

Marcus B. Stone, PhD

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EXECUTIVE SUMMARY

Versatile medical research professional with 15 years of experience delivering high quality medical science. Confident leader of stakeholders through complex issues, reaching successful outcomes through accountability. Understands business processes and the impact of integrating medical research into the overall mission of the organization.

EDUCATIONAL BACKGROUND

Doctor of Philosophy

Indiana State University, Terre Haute, IN
Conferred: May 2003
Major Area: Life Sciences
Area of Concentration: Sports Medicine
Dissertation: Threshold Frequency of an Electrically Induced Cramp Decreases following Local Muscle Fatigue

Master of Science

Indiana State University, Terre Haute, IN
Conferred: August 2000
Major Area: Athletic Training
Thesis: Ibuprofen and Bromelain Do Not Resolve Pain or Muscle Dysfunction Following Delayed Onset Muscle Soreness

Bachelor of Science

Brigham Young University, Provo, UT
Conferred: April 1999
Major Area: Physical Education
Area of Concentration: Athletic Training

SKILLS

- Analytical background to review data, interpret findings, and evaluate grants and literature.
- Superb writing skills including grant writing, protocol development, informed consent documents, CRFs, internal communications, peer-reviewed scientific publications.
- Exceptional communication, from inspiring team members, to conducting routine lifecycle operations, to disseminating findings in national and international presentations and publications.
- Strong interpersonal skills to work with internal/external peers, principal investigators, site staff and other research personnel as well as the lay public.

- Precise planning and execution to meet deadlines, work within tight timeframes, manage multiple projects/tasks simultaneously and work independently.
- Exceptional teaching and presentation skills.
- Strategic problem solver with technical knowledge to address problems and obstacles.
- Detail oriented in administering internal and external regulatory policies including CMS, ICH GCP, FDA, and IRB compliance.

PROFESSIONAL EXPERIENCE

Spine Institute of Louisiana Foundation
Chief Executive Officer, August 2014 – Present

Spine Institute of Louisiana
Director of Clinical Research, March 2013-August 2014

Alegius Consulting, LLC
Partner & Director of Medical Research, April 2007-March 2013

OrthoIndy, Inc.
Director, Orthopaedic Trauma Research, December 2004-April 2007

Indiana State University
Assistant Professor of Athletic Training & Director of the Sports Injury Research
Laboratory, August 2003- May 2005

PUBLICATIONS

Nunley P, Cavanaugh D, Kerr E, Utter P, Campbell P, Frank K, Marshall K, **Stone M**. Heterotopic Ossification after Cervical Total Disc Replacement at 7 Years – Prevalence, Progression, Clinical Implications, and Risk Factors. *Int J Spine Surg*. In review.

Nunley P, Coric D, Frank K, **Stone M**. Cervical Disc Arthroplasty: Current Evidence and Real World Application. *Neurosurg*. In review.

Nunley P, Mundis G, Fessler R, Park P, Zavatsky J, Uribe J, Eastlack R, Chou D, Wang M, Anand N, Frank K, **Stone M**, Kanter A, Shaffrey C, Mummaneni P, ISSG. Impact of case type, length of stay, institution type, and comorbidities on Medicare DRG reimbursement for adult spinal deformity surgery. *Neurosurg Focus*. In press.

Ament JD, Yang Z, Nunley P, **Stone MB**, Lee D, Kim KD. Cost Utility Analysis of the Cervical Artificial Disc vs Fusion for the Treatment of 2-Level Symptomatic Degenerative Disc Disease: 5-Year Follow-up. *Neurosurg*. 2016 Jul;79(1):135-45.

Nunley PD, **Stone MB**, Hisey MS, Kim KD, Jackson RJ, Bae HW, Hoffman GA, Gaede SE, Danielson GO 3rd, Gordon C, Davis RJ, Rami B. Letter to the Editor: Response to letters regarding Mobi-C cervical artificial disc. *J Neurosurg Spine*. 2016 Mar;24(3):516-8.

Nunley PD, Kerr EJ 3rd, Utter PA, Cavanaugh DA, Frank KA, Moody D, McManus B, **Stone MB**. Preliminary Results of Bioactive Amniotic Suspension with Allograft for Achieving One and Two-Level Lumbar Interbody Fusion. *Int J Spine Surg*. 2016 Apr 18;10:12.

Nunley P, Sandhu F, Frank K, **Stone M**. Neurological Complications after Lateral Transpsoas Approach to Anterior Interbody Fusion with a Novel Flat-Blade Spine-Fixed Retractor. *Biomed Res Int*. Epub 2016 May 12.

Davis RJ, Nunley PD, Kim KD, Hisey MS, Jackson RJ, Bae HW, Hoffman GA, Gaede SE, Danielson GO 3rd, Gordon C, **Stone MB**. Two-level total disc replacement with Mobi-C cervical artificial disc versus anterior discectomy and fusion: a prospective, randomized, controlled multicenter clinical trial with 4-year follow-up results. *J Neurosurg Spine*. 2015;22(1):15-25.

Ament JD, Yang Z, Nunley P, **Stone MB**, Kim KD. Cost-effectiveness of cervical total disc replacement vs fusion for the treatment of 2-level symptomatic degenerative disc disease. *JAMA Surg*. 2014;149(12):1231-9.

Bergin PF, Psaradellis T, Krosin MT, Wild JR, **Stone MB**, Musapatika D, Weber TG. Inpatient soft tissue protocol and wound complications in calcaneus fractures. *Foot Ankle Int*. 2012;33(6):492-497.

Miller KC, Wilding SW, **Stone MB**, Knight KL. Duration of electrically induced muscle cramp increased by increasing stimulation frequency. *J Sport Rehab*. 2012; 21:182-185.

Miller KC, **Stone MB**, Huxel KC, Edwards, JE. Exercise Associated Muscle Cramps: Causes, Treatment, and Prevention. Invited review. *Sports Health*. 2010;2(4):279-283.

Stone MB, Edwards JE, Huxel KC, Cordova ML, Ingersoll CD, Babington JP, Chen J. Threshold Frequency of an Electrically Induced Cramp Increases Following a Repeated, Localized Fatiguing Exercise. *J Sport Sci*. 2010;28(4):399-405.

McCall TA, Brokaw DS, Jelen BA, Scheid DK, Scharfenberger AV, Maar DC, Green JM, Shippo MR, **Stone MB**, Musapatika D, Weber TG. Treatment of Large Segmental Bone Defects with Reamer-Irrigator-Aspirator Bone Graft: Technique and Case Series. *Orthop Clin North Am*. 2010;41(1):63-73

Cordova ML, Bernard LW, Au KK, Demchak TJ, **Stone MB**, Sefton JM. Cryotherapy and ankle bracing effects on peroneus longus response during sudden inversion. *J Electromyogr Kinesiol*. 2010; 20(2):348-53.

Boyce AS, Reveal G, Scheid DK, Kaehr DM, Maar D, Watts MR, **Stone MB**. Canine Investigation of rhBMP-2, Autogenous Bone Graft, and rhBMP-2 with Autogenous Bone Graft for the Healing of a Large Segmental Tibial Defect. *J Orthop Trauma*. 2009; 23(10):685-692.

Demchak TJ, **Stone MB**. Effectiveness of Clinical Ultrasound Parameters on Change in Intramuscular Temperature. *J Sport Rehab*. 2008;17(3):220-229.

Weaver SL, Demchak TJ, **Stone MB**, Brucker JB, Burr PO. Effect of transducer velocity on intramuscular temperature during a 1-MHz ultrasound treatment. *J Orthop Sports Phys Ther*. 2006 May;36(5):320-5.

Bender AL, Kramer EE, Brucker JB, Demchak TJ, Cordova ML, **Stone MB**. Effect of Local Ice-Bag Application on Triceps Surae Muscle Temperature During Treadmill Walking. *J Athl Train*. 2005;40(4):271-275.

Long BC, Cordova ML, Brucker JB, Demchak TJ, **Stone MB**. Exercise and Quadriceps Muscle Cooling Time. *J Athl Train*. 2005;40(4):260-263.

Burr PO, Demchak TJ, Cordova ML, Ingersoll CD, **Stone MB**. Effects of Altering Intensity During a 1 MHz Ultrasound Treatment on Increasing Triceps Surae Temperature. *J Sport Rehab*. 2004;13(4):275-286.

Stone MB, Palmieri RM, Ingersoll CD. The role of non-steroidal anti-inflammatory drugs for the treatment of delayed onset muscle soreness in sport. *Int SportMed J*. 2004;5(2):147-154.

Palmieri RM, Ingersoll CD, Hoffman MA, Cordova ML, Porter, DA, **Stone MB**. Arthrogenic muscle response following a simulated ankle joint effusion. *Br J Sports Med*. 2004;38:26-30.

Palmieri RM, Ingersoll CD, Edwards JE, Hoffman MA, **Stone MB**, Babington JP, Cordova ML. Arthrogenic muscle inhibition is not present in the limb contralateral to a simulated knee joint effusion. *Am J Phys Med Rehab*. 2003;82(12):910-6.

Stone MB, Edwards JE, Stemmans CL, Ingersoll CD, Palmieri RM, Krause BA. Certified Athletic Trainers' perceptions of exercise-associated muscle cramp. *J Sport Rehab*. 2003;12(4):333-342.

Stone MB, Vaughan M, Ingersoll CD, Edwards JE, Babington JP, Palmieri RM, Cordova ML, Krause BA. A single dose of *Ginkgo biloba* does not affect soleus motoneuron pool excitability. *J Strength Cond Res*. 2003;17(3):587-589.

Stone MB, Edwards JE. Exercise-associated muscle cramps. *Athl Ther Today*. 2003;8:30-31.

Palmieri RM, Ingersoll CD, Kinzey SJ, Cordova ML, **Stone MB**, Krause BA. The effect of a simulated knee joint effusion on postural control in healthy subjects. *Arch Phys Med Rehab*. 2003;84:1076-1079.

Stone MB, Edwards JE, Ingersoll CD, Babington JP, Palmieri RM. Reliability of an electrical method to induce muscle cramp. *Muscle Nerve*. 2003;1:122-123.

Stone MB, Merrick MA, Ingersoll CD, Edwards JE. Preliminary comparison of bromelain and ibuprofen for delayed onset muscle soreness management. *Clin J Sport Med*. 2002;12:373-8.

Palmieri RM, Ingersoll CD, **Stone MB**, Krause BA. Center-of-pressure parameters used in the assessment of postural control. *J Sport Rehab*. 2002;11: 51-66.

INVITED PRESENTATIONS

Canine Investigation of rhBMP-2, Autogenous Bone Graft, and rhBMP -2 with Autogenous Bone Graft for the Healing of a Large Segmental Tibial Defect. Medtronic Sofamor Danek, Inaugural Biologics Trauma Translational Research Advisory Board. September 7, 2007.

Setting Up a Research Department and Research Design. St. Vincent Hospital and Health Services, Orthopaedic Trauma Symposium. May 18, 2006.

Research and Institutional Review Boards. St. Vincent Hospital and Health Services, Orthopaedic Trauma Symposium. May 18, 2006.

Exercise-associated muscle cramp: current research and management. National Athletic Trainers' Association Annual Meeting & Clinical Symposia. Indianapolis, IN. June 2005.

Exercise-associated muscle cramp: lessons from the laboratory and field. University of Michigan, Division of Kinesiology. October 15, 2004.

PRESENTATIONS

Nunley P, Kerr E, Cavanaugh D, Utter A, Frank K, **Stone M**. Prevalence, Progression and Clinical Implications of Heterotopic Ossification after Cervical Disc Arthroplasty at 7 Years. Proceedings from 17th International Society for the Advancement of Spine Surgery, April 12-14, 2017, Boca Raton, FL.

Nunley P, Kerr E, Cavanaugh D, Utter A, Frank K, **Stone M**. Radiographic Adjacent Segment Pathology Following Treatment with TDR or ACDF at One or Two Levels: A Prospective, Randomized, Controlled FDA Clinical Trial at Seven Years. Proceedings from 17th International Society for the Advancement of Spine Surgery, April 12-14, 2017, Boca Raton, FL.

Nunley P, Kerr E, Cavanaugh D, Utter A, Frank K, **Stone M**. Radiographic Adjacent Segment Pathology after Treatment with CDA or ACDF at One or Two Levels at Seven-Years. Proceedings from 12th North American Spine Society Annual Evidence & Technology Spine Summit, February 22-25, 2017, Park City, UT.

Nunley P, Kerr E, Cavanaugh D, Utter A, Frank K, **Stone M**. Heterotopic Ossification after Cervical Disc Arthroplasty at One or Two Contiguous Levels at 7 Years – Prevalence, Progression

and Clinical Implications. Proceedings from 12th North American Spine Society Annual Evidence & Technology Spine Summit, February 22-25, 2017, Park City, UT.

Nunley P, Kerr E, Cavanaugh D, Utter A, Frank K, **Stone M**. Seven-Year Follow-up of One-Level vs. Two-Level Treatment with Cervical Disc Arthroplasty and Anterior Cervical Discectomy and Fusion. Proceedings from 12th North American Spine Society Annual Evidence & Technology Spine Summit, February 22-25, 2017, Park City, UT.

Nunley PD, Cavanaugh DA, Utter PA, Kerr EJ, Frank KA, **Stone MB**. Cervical Disc Replacement versus ACDF for Single and Multilevel Treatment of Cervical Degenerative Disc Disease: Seven-Year Clinical Results from an FDA Clinical Trial. CSRS. 2016.

Nunley PD, Cavanaugh DA, Utter PA, Kerr EJ, Frank KA, **Stone MB**. Clinical Implications Of Heterotopic Ossification After Cervical Disc Arthroplasty At 7 Years. CSRS. 2016.

Cavanaugh D, Nunley P, Kerr E, Utter A, Frank K, **Stone M**. Seven-Year Follow-up of One-Level vs. Two-Level Treatment with Cervical Disc Arthroplasty and Anterior Cervical Discectomy and Fusion. Proceedings from the 30th Annual Neurosurgery in the Rockies Meeting, February 21-25, 2017, Beaver Creek, CO.

Cavanaugh D, Nunley P, Kerr E, Utter A, Frank K, **Stone M**. Seven-Year Clinical Results from an FDA Clinical Trial of Single and Multilevel Treatment of Cervical Degenerative Disc Disease: Cervical Disc Replacement versus ACDF. Proceedings from the 42nd Louisiana Neurosurgical Society Annual Meeting, January 14-16, 2017, New Orleans, LA.

Nunley P, Small J, Frank K, **Stone M**. Spine Surgeons' Perceptions of the Incidence and Impact of Third Party Payers' Delay or Denial of Coverage in the Pre-Authorization of Surgical Procedures and Subsequent Payment. Proceedings from 16th International Society for the Advancement of Spine Surgery, April 6-8, 2016, Las Vegas, NV.

Nunley P, Kerr E, Cavanaugh D, Utter A, Frank K, **Stone M**. Factors Predictive of Return to Work Time after Cervical Disc Arthroplasty and ACDF: A Multivariable Analysis. Proceedings from 16th International Society for the Advancement of Spine Surgery, April 6-8, 2016, Las Vegas, NV.

Nunley P, Kerr E, Cavanaugh D, Utter A, Frank K, **Stone M**. SF-12 PCS and VAS Neck as Preoperative Predictors of Patient Success at 60 Months Following Single Level Cervical Surgery with TDR or ACDF. Proceedings from 16th International Society for the Advancement of Spine Surgery, April 6-8, 2016, Las Vegas, NV.

Cavanaugh D, Nunley P, Kerr E, Utter A, Frank K, **Stone M**. Comparison of One-Level and Two-Level treatments for Cervical Disc Arthroplasty and Anterior Cervical Discectomy and Fusion. Proceedings from the 84th AANS Scientific Meeting, April 30-May 4, 2016, Chicago, IL.

Cavanaugh D, Nunley P, Kerr E, Utter A, Frank K, **Stone M**. Preoperative Predictors of Patient Outcomes at 60 Months Following Single Level Cervical Surgery with CDA or ACDF. Proceedings from the 84th AANS Scientific Meeting, April 30-May 4, 2016, Chicago, IL.

Cavanaugh D, Nunley P, Kerr E, Utter A, Frank K, **Stone M**. One-Level versus Two-Level treatments for Cervical Degenerative Disc Disease using Cervical Disc Arthroplasty and Anterior Cervical Discectomy and Fusion. Proceedings from the 41st Louisiana Neurosurgical Society Annual Meeting. January 15-17, 2016, New Orleans, LA.

Utter PA, Nunley PD, Cavanaugh DA, Kerr EJ, Frank KA, **Stone MB**. Radiographic Adjacent Segment Pathology after Treatment with CDA or ACDF at One or Two Levels. 2016. EANS

Utter A, Nunley P, Cavanaugh D, Kerr E, Frank K, **Stone M**. One-Level and Two-Level treatments for Degenerative Disc Disease: Cervical Disc Arthroplasty and Anterior Cervical Discectomy and Fusion. 2016 EANS.

Cavanaugh D, Nunley P, Kerr E, Utter A, Frank K, **Stone M**. Comparison of One-Level and Two-Level treatments for Cervical Disc Arthroplasty and Anterior Cervical Discectomy and Fusion. Proceedings from the 67th Southern Neurosurgical Society Annual Meeting. March 2-5, 2016, San Antonio, Texas.

Nunley PD, Cavanaugh DA, Utter PA, Kerr EJ, Frank KA, **Stone MB**. Cervical Disc Replacement versus ACDF for Single and Multilevel Treatment of Cervical Degenerative Disc Disease: Seven-Year Clinical Results from an FDA Clinical Trial. CSRS. 2016.

Nunley PD, Cavanaugh DA, Utter PA, Kerr EJ, Frank KA, **Stone MB**. Clinical Implications Of Heterotopic Ossification After Cervical Disc Arthroplasty At 7 Years. CSRS. 2016.

Nunley PD, Cavanaugh DA, Utter PA, Kerr EJ, Frank KA, **Stone MB**. Prevalence, Progression, and Clinical Implications of Heterotopic Ossification after Cervical Disc Arthroplasty at 7 Years. 2016. NASS.

Nunley PD, Cavanaugh DA, Utter PA, Kerr EJ, Frank KA, **Stone MB**. Seven-Year Radiographic Adjacent Segment Pathology after Treatment with TDR or ACDF at One or Two Levels. NASS. 2016.

Nunley PD, Cavanaugh DA, Kerr EJ, Utter PA, Frank KA, **Stone MB**. Heterotopic Ossification and Endplate Coverage in One-Level CDA Patients. Spine J. 2015, Oct. 15(10): S209

Nunley P, Cavanaugh D, Kerr E, Utter A, **Stone M**. Endplate Coverage and Heterotopic Ossification in Two-level CDA Patients from an FDA IDE Randomized, Prospective, Clinical Trial. Proceedings from 15th International Society for the Advancement of Spine Surgery, April 15-17, 2015, San Diego, CA.

Nunley P, Cavanaugh D, Kerr E, Utter A, **Stone M**. Heterotopic Ossification and Endplate Sizing in One-Level CDA Patients: Patient Outcomes from a Randomized, Prospective, Clinical

Trial. Proceedings from 15th International Society for the Advancement of Spine Surgery, April 15-17, 2015, San Diego, CA.

Utter A, Nunley P, Cavanaugh D, Kerr E, **Stone M**. Heterotopic Ossification and Endplate Coverage in One- and Two- Level TDR Patients: Results from a Randomized, Prospective, Clinical Trial through Five Years. Proceedings from the 83rd AANS Scientific Meeting, May 2-6, 2016, Washington DC.

Nunley P, Cavanaugh D, Kerr E, Utter A, **Stone M**. Radiographic Adjacent Segment Pathology after Treatment with TDR or ACDF at One or Two Levels. *Spine J*. 2014, Nov. 14(11): S23 - S24

Cavanaugh D, Nunley P, Kerr E, Utter A, **Stone M**. Adjacent Segment Degeneration Incidence Reduced after Total Disc Replacement Compared with Anterior Discectomy and Fusion for Treatment of One and Two Level Cervical Degenerative Disc Disease: 4-Year Results from an FDA IDE clinical trial. Proceedings of the 30th annual meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, March 5-8, 2014, Orlando, FL.

Buch RG, Morgan KK, **Stone MB**. Benign bone tumor excision and graft incorporation in 62 patients: average 28 months follow up. European Federation of National Associations of Orthopaedics and Traumatology. Copenhagen, Denmark. June 2011.

Buch RG, Morgan KK, **Stone MB**. Demineralized Bone Matrix Containing Corticocancellous Allograft Bone Chips for the Treatment of Long Bone Nonunions. Western Orthopaedic Association Annual Meeting. Monterey, CA. October 2010.

Buch RG, Morgan KK, **Stone MB**. Preliminary results for a proprietary demineralized bone matrix with corticocancellous allograft chips for acetabuloplasty. Western Orthopaedic Association Annual Meeting. Monterey, CA. October 2010.

Wilding SW, Miller KC, **Stone MB**, Knight KL. Increasing Electrical Stimulation Frequency Above Cramp Threshold Frequency Increases the Strength and Duration of Electrically Induced Muscle Cramps. Poster Presentation. National Athletic Trainers' Association Annual Meeting & Clinical Symposia. San Antonio, TX. June 2009.

Buch RG, Morgan KK, **Stone MB**. Benign bone tumor excision and graft incorporation in 51 patients: average 22 months follow up. Poster Presentation. VIII International Meeting on Cancer Induced Bone Disease. Sydney, Australia. March 2009.

Buch RG, Morgan KK, **Stone MB**. Benign bone tumor excision and graft incorporation in 51 patients: average 22 months follow up. Poster Presentation. Musculoskeletal Tumor Society Annual Meeting. Phoenix, AZ. November 2008.

Crichlow RJ, Davis JJ, Scheid DK, Watts MR, **Stone MB**. Outcomes of Conservatively Managed Pelvic Ring Injuries. Poster Presentation. Orthopaedic Trauma Association Annual Meeting. Boston, MA. October 2007.

McCall TA, Weber TG, Brokaw DS, Jelen BA, Scheid DK, Scharfenberger A, Maar DC, Green J, Shipp M, **Stone MB**. Treatment of Large Segmental Bone Defects With Reamer-Irrigator-Aspirator Bone Graft. Oral Presentation. Orthopaedic Trauma Association Annual Meeting. Boston, MA. October 2007.

Dikos GD, Weber TG, Westin E, **Stone MB**. Axial CT Evaluation of the Distal Tibiofibular Syndesmosis. Poster Presentation. Orthopaedic Trauma Association Annual Meeting. Boston, MA. October 2007.

Boyce AS, Reveal G, Scheid DK, Kaehr DM, Maar D, Watts MR, **Stone MB**. Canine Investigation of rhBMP-2, Autogenous Bone Graft, and rhBMP -2 with Autogenous Bone Graft for the Healing of a Large Segmental Tibial Defect. Poster Presentation. Orthopaedic Trauma Association Annual Meeting. Boston, MA. October 2007.

VandeZandschulp C, Jelen BA, Watts MR, **Stone MB**. Results of Fixation of Humeral Shaft Fractures With Small Fragment Plates. Poster Presentation. Orthopaedic Trauma Association Annual Meeting. Boston, MA. October 2007.

Boyce AS, Reveal G, Scheid DK, Kaehr DM, Maar D, Watts MR, **Stone MB**. Canine Investigation of rhBMP-2, Autogenous Bone Graft, and rhBMP -2 with Autogenous Bone Graft for the Healing of a Large Segmental Tibial Defect. Oral Presentation. Basic Science Focus Forum of the Orthopaedic Trauma Association. Boston, MA. October 2007.

Wiersema B, Brokaw DS, Psaradellis T, **Stone MB**. Open Calcaneus Fractures – Associated Complications and Treatment Protocol. Poster Presentation. Orthopaedic Trauma Association Annual Meeting. Phoenix, AZ. October 2006.

Psaradellis T, Weber TG, Wiersema B, VandeZandschulp C, **Stone MB**. Timing of Surgery and Wound Complications in Calcaneus Fractures. Oral Presentation. Orthopaedic Trauma Association Annual Meeting. Phoenix, AZ. October 2006.

Bernard LW, Au KK, Sefton JM, **Stone MB**, Demchak TJ, Cordova ML. Cryotherapy and Ankle Bracing Effects on Peroneus Longus Response After Sudden Inversion. Oral presentation. National Athletic Trainers' Association Annual Meeting & Clinical Symposia. Atlanta, GA. June 2006.

Stone MB, Edwards JE. Threshold Frequency of an Electrically Induced Muscle Cramp Is Decreased Following Exercise Associated Muscle Cramp. Poster presentation, National Athletic Trainers' Association Annual Meeting & Clinical Symposia. Indianapolis, IN. June 2005.

Kawahara T, Kikuchi N, **Stone MB**, Brucker JB, Edwards JE. Ice bag Application Increases Threshold Frequency of Electrically Induced Muscle Cramp. Oral presentation. National Athletic Trainers' Association Annual Meeting & Clinical Symposia. Indianapolis, IN. June 2005.

Williamson J, Edwards JE, **Stone MB**, Demchak TJ. Muscle Vibration Does Not Affect Electrically Induced Muscle Cramp Threshold Frequency. Oral presentation. National Athletic Trainers' Association Annual Meeting & Clinical Symposia. Indianapolis, IN. June 2005.

Bender AL, Kramer EE, Brucker JB, Demchak TJ, Cordova ML, **Stone MB**. Local Ice Bag Application Does Not Decrease Triceps Surae Muscle Temperature During Treadmill Walking. National Athletic Trainers' Association Annual Meeting & Clinical Symposia. Indianapolis, IN. June 2005.

Stone MB. Exercise Associated Muscle Cramp: Laboratory Lessons – Electrically Induced Muscle Cramp. Mini-symposium. American College of Sports Medicine Annual Meeting. Nashville, TN. June 2005.

Stone MB, Edwards JE, Cordova ML, Ingersoll CD, Babington JP, Chen J. Threshold frequency of an electrically induced cramp increases following a fatiguing exercise. Poster presentation, National Athletic Trainers' Association Annual Meeting & Clinical Symposia. Baltimore, MD. June 2004.

Long BC, Cordova ML, Brucker JB, Demchak TJ, **Stone MB**. Exercise prior to cooling reduces quadriceps cooling time. Poster presentation, National Athletic Trainers' Association Annual Meeting & Clinical Symposia. Baltimore, MD. June 2004.

Palmieri RM, Ingersoll CD, Edwards JE, Hoffman MA, **Stone MB**, Babington JP, Cordova ML, Krause BA. Arthrogenic muscle inhibition is not present in the limb contralateral to a simulated knee joint effusion. Oral presentation, National Athletic Trainers' Association Annual Meeting & Clinical Symposia. St. Louis, MO. June 2003.

Demchak TJ, **Stone MB**, Grinder K, Frahm S. Change in temperature and rewarming do not differ among three cryotherapy treatments. Thematic poster presentation, National Athletic Trainers' Association Annual Meeting & Clinical Symposia. St. Louis, MO. June 2003.

Burr PO, Cordova ML, Ingersoll CD, Demchak TJ, **Stone MB**. Effects of altering intensity during a 10 minute 1 Mhz ultrasound treatment on triceps surae temperature elevation. Thematic poster presentation, National Athletic Trainers' Association Annual Meeting & Clinical Symposia. St. Louis, MO. June 2003.

Krause BA, Ingersoll CD, Edwards JE, Cordova ML, Palmieri RM, **Stone MB**. Ankle ice immersion facilitates the soleus Hoffmann reflex and muscle response. Oral presentation, National Athletic Trainers' Association Annual Meeting & Clinical Symposia. St. Louis, MO. June 2003.

Paris SL, **Stone MB**, Demchak TJ, Brucker JB, Burr PO. Transducer speed does not affect intramuscular temperature increase during a 1 Mhz ultrasound treatment. Poster presentation, National Athletic Trainers' Association Annual Meeting & Clinical Symposia. St. Louis, MO. June 2003. * NATA Research and Education Foundation Undergraduate Student Free Communications Poster Presentation Award.

Stone MB, Edwards JE, Babington PB, Ingersoll CD, Cordova ML. Electrically induced muscle cramp threshold frequency increases following local muscle fatigue. Poster Presentation, American College of Sports Medicine Annual Meeting. San Francisco, CA. May 2003.

Krause BA, Ingersoll CD, Edwards JE, Cordova ML, **Stone MB**, Palmieri RM. Focal temperature change facilitates the peak-peak soleus Hoffmann reflex and muscle response. Poster Presentation, American College of Sports Medicine Annual Meeting. San Francisco, CA. May 2003.

Paris SL, **Stone MB**, Demchak T, Brucker J, Burr P. Transducer speed does not affect intramuscular temperature increases during a 1 Mhz ultrasound treatment. Oral Presentation. Great Lakes Athletic Trainers' Association Annual Meeting. Evansville, IN. March 2003.

Palmieri RM, Ingersoll CD, Edwards JE, Hoffman MA, **Stone MB**, Babington JP, Cordova ML, Krause BA. Arthrogenic muscle inhibition is not present in the limb contralateral to a simulated knee joint effusion. Oral Presentation. Great Lakes Athletic Trainers' Association Annual Meeting. Evansville, IN. March 2003.

Stone MB, Edwards JE, Ingersoll CD, Babington JP, Palmieri RM. Intrasession and intersession reliability of a method to electrically induce muscle cramp. Oral Presentation, Midwest American College of Sports Medicine Annual Meeting. Dearborn, MI. October, 2002.

Stone MB, Stemmans CL, Edwards JE, Ingersoll CD, Palmieri RM, Krause BA. *Certified Athletic Trainers' perceptions of exercise associated muscle cramp.* Poster Presentation, National Athletic Trainers' Association Annual Meeting & Clinical Symposia. Dallas, Texas. June, 2002.

Palmieri RM, Ingersoll CD, Hoffman MA, Cordova ML, Porter DA, Edwards JE, Babington JP, Krause BA, **Stone MB**. *Arthrogenic muscle response following artificial ankle joint effusion.* Oral Presentation, National Athletic Trainers' Association Annual Meeting & Clinical Symposia. Dallas, Texas. June, 2002.

Krause BA, Ingersoll CD, Edwards JE, Cordova ML, Palmieri RM, **Stone MB**. *Knee joint cryotherapy facilitates vastus medialis Hoffmann reflex and muscle response.* Oral Presentation, National Athletic Trainers' Association Annual Meeting & Clinical Symposia. Dallas, Texas. June, 2002.

Stone MB, Vaughan MA, Ingersoll CD, Edwards JE, Babington JP, Palmieri RM, Cordova ML, Krause BA. *A single dose of ginkgo biloba does not affect soleus motoneuron pool excitability.* Poster Presentation, American College of Sports Medicine Annual Meeting. St. Louis, Missouri. June 2002.

Palmieri RM, Ingersoll CD, Cordova ML, Kinzey SJ, **Stone MB**, Krause BA. *Artificial knee joint effusion improves postural steadiness.* Oral Presentation, American College of Sports Medicine Annual Meeting. St. Louis, Missouri. June 2002.

Krause BA, Ingersoll CD, Edwards JE, Cordova ML, Palmieri RM, **Stone MB**. *Joint cryotherapy modulates the soleus Hoffmann reflex and muscle response*. Oral Presentation, American College of Sports Medicine Annual Meeting. St. Louis, Missouri. May 2002.

Stone MB, Vaughan MA, Ingersoll CD, Edwards JE, Babington JP, Palmieri RM, Cordova ML, Krause BA. *A single dose of ginkgo biloba does not affect soleus motoneuron pool excitability*. Oral Presentation, Midwest American College of Sports Medicine Annual Meeting. Columbus, Ohio. October 2001.

Palmieri RM, Ingersoll CD, Cordova ML, Kinzey SJ, **Stone MB**, Krause BA. *Artificial knee joint effusion improves postural steadiness*. Oral Presentation, Midwest American College of Sports Medicine Annual Meeting. Columbus, Ohio. October 2001.

Krause BA, Ingersoll CD, Edwards JE, Cordova ML, Palmieri RM, **Stone MB**. *Joint cryotherapy modulates the soleus Hoffmann reflex and muscle response*. Oral Presentation, Midwest American College of Sports Medicine Annual Meeting. Columbus, Ohio. October 2001.

Krause BA, Ingersoll CD, Edwards JE, Cordova ML, Palmieri RM, **Stone MB**. *Ankle joint and triceps surae muscle cooling produce similar changes in the soleus H:M ratio*. Oral Presentation, National Athletic Trainers' Association Annual Meeting & Clinical Symposia. Los Angeles, California. June 2001.

Stone MB, Merrick MA, Ingersoll CD, Edwards JE. *Ibuprofen and bromelain do not resolve pain or muscle dysfunction following delayed onset muscle soreness*. American College of Sports Medicine Annual Meeting, Baltimore, Maryland. June 2001.

CLINICAL TRIALS

A 2 and 5 year comparative evaluation of clinical outcomes in the treatment of moderate lumbar spinal stenosis with the Superior® Indirect Decompression System (IDS) vs. direct decompression surgery for FDA Actual Conditions of Use Study.

A Clinical Study to Assess the Safety and Effectiveness of the Premia Spine TOPS System

Post-Market, 10 Year Follow Up of Mobi-C Cervical Disc for One and Two Level Treatment of Cervical Disc Disease

A phase 3, open-label study to evaluate the safety of oliceridine (TRV130) in patients with acute pain for which parenteral opioid therapy is warranted.

The Investigational Plan for the Evaluation of the ACADIA™ Facet Replacement System.

Clinical Investigation Plan for Post Approval ‘Real Conditions of Use’ Study, A 2 and 5 year comparative evaluation of clinical outcomes in the treatment of degenerative spinal stenosis with concomitant low back pain by decompression with and without additional stabilization using the coflex Interlaminar Technology for FDA real conditions of use study.

Spineology Clinical Outcomes Trial SCOUT IDE Clinical Investigation.

Clinical Study Protocol for the Investigation of the Simplify™ Cervical Artificial Disc.

Prospective, Concurrently Controlled, Multi-Center Study to Evaluate the Safety and Effectiveness of the Spinal Kinetics™ M6-C Artificial Cervical Disc Compared to Anterior Cervical Discectomy and Fusion (ACDF) for the Treatment of Symptomatic Cervical Radiculopathy.

An IDE Study of the Freedom Lumbar Disc in the Treatment of Lumbar Degenerative Disc Disease.

Clinical Study Protocol for the Investigation of the Kineflex-C Cervical Artificial Disc.

A Phase 2b, Randomized, Double-Blind, Placebo-Controlled Study To Evaluate The Safety and Efficacy of *Staphylococcus Aureus* 4-Antigen Vaccine (SA4Ag) in Adults Undergoing Elective Posterior Instrumented Lumbar Spinal Fusion Procedures.

A Prospective, Multicenter, Randomized, Double-blind, Placebo-controlled Study to Evaluate the Efficacy and Safety of a Single Injection of relexmestrocil-L Alone or combined with Hyaluronic Acid (HA) in Subjects with Chronic Discogenic Lumbar Back Pain Through 12 Months.

A Multicenter, Open-label Study of SI-6603 in Patients with Lumbar Disc Herniation (Phase III).

A Multicenter, Randomized, Double-blind, Controlled, Comparative Study of SI-6603 in Patients with Lumbar Disc Herniation (Phase III).

INSITE: Investigation of Sacroiliac Fusion Treatment.

A non-randomized safety and efficacy study of patients receiving Nucel® bone graft for one or two level interbody fusion for degenerative disease of the lumbar spine. (Nucel-03).

A Comparison of Complication Rates between Lateral Approaches to the Lumbar Spine: K2M RAVINE® Far Lateral System versus NuVasive XLIF®.

A Multi-Center, Prospective, Randomized, Controlled Clinical Trial Comparing the Safety and Effectiveness of the Mobi-C® Prosthesis to Conventional Anterior Cervical Discectomy and Fusion in the Treatment of Symptomatic Degenerative Disc Disease (DDD) in the Cervical Spine.

A prospective, Multi-Center, Randomized Study Comparing the Vertiflex Superior Interspinous Spacer (ISS) to the X-STOP Interspinous Process Decompression (IPD) System in Patients with Moderate Lumbar Stenosis.

Treatment of Lumbar Spinal Stenosis with X-STOP® PEEK Spacer in Moderately Symptomatic Patients.

A Non-Randomized Prospective Clinical Evaluation of an Injectable Composite Graft in the Treatment of Tibial Plateau Fractures.

A Randomized, Double-Blind, Placebo-Controlled Study to Evaluate the Efficacy, Safety, Tolerability, and Pharmacokinetics of Drug X in Subjects with Closed Fracture of the Tibial Shaft.

A Post-Marketing Study to Evaluate rhBMP-7 Implant for Use as an Alternative to Autograft in Patients with Recalcitrant Long Bone Nonunions

Prospective, Multi-Center Minimally Invasive Adult Spinal Deformity Outcomes Database Registry.

A single-arm prospective, multi-center study of Nucel in patients receiving interbody fusion for one and two level degenerative disease of the lumbar spine

Minimally Invasive Surgery for the Treatment of Adult Spinal Deformity: A Multicenter Registry

Multi-Center Retrospective and Observational Data Registry for Clinical and Radiographic Outcomes of Spine Surgeries performed with the RAVINE Lateral Access System

Determination of the True 5-year Incidence of Adjacent Segment Disease after Total Disc Arthroplasty for Cervical Myeloradiculopathy at One and Two Levels

A Pivotal, Multi-Center, Clinical Trial Evaluating the Safety and Effectiveness of the Lumbar TDR Device in Patients with Single-level Lumbar Degenerative Disc Disease

KAST Study: The Kiva System as a Vertebral Augmentation Treatment – A Safety and Effectiveness Trial

Clinical Study Protocol for the Investigation of the Kineflex Lumbar Artificial Disc

OTHER CLINICAL RESEARCH

The Effect of Low-Intensity Pulsed Ultrasound for the Treatment of Fractures At-Risk for Nonunion.

Clinical Management for the Prevention of Post-Operative Cognitive Deficit in Geriatric Fracture Patients.

Appropriateness of Orthopaedic Trauma Patient Transfers from Community Based Hospitals to a Level 1 Trauma Center.

Orthopaedic Trauma Fracture, Dislocation, and Treatment General Outcomes Registry.

Heterotopic Ossification After an Open Femur Fracture with Bone Loss Treated with rhBMP-2.

Post-market Review of Spinal Fusion Augmented with Recombinant Human Morphogenetic Protein-2.

Minimally Invasive Transforaminal Lumbar Interbody Fusion with Recombinant Human Morphogenetic Protein-2.

Analysis of Recombinant Human Morphogenetic Protein-2 and Different Bulking Materials for Posterolateral Lumbar Fusions with Instrumentation Compared to Same Institution Historical Controls.

Utilization of Polyetheretherketone (PEEK) Interbody Cages and Recombinant Human Bone Morphogenetic Protein-2 (rhBMP-2) Constructs for Cervical Spine Fusion.

Safety and Efficacy of rhBMP-2 and PEEK in Three and Four Level Anterior Cervical Discectomy and Fusion with Instrumentation: A Consecutive Series of 34 Patients.

Axial CT Evaluation of the Distal Tibiofibular Syndesmosis in Untraumatized Subjects. Orthopaedic Trauma Association.

A Retrospective Study of the Use of INFUSE® Bone Graft in Clinical Practice.

The Effect of Autogenous Bone Graft, Autogenous Bone Graft plus rhBMP-2, and rhBMP-2 plus Granular Hydroxyapatite for Healing of 5 cm Segmental Bone Defects with Internal Fixation in Canine Tibiae.

The Effect of Low-Intensity Pulsed Ultrasound for the Treatment of Fractures At-Risk for Nonunion.

Prospective Outcomes Investigation of Operatively Treated Orthopaedic Trauma Injuries at a Level 1 Trauma Center.

A survey of the characteristics of exercise associated muscle cramp in NCAA Division I-AA football players. Indiana State University Research Committee.

Change in temperature and rewarming do not differ among three cryotherapy treatments. Indiana State University School of Graduate Studies Dissemination of Research Award, 2003.

TEACHING

Indiana State University

ATTR 210	Introduction to Analysis of Human Motion
ATTR 212	Care and Prevention of Athletic Injuries and Illnesses
ATTR 212L	Care and Prevention of Athletic Injuries and Illnesses Laboratory
ATTR 225	Medical Terminology for the Allied Health Professional
ATTR 280	Clinical Kinesiology
ATTR 472	Therapeutic Modalities and Rehabilitation Techniques
ATTR 435	Pharmacology for Athletic Trainers
ATTR 475	Therapeutic Exercise
ATTR 662	Athletic Trauma – Upper Extremity
ATTR 675	Therapeutic Modalities and Rehabilitation Techniques
ATTR 691	Research in Athletic Training

THESIS COMMITTEES, CHAIR

Sato H. The effect of exercise on the threshold frequency of electrically induced muscle cramp.

THESIS COMMITTEES

Barth D. The effect of a counter-irritant lotion on gastrocnemius motoneuron pool excitability.

Williamson J. The effect of vibration on the threshold frequency of electrically induced muscle cramp.

RESEARCH PROJECT COMMITTEE, CHAIR

Kawahara T. and Kikuchi N. The effect of local temperature change on the threshold frequency of an electrically induced muscle cramp.

RESEARCH PROJECT COMMITTEE

Bernard L and Au K. The effect of cryotherapy, ankle brace, and ankle brace with cryotherapy on peroneus longus response to ankle inversion.

UNDERGRADUATE RESEARCH PROJECT

Paris, S. Transducer speed does not affect intramuscular temperature increase during a 1 Mhz ultrasound treatment.

PROFESSIONAL AFFILIATIONS

American College of Sports Medicine, 2001-2011
Midwest Chapter of American College of Sports Medicine, 2001-2008
Great Lakes' Athletic Trainers' Association, 2000-2008
National Athletic Trainers' Association, Certified Member, 1998-2011
Rocky Mountain Athletic Trainers' Association, 1998-1999, 2009-2011

PROFESSIONAL SERVICE ACTIVITIES

Journal of Athletic Training, Guest Reviewer, 2002-2012
Journal of Sport Rehabilitation, Guest Reviewer, 2000-2004
NCAA Pre-Nationals Cross Country Meet, Certified Athletic Trainer, 2002
NCAA National Cross Country Meet, Certified Athletic Trainer, 2002

COMMITTEES

Indiana State University Athletic Training Department

Capital Campaign, 2004
Assistant/Associate Professor Faculty Search, 2003-2004
Entry-level Curriculum, 2003-present
Faculty and Student Affairs, 2003-present
Admissions, 2003
Graduate Curriculum, 2002-present
History and Archives, 2001-2003
Clinical Education, 2000-present
National Athletic Trainers' Association Board of Certification Self-Study, 2000-2002

Indiana State University School of Health and Human Performance

Awards, 2004

Indiana State University

Academic Affairs, Graduate Student Association, 2002-2003

HONORS AND AWARDS

Indiana State University, College of Health and Human Performance, Young Professional Alumni Award, 2007
Freddie H. Fu, MD, NATA Research and Education Foundation New Investigator Award Nominee, 2004
NATA Research and Education Foundation Undergraduate Student Free Communications Poster Presentation Award, Student Advisor, 2003
Phi Kappa Phi Honor Society, 2002
Indiana State University Undergraduate/Graduate Research Showcase Award, 2002
Indiana State University Doctoral Fellowship, 2000-2003

Indiana State University Graduate Assistantship, 1999-2000

Rocky Mountain Athletic Training Association Student Scholarship Award, 1998

Brigham Young University Half-Tuition Scholarship, 1992-1993