranial Therapy: a comparative case report
Keila Nichols

Promoting wellness initiatives on campus with students as the driving force
Tolu Oyelowo, Wei Xia

Plantar plate tear injury: a case study and review of conservative versus surgical management
Mark Pfefer, James Halloran, Rachel Gilmore, Nathan Hoover

Survey of attitudes of doctor of chiropractic interns’ dress and appearance
Mark Pfefer, Alexandra Scavuzzo Jones, Rachel Gilmore, Nathan Hoover, Jackson Berg, Jason Qualls

Lisfranc ligament injury in a 23-year-old female with multimodality imaging
Carrie Santore, Stacey Comelson, Patrick Battaglia, Norman Kettner

Experiences and perspectives of graduating alternate admission track students at Life Chiropractic College West
Norman Strutin, David Straub, Suzanne Ray

A case study of a patient with aqueductal stenosis causing hydrocephalus
Jee Won Suh, James Beadle, Bryan Gatterman

Chiropractic management of acute low back pain in an integrative Veterans Health Administration (VHA) Community Based Outpatient Clinic (CBOC): a case series
Charles Sullivan, Robert Walsh

Fetal heart rate testing of pregnant women under concurrent chiropractic and midwifery care
Allison Union, John Edwards, Joel Alcantara

Perinatal chiropractic care of a woman seeking a trial of labor after cesarean and subsequent vaginal breech birth
Allison Union, John Edwards, Joel Alcantara

Contextual factors effects on patient global rating of change in chiropractic care: a pilot study
Pierre Veau, Mathieu Picchiottino, Caroline Teulier, Arnaud Lardon

Effect of atlas realignment via NUCCA in patients with mTBI and persistent symptoms: two case studies
Noah Volz, Scott Lessard, Chris Woolf, Monica Smith

Specific chiropractic care for acute otitis media in a 10-month-old female
Breanne Wells, Brett Bovee

A comparison of the immediate effects of thoracic spinal manipulative therapy on lung function in healthy subjects, subjects with a history of smoking, and patients with Chronic Obstructive Pulmonary Disease (COPD): a preliminary study
Shari Wynd, John Ward, Aladin Boriek
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**Evaluating and teaching primal movements**

In this workshop, attendees will review seven primal movements and determine ways to more efficiently assess and analyze each pattern. Once able to recognize these inadequacies, attendees will formulate more effective, individualized care plans that truly assist patients in realizing their goals.

*Greg Hollandsworth*

*Vanessa Morales*

**Benefits of teaching orthopedic tests in cluster format in clinic**

With the addition of CCE meta-competency, chiropractic programs are tasked with preparing and assessing each student's ability to demonstrate the knowledge, mechanical principles, and psychomotor skills necessary to safely perform chiropractic adjustment/manipulation. This workshop will explore different emerging strategies for assessment of complex high-velocity, low-amplitude procedures as well as low velocity procedures within our curriculums and collaboratively develop rubrics to assess student performance. Our facilitators will lead exercises and share collective insights to promote participants' abilities to define competence in terms of procedural processes, performance characteristics, and outcome effects and will identify key outcome measures to guide assessment of students throughout the stages of their education as they develop manual skills.

*David Starmer*

*Dana Hollandsworth*

*Eric Russell*

*Jon Wilson*

*Stephen Grande*

*Anna Bartosik*

*Arnaud Lardon*

**Assessing competencies in the performance of spinal manipulation**

This workshop will initiate the development of a clinic orthopedic curriculum for interns to optimize patient care through increased ability to determine differential and final diagnoses. Members of the team will present the development and utilization of a cluster orthopedic tool at a chiropractic teaching clinic, which increased student confidence and diagnosing ability. The workshop will also include a discussion on published manuscripts with the available orthopedic tests laid out by region. After these presentations, a structured discussion with attendees regarding content validity of the cluster orthopedic tool and ways the training in such a tool can be embedded into a chiropractic clinic experience.

*Kristy Carbonelli*

*Davis McAllister*

*Christopher Roecker*

**Innovation in the classroom: making it stick**

Ever wondered how students can seem to know the material, only to perform poorly on later exams and boards? In this workshop, attendees will learn the best and worst study strategies for long-term recall by exploring the science of “successful learning.” Through these teaching and learning best practices, participants will learn to use teaching methods that help students retain knowledge long-term. Further, they can guide students towards more effective study strategies.

*Lisa Killinger*

*Ward Jones*

*Kylie Kuffler*

**Three-year training in chiropractic education and administration culminating in a Chiropractic Education Leadership (CEL) certificate**

Session 2 of 2

Practical Leadership Tools for Chiropractic Education

*Brian McAulay*

Using Bolman and Deal’s four-framing analysis to make optimal decisions in complex organizational environments
<table>
<thead>
<tr>
<th>Time</th>
<th>Location/Meeting</th>
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<tbody>
<tr>
<td>9:00 am</td>
<td>Harborside Ballroom A</td>
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<td>Continental Breakfast</td>
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<td>American Public Health Association – Chiropractic Health Care Section meeting</td>
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<td>All attendees are welcome to join the APHA meeting</td>
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### Scientific Contributed Platform Sessions

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<tr>
<td>CLINICAL</td>
<td>EDUCATION &amp; INTEGRATION</td>
<td>PUBLIC HEALTH</td>
<td>CASE STUDIES</td>
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<td><strong>Moderator:</strong></td>
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<tr>
<td>ARNAUD LARDON</td>
<td>ANDREA HAAN</td>
<td>LISA KILLINGER</td>
<td>PHIL MCMASTER</td>
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</table>

- **Immediate and short-term effect of Biofreeze® versus placebo on acute neck pain and disability**
  - Jay Greenstein, Jena Etnoyer-Slaski, Robert Topp

- **The effect of Theraworx® relief on night time leg cramps and associated symptoms**
  - Jena Etnoyer-Slaski, Robert Topp

- **Effect of Biofreeze®, TheraBand® kinesiology tape, or the combination of products on acute low back pain and disability**
  - Barton Bishop, Jay Greenstein, Jena Etnoyer-Slaski, Robert Topp

- **A scoping review of variables on low level laser light therapy dosage to the efficacy of treatment of neuromusculoskeletal conditions**
  - David Taylor, Shari Wynd, Tyler Winfield

- **A pulsed electromagnetic field therapy device improves low back functions: a pilot randomized controlled trial**
  - Anthony Lisi, Mickey Scheinowitz, Richard Saporito, Anthony Onorato

- **Spinal epidural hematoma in a patient on chronic anticoagulation therapy performing self-neck manipulation: a case presentation**
  - Jesse Cooper, Patrick Battaglia, Todd Reiter

- **Peer-to-peer instruction in a clinical sciences lab**
  - Ramona Houston

- **Informal, hidden, and null curriculum in chiropractic education**
  - Zacariah Shannon, Kara Shannon

- **Perceptions of chiropractic students in years one, two, and three regarding interprofessional health care teams**
  - Matthew Knieper, Judy Bhatti, Elissa Twist

- **A chiropractic and dental perspective the three faces of forward head posture: differential diagnosis is the key for optimal outcomes**
  - Charles Blum

- **Food for thought: a pilot study of the effectiveness of an eating disorder training workshop**
  - Ron Boesch, Misty Stick, Elissa Twist, Dustin Derby, Kimberly Merchant, Stephanie Burrough

- **Interdisciplinary care of a 44-year-old male patient with Obstructive Sleep Apnea (OSA) secondary to a class two division two malocclusion**
  - Richard Gerardo, Charles Blum

- **Is the use of chiropractic care associated with the receipt of opioid prescriptions? A systematic review and meta-analysis**
  - Kelsey Corcoran, Catherine Steffens, Alexandria Brackett, Craig Gunderson, Lori Bastian, Anthony Lisi

- **Recommenations for public health and prevention interventions for common spine disorders in low- and middle-income communities**
  - Bart Green, Claire Johnson, Scott Haldeman, Edward Kane, Michael Clay, Erin Griffith, Juan Castellote, Matthew Smuck, Shanmuganathan Rajasekaran, Eric Hurwitz, Margareta Nordin, Kristi Randhawa, Hainan Yu

- **Public health in North American chiropractic journals: analysis of search results in PubMed®**
  - Claire Johnson, Bart Green, Kent Stuber

- **Inflammation and bone health: a novel approach to osteoporosis management and prevention**
  - Kenice Grand, Stephen Grand

- **Does publication bias exist in chiropractic clinical research listed in clinicaltrials.gov?**
  - Breanne Wells, Dana Lawrence

- **Osteoporosis and osteopenia in premenopausal women: a review of risk factors and management in a chiropractic setting**
  - Stephanie Halloran, Anthony Lisi, Kelsey Corcoran

- **Extracorporeal shockwave therapy for plantar fasciitis: a case report**
  - Kily Tracy, Jonathan Slater, Andrew Johnston

- **Drop foot: a case for enhancing patient outcomes when combining chiropractic and physical therapy intervention**
  - Heather Meeks, Harold Olson, Tiffany McArthur, Courtney Olson

- **Femoral nerve irritation secondary to decreased core stability and paradoxical breathing pattern following adverse reaction to care**
  - Trevor Shaw, Michelle Gingras

- **Pudenal Neuralgia: a case for multimodal chiropractic intervention**
  - Nathan Hinkeldey, Harold Olson, Tiffany McArthur, Kevin Percuoco

- **Eccentric loading used in reducing chronic fascial tear of hamstring in a high school sprinter**
  - Cami Stastny, Melissa Engelson

- **Recovery expectations for apophysitis in year-round, single sport athletes: a case series on Osgood-Schlatter Disease management**
  - Courtney Wells, Melissa Engelson
### Scientific Contributed Platform Sessions

<table>
<thead>
<tr>
<th>Time</th>
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<th>Presenters</th>
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| 10:30 am - 12:00 pm | Harborside Ballroom A | CLINICAL                      | NATHAN HINKELDEY | PROMIS®-29 outcomes of US military personnel with low back pain adaptively allocated to usual medical care alone versus usual medical care plus chiropractic care  
Christine Goertz, Zacariah Shannon, Cynthia Long, Robert Vining, Ron Hays, Karen Spritzer, Ian Coulter  
The predictive relationship between quality of life domains and sense of coherence among chiropractic patients presenting for care in a practice-based research network  
Joel Alcantara, Andrew Whetten, Jeanne Ohm, Joey Alcantara  
Improvements in quality of life of patients undergoing chiropractic care in a practice-based research network  
Joel Alcantara, Andrew Whetten, Jeanne Ohm, Joey Alcantara  
Change in sense of coherence in patients attending chiropractic care in a practice-based research network  
Joel Alcantara, Andrew Whetten, Jeanne Ohm, Joey Alcantara  
Reliability and validity of self-reported disability questionnaires in low back pain population: a systematic review  
Hainan Yu, Riaz Mohammed, Pierre Cote, Anne Taylor-Vaisey, Nadege Lemeunier  
Pre-participation sports cardiac screening: a review  
Mark Pfefer, Jason Qualls, Jon Wilson, Rachel Gilmore, Jackson Berg |
|               | Harborside Ballroom B     | CASE STUDIES                  | KATHLEEN LINAKER | Collaborative management of idiopathic scoliosis: a case study of chiropractic care and vision therapy  
Cynthia Chapman, Barclay Bakkum, Lisa Barker  
The SOT® cranial therapy for the treatment of pediatric torticollis: a chiropractic case report  
Rachel Hamel, Charles Blum  
Case report of an adult with prior concussions utilizing sensory integration therapy with the SAVE program™: a follow-up  
Emily Drake, Angela Seckington, Stephanie Sullivan  
Mal de Debarquement Syndrome an atypical vertigo: a case report  
Thomas Bloink, Charles Blum  
Chiropractic care for a patient suffering a slip and fall craniofacial trauma: a case report  
Thomas Bloink, Charles Blum  
TMJ trauma as a cause of lingual nerve impingement: a case report  
Paul Gold, Nadine Ellul |
|               | Harborside Ballroom C     | EDUCATION                     | BART GREEN      | Implicit bias among doctor of chiropractic students and program faculty  
Jeffrey Baier, Mark Pfefer, Rebecca Wates, D’sjon Thomas  
An evaluation of educational resources in an evidence-informed curriculum: a descriptive study  
Daphne To, Stephanie Alexopulos, Anna Bartosik, David Starmer  
Gender differences in income expectations of doctor of chiropractic students  
Scott Carpenter, Elissa Twist, Judy Bhatti  
Empathy and perceived stress of incoming chiropractic students  
Lia Nightingale  
Evaluating service learning assignment in a doctor of chiropractic program public health course  
Krista Ward, Donna Odierna, Monica Smith  
Academic indicators as predictors of student success  
Fiorella Penaloza, Jon Wilson, Mark Pfefer |
|               | Laurel                    | CASE STUDIES                  | MICHAEL CHIUSANO | Improved performance following glute activation in a CrossFit® athlete  
Trevor Shaw, Adam Sergent  
Hidden in plain sight: a case series of chronic pain improvement with treatment of post-surgical scar  
Kristin Freitas, Nathan Hinkeldey  
Decreased opioid intake utilizing kinesiotape on a comminuted closed clavicle fracture  
Michelle Gingras  
Bilateral hip cam deformity and early onset osteoarthritis  
Daniel Ault, Ashley Ruff, Stacey Cornelson, Aimee Jekerst, Norman Kettner  
Fascial release techniques complement usual Webster care in a patient with persistent fetal malposition  
John Edwards, Allison Union, Joel Alcantara  
Point of care ultrasound in a chiropractic clinic: a case series demonstrating value added  
Patrick Battaglia |
12:00 pm - 1:30 pm – Grand Ballroom VI - X

Lunch – Sponsored by Foot Levelers, Inc.

Announcement of the ACC RAC research paper awards
Scientific paper awards hosted and sponsored by NBCE

1:30 pm - 3:00 pm

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**Screening for social health disparities in the community health setting**

Social Determinants of Health (SDoH) play a critical role in a person’s health status. Non-medical factors such as adequate housing, food security, and health literacy significantly impact a patient’s ability to successfully complete a treatment plan. Many healthcare providers, including most chiropractors, are unaware of these non-medical factors, and very few screen for SDoH disparities. Chiropractors can be part of the solution by implementing proper screening protocols and engaging in care coordination which can reduce these disparities and help achieve better population health.

*Michael Ingui*

**Building pride in healthcare: treating LGBTQ+ patients and students**

Creating a welcoming space for lesbian, gay, bisexual, transgender, queer/questioning, and additional gender, sexual, or romantic identities (LGBTQ+) is a top priority as patient diversity increases across all healthcare settings. This session provides attendees with an overview of LGBTQ+ terminology and identities for increased awareness, particularly in the clinical and academic settings. Attendees will leave with a better understanding of this group’s unique health care needs and will develop a plan for increasing LGBTQ+ support in clinical and academic settings.

*Ashley Long*

*Sierra Jones*

**Team teaching: transforming the classroom through technology and collaboration**

This workshop will discuss and demonstrate the benefits of team teaching in the setting of a doctor of chiropractic life sciences review course. It will detail the construct of the class, the planning involved, and the introduction of a hybrid online format. It will highlight the technology utilized and outcomes noted with institution of changes.

*Siri Leech*

*Michelle Drover*

*Lia Nightingale*

*Christopher Roecker*

**Toward the development of a standardized chiropractic technique program**

Chiropractic is one of the least standardized of all professions, and this lack of standardization may frustrate the development of a unified position statement that clearly defines its cultural authority. It may negatively impact utilization rates. The tremendous degree of variability between chiropractors is a reflection of the variability of different educational models available to students, especially within chiropractic technique programs.

The purpose of the 2019 workshop is to codify a final list of the most appropriate therapeutic procedures that ought to be taught in all chiropractic programs.

*Brian Gleberzon*

*Christopher Good*

*Charles Blum*

**Introduction to case-based learning using clinical nutrition cases**

The primary purpose of this workshop is to demonstrate a case-based approach to teaching modeled after a clinical nutrition lesson that utilizes sample cases in a team-based format. Learners will experience the benefits of case-based learning and be encouraged to translate the skills learned into their own classes.

*Stephen Grand*

*Kenice Grand*

*Mary Balliett*

3:00 pm - 3:30 pm – Grand Ballroom I - V

**Break**
### Grand Rounds

The purpose of this plenary session is to improve the interface between evidence and clinical services via case-based presentations. Faculty will present simulated cases to a panel of attendee clinicians, selected to represent chiropractic practice diversity, who will then describe their recommended management strategies following a structured format. Discussion between faculty, panelists and attendees will address differences in clinical decision making based on clinician expertise, patient preference, and degree of concordance with existing evidence. In the tradition of similar presentations at the American Back Society and North American Spine Society, this session is designed to enhance the uptake of evidence by clinicians, and illustrate the clinical decision-making process for educators who are training the next generation of clinicians.

Three case studies will be presented by an expert panel.

**Moderator:** Anthony Lisi, DC, Director of Chiropractic Services, Veterans Health Administration / Associate Professor of Clinical Sciences, University of Bridgeport College of Chiropractic / Assistant Professor, Yale Center for Medical Informatics

**Panelists:**
- Thomas Souza, DC
- Paul Dougherty, DC
- Rebecca McGill, DC

### Closing Comments

ACC RAC 2020
March 19-21
San Diego, California