

ACC RAC 2019 CONFERENCE SCHEDULE

Baltimore Marriott Waterfront, Baltimore, MD

Fostering Innovation

(updated as of 1/15/19 – check back for further updates)

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

8:00 am - 5:00 pm

ACC Working Group Meetings (closed meetings for ACC working groups)

Presidents –
Admissions/Enrollment –
Assessment and Accreditation –
Chief Academic Officers –
Chief Financial Officers –
Clinic Directors –
Institutional Advancement/Development –
Librarians –
Post Graduate –
Research Directors –
Student Affairs –

6:00 pm - 7:30 pm – Grand Ballroom I - V

Welcome Reception - *Sponsored by Standard Process, Inc.*

All attendees are invited to join

Friday, March 15

7:00 am - 8:00 am – Grand Ballroom I - V

Continental Breakfast

8:00 am - 8:10 a.m. – Grand Ballroom VI – X

Opening Plenary Session

Opening of the ACC RAC 2019 Conference – Introductions and Welcome
Michael Ciolfi, DC – Dean, University of Bridgeport, College of Chiropractic
ACC Vice-Chair

8:10 am - 9:10 am – Grand Ballroom VI – X

Fostering Innovation

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.

Advancing Integrative Health through Research, Education and Clinical Practice

Keynote Speaker: Peter Wayne, PhD, Associate Professor of Medicine, Harvard Medical School / Director of Research, Osher Center for Integrative Medicine

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.

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.

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](#), [Facebook](#), and [YouTube](#)

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.

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-pharma 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.

New research in chiropractic role in whole health and nutrition

John Troup, PhD, Vice President, Clinical Science, Education & Innovation, Standard Process

Dr. Troup is at the cutting edge of research in whole health and nutrition, and will address the latest research. Dr. Troup was Chief Science Officer and President, Metaproteomics Research Division at Metagenics, Inc., and is an internationally recognized leader in the field of nutrition science, health, and wellness. Dr. Troup received his PhD in Nutrition Science and Metabolism from Marquette University, Milwaukee, Wisconsin.

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

Break – Sponsored by VDP International, Inc.

10:30 am - 12:00 pm

Workshops

Essex	Harborside Ballroom A	Harborside Ballroom B	Harborside Ballroom C	Laurel
FACULTY	STANDARD PROCESS	CLINICAL	RESEARCH	LEADERSHIP
<p>Unpacking the social contract: values translation for educators</p> <p>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.</p> <p>F. Stuart Kinsinger Stephen Perle</p>	<p>Pain, inflammation, and nutrition... connecting the dots</p> <p>This workshop examines non-pharma options to the opioid crisis and chronic pain. The workshop will review the latest research on mRNA and chiropractic care of the whole person from an evidenced based perspective. Attendees will learn about the latest options.</p> <p>John Troup</p>	<p>Clinical practice guidelines: impacting patients, providers, payers, and policy makers</p> <p>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.</p> <p>Jay Greenstein</p>	<p>Chiropractic education research capacity: 2019 research agenda update</p> <p>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.</p> <p>Bart Green John Mrozek Michael Wiles</p>	<p>Three-year training in chiropractic education and administration culminating in a Chiropractic Education Leadership (CEL) certificate</p> <p>Session 1 of 2</p> <p>Brian McAulay</p>

12:00 pm - 1:30 pm – Grand Ballroom VI – X

Lunch - Sponsored by NCMIC Insurance Company

Announcement of the Jerry McAndrews Award

1:30 pm - 3:00 pm

Scientific Contributed Platform Sessions

Harborside Ballroom A	Harborside Ballroom B	Harborside Ballroom C	Laurel
CLINICAL	BASIC SCIENCE	INTEGRATION	CASE STUDIES
<i>Moderator:</i> BARCLAY BAKKUM	<i>Moderator:</i> LYNN POWNALL	<i>Moderator:</i> TODD KNUDSEN	<i>Moderator:</i> DANA HOLLANDSWORTH
<p>Reliability and validity of muscular endurance tests in low back pain population: a systematic review</p> <p><i>Arnaud Lardon, Hainan Yu, Pierre Cote, Anne Taylor-Vaisey, Nadege Lemeunier</i></p> <p>Healthcare student knowledge of psychosocial factors associated with low back pain; a narrative review</p> <p><i>Kelsey Lewis, Patrick Battaglia</i></p> <p>Spinal manipulation increases cortical salience network connectivity in cLBP</p> <p><i>Norman Kettner, Vitaly Napadow, Kylie Isenburg, Dan-Mikael Ellingsen, Ekaterina Protsenko, Ishtiaq Mawla, Matthew Kowalski, David Swensen, Deanna O'Dwyer-Swensen, Robert Edwards, Marco Loggia</i></p> <p>A survey of current chiropractic practice for patients with prior lumbar spinal fusion in the United States Department of Veterans Affairs</p> <p><i>Clinton Daniels, Jordan Gliedt, Edward Bednarz, Pradeep Suri, Anthony Lisi</i></p> <p>Forces associated with cervical stairstep technique</p> <p><i>Ned Heese, Mark Pfefer, Jon Wilson, Steve Agocs, Jackson Berg, Rachel Gilmore</i></p> <p>Reliability and validity of neurological tests in low back pain population: a systematic review</p> <p><i>Hainan Yu, Fabrice Mallard, Pierre Cote, Anne Taylor-Vaisey, Nadege Lemeunier</i></p>	<p>Vibratory stimulation of cervical vertebrae modulates the discharge activity of ventral tegmental area neurons and dopamine release in the nucleus accumbens</p> <p><i>Kyle Bills, Scott Steffensen</i></p> <p>Reliability and validity of orthopaedic tests to assess low back pain patients: a systematic and critical review</p> <p><i>Florian Barbier-Cazorla, Hainan Yu, Pierre Cote, Paula Stern, David Cote, Anne TaylorVaisey, Chelsea D'silva, Nadege Lemeunier</i></p> <p>The effects of chiropractic spinal manipulation on the H reflex and muscle strength in children with spastic diplegic cerebral palsy: a feasibility study</p> <p><i>Jenna Salmons, Imran Khan Niazi, Rasmus Wiberg Nedergaard, Kelly Holt, Heidi Haavik, Denise Taylor</i></p> <p>Assessment of hip and shoulder kinematics of a chiropractor during performance of side posture adjustments: data from a pilot study</p> <p><i>Michael Weiner, Brent Russell, Linda Mullin, Edward Owens, Ronald Hosek, Gabriel Kelly</i></p> <p>Changes over time in effective neural connectivity following a chiropractic adjustment</p> <p><i>Stephanie Sullivan, Rebecca Shisler Marshall, Dan tuttle, Emily Drake, Ronald Hosek, Jerry Hochman</i></p>	<p>Factors associated with post-traumatic stress disorder prevalence among veterans of recent wars receiving Veterans Affairs chiropractic care</p> <p><i>Brian Coleman, Kelsey Corcoran, Eric DeRycke, Lori Bastian, Cynthia Brandt, Anthony Lisi</i></p> <p>Chiropractic care for low back pain among Veterans of recent wars receiving Veterans Affairs primary care</p> <p><i>Kelsey Corcoran, Lori Bastian, Eric DeRycke, Cynthia Brandt, Sally Haskell, Anthony Lisi</i></p> <p>A multidisciplinary approach to chronic pain: a pilot of chiropractic inclusion</p> <p><i>Nathan Hinkeldey, Jamie Erixon, Jeffrey Kinderdietz</i></p> <p>Can existing complexity measures be used to assess VA chiropractic resident cases?</p> <p><i>Vivian Ly, Christopher Coulin, Anthony Lisi</i></p> <p>Chiropractic care within medical settings: a scoping review</p> <p><i>Eric Roseen, Aisha Kasali, Kelsey Corcoran, Shweta Pallakkode, Anthony Lisi, Lance Laird, Robert Saper, Andre Bussieres, Roni Evans</i></p> <p>Demographics of patients referred for chiropractic care within one Federally Qualified Health Center (FQHC)</p> <p><i>Ahmad Abdella, Patrick Battaglia</i></p>	<p>Chronic elbow pain management using repetitive end-range loading of the shoulder: a case report</p> <p><i>James Leonard, Nathan Hinkeldey, Trevor McArthur</i></p> <p>Dynamic vascular thoracic outlet syndrome: a case report</p> <p><i>Stacey Cornelson, Forrest Allen, Mero Nunez, Norman Kettner</i></p> <p>A case study in the use of therapeutic laser in wound healing of a pressure ulcer</p> <p><i>Dana Underkofler-Mercer, Emma Minx, Christopher Belics, Benjamin Heasty, Tyler White, Bobby Prichett</i></p> <p>Menstruation, what a headache: a case report</p> <p><i>Morgan Lintz, Nathan Hinkeldey</i></p> <p>Vertebral artery pseudoaneurysm: a case report</p> <p><i>Hiwot Melka, Hector RiveraMelo, Simone Jordan, Henry Hwang, James Whedon</i></p> <p>Auricular acupuncture: a case for using Shen Men as a bridge to movement</p> <p><i>Heather Meeks, Nathan Hinkeldey, Jena Crumpaker</i></p>

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

Break - Sponsored by Performance Health / Biofreeze / Thera Band

3:30 pm - 5:00 pm

Scientific Contributed Platform Sessions

Harborside Ballroom A	Harborside Ballroom B	Harborside Ballroom C	Laurel
THEME	CASE STUDIES	EDUCATION	CLINICAL
Moderator: F. STUART KINSINGER	Moderator: DANA MADIGAN	Moderator: BREANNE WELLS	Moderator: ROGER ENGEL
<p>Step one in the validation of a novel technology algorithm's ability to produce likely low back and neck pain conditions</p> <p><i>Jay Greenstein, Jena Etnoyer-Slaski, John McNulty, Robert Topp</i></p> <p>Therapeutic horticulture for veterans with chronic musculoskeletal pain</p> <p><i>Paul Dougherty, Susan Taylor-Brown</i></p> <p>Does a pipeline program at a CIM university motivate students for a CIM career?</p> <p><i>Tolu Oyelowo</i></p> <p>Herbal topical analgesics: an alternative tool for the management of chronic neuromusculoskeletal pain and inflammation</p> <p><i>Stephen Grand, Kenice Grand</i></p> <p>Chiropractic practice in the continent of Africa</p> <p><i>Hiwot Melka, Robb Russell, James Whedon, Scott Haldeman</i></p> <p>A real pain in the groin: a case series of chronic pain following surgical hernia repair</p> <p><i>Jena Crumppacker, Nathan Hinkeldey, Heather Meeks, Kristin Freitas</i></p>	<p>Conservative chiropractic care for a post-traumatically induced C6/7 intraforaminal disc herniation in a 43-year-old female</p> <p><i>Jeffrey Mersky, Charles Blum, Richard Gerardo</i></p> <p>Chiropractic co-management of two patients with low back pain and bullets in or near the spine</p> <p><i>Ross Mattox</i></p> <p>Anatomic variation of the sciatic nerve utilizing sonography</p> <p><i>Stacey Cornelson, Norman Kettner</i></p> <p>Spinal manipulation for complicated spinal conditions: a case series on cervical spinal canal stenosis</p> <p><i>Alec Schielke</i></p> <p>Traumatic spondylolisthesis at L5-S1</p> <p><i>Lauren Tollefson, John Chin-Suk Cho</i></p> <p>Neural arch bone marrow edema and spondylolysis in adolescent cheerleaders: a case series</p> <p><i>Ashley Ruff, Stacey Cornelson, Courtney Wells, Norman Kettner</i></p>	<p>Chiropractic student and new graduate perception of institution versus community based clinical education experience</p> <p><i>Navine Haworth, Keri Moore, Louise Hostmanshof</i></p> <p>Chiropractic student attitudes, skills, and knowledge of evidence-based practice: EBASE survey tailored to students in preclinical and clinical chiropractic training</p> <p><i>Sergio Fernando, Joel Alcantara</i></p> <p>Integrating clinical nutrition into chiropractic college clinics - obstacles and opportunities</p> <p><i>Marina Rose</i></p> <p>The quality of life and patient satisfaction of pregnant patients under care in a chiropractic teaching clinic: a prospective case series</p> <p><i>Sarah Hock, Joel Alcantara</i></p> <p>The use of force sensing table technology™ to instruct and evaluate students and clinicians in performing spinal manipulative therapy</p> <p><i>Shari Wynd, Brad Koby, Michael Sheppard, John Mrozek</i></p> <p>Mechanical properties of a thoracic spine mannequin with variable stiffness control</p> <p><i>Edward Owens, Ronald Hosek, Brent Russell</i></p>	<p>Sonography of asymptomatic ulnar nerve instability</p> <p><i>Norman Kettner, Federico Villafane, Stacey Cornelson, Roberta Sclocco</i></p> <p>Acute impact of cervical spine manipulation on isometric handgrip strength of participants with neck pain</p> <p><i>John Ward, Jesse Coats</i></p> <p>Photogrammetric investigation of sagittal pelvic alignment and potential influencing factors during the third trimester of pregnancy</p> <p><i>John Edwards, Allison Union, Joel Alcantara</i></p> <p>Prone straight leg raise: a proposed functional measure of sacroiliac joint range of motion</p> <p><i>Robert Walsh, Aidan O'Brien, Molly Timmerman, Alec Schielke</i></p> <p>Manual interventions for musculoskeletal factors in infants with suboptimal breastfeeding: a scoping review</p> <p><i>Cheryl Hawk, Amy Minkalis, Carol Webb, Olivia Hogan, Sharon Vallone</i></p> <p>The Gillet Test: does it detect sacroiliac motion, or asymmetric one-legged stance patterns?</p> <p><i>Felisha Truong, Robert Cooperstein</i></p>

Reception and Scientific Contributed Poster Presentations
Sponsored by

Meet and mingle with other scientific researchers, educators, clinical practitioners and leaders in the profession. All attendees invited to attend the poster presentation reception.

Posters listed in alphabetical order (last name of first author).

Improved cranial nerve sensation in a patient with occipital neuralgia with scar mobilization
Devon Ackroyd

A case of flexor carpi radialis tenosynovitis mimicking Carpal Tunnel Syndrome diagnosed by diagnostic ultrasound
Ahmad Abdella, Patrick Battaglia

Perceptions of safety culture in chiropractic
Joel Alcantara

The predictive relationship of quality of life domains to sense of coherence subdomains
Joel Alcantara, Andrew Whetten

The prevalence of adverse events, effectiveness rating, and satisfaction of patients attending chiropractic care in a practice-based research network
Joel Alcantara, Jeanne Ohm, Joey Alcantara

Improvements in quality of life of chiropractic patients following a course of care in a practice-based research network
Joey Alcantara, Jeanne Ohm, Joel Alcantara

A rare presentation of old Osgood-Schlatter Disease and old Sinding-Larsen-Johansson Disease in the same knee with contralateral acute patellar tendon rupture
Alejandro Aponte

Chiropractic care of professional hockey player suffering from multiple concussions: a case report
Thomas Bloink, Charles Blum

A survey of chiropractic students or recent graduates on their experiences in chiropractic college adjusting lab or class
Charles Blum, John Lin

Cranial therapeutic applications to facilitate dentofacial growth and development of a 50-year-old adult female: a case report
Charles Blum

Intervention in tachycardia through chiropractic adjustment, Sacro Occipital Technique's chiropractic manipulative reflex technique: a case report
William Boro

Intervention in gall bladder dysfunction through chiropractic adjustment and nutritional therapy: a case report
William Boro, Mary Psaromatis

Reduced opioid use through chiropractic care subsequent to failed low back surgery
Diane Clark, Donald LeBlanc

Sonography of gluteal muscles and sciatic nerve in a 37-year-old with chronic spinal cord injury
Stacey Cornelson, Devon Ackroyd, Norman Kettner

Sonography of the trunk and lower extremity muscles in Duchenne's Muscular Dystrophy
Stacey Cornelson, Ashley Ruff, Muriel Perrilat, Norman Kettner

Sacral neural stimulator mimics low back pain after fall
Joanne Eash

The chiropractic care of a multiparous female with a history of chronic breech and fetal malposition
John Edwards, Allison Union, Joel Alcantara

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 Kociolek, 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 Cornelson, 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

Workshops

Essex	Harborside Ballroom A	Harborside Ballroom B	Harborside Ballroom C	Laurel
Workshop	Workshop	Workshop	Workshop	Workshop
CLINICAL	FACULTY	FACULTY	FACULTY	LEADERSHIP
<p>Evaluating and teaching primal movements</p> <p>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.</p> <p>Greg Hollandsworth Vanessa Morales</p>	<p>Assessing competencies in the performance of spinal manipulation</p> <p>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.</p> <p>David Starmer Dana Hollandsworth Eric Russell Jon Wilson Stephen Grande Anna Bartosik Arnaud Lardon</p>	<p>Benefits of teaching orthopedic tests in cluster format in clinic</p> <p>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.</p> <p>Kristy Carbonelli Davis McAlister Christopher Roecker</p>	<p>Innovation in the classroom: making it stick</p> <p>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.</p> <p>Lisa Killinger Ward Jones Kylie Kuffler</p>	<p>Three-year training in chiropractic education and administration culminating in a Chiropractic Education Leadership (CEL) certificate</p> <p>Session 2 of 2</p> <p>Brian McAulay</p>

Saturday, March 16

7:00 am - 7:50 am – Grand Ballroom I -V			
Continental Breakfast			
American Public Health Association – Chiropractic Health Care Section meeting All attendees are welcome to join the APHA meeting			
8:00 am - 9:30 am			
Scientific Contributed Platform Sessions			
Harborside Ballroom A	Harborside Ballroom B	Harborside Ballroom C	Laurel
CLINICAL	EDUCATION & INTEGRATION	PUBLIC HEALTH	CASE STUDIES
<i>Moderator:</i> ARNAUD LARDON	<i>Moderator:</i> ANDREA HAAN	<i>Moderator:</i> LISA KILLINGER	<i>Moderator:</i> PHIL MCMASTER
<p>Immediate and short-term effect of Biofreeze® versus placebo on acute neck pain and disability</p> <p><i>Jay Greenstein, Jena Etnoyer-Slaski, Robert Topp</i></p> <p>The effect of Theraworx® relief on night time leg cramps and associated symptoms</p> <p><i>Jena Etnoyer-Slaski, Robert Topp</i></p> <p>Effect of Biofreeze®, TheraBand® kinesiology tape, or the combination of products on acute low back pain and disability</p> <p><i>Barton Bishop, Jay Greenstein, Jena Etnoyer-Slaski, Robert Topp</i></p> <p>A scoping review of variables on low level laser light therapy dosage to the efficacy of treatment of neuromusculoskeletal conditions</p> <p><i>David Taylor, Shari Wynd, Tyler Winfield</i></p> <p>A pulsed electromagnetic field therapy device improves low back functions: a pilot randomized controlled trial</p> <p><i>Anthony Lisi, Mickey Scheinowitz, Richard Saporito, Anthony Onorato</i></p> <p>Spinal epidural hematoma in a patient on chronic anticoagulation therapy performing self-neck manipulation: a case presentation</p> <p><i>Jesse Cooper, Patrick Battaglia, Todd Reiter</i></p>	<p>Peer-to-peer instruction in a clinical sciences lab</p> <p><i>Ramona Houston</i></p> <p>Informal, hidden, and null curriculum in chiropractic education</p> <p><i>Zacariah Shannon, Kara Shannon</i></p> <p>Perceptions of chiropractic students in years one, two, and three regarding interprofessional health care teams</p> <p><i>Matthew Knieper, Judy Bhatti, Elissa Twist</i></p> <p>A chiropractic and dental perspective the three faces of forward head posture: differential diagnosis is the key for optimal outcomes</p> <p><i>Charles Blum</i></p> <p>Food for thought: a pilot study of the effectiveness of an eating disorder training workshop</p> <p><i>Ron Boesch, Misty Stick, Elissa Twist, Dustin Derby, Kimberly Merchant, Stephanie Burrough</i></p> <p>Interdisciplinary care of a 44-year-old male patient with Obstructive Sleep Apnea (OSA) secondary to a class two division two malocclusion</p> <p><i>Richard Gerardo, Charles Blum</i></p>	<p>Is the use of chiropractic care associated with the receipt of opioid prescriptions? A systematic review and meta-analysis</p> <p><i>Kelsey Corcoran, Catherine Steffens, Alexandria Brackett, Craig Gunderson, Lori Bastian, Anthony Lisi</i></p> <p>Recommendations for public health and prevention interventions for common spine disorders in low- and middle-income communities</p> <p><i>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</i></p> <p>Public health in North American chiropractic journals: analysis of search results in PubMed®</p> <p><i>Claire Johnson, Bart Green, Kent Stuber</i></p> <p>Inflammation and bone health: a novel approach to osteoporosis management and prevention</p> <p><i>Kenice Grand, Stephen Grand</i></p> <p>Does publication bias exist in chiropractic clinical research listed in clinicaltrials.gov?</p> <p><i>Breanne Wells, Dana Lawrence</i></p> <p>Osteoporosis and osteopenia in premenopausal women: a review of risk factors and management in a chiropractic setting</p> <p><i>Stephanie Halloran, Anthony Lisi, Kelsey Corcoran</i></p>	<p>Extracorporeal shockwave therapy for plantar fasciitis: a case report</p> <p><i>Kily Tracy, Jonathan Slater, Andrew Johnston</i></p> <p>Drop foot: a case for enhancing patient outcomes when combining chiropractic and physical therapy intervention</p> <p><i>Heather Meeks, Harold Olson, Tiffanee McArthur, Courtney Olson</i></p> <p>Femoral nerve irritation secondary to decreased core stability and paradoxical breathing pattern following adverse reaction to care</p> <p><i>Trevor Shaw, Michelle Gingras</i></p> <p>Pudendal Neuralgia: a case for multimodal chiropractic intervention</p> <p><i>Nathan Hinkeldey, Harold Olson, Tiffanee McArthur, Kevin Percuoco</i></p> <p>Eccentric loading used in reducing chronic fascial tear of hamstring in a high school sprinter</p> <p><i>Cami Stastny, Melissa Engelson</i></p> <p>Recovery expectations for apophysitis in year-round, single sport athletes: a case series on Osgood-Schlatter Disease management</p> <p><i>Courtney Wells, Melissa Engelson</i></p>

9:30 am - 10:30 am – Grand Ballroom I - V

Scientific Contributed Poster Session & Break – Sponsored by Visual Outcomes

-See previous listing

10:30 am - 12:00 pm

Scientific Contributed Platform Sessions

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

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

Workshops

Essex	Harborside Ballroom A	Harborside Ballroom B	Harborside Ballroom C	Laurel
Workshop	Workshop	Workshop	Workshop	Workshop
CLINICAL	FACULTY	ADMINISTRATION	FACULTY	FACULTY
<p>Screening for social health disparities in the community health setting</p> <p>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.</p> <p>Michael Ingui</p>	<p>Building pride in healthcare: treating LGBTQ+ patients and students</p> <p>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.</p> <p>Ashley Long Sierra Jones</p>	<p>Team teaching: transforming the classroom through technology and collaboration</p> <p>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.</p> <p>Siri Leech Michelle Drover Lia Nightingale Christopher Roecker</p>	<p>Toward the development of a standardized chiropractic technique program</p> <p>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.</p> <p>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.</p> <p>Brian Gleberzon Christopher Good Charles Blum</p>	<p>Introduction to case-based learning using clinical nutrition cases</p> <p>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.</p> <p>Stephen Grand Kenice Grand Mary Balliett</p>

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

Break – Sponsored by

3:30 pm - 5:00 pm – Grand Ballroom VI - X

Closing Plenary

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

Panelist:

Panelist:

Panelist:

Panelist:

5:00 pm - 5:15 pm – Crystal Ballroom VI - X

Closing Comments

**ACC RAC 2020
March 19-21
San Diego, California**