

Research and Scholarship

ACC-RAC 2023 Conference Accepted Submissions

Respectfully submitted by Dean of Research, Norman W. Kettner, DC, DACBR, FICC

ACC-RAC 2023 Conference Report Summary: ACC-RAC accepted work were received from faculty, previous faculty, residents and fellows, alumni, adjunct-faculty, staff, administration, VA Residency, and students in departments representing both colleges on campus and other research collaborations.

29th Annual Association of Chiropractic Colleges Research Agenda Conference (ACCRAC)

Sheraton New Orleans Hotel

500 Canal Street

New Orleans, LA 70130

USA

March 23-25, 2023

Platform Presentations

1. Janelle Hynes¹, Norman Kettner^{2,3}

¹ Logan University, Student, Doctor of Chiropractic, Chesterfield, MO, USA; ²Logan University, Department of Radiology, Chesterfield, MO, USA; ³Logan University, Research Department, Chesterfield, MO, USA

 functional MRI brain mapping of manual therapy in chronic low back pain: A narrative review
2. Erika Evans-Roland, DC¹; Norman Kettner, DC, DACBR, FICC²⁻³; Matthew F. Gornet, MD⁴; Douglas P. Beall, MD⁵; Timothy T. Davis, MD⁶; Domagoj Coric, MD⁷; Michael LaBagnara, MD⁸; Angela Krull, MD⁹; Michael J. DePalma, MD¹⁰; Patrick C. Hsieh, MD¹¹; Srinivas Mallempati, MD¹²; Kevin T. Foley, MD, FACS¹³

¹Logan University Health Centers, Chesterfield, MO, USA; ²Logan University, Department of Radiology, Chesterfield, MO; ³Logan University, Research Department, Chesterfield, MO; ⁴The Orthopedic Center of St. Louis, Town and Country, MO, USA; ⁵Oklahoma Spine Hospital; Oklahoma City, OK, USA; ⁶Orthopedic Pain Specialists, Santa Monica, CA, USA; ⁷Carolina Neurosurgery

and Spine Associates, Greensboro, SC, USA; ⁸Semmes-Murphey Clinic Memphis, Memphis, TN, USA; ⁹Lone Peak Surgery Center, Draper, UT, USA; ¹⁰Virginia iSpine Physicians, Richmond, VA, USA; ¹¹Keck Medicine of University of Southern California, Pasadena, CA, USA; ¹²Alabama Ortho Spine/Sports Med, Birmingham, AL, USA; ¹³University of Tennessee Health Science Center in Memphis, TN, USA

Disc Progenitor Cell Therapy Improves Pain, Disability, and Quality of Life for Patients with Lumbar Disc Degeneration—Results of an FDA-Approved Clinical Trial

3. Kristin Miller¹, Patrick Boylan², Norman Kettner^{3,4}, Katie Pohlman⁵

¹Student, Doctor of Chiropractic, Logan University, Chesterfield, MO, USA; ²Clinician, Logan University, Montgomery Health Center, Chesterfield, MO, USA; ³Department of Radiology, Logan University, Chesterfield, MO, USA; ⁴Research Department, Logan University, Chesterfield, MO, USA; ⁵Parker University, Dallas, TX, USA

Bridging the gap between biomedical and biopsychosocial models in chiropractic teaching clinic series of targeted educational interventions

4. Alec Schielke¹, Clinton Daniels², Katherine Pohlman³, Jordon Gliedt^{4,5}

¹VA Palo Alto Health Care System, San Jose, CA, USA; ²VA Puget Sound Health Care System, Tacoma, WA, USA; ³Parker University, Dallas, TX; ⁴Assistant Professor, Neurosurgery, The Froedtert & the Medical College of Wisconsin, Milwaukee, WI, USA; ⁵Adjunct-Faculty, Research Department, Logan University, Chesterfield, MO, USA

Assessment of back pain behaviors, attitudes, and beliefs of chiropractor after a biopsychosocial educational workshop

5. Aidan O'Brien¹, Jessica Billham¹, Ashley Vogt², Norman Kettner^{1,3}

¹Logan University, Department of Radiology, Chesterfield, MO, USA; ²Logan University Health Centers, Chesterfield, MO, USA; ³Logan University, Research Department, Chesterfield, MO, USA

	Spindle cell sarcoma of bone: A rare bone sarcoma presenting in a rare age group
6.	<p>Allison Harvey¹, Erika Evans Roland¹, Jessica Billham²</p> <p>¹Logan University Health Centers, Chesterfield, MO, USA; ²Logan University, Department of Radiology, Chesterfield, MO, USA</p> <p>Rare mosaic trisomy 17 in a preadolescent female: Clinical Presentation and management of symptoms</p>
7.	<p>Macy Randolph¹, Dingo Shi², Patricia Estrada¹, Norman Kettner^{2,3}</p> <p>¹Logan University Health Centers, Chesterfield, MO, USA; ²Logan University, Department of Radiology, Chesterfield, MO, USA; ³Logan University, Research Department, Chesterfield, MO, USA</p> <p>Neurogenic Heterotopic Ossification Following Spinal Cord Injury: A Case Report.</p>
8.	<p>Jessica Billham¹, Erika Evans Roland², Francine Schranck³, Kelly Brinkman⁴, Matthew Gornet⁵, Jim Cox⁶, Norman Kettner^{1,7}</p> <p>¹Logan University, Department of Radiology, Chesterfield, MO, USA; ²Logan University Health Centers, Chesterfield, MO; ³Spiritt Research, St. Louis, MO, USA; ⁴Faculty, Logan University, Chesterfield, MO; ⁵The Orthopedic Center of St. Louis, Town and Country, MO, USA; ⁶Private Practice, Fort Wayne, IN, USA; ⁷Logan University, Research Department, Chesterfield, MO</p> <p>Magnetic resonance spectroscopy displays the structural and biochemical effects of spinal manipulative therapy in lumbar discogenic pain: a case report</p>
9.	<p>Patrick Boylan¹, Jessica Billham²</p> <p>¹Logan University Health Centers, Chesterfield, MO, USA; ²Logan University, Department of Radiology, Chesterfield, MO, USA</p> <p>Diagnosis and management of Saturday night palsy in a chiropractic teaching clinic: A case report</p>

10.	Patrick Battaglia ¹ , Macy Randolph ¹ ¹ Logan University Health Centers, Chesterfield, MO, USA A case report of a patient with bilateral shoulder pain secondary to statin-induced myopathy
11.	Casey Mullen ¹ , Kelsey Lewis ¹ ¹ Logan University Health Centers, Chesterfield, MO, USA When hip pain is septic: A case report
12.	Patricia Estrada ¹ , Norman Kettner ^{2,3} , Dana Underkofler-Mercer ¹ ¹ Logan University Health Centers, Chesterfield, MO, USA; ² Logan University, Department of Radiology, Chesterfield, MO, USA; ³ Logan University, Research Department, Chesterfield, MO, USA The beneficial effects of laser IV therapy (photobiomodulation) on grade I-III pressure wounds in a chronic quadriplegic patient
13.	Baldomero Nunez ¹ ¹ Logan University Health Centers, Chesterfield, MO, USA Conservative treatment for Achilles enthesopathy/plantar fasciitis
14.	Bernadette Sheffield ¹ , Patrick Battaglia ¹ ¹ Logan University Health Centers, Chesterfield, MO, USA Fully integrated chiropractic and occupational therapy co-management of a patient with chronic pain and carpal tunnel syndrome

Poster Presentations

- 1.** Kelly Brinkman¹

¹Logan University, Faculty, College of Chiropractic, Chesterfield, MO, USA

Illness scripts: A tool for teaching clinical reasoning in a chiropractic curriculum
- 2.** Anna-Marie Ziegler¹, Jason Napuli^{1,2}, Matthew Knieper^{1,2}, Ross Mattox^{1,2}

¹ Whole Health Chiropractic Physician, U.S. Department of Veterans Affairs, St. Louis, MO, USA, ²Logan University, Adjunct Faculty, Chesterfield, MO

Survey of attitudes towards interprofessional education and practice
- 3.** Zachary Cupler¹, Jordan Gliedt^{2,3}, Stephen Perle⁴, Aaron Puhl⁵, Michael Schneider⁶

¹Butler VA Health Care System, Butler, PA, USA; ²Assistant Professor, Neurosurgery, The Froedtert & the Medical College of Wisconsin, Milwaukee, WI, USA; ³Adjunct-Faculty, Research Department, Logan University, Chesterfield, MO, USA; ⁴University of Bridgeport College of Chiropractic, Bridgeport, CT, USA; ⁵Private Practice, Alberta, Canada; ⁶University of Pittsburgh | Pitt · School of Health and Rehabilitation Sciences, Pittsburgh, PA, USA

Association between ideology, beliefs, and practice patterns of United States chiropractors: a secondary analysis of a national survey
- 4.** Morgan Price¹, Kaelyn Mead², Alyssa Troutner³, Tyler Barton⁴, Sheryl Walters⁵, Clinton Daniels⁶

¹VA Puget Sound Health Care System, Seattle, WA, USA; ²Private Practice, Guilford, CT, USA; ³Private Practice, Canandaigua, NY; USA; ⁴U.S. Department of Veterans Affairs, Buffalo, NY, USA; ⁵Logan University, Faculty, College of Chiropractic, Chesterfield, MO, USA ⁶VA Puget Sound Health Care System, Tacoma, WA, USA

Systematic review of guideline-recommended medications prescribed for treatment of lumbosacral radiculopathy

<p>5.</p>	<p>Aidan O'Brien¹, Stacey Cornelson², Norman Kettner^{1,3}</p> <p>¹Logan University, Department of Radiology, Chesterfield, MO, USA; ²Private Practice, USA; ³Logan University, Research Department, Chesterfield, MO, USA</p> <p>Current approaches to understanding discogenic pain: A narrative review encompassing pathoanatomy and innovative imaging techniques</p>
<p>6.</p>	<p>Jessica Billham¹, Jesse Politowski², Erika Evans Roland², Dingbo Shi¹, Norman Kettner^{1,3}</p> <p>¹Logan University, Department of Radiology, Chesterfield, MO, USA; ²Logan University Health Centers, Chesterfield, MO, USA; ³Logan University, Research Department, Chesterfield, MO, USA</p> <p>Characterizing interspinous excursion with diagnostic ultrasonography in 2 cases of degenerative spondylolisthesis with intersegmental hypermobility: A novel case report</p>
<p>7.</p>	<p>Yuan Gao¹, Jessica Billham², Norman W. Kettner^{2,3}</p> <p>¹Logan University, Faculty, College of Chiropractic, Chesterfield, MO, USA; ²Logan University, Department of Radiology, Chesterfield, MO, USA; ³Logan University, Research Department, Chesterfield, MO, USA</p> <p>Anatomical variation of the cervical sympathetic trunk: A case report</p>
<p>8.</p>	<p>Edward Johnnie¹</p> <p>¹Logan University Health Centers, Chesterfield, MO, USA</p> <p>Management of lumbar disc herniation in a 56-year-old male utilizing Cox technic distraction manipulation</p>
<p>9.</p>	<p>Amy Koch¹</p> <p>¹Logan University Health Centers, Chesterfield, MO, USA</p>

	Chiropractic manipulative treatment to improve lower extremity function in elderly patient: A case study
10.	<p>Kelsey Lewis¹, Jordan Mackner²</p> <p>¹Logan University Health Centers, Chesterfield, MO, USA; ²STLCare, St. Louis, MO, USA</p> <p>Diagnosis and management of progressive neurological deficits in a young male patient presenting for evaluation by a chiropractor within a Federally Qualified Health Center</p>
11.	<p>Dingbo Shi¹, Jessica Billham¹, Tyler Specht², Norman Kettner^{1,3}</p> <p>¹Logan University, Department of Radiology, Chesterfield, MO, USA; ²Private Practice, Chesterfield MO, USA; ³Logan University, Research Department, Chesterfield, MO, USA</p> <p>Ultrasonography for diagnosis of distal biceps tendinosis: A case report</p>
12.	<p>Ashley Vogt¹</p> <p>¹Logan University Health Centers, Chesterfield, MO, USA</p> <p>Chronic foot pain complicated by post-surgical and degenerative changes: A case report emphasizing value of extracorporeal pulse activation technology and class IV laser</p>

Workshops Proposals still pending.....

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