

# Dennis E. Enix, MBA, DC

## Curriculum Vitae

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### EDUCATION AND TRAINING:

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2004 – 2009	A.C.R.B.	Fellowship, Rehabilitation Science (Level 1 certification) American College of Chiropractic Rehabilitation <i>Southern California University of Health Sciences</i> Whittier, CA
1999 – 2000	C.C.S.P.	Certified Chiropractic Sports Physician program American Chiropractic Board of Sports Physicians <i>Logan University</i> - Chesterfield, Missouri
2004 – 2006	M.B.A.	Master's Degree Business Administration <i>Webster University</i> - St. Louis, MO
1992 – 1996	D.C.	Doctor of Chiropractic <i>Logan University</i> - Chesterfield, MO
1992	B.A.	Bachelor of Arts Degree, Psychology <i>University of the State of New York</i> - Albany, NY
1987 – 1991		Engineering <i>University of South Florida</i> -Tampa, FL
1984 – 1986	A.A.	Associate of Arts Degree, Engineering <i>Hillsborough Community College</i> -Tampa, FL

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### BOARD CERTIFICATION AND LICENSURE:

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1995	National Board of Chiropractic Examiners, Certificate of Attainment # 5677
1995	Missouri Board of Chiropractic Examiners; License # 006480
1997	North Carolina Board of Chiropractic Examiners License # 2519
2000	Certified Chiropractic Sports Physician (Board eligible)
2001	American Chiropractic College of Rehabilitation Science Level 1 Certification
2009	Diplomate American Chiropractic Rehabilitation Board (Board eligible)

## **SPECIALTY / SUBSPECIALTY TRAINING AND CERTIFICATION:**

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- 2013 Protecting Human Research Participants Training certification  
U.S. Department of Health & Human Services  
National Institutes of Health, Office of Extramural Research
  
- 2009 Federal Grant reviewer Training  
U.S. Department of Health & Human Services,  
NIH, Health Resources & Services Administration
  
- 2009 Human Subject Assurance Training  
U.S. Department of Health & Human Services  
The Office for Human Research Protections (OHRP)
  
- 2009 Information Security 201 for Research & Development Personnel certification  
U.S. Department of Veterans Affairs
  
- 2009 Information Security Awareness training  
U.S. Department of Veterans Affairs
  
- 2009 Privacy Policy Web training  
U.S. Department of Veterans Affairs
  
- 2009 Human Subjects Protection & Good Clinical Practices Certificate  
U.S. Department of Veterans Affairs
  
- 2009 ORD Biosecurity Training, Basic Certificate  
U.S. Department of Veterans Affairs
  
- 2009 Biomedical Research Investigators & Key Personnel Certificate  
Saint Louis University, Office of Research Integrity
  
- 2009 Responsible Conduct of Research Course  
Saint Louis University, Office of Research Integrity
  
- 2008 Clinical Research Training Certification  
U.S. Department of Health & Human Services,  
National Institute of Health
  
- 2006 Human Participant Protection Education Research Training Certification  
U.S. Department of Health & Human Services,  
National Institute of Health
  
- 2006 NIH Institutional Review Board training Certification  
U.S. Department of Health & Human Services,  
National Institute of Health
  
- 1996 Radiology Technique & Analysis Certification  
Logan University

- 1995 Physiologic Therapeutics Certification  
Logan University
- 1996 Senior Intern  
Logan University
- 1987 Military Packaging and Packing Engineering Certification  
United States Army Logistics Management College  
Aberdeen Proving Ground, Maryland

#### **POSTGRADUATE COURSES:**

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- 2018 Qualitative Methods  
University of Amsterdam Coursera course
- 2016 Understanding Clinical Research: Behind the Statistics  
University of Cape Town Coursera course
- 2014 Data Management for Clinical Research  
Vanderbilt University Coursera course
- 2011 Fundamentals of Evidence-Based Medicine  
North American Spine Society

#### **ACADEMIC APPOINTMENTS:**

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2017 – 2019	Division of Research Logan University Chesterfield, MO	Professor of Research
2011 – 2017	Department of Research Logan University Chesterfield, MO	Associate Professor of Research
2014 – 2015	Division of Research Logan University Saint Louis, MO	Project Director - Boeing F-18 Super Hornet manufacturing ergonomics evaluation study
2009 – 2013	Division of Research Logan University Chesterfield, MO	Program Director – Geriatric Balance Research
2009 – 2012	Division of Geriatrics Saint Louis University School of Medicine Saint Louis, MO	Academic Researcher
2009 -2011	U.S. Dept. of Veterans Affairs Hospital Geriatric Research, Education & Clinical Center Saint Louis, MO	Research Associate

2008 – 2011	Division of Research Logan University Chesterfield, MO	Assistant Professor of Research
2005 – 2008	Division of Research Logan University Chesterfield, MO	Instructor
2005 – 2007	College of Arts & Sciences Maryville University Town & Country, MO	Adjunct Instructor of Anatomy & Physiology
2004 – 2005	University Outpatient Clinic Logan University Chesterfield, MO	Clinical Instructor

#### **NON-ACADEMIC POSITIONS:**

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2017 – current	Journal Academic Editor - <i>Medicine</i> (Wolters Kluwer Health) Philadelphia, PA
2011 – current	Evidence-based Guideline Development Committee North American Spine Society Burr Ridge, IL
1996 – 2004	Chiropractic Physician Private Practice Ballwin, MO
1988 – 1990	Manufacturing Engineering Group Technologies Corporation Tampa, FL
1983 – 1988	Manufacturing Engineering Honeywell Industries, Aerospace & Defense Group Tampa, FL

#### **TEACHING EXPERIENCE**

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##### **Instructor - Logan University, Chesterfield, MO**

2017 – 2018	Clinical Methods I
2016 – 2019	Research Methodology
2016 – 2019	Information Literacy I
2016 – 2019	Information Literacy II
2006 – 2010	Research Methodology – lecturer
2006 – 2011	Conservative management of scoliosis – lecturer
2006 – 2008	Professional Development – lecturer
2006 – 2008	Introduction to computerized spinal motion analysis
2005 – 2007	Specialized manipulative technique - Post graduate seminars

2004 – 2005 Clinic instruction for 3<sup>rd</sup> and 4<sup>th</sup> year Clinical Rotations

**Adjunct Instructor - Maryville University, Town and Country, MO**

2004 – 2006 Anatomy and Physiology I

2004 – 2006 Anatomy and Physiology II

**Invited Lecturer**

2015 Ponce Health Sciences University Medical School, Ponce, Puerto Rico  
“Spinal manipulation and physical therapy for chronic low back pain and balance problems in community dwelling older adult”

2010 Washington University School of Medicine, Saint Louis, MO  
“Evidence-based Complementary and Alternative Medicine”

**ACADEMIC DEPARTMENTAL APPOINTMENTS:**

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2015 – 2019 Research Advisory Committee  
Logan University

2015 -2019 University Library Resource Journal Committee  
Logan University

2014 – 2015 Project Director for Boeing Ergonomics study  
Ergonomic evaluation of Boeing F-18 manufacturing procedures

2013 – 2015 University Faculty Council Executive Committee  
Logan University

2013 – 2015 University Faculty Council Treasurer  
Logan University

2013 Thesis Committee for Mechanical Engineering master's degree (ad hoc)  
University of Missouri, Mechanical & Aerospace Engineering Dept.

2011 - 2016 University Institutional Review Board  
Logan University

2011 Thesis Committee for Masters degree in nutrition  
Logan University

2010 – 2015 Senior Research Committee for graduate student research  
Logan University

2009 – 2013 Facility Advisor, Instrumented specialized technique student organization  
Logan University.

## SCHOLASTIC HONORS & AWARDS

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- 2016 1st Prize original research. “*A randomized controlled trial of chiropractic and physical therapy for balance impairments and chronic low back pain in community dwelling geriatric patients.*” 9th Interdisciplinary World Congress on Low Back & Pelvic Pain research award winning .
- 2013 Logan University Alumni of the Year Award
- 2013 Basic Science award winning paper, North American Region. “*Proprioceptive neurons in the cervical myodural bridge: a feed-forward mechanism of dural tension monitoring.*” World Federation of Chiropractic conference.
- 2013 Certificate of Appreciation for PM&R journal peer review.
- 2012 Sigma Xi, The Scientific Research Honor Society.
- 2012 Basic Science award winning paper. “*Non-uniform compression of sacral cartilage during angular rotation.*” Association of Chiropractic Colleges-Research Agenda for Chiropractic annual conference
- 2009 Basic Science award winning paper. “*The effects of manipulation on eccentric and concentric motion of the ilium around the sacrum.*” Association of Chiropractic Colleges-Research Agenda for Chiropractic annual conference
- 2008 Who’s who in Medicine and Healthcare.
- 1987 Honeywell Aerospace & Defense Group Manufacturing Cost Reduction Award.

## EDITORIAL ACTIVITIES:

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<u>Position</u>	<u>Journal</u>	<u>Appointment Date</u>
Academic Editor	Medicine	2017
Editorial Board	SpineLine, Journal of North American Spine Society	2012
Editorial Board	Topics in Integrative Health Care	2010
Editorial Board	Webmed Central Biomedical Publishers	2011

## SCIENTIFIC JOURNAL PEER REVIEWER:

Scientific Reports  
The Anatomical Record  
Histology & Histopathology  
Annals of Anatomy  
European Spine Journal  
European Journal of Anatomy  
Osteoarthritis and Cartilage  
American Journal of Physical Medicine & Rehabilitation - Official Journal of the Association of Academic Physiatrists  
The Spine Journal - Official journal of the North American Spine Society  
Physical Medicine & Rehabilitation

Spine  
Journal of Manipulative & Physiological Therapeutics  
Journal of Chiropractic Medicine

**TEXTBOOKS REVIEWED:**

Jones and Bartlett Publishers

- Legal First Aid: A Guide for Health Care Professionals, DeWitt A L. Jones and Bartlett Publishers. ISBN: 9780763758479
- Essentials of Dermatology for Chiropractors. Jones and Bartlett Publishers. ISBN: 9780763761578
- Evidence Based Medicine for Beginning Practitioners. Jones and Bartlett Publishers. ISBN-10: 1449652778

**SCIENTIFIC CONFERENCE REVIEWER:**

- North American Spine Society
- World Federation of Chiropractic
- American Geriatric Society
- American College of Chiropractic Research Agenda Conference

**NATIONAL COMMITTEES:**

- North American Spine Society (NASS) Research Council- appointed 2011
- North American Spine Society (NASS) Evidence-based Guideline Committee – appointed 2011
- U.S. Department of Health & Human Services (HRSA) grant reviewer – appointed 2009
- Research & Clinical Advisory Panel - The Science Advisory Board – appointed 2008

**EVIDENCE BASED GUIDELINE COMMITTEES:**

- Diagnosis and Treatment of Vertebral Compression Fractures Guideline (Osteoporotic and Neoplastic). (NASS) 2020.
- Diagnosis & Treatment of Low Back Pain Clinical Guidelines (NASS) 2019
- Diagnosis & Treatment of Degenerative Lumbar Spondylolisthesis Clinical Guidelines (NASS) 2012
- International Delphi panel on diagnostic imaging guidelines for adult lower extremity disorders (2006).
- International Delphi panel on diagnostic imaging guidelines for adult upper extremity disorders (2006).
- International Delphi panel on diagnostic imaging guidelines for adult spine disorders (2007).

**SCIENTIFIC CONSULTING:**

- Program Director: Boeing Aircraft, ergonomic evaluation of aircraft manufacturing procedures 2014-2015
- Program Director: Boeing Aircraft, ergonomic evaluation of aircraft manufacturing procedures 2008

**PROFESSIONAL ASSOCIATION MEMBERSHIPS:**

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Sigma Xi, The Scientific Research Honor Society  
North American Spine Society  
Society for Neuroscience

American Geriatrics Society  
American Society of Mechanical Engineers  
Society of Manufacturing Engineers

## RESEARCH INTERESTS:

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Biomechanics of the sacroiliac joint and sacral articular cartilage, geriatric low back pain and postural control, and cervical spine suboccipital muscles & cervical dura mater elastin content.

### CURRENT RESEARCH:

1. **Sacroiliac Joint Research: Finite Element analysis and computer simulation of the Sacroiliac joint and sacral articular cartilage.**  
Role: Co-Investigator.  
Co-Investigator: Douglas Smith, PhD, PE – Baylor University, Department of Mechanical Engineering; Frank Scali, DC, MD – California University of Science & Medicine.
2. **Computational analysis of mechanical properties of the cervical dura mater.**  
Role: Co-Investigator.  
Co-Investigator: Douglas Smith, PhD, PE – Baylor University, Department of Mechanical Engineering; Frank Scali, DC, MD – California University of Science & Medicine
3. **Geriatric chronic pain and balance research.**  
Role: Principal Investigator.  
Co-Investigators: Joseph Flaherty, MD - Saint Louis University School of Medicine, Department of Internal Medicine, Division of Geriatrics. Ted Malmstrom, PhD - Saint Louis University School of Medicine, Department of Neurology & Psychiatry.
4. **Anatomical research into suboccipital muscles & elastin content of cervical dura mater.**  
Role: Co-Investigator.  
Co-Investigators: Frank Scali, DC, MD – California University of Science & Medicine.

## RESEARCH GRANTS

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### FUNDED

Study title: Impact of nutritional sport on acute chronic ankle sprains. (2013 - 2015)

Role: Co-Investigator.

Co-Investigators: Cheryl Hawk, DC, PhD (PI); Clint Daniels, MS, DC; Harrison Ndetan, MPH, DrPH. Jay Greenstein, DC.

Private Foundation Grant - Total cost: \$700,000.00 (Awarded).

Study title: Multimodal treatment protocol for geriatric postural control & low back pain. (2009 - 2013) Role: Principal Investigator/Program Director.

Co-Investigators: Joseph Flaherty, MD; Ted Malmstrom, PhD

HRSA R18 grant # R18HP15125 - Total cost: \$1,208,957.00 (Awarded).

Study title: Bone density changes in spinal cord injury patients with whole body vibration. (2007-2009)

Role: Co-Investigator.

Principal Investigator: David Lenihan, DC, PhD.

Eric Westcott Foundation grant - Total cost: \$10,000.00 (Awarded).

Study title: Effects of topical analgesic and spinal manipulative therapy on low back pain. (2005 – 2006)

Role: Co-Investigator.

Principal Investigator: John Zhang, MD, PhD.

Performance Health Grant - Total cost: \$5,000.00 (Awarded).

Other:

Study title: Gateway GEC project: Falls screening training for Logan senior interns and validation of Saint Louis University Mini Falls Assessment (2014 - 2015)

Principle Investigator: Marla Berg-Weger, Ph.D. Role: Co-Investigator (assumed role of site PI).

Co-Investigators: John Morley, MD.

HRSA Grant No.5 UB4HP19060-05-00. Total cost: \$483,845.00; Logan University consortium amount \$57,575. (Awarded)

Study Title: The Effect of Nutritional Supplementation on Biomarkers of Muscle Damage, Inflammation and Oxidative Stress following Acute High Intensity Resistance Exercise. (2016 - 2018).

Role: Principal Investigator.

Co-Investigators: Robert Davidson, PhD, Eric Park, PhD, Jeremy Townsend, PhD (Lipscomb University, Dept. of Kinesiology), Theodore Malmstrom, PhD (Saint Louis University School of Medicine, Department of Neurology & Psychiatry).

NOT FUNDED

Study title: Treating Depression to Remission in Primary Care Patients with Non-Cancer Pain to Improve Safe Opioid Prescribing, Reduce Pain and Improve Function (2017 - 2020)

Principle Investigator: Jeffery Scherrer, PhD

Role: Co-Investigator/Community stakeholder.

Co-Investigators: Jeffery Scherrer, PhD; Scott Secrest; David Mehr, MD, MS; Mark Sullivan, MD, PhD; Kim S. Kimminau, PhD; Bill McCarberg, MD; Ronald Worthington, PhD; Jeff Ordway; Peter Brawer, PhD.

PCORI grant total cost: \$3,804,054 (not funded).

Study title: Pharmacological and chiropractic management of chronic pain in the elderly (2015 - 2020) Role: Principal Investigator/Program Director.

Co-Investigators: Joseph Flaherty, MD; Ted Malmstrom, PhD; Kasey Sudkamp, PT, DPT; John Mayer, DC, PhD

NIH R01 grant - Total cost: \$2,855,000.00. (Not funded)

## **SCHOLARLY CONTRIBUTIONS**

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### **Refereed Journal Articles**

1. Kreiner DS, Matz P, Bono CM, Cho CH, Easa JE, Ghiselli G, Ghogawala Z, Reitman CA, Resnick DK, Watters WE, Annaswamy TM, Baisden J, Bartynski WS, Bess S, Brewer RP, Cassidy RC, Cheng DS, Christie SD, Chutkan NB, Cohen BA, Dagenais S, Enix DE, Dougherty P, Golish SR, Gulur P, Hwang SW, Kilincer C, King JA, Lipson AC, Lisi AJ, Meagher RJ, O'Toole JE,

Park P, Pekmezci M, Perry DR, Prasad R, Provenzano DA, Radcliff KE, Rahmathulla G, Reinsel, Rich RL, Robbins DS, Rosoloski KA, Sembrano JN, Sharma AK, Stout AA, Taleghani CK, Tazell, RA, Trammell T, Vorobeychik Y, Yahiro A. Review Article: An evidence-based clinical guideline for Multidisciplinary Spine Care: Diagnosis & Treatment of Low Back Pain. *Spine J*, April 13, 2020 DOI: <https://doi.org/10.1016/j.spinee.2020.04.006>

2. Scali F, Enix DE, Hassan S, Nash LG. Region of Superior Cervical Attachments and Ligamentous Insertions: Part 1: The posterior atlanto-occipital membrane redefined. *Spine J* 2020
3. Enix DE, Scali F, Sudkamp K, Keating R. Supernumerary head of the biceps brachii muscle: an anatomical variant with clinical implications. *J Chiropr Med*. 2020
4. Kreiner DS, Matz P, Resnick DK, Cho CH, Ghiselli G, Bono CM, Reitman CA, Easa JE, Watters WE, Ghogawala Z, Annaswamy TM, Baisden J, Bess S, Cassidy RC, Cheng DS, Dagenais S, Easa, EA, Enix DE, Gulur P, Hwang SW, Kilincer C, King JA, Meagher RJ, O'Toole JE, Park P, Perry DR, Provenzano DA, Radcliff KE, Robbins DS, Sembrano JN, Sharma AK, Stout AA, Tazell, RA, Vorobeychik Y. Evidence-Based Clinical Guidelines for Multidisciplinary Spine Care: Diagnosis & Treatment of Low Back Pain. *North American Spine Society Evidence Based Clinical Guidelines for Multidisciplinary Spine Care*. 2020.
5. Enix DE, Mayer JM. Sacroiliac joint hypermobility biomechanics and what it means for healthcare providers and patients. *Physical Medicine & Rehabilitation Vol 11, Issue S1* (2019) S32–S39. [dx.doi.org/10.1002/pmrj.12176](https://doi.org/10.1002/pmrj.12176).
6. Matz P, Meagher RJ, Lamer T, Tontz WL, Annaswamy TM, Cassidy RC, Cho CH, Dougherty P, Easa JE, Enix DE, Gunnoe BA, Jallo J, Julien TD, Maserati MB, Nucci RC, O'Toole JE, Rosolowski K, Sembrano JN, Villavicencio AT, Witt JP. Review Article: An evidence-based clinical guideline for the diagnosis and treatment of degenerative lumbar spondylolisthesis. *Spine J*, 2016;16; 439–448.
7. Daniels CJ, Enix DE, Welk A. Evaluation by diagnostic ultrasound of an ankle fracture undetectable by conventional radiography: A case report and literature review. *J Chiropr Med*, Mar 2016 (15:1): 35-41
8. Scali F, Pontell ME, Nash LG, Enix DE. Investigation of meningomyovertebral structures within the upper cervical epidural space: a sheet plastination study with clinical implications. *Spine J*, 2015 Nov 1; 15(11):2417-24.
9. Enix DE, Sudkamp K, Malmstrom T K, Flaherty J H. A Randomized Controlled Trial of Chiropractic Compared to Physical Therapy for Low Back Pain in Community Dwelling Geriatric Patients. *Top Integrative HealthCare*, 2015 Vol. 6(1).
10. Enix DE, Sudkamp K, Scali F, Keating R, Welk A. Management of acute patellar dislocations, an international case report. *J Chiropr Med*, 2015, 14:3, 212–219.
11. Enix DE, Sudkamp K, Malmstrom T K, Flaherty J H. Methodology and Demographics of a Single Blinded, Randomized Controlled Trial of Chiropractic Compared to Physical Therapy for Balance Impairments in Community Dwelling Geriatric Patients with or without Low Back Pain. *Chiropr Man Ther*. 2014, 22:31.

12. Enix DE, Scali F, Pontell ME, Marshall E. The cervical myodural bridge, a review of literature and clinical implications. *J Can Chiropr Assoc*, 2014; 58(2):184-192).
13. Matz P, Meagher RJ, Lamer T, Tontz Jr W, Annaswamy TM, Cho CH, Dougherty P, Easa JE, Enix, DE, Gunnoe BA, Jallo J, Julien TD, Maserati MB, Nucci RC, O'Toole JE, Sembrano JN, Villavicencio AT, Witt JP. Diagnosis and Treatment of Degenerative Lumbar Spondylolisthesis, 2nd Ed. *North American Spine Society Evidence Based Clinical Guidelines for Multidisciplinary Spine Care*. 2014.
14. Gliedt JA, Daniels C, Enix DE. Radial Head Fracture Presenting to a Chiropractic Clinic: A Case Report and Literature Review. *Chiropr Man Ther*. 2014, 22:14.
15. Pontell M, Scali F, Enix DE, Marshall E. Histological examination of the human obliquus capitis inferior myodural bridge. *Ann. Anat* 2013; 195, (6); 522–526.
16. Gliedt JA, Daniels C, Enix DE. Neurogenic thoracic outlet syndrome, a clinical brief. *Top Integrative HealthCare*, 2013; 4: 3.
17. Scali F, Pontell ME, Enix DE, Marshall E. Histological Analysis of the Rectus Capitis Posterior Major's myodural bridge. *Spine J*, 2013; 13, (5):558-563.
18. Battaglia P, Scali F, Enix DE. Co-presentation of unilateral femoral and bilateral sciatic nerve variants in one cadaver: A case report with clinical implications. *Chiropr Man Ther*. 2012; 29: 20 (1):34.
19. Pontell ME, Scali F, Marshall E, Enix DE. The obliquus capitis inferior myodural bridge. *Clin Anat* 2013; 26(4) 450-454.
20. Battaglia P, Scali F, Enix DE. Pelvic entrapment neuropathies in the disc patient that is refractory to care. *SpineLine* 2012, Nov-Dec; 13:6; 32.
21. Enix DE, Flaherty J H, Sudkamp K, Malmstrom T K. Methodology of a randomized controlled trial of manipulation and physical therapy for chronic low back pain and balance problems in the geriatric population. *Top Integrative HealthCare*, 2011; 2(4).
22. Enix DE, Flaherty J H, Sudkamp K, Schultz J. Balance Problems in the Geriatric Patient, an interdisciplinary grand round. *Top Integrative Health Care*, 2011; 2(1).
23. Zhang JQ, Enix DE, Snyder B, Giggey K, Tepe R. Effects of Biofreeze and chiropractic adjustments on acute low back pain: a pilot study. *J Chiropr Med* 2008; 7, 59–65.

#### **Non-Refereed Professional Publications**

1. Enix DE. Chronic low back pain: Manipulation inclusion in best practice guidelines for safe and effective treatments. *Orthopedics Today*, June 2018.
2. Weiniger S, Enix DE. Posture, low back pain and risk of falls. *Chiropractic Economics* 2018

3. Enix DE, Enhancing collaboration in the treatment of the elderly, an interview with Dennis Enix, DC, MBA. *American Chiropractor*, Feb 2017.
4. Enix DE, Page P, Mansueto L, Greenstein. Balancing Act; Balance and proprioception training. *ACA News*, January 2011.
5. Enix DE, Forcum T, Rogers M, Hyde T, Killinger L. Fall Prevention - Part IV. *JACA*. January-February 2010; 47; 1.
6. Enix DE, Hawk C. Fall Prevention - Part II. *JACA*. November 2009; 46; 1-6.
7. Enix DE, Dougherty P, Hawk C, Killinger L. Fall Prevention-Part I. *JACA*. Sep/Oct 2009; 46; 1-6

### **Other Non-Refereed Publications**

1. How to Fix the Worst Posture Mistakes. Livestrong Health, July 13, 2016.
2. Office Health: Bicycle Desk vs. Standing Desk vs. Yoga Ball. April 13, 2016.
3. Why you should stop slouching: The posture-mood connection. Health & Wellness, August 31 2015.

### **Publications in preparation/review:**

1. Scali F, Chien K, Keehan W, Hassan S, Enix DE. The etiology of cerebrospinal fluid accumulation in the atlantoaxial interspace in post-whiplash patients. A hypothesis involving the myodural bridging structures. *Journal TBD*, 2020.
2. Enix DE, Smith DE. Manipulation of the sacroiliac joint alters joint kinematics. *The Journal of Manipulative and Physiological Therapeutics*.
3. Scali F, Wasson A, Rafalian A, Lenfestey R, Hassan S, Enix DE. The myodural bridge - Setting the record straight: A Review. *The Spine Journal*, 2020.
4. Scali F, Ohno A, Enix DE, Hassan S. Redefining the posterior atlanto-occipital membrane: a common attachment site for the myodural bridge and associated structures. *The Spine Journal*, 2020.
5. Scali F, Pontell M, Enix DE, Hassan S. Myovertebrodural autonomic system and Cranial Nerve XI: The control of Cerebrospinal fluid flow. *Journal TBD*, 2020.
6. Enix DE, Scali F, Smith DE. Elastin fiber content in the dura mater of the cervical spine. *Spine*, 2020.
7. Scali F, Nash LG, Enix DE, Hassan S. The origin and morphological presentation of the radial recurrent artery in cadaveric specimens with superficial brachioradial artery variations. *Surgical and Radiologic Anatomy*, 2020.
8. Enix DE, Scali F, Smith D. Histological variation of the iliolumbar ligament. *The Spine Journal*, 2020.

9. Enix DE, Scali F, Darbandi A, Beavers DV. The effect of dual task exercises on core stability. 2020
10. Gilliam C, Enix DE, Scali F. Accessory rectus capitis posterior major muscle with cervical myodural bridges. *Case Reports in Medicine* 2020
11. Enix DE, Smith DE. Biomechanics of osteoarthritic cartilage in the sacroiliac joint. *The Journal of Manipulative and Physiological Therapeutics*
12. Enix DE, Malmstrom TK, Flaherty JH. A randomized controlled trial of chiropractic and physical therapy for balance impairments and chronic low back pain in community dwelling geriatric patients. *Journal TBD* 2020
13. Enix DE, Smith DE. Mechanical behavior of sacral and iliac cartilage under compression and pelvic rotation. *Spine J*.

#### **CITABLE ABSTRACTS/CONFERENCE PROCEEDINGS**

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1. Enix DE, Smith DE. The effect of manipulation on sacroiliac joint motion. *J Chiropr Med* 2019.
2. Enix DE, Sudkamp K, Malmstrom TK, Flaherty JH. A randomized controlled trial of chiropractic and physical therapy for balance impairments and chronic low back pain in community dwelling geriatric patients. *Proceedings of the 9th Interdisciplinary World Congress on Low Back & Pelvic Pain*, 2016.
3. Enix DE, Sudkamp K, Malmstrom TK, Flaherty JH. A randomized controlled trial of chiropractic and physical therapy for balance impairments and chronic low back pain in community dwelling geriatric patients. *J Chiropr Med* 2015, 14; 2:101-102.
4. Enix DE, Battaglia P, Facemyer E, Kelly R, Scali F. Elastin fiber content in the dura mater of the cervical spine. *J Chiropr Med* 2015, 14; 2:125-126.
5. Enix DE, Sudkamp K, Keating R, Aamodt A, Scali F. Tricipital supernumerary head of the biceps brachii muscle: an anatomical case study and clinical implications. *J Chiropr Educ*, 2015.
6. Snyder BJ, Enix DE, Arnold C, Welk A. Effectiveness of Electro-acupuncture on Ganglion Cysts: a pilot study. *J Chiropr Educ*, 2015.
7. Enix DE, Smith DE. Biomechanics of osteoarthritic cartilage in the sacroiliac joint. *J Chiropr Educ*, 2014; 28(1) DOI 10.7899/JCE-14-3.
8. Enix DE, Smith DE. Mechanical behavior of normal and osteoarthritic sacral and iliac cartilage under compression and pelvic rotation. *Proceedings of the 8th Interdisciplinary World Congress on Low Back & Pelvic Pain*, 2013.
9. Enix DE, Smith DE. Mechanical behavior of sacral and iliac cartilage under compression. *J Chiropr Educ* 2013; 27(1). DOI 10.7899/JCE-12-036.

10. Enix DE, Smith DE. Non-uniform compression of sacral cartilage during angular rotation. *J Chiropr Educ*, 2012; 26 (1):87.
11. Enix DE, Smith DE. Preliminary Analysis of the Sacroiliac Joint in the hyperlordotic Spine, a Finite Element Model. *Clin Chiropr*, December 2011; 14 (4):151-152.
12. Enix DE. Neuromuscular Fatigue and Cryotherapy Mediated Changes in Proprioception. *J Chiropr Educ*, 2011; 25 (1):80.
13. Enix DE, Smith D, Scali F, Marsili E. Variations in the Sacroiliac Joint Auricular Surface and Supporting Ligaments in Human Cadavers. *Proceedings of the 7th Interdisciplinary World Congress on Low Back & Pelvic Pain*, 2010.
14. Enix DE, Smith D. Finite Element modeling of the Sacroiliac Joint. 2010 annual Academy of Physical Medicine and Rehabilitation Conference, Seattle, WA. *Archives of Physical Medicine* Nov 2010.
15. Enix DE, Smith D. Variability in the morphology of the articular surface of the Sacroiliac Joint. *J Chiropr Educ*, 2010; 24 (1):91.
16. Enix DE, Raphael A, Giggey KJ. The Effects of Manipulation on Eccentric and Concentric Motion of the Ilium around the Sacrum. *J Chiropr Educ*, 2009; 23 (1):66.
17. Enix DE, Vianin M, Beavers D, Giggey KJ, Tepe R. The Effects of Neuromuscular Training on Core Stability. *J Chiropr Educ*, 2009; 23(1):67.
18. Enix DE, Lenihan DV, Giggey KJ. Altered somatosensory afferents affect cervical spine proprioception. *Neuroscience 2008 annual conference publications*.
19. Enix DE, Lenihan DV, Giggey KJ. Decreased Primary Afferents Effect Proprioception in an Area Proximal to the site of Injury. *Archives of Physical Medicine* Nov 2008; (89):11, E39.
20. Enix DE, Lenihan DV, Giggey KJ. Effects of Chronic Ankle Instability on Cervical Spine Proprioception. *J Chiropr Educ*, 2008; 22 (1): 56.
21. Tepe R, Giggey K J, Enix DE. Inter-examiner reliability of measures of cervical active range of motion and isometric muscle strength in healthy young adults. *J Chiropr Educ*, 2008; 22 (1):79.
22. Enix DE, Giggey KJ. Vibration Induced Neural Plasticity in a Participant with Dysafferentation Syndrome: A Case Study. *Archives of Physical Medicine and Rehabilitation*. September 2007:88 (9), E58.
23. Enix DE, Zhang JQ. The analgesic effect of laser therapy on osteoarthritis related knee pain and quadriceps alpha-motor neuron inhibition. *J Chiropr Educ* 2007.
24. Enix DE, Giggey KJ. The Effects of Whole body vibration on a patient with chronic ankle Sprains. *J Chiropr Educ* 2007.
25. Tepe R, Giggey K J, Enix DE, Zhang JQ. A Pilot Study of the effects of Instrument Applied Manipulation on Postural control. *J Chiropr Educ* 2007; 21(1):87.

26. Zhang JQ, Enix DE, Giggey, KJ. The effects of topical analgesic and spinal manipulative therapy on low back pain, a RTC. *J Chiropr Educ*. 2008; 22 (1): 81.
27. Zhang JQ, Sau A, Ng D, Enix DE, Giggey K, Tepe R. Instrument-applied and manual manipulation-induced EMG responses in asymptomatic subjects. *J Chiropr Educ*. 2007; 21(1):128.
28. Zhang JQ, Enix DE. The Effects of Age and Gender on Heart Rate Variability in Normal Subjects. *J Chiropr Educ*. 2006; 20(1):47.
29. Tepe R, Zhang JQ, Enix DE. A Randomized Controlled Trial of the Effects of Instrument -Applied Cervical Manipulative Therapy on Cervical Ranges of Motion. *J Chiropr Educ* 2006; 20(1):104.
30. Zhang JQ, Sau A, Ng D, Enix DE, Giggey K, Tepe R. Instrument-applied and manual manipulation-induced EMG responses in asymptomatic subjects. *J Chiropr Educ*. 2006; 21(1):128.

#### CONFERENCE PRESENTATIONS:

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1. Experimental Biology conference, 2020. Sheet plastination study of the meningomyovertebral structures within the upper cervical epidural space with clinical implications. Scali F, Enix D, Nash LG.
2. World Federation of Chiropractic, Berlin, Germany, 2019. The effect of manipulation on sacroiliac joint motion. Enix DE, Smith DE.
3. 9th Interdisciplinary World Congress on Low Back & Pelvic Pain, Singapore 2016. A randomized controlled trial of chiropractic and physical therapy for balance impairments and chronic low back pain in community dwelling geriatric patients. Enix DE, Sudkamp K, Malmstrom TK, Flaherty JH. [Best research award]
4. North American Primary Care Research Group conference, Colorado 2016. Management of chronic pain with chiropractic care and opioids - Poster. White M, Enix DE, Scherrer JF.
5. World Federation of Chiropractic, Athens, Greece, 2015. A randomized controlled trial of chiropractic and physical therapy for balance impairments and chronic low back pain in community dwelling geriatric patients. Enix DE, Sudkamp K, Malmstrom TK, Flaherty JH.
6. World Federation of Chiropractic, Athens, Greece, 2015. Elastin fiber content in the dura mater of the cervical spine. Enix DE, Facemyer E, Kelly R, Scali F.
7. ACC-RAC Conference, Las Vegas, NV, 2015. Tricipital supernumerary head of the biceps brachii muscle: an anatomical case study and clinical implications. Enix DE, Sudkamp K, Keating R, Aamodt A, Scali F.
8. ACC-RAC Conference, Las Vegas, NV, 2015. Effectiveness of Electro-acupuncture on Ganglion Cysts: a pilot study. Snyder BJ, Enix DE, Arnold C, Welk A.

9. Saint Louis University School of Medicine, Division of Geriatrics, Summer Institute Symposium, 2014. Results from a randomized controlled trial of manipulation and physical therapy for balance problems in community dwelling older adults. Enix DE, Sudkamp K.
10. ACC-RAC Conference, Orlando, FL, 2014. Biomechanics of osteoarthritic cartilage in the sacroiliac joint. Enix DE, Smith DE.
11. ACC-RAC Conference, Orlando, FL, 2014. Patellar Dislocation: an International Case Report. Enix DE, Sudkamp K, Scali F, Keating R, Welk A.
12. 8th Interdisciplinary World Congress on Low Back & Pelvic Pain, Dubai, U.A.E. 2013. Mechanical behavior of normal and osteoarthritic sacral and iliac cartilage under compression and pelvic rotation Enix DE, Smith DE.
13. Saint Louis University School of Medicine, Division of Geriatrics, Summer Institute Symposium, 2013. The role of Manual therapy and physical therapy in fall prevention. Enix DE, Sudkamp K.
14. World Federation of Chiropractic, Durban, South Africa, 2013. Mechanical behavior of sacral and iliac cartilage under compression and pelvic rotation. Enix DE, Smith D.
15. World Federation of Chiropractic, Durban, South Africa, 2013. Proprioceptive neurons in the cervical myodural bridge: a feed-forward mechanism of dural tension monitoring. Scali F, Pontell ME, Enix DE. [Best scientific poster award]
16. ACC-RAC Conference, Washington DC, 2013. Mechanical behavior of sacral and iliac cartilage under compression. Enix DE, Smith D.
17. Saint Louis University, Division of Geriatrics, Summer Institute Symposium, 2012. Posture, Proprioception and Prevention; Part II. Enix DE, Sudkamp K.
18. ACC-RAC Conference, Las Vegas, NV, 2012. Non-uniform compression of sacral cartilage during angular rotation. Enix DE, Smith D. [Best basic science paper award]
19. Saint Louis University, Division of Geriatrics, Summer Institute Symposium, 2011. Posture, Proprioception and Prevention; a Chiropractic Approach. Enix DE, Scott R, Bub G.
20. World Federation of Chiropractic, Rio de Janeiro, Brazil, 2011. Preliminary Analysis of the Sacroiliac Joint in the hyperlordotic Spine, a Finite Element Model. Enix DE, Smith D.
21. ACC-RAC Conference, Las Vegas, NV, 2011. Neuromuscular Fatigue and Cryotherapy Mediated Changes in Proprioception. Enix DE.
22. 7th Interdisciplinary World Congress on Low Back & Pelvic Pain, Los Angeles CA, 2010. Variations in the sacroiliac joint auricular surface and supporting ligaments in human cadavers. Enix DE, Smith D, Scali F, Marsili E.
23. Academy of Physical Medicine and Rehabilitation Conference, Seattle, WA, 2010. Finite Element modeling of the Sacroiliac Joint. Enix DE, Smith D.

24. Third Annual Clinical Research Management Symposium, Yale Center for Clinical Investigation, NIH Bethesda, Maryland, 2010. Interdisciplinary Geriatric CAM Research in the Veterans Administration Hospital. Enix DE, Flaherty JH, Malmstrom TK.
25. ACC-RAC Conference, Las Vegas, NV, 2010. Variability in the morphology of the articular surface of the Sacroiliac Joint. Enix DE, Smith D.
26. ACC-RAC Conference, Las Vegas, NV, 2009. The Effects of Manipulation on Eccentric and Concentric Motion of the Ilium around the Sacrum. Enix DE, Raphael A, Giggey KJ.
27. ACC-RAC Conference, Las Vegas, NV, 2009. The Effects of Neuromuscular Training on Core Stability. Enix DE, Vianin M, Beavers D, Giggey KJ, Tepe R.
28. Annual Society for Neuroscience Conference, Washington D.C., 2008. Altered somatosensory afferents affect cervical spine proprioception. Enix DE, Giggey KJ, Lenihan DV.
29. Academy of Physical Medicine and Rehabilitation Conference, San Diego, CA, 2008. Decreased Primary Afferents Effect Proprioception in an Area Proximal to the site of Injury. Enix DE, Lenihan DV, Giggey KJ.
30. Academy of Physical Medicine and Rehabilitation Conference, Boston, MA, 2007. Vibration Induced Neural Plasticity in a Participant with Dysafferentation Syndrome: A Case Study. Enix DE, Giggey KJ.
31. ACC-RAC Conference, Washington DC, 2008. Effects of Chronic Ankle Instability on Cervical Spine Proprioception. Enix DE, Lenihan DV, Giggey KJ.
32. International Conference on Chiropractic Research, Tivoli, Portugal. 5/17/2007. Neuroplastic Changes from stimulated afferents. Enix DE, Giggey KJ.
33. ACC-RAC Conference, Phoenix, AZ, 3/15/2007. Vibration Induced Neuroplastic Changes in a Subject with Dysafferentation Syndrome, Enix DE, Giggey KJ.
34. ACC-RAC Conference, Phoenix, AZ, 2007 The effects of topical analgesic and spinal manipulative therapy on low back pain, an RTC. Zhang JQ, Enix DE, Giggey KJ.
35. ACC-RAC Conference, Washington DC, 2006. The analgesic effect of laser therapy on osteoarthritis related knee pain and quadriceps alpha-motor neuron inhibition. Enix DE, Zhang JQ.
36. ACC-RAC Conference, Washington DC, 2006. The Effects of Age and Gender on Heart Rate Variability in Normal Subjects. Zhang JQ, Enix DE.
37. ACC-RAC Conference, Washington DC, 2006. A Randomized Controlled Trial of the Effects of Instrument-Applied Cervical Manipulative Therapy on Cervical Ranges of Motion. Tepe R, Zhang JQ, and Enix DE.
38. ACC-RAC Conference, Washington DC, 2006. The Effects of Age and Gender on Heart Rate Variability in Normal subjects. Zhang JQ, Enix DE.

## NON-CONFERENCE PRESENTATIONS:

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1. Spinal manipulation and physical therapy for chronic low back pain and balance problems in community dwelling older adult. Ponce Health Sciences University, Medical School. October 2015, Enix DE
2. Evidence based Complementary and Alternative Medicine, Guest Lecturer - Washington University School of Medicine 2010 Enix DE.
3. Caring for aging parent's seminar, Christian Family Services 2010. Fall Prevention ion the elderly, 2010. Enix DE.
4. Grand Rounds Presentation; Spinal Cord Injury Department. St. Louis VA Medical Center, Jefferson Barracks Division, 12/16/2008. Enix DE.
5. Logan University Post Graduate seminar, 2006. Computerized spinal motion analysis and Instrumented spinal manipulative therapy. Enix DE.

## COMMUNITY ACTIVITIES

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|------------------|---|
| • 2020 – Current | Deacon, Maryland Heights Church, Maryland Heights, MO                                     |
| • 2015 – Current | Board of Trustees, Fox Glen subdivision   |
| • 2011           | Church youth group house building mission trip to Honduras.                               |
| • 2010-2012      | Camp Director for Camp NeoTez College retreats  |
| • 2010 – 2011    | College ministry leader for the A.C.T.S. West group.                                      |
| • 2009 – 2011    | Deacon, Lafayette church, Ballwin, MO   |
| • 2009 - 2010    | Minister Search committee, Lafayette Church   |
| • 2009           | Boy Scout Troop 786/801 Canada Northern Tier expedition.                                  |
| • 2009 - Current | Board of Directors - A.C.T.S. College Campus Ministry.                                    |
| • 2008           | Boy Scout Troop 786 Philmont expedition.  |
| • 2007           | Youth Minister Search committee, Lafayette Church   |
| • 2004 & 2006    | Casas por Cristos house building mission trips to Juarez, Mexico with church youth group. |
| • 2006 – 2010    | Science Fair Judge, Parkway West Middle & High School.                                    |
| • 2006 – 2008    | Teen Ministry at Lafayette Church, Ballwin, MO  |
| • 2001 - 2005    | Cub Scout Pack 786 leader, Ballwin, MO  |
| • 1998 - 2003    | Deacon, Lafayette church, Ballwin, MO   |
| • 1991 - 1992    | Board of Trustees. Windermere subdivision   |