

SSHP Faculty Publications & Grants for Fiscal Year 2013-2014

As a responsibility of the **SSHP Research Advisory Committee**, this listing has been developed to recognize the research activities of the UT Southwestern School of Health Professions faculty (included on the SSHP Faculty Roster). The publications and grants listed represent responses from faculty members to a request for this information for the fiscal year 13-14. (September 01, 2013 - August 31, 2014). Programs or individuals not listed reported no publications/grants for the time period requested. We apologize in advance for any omissions or inaccuracies.

SSHP Faculty Publications and Grants Summary FYs 2013-14

Department of Clinical Nutrition

Publications	21
Grants and Contracts	3

Community Prevention and Intervention Unit

Publications	0
Grants and Contracts	7

Emergency Medicine and Education Program

Publications	16
Grants and Contracts	0

Healthcare Education and Research

Publications	1
Grants and Contracts	4
Grant Submissions in Review	1
Unfunded Grant Submissions	1

Department of Healthcare Sciences

Publications	4
Grants and Contracts	3

Department of Physician Assistant Studies

Publications	13
Poster Presentations	6
Grants and Contracts	1
Oral Presentations	4
Workshop	1

Department of Physical Therapy

Publications	7
Grants and Contracts	3

Department of Prosthetics and Orthotics

Publications	4
Abstracts and Presentations	8
Grants and Contracts	4

Department of Rehabilitation Counseling

Publications	5
Grants and Contracts	0

Department of Clinical Nutrition

Publications:

- Clegg DJ**, Palmer BF. Effects of an estrogen receptor α variant. *N Engl J Med*. 2013;369(17):1663-4.
- Davis KE**, Carstens EJ, Irani BG, Gent LM, Hahner LM, **Clegg DJ**. Sexually dimorphic role of G protein-coupled estrogen receptor (GPER) in modulating energy homeostasis. *Horm Behav*. 2014;66(1):196-207
- Davis KE**, Prasad C, Vijayagopal P, Juma S, Imrhan V. Serum soluble receptor for advanced glycation end products correlates inversely with measures of adiposity in young adults. *Nutr Res*. 2014;34 (6):475-85
- Farrell SW, Finley CE, Jackson AW, **Vega GL**, Morrow JR Jr. Association of multiple adiposity exposures and cardiorespiratory fitness with all-cause mortality in men: the Cooper Center Longitudinal Study. *Mayo Clin Proc*. 2014;89(6):772-80.
- Gardner CD, Whitsel LP, Thorndike AN, Marrow M, Otten JJ, Foster GD, **Carson JAS**, Johnson RK. Food and beverage environment and procurement policies for healthier work environments. *Nutr Rev*. 2014;(6):390-410
- Grundy SM, Neeland IJ, Turer AT, **Vega GL**. Ethnic and gender susceptibility to metabolic risk. *Metab Syndr Relat Disord*. 2014;12(2):110-6.
- Grundy SM, Neeland IJ, Turer AT, **Vega GL**. Waist circumference as measure of abdominal fat compartments. *J Obes*. 2013;2013:454285.
- Jain N, Minhajuddin AT, Neeland IJ, Elsayed EF, **Vega GL**, Hedayati SS. Association of urinary sodium-to-potassium ratio with obesity in a multiethnic cohort. *Am J Clin Nutr*. 2014;99(5):992-8.
- Lichtenstein AH, **Carson JAS**, Johnson RD, Kris-Etherton PM, Pappas A, Rupp L, Stitzel KF, Vafiadis DK, Fulgoni VL. Food intake patterns assessed using front-of-pack labeling program criteria associated with better diet quality and lower cardiometabolic risk. *Am J Clin Nutr*. 2014;99(3):454-462
- Neeland IJ, Ayers CR, Rohatgi AK, Turer AT, Berry JD, Das SR, **Vega GL**, Khera A, McGuire DK, Grundy SM, de Lemos JA. Associations of visceral and abdominal subcutaneous adipose tissue with markers of cardiac and metabolic risk in obese adults. *Obesity (Silver Spring)*. 2013;21(9):E439-47.
- Neeland IJ, Gupta S, Ayers CR, Turer AT, Rame JE, Das SR, Berry JD, Khera A, McGuire DK, **Vega GL**, Grundy SM, de Lemos JA, Drazner MH. Relation of regional fat distribution to left ventricular structure and function. *Circ Cardiovasc Imaging*. 2013;6(5):800-7.

- Neinast KM, Frank AP, Sun K, Park J, Zehr JA, Vishvanath L, Morselli E, Amelotte M, Palmer BF, Gupta RK, Scherer PE, **Clegg DJ**. ER α upregulates PhD3 to ameliorate HIF-1 induced fibrosis and inflammation in adipose tissue. *Mol Metab*. 2014;3(6):642-51.
- Palmer BF, **Clegg DJ**. Ascent to altitude as a weight loss method: the good and bad of hypoxia inducible factor activation. *Obesity (Silver Spring)*. 2014;22(2):311-7. doi: 10.1002/oby.20499
- Picard A, Rouch C, Kassis N, Moullé VS, Croizier S, Denis RG, Castel J, Coant N, Davis K, **Clegg DJ**, Benoit SC, Prévot V, Bouret S, Luquet S, Le Stunff H, Cruciani-Guglielmacci C, Magnan C. Hippocampal lipoprotein lipase regulates energy balance in rodents. *Mol Metab*. 2013;3(2):167-76.
- Simmons J, **Latson B**, Carson J, **Day L**. The effects of lutein and zeaxanthin supplementation on age-related macular degeneration. In, *The Spectrum. Newsletter of Healthy Aging of the Academy of Nutrition and Dietetics*, Spring, 2014; 11-17.
- Taylor C, **Latson B**, **Michalsky L**. Factors that affect weight loss in a workplace program. *Medical Nutrition Matters – Medical Nutrition Practice Group of the Academy of Nutrition and Dietetics*, 2013;32(4):1-7.
- Travnicek M and **Day L**. Clinical outcomes associated with fish oil-containing lipid emulsions in critical illness. *Support Line*. 2014; 36(2):12-19
- Vega GL**, Barlow CE, Grundy SM, Leonard D, DeFina LF. Triglyceride-to-high-density-lipoprotein-cholesterol ratio is an index of heart disease mortality and of incidence of type 2 diabetes mellitus in men. *J Investig Med*. 2014;62(2):345-9.
- Vega GL**. Is non-high-density lipoprotein cholesterol a marker and therapeutic target for dyslipidemia in metabolic syndrome? *Metab Syndr Relat Disord*. 2014;12(9):451-3.
- Vikarunnessa S, Weiner MF, **Vega GL**. LDL phenotype in subjects with mild cognitive impairment and Alzheimer's disease. *J Alzheimers Dis*. 2013;36(3):571-5.

Grants:

Gloria Vega, PhD

1. Merck IIS entitled, “Adipocyte cellularity in South Asians”
2. King Foundation (Co-PI Vega GL): Is there a relationship between possible longevity factors and Alzheimer’s disease?
3. Sankyo laboratories (P.I. Vega GL): A study of the mechanisms of improvement in glycemic control by bile acid sequestrants in subjects with pre-diabetes.

Community Prevention & Intervention Unit

Grants and Contracts:

Anne C. Freeman, MSPH

1. Two competitive applications for Capacity-Building Assistance Center grant; CDC; Anne Freeman, PI; \$1,900,000 each per year; April 1, 2014 – March 31, 2019. Applications were not submitted correctly by UT Southwestern's Office of Sponsored Projects Administration and so were not reviewed.
2. Competitive application for Resource Center for HIV Prevention and Treatment for Black Men Who Have Sex with Men; Health Resources and Services Administration; Anne Freeman, PI; \$1,900,000 per year; July 1, 2014 - June 30, 2017. Scored high but not funded.
3. Non-competitive renewal of HIV Prevention Program contract: Texas Department of State Health Services; Anne Freeman, PI; \$849,000; January 1, 2014-December 31, 2014.
4. Non-competitive renewal of Medical Monitoring Project contract with Texas Department of State Health Services; Anne Freeman, PI; \$276,000; June 1, 2014-May 31, 2015.
5. Non-competitive renewal of HIV Incidence Project contract with Texas Department of State Health Services; Anne Freeman, PI; \$224,000; January 1, 2014-December 31, 2014.
6. Non-competitive contract with the University of California, San Francisco; Anne Freeman, local PI; \$200,000; August 1, 2013-July 31, 2014.
7. Non-competitive contract with the University of California, San Francisco; Anne Freeman, local PI; \$250,000; August 1, 2013-July 31, 2014.

Emergency Medicine Education Program

Publications:

Richard King

Omar LA, **King RV**, Pease J, & Omar HA. (2014). The Role of a Radiology Electronic Notification System in the Emergency Department Setting and its Impact on Patient Care. *Journal of Clinical Medicine Research*, 6(4), 267-271. doi: <http://dx.doi.org/10.14740/jocmr1821w>

Walsh, L., Altman, B., Strauss-Riggs, K., & **King, R.** (2014). Enhancing the Translation of Disaster Health Competencies into Practice. *Disaster Med Public Health Prep*, 8(1), 70-78.

Langabeer JR, Henry TD, Kereiakes, DJ, Dellifrairie J, Emert J, Wang, Z, Stuart L, **King R**, Segrest W, Moyer P, Jollis, JG. (2013). Growth in percutaneous coronary intervention capacity relative to population and disease prevalence. *J Am Heart Assoc*, 2(6), e000370. doi: 10.1161/JAHA.113.000370

DelliFraine J, Langabeer J, Segrest W, Fowler R, **King R**, et al. (2013). Developing an ST-elevation myocardial infarction system of care in Dallas County. *American Heart Journal*, 165(6), 926-931.

Kenneth Navarro

Navarro, K. (2014, July). The research review: How to improve airway control for obese patients. Available at <http://www.ems1.com/airway-management/articles/1957214-How-to-improve-airway-control-for-obese-patients/>

Navarro, K. (2014, July). The research review: Prove it: Does a delay between AED shock and compressions reduce survival rates? Available at <http://www.ems1.com/aed/articles/1945217-Prove-it-Does-a-delay-between-AED-shock-and-compressions-reduce-survival-rates/>

Navarro, K. (2014, May). The research review: Prove it: Can a vacuum device during CPR improve cardiac output? Available at <http://www.ems1.com/ems-products/cpr-resuscitation/articles/1914302-Prove-it-Can-a-vacuum-device-during-CPR-improve-cardiac-output/>

Navarro, K. (2014, February). The research review: Vacuum spine boards: Transport devices of the future. Available at <http://www.ems1.com/evergreen/articles/1680079-Vacuum-spine-boards-Transport-devices-of-the-future/>

Navarro, K. (2014, January). The research review: To intubate or not to intubate? Available at <http://www.ems1.com/airway-management/articles/1661390-To-intubate-or-not-to-intubate/>

Navarro, K. (2014, January). The research review: Diabetes and renal dialysis. Available at <http://www.ems1.com/clinical-corner/articles/1638674-Diabetes-and-renal-dialysis/>

Navarro, K. (2013, December). The research review: Prove it: Does lidocaine reduce cardiac rearrest following out-of-hospital arrest? Available at <http://www.ems1.com/ems-products/cpr-resuscitation/articles/1630510-Prove-It-Does-lidocaine-reduce-cardiac-rearrest-following-out-of-hospital-arrest/>

Navarro, K. (2013, December). The research review. Amiodarone in the prehospital environment. Available at <http://www.ems1.com/trauma/articles/1616880-Amiodarone-in-the-Prehospital-Environment/>

Navarro, K. (2013, November). The research review. The use of CPAP in prehospital care. EMS1.com. Available at <http://www.ems1.com/airway-management/articles/1595005-The-use-of-CPAP-in-prehospital-care/>

Navarro, K. (2013, October). The research review. Managing bed bug infestations. EMS1.com. Available at <http://www.ems1.com/patient-handling/articles/1582837-Managing-bed-bug-infestations/>

Navarro, K. (2013, September). The research review. Prove It: Improving neurological outcome following cardiac arrest. EMS1.com. Available at <http://www.ems1.com/ems-products/Patient-Monitoring/articles/1546899-Prove-It-Improving-neurological-outcome-following-cardiac-arrest/>

Navarro, K. (2013, September). The research review. Capnography in the pediatric patient. EMS1.com. Available at <http://www.ems1.com/trauma/articles/1507283-Capnography-in-the-pediatric-patient/>

Healthcare Education and Research

Publications:

Millner, L.N. (2014) Growing a diverse health workforce. *The Journal of Physician Assistant Education*, 25 (1): 31-32.

Grants and Contracts:

1. Project Director on Subcontract: Lori Millner, PhD
Source: Department of Health and Human Services – Subcontract through University of Texas Medical Branch – Texas AHEC East Division (Steve Shelton, PA-C at UTMB is the PI)
Title: Model State Supported Area Health Education Centers
Amount of subcontract : \$94,000
Dates: September 1, 2013-August 31, 2014
Purpose: To implement core AHEC programs to improve the health of our communities.
2. Project Director on subcontract: Lori Millner, PhD
Source: State of Texas – Interagency contract with the University of Texas Medical Branch – Department of Legal Affairs - Texas AHEC East Division
Title: Support for DFW AHEC programs (Steve Shelton, PA-C at UTMB is the PI)
Amount: \$116,000
Dates: September 1, 2013-August 31, 2014
Purpose: To implement core AHEC programs to improve the health of our communities.
3. Project Director: Lori Millner, PhD
Source: Coastal Area Health Education Center
Title: Ventanilla de Salud
Amount: \$57,400
Dates: January 1, 2013 – December 31, 2013
Purpose: To provide health education and health referral services to the Hispanic community.

4. Project Director: Carolyn Bradley-Guidry
Project Manager: Lori Millner, PhD
Source: Susan G. Komen Dallas Affiliate
Title: Screening Our Sisters
Amount: \$70,000
Dates: April 1, 2013-Mar 31, 2014
Purpose: Provide Breast Self-Awareness Education and Client navigation services minority women in Dallas County

Grant Submissions (in review)

1. Project Co-director: Lori Millner, PhD
Source: Texas Higher Education Coordinating Board
Title Applicant Awareness and Enrichment Program
Amount: \$74, 763
Dates: September 1, 2014 – August 31, 2016
Purpose: Increase the number of African American and Hispanic Applicants to Physician Assistant, Prosthetics Orthotics, and Physical Therapy programs at UT Southwestern.

Unfunded Grant Submissions

1. Project Director: Carolyn Bradley-Guidry
Project Manager: Lori Millner, PhD
Source: Susan G. Komen Dallas Affiliate
Title: Screening Our Sisters
Amount: \$70,000
Dates: April 1, 2014-Mar 31, 2015
Purpose: Provide Breast Self-Awareness Education and Client navigation services minority women in Dallas County

Department of Healthcare Sciences

Publications:

- Mizuno, M., G. Lozano, K. Siddique, M. Baum and **S.A. Smith**. Enalapril attenuates the exaggerated sympathetic response to physical stress in prenatally programmed hypertensive rats. *Hypertension*, 63: 324-329, 2014.
- Smith, S.A.** No pain, no gain: Somatosensation from skeletal muscle. *Experimental Physiology*, 99.2: 340-341, 2014.
- Smith, S.A.**, R.M. Downey, J.W. Williamson and M. Mizuno. Autonomic dysfunction in muscular dystrophy: a theoretical framework for muscle reflex involvement. *Frontiers in Physiology: Integrative Physiology*, 5: 1-9, 2014.
- Mizuno, M., G.A. Iwamoto, W. Vongpatanasin, J.H. Mitchell and **S.A. Smith**. Exercise training improves functional sympatholysis in spontaneously hypertensive rats through a nitric oxide dependent mechanism. *American Journal of Physiology*, 307: H242-H251, 2014.

Grants and Contracts:

1. National Institutes of Health, National Heart, Lung and Blood Institute Basic Research Grant Award (RO1 #HL113738, Scott Smith, Co-Investigator); "The Role of Aldosterone on Augmented Exercise Pressor Reflex in Hypertension"; \$346,538/year.
2. American Heart Association, National, Mentored Clinical & Population Research Award (#14CRP18500016, Scott Smith, Mentor); "The Impact of Gait Training on the Metabolic Cost of Walking and Cardiorespiratory Capacity in Persons Post-Stroke"; \$75,000/year.
3. Texas Higher Education Coordinating Board, Minority Health Research and Education Grant (#13682, Scott Smith, Co-PI); "Applicant Awareness and Enrichment Program"; \$75,000/year.

Department of Physician Assistant Studies

Publications:

P. Eugene Jones, Ph.D., PA-C

Jones PE, Williams J. Student mental health implications for physician assistant education. *J Physician Assist Educ.* 2014;24(2):5-10.

Jones PE, Simpkins S, Hocking J. Imperfect physician assistant and physical therapist admissions process in the United States. 2014;11. *J Educ Eval Health Prof.* DOI:<http://dx.doi.org/10.3352/jeehp.2014.11.11>.

Tiffany Kindratt, MPH

Bailey, S., **Billmeier Kindratt, T.**, Smith, H., Reading, D. Food allergy training event for restaurant staff; a pilot evaluation. *Clinical and Translational Allergy*, 2014; 4(26); doi: 10.1186/2045-7022-4-26.

Nazar, C.M.J., **Kindratt, T. B.**, Ahmad, S.M.A., Ahmed, M., Anderson, J. Barrier to successful practice of chronic kidney diseases at the primary care level: a systematic review. *Journal of Renal Injury Prevention*, 2014; 3(3): 61-67.

Dallo, F., **Kindratt, T.** Disparities in Preventive Health Behaviors among Non-Hispanic White Men: Heterogeneity among US- and Foreign-Born Arab and European Americans. *American Journal of Men's Health*. 2014; First published on April 29, 2014 as doi:10.1177/1557988314532285.

Shakil, A., Bardwell, J., Sherin, K., Sinacore, J., Zitter, R., **Kindratt, T.** Development of Verbal HITS for Intimate Partner Violence Screening in Family Medicine. *Family Medicine*, 2014; 46(3): 180-185.

Jolly, L., Pagels, P., Woodfin, G., Silver, M., **Kindratt, T.**, Gimpel, N. Knowledge and Attitudes towards Breastfeeding in an African American Male Population. *Journal of Obstetrics, Gynecology and Neo-Natal Nursing*, 2013; 42(6): 664-671. doi: 10.1111/1552-6909.12258.

Gutierrez, N., **Kindratt, T.**, Pagels, P., Foster, B., & Gimpel, N. Health literacy, health information seeking behaviors and internet use among patients attending a private and public clinic in the same geographic area. *Journal of Community Health*. 2014 Feb;39(1):83-9. doi: 10.1007/s10900-013-9742-5.

Dallo, F., **Kindratt, T.** & Snell, T. (2013) Serious psychological distress: Ethnic heterogeneity among foreign-born non-Hispanic whites. *Social Psychiatry and Psychiatric Epidemiology*. 48(12):1923-30. doi: 10.1007/s00127-013-0703-1.

Pagels, P., **Kindratt, T.**, Arnold, D. Brandt, J., Woodfin, G., & Gimpel, N. (2013) Letter to the Editor: Health Literacy Objective Structured Clinical Exam (OSCE) for Family Medicine Residents. *Medical Teacher*. 35(10):874-5.

Book chapters

Kindratt, T., Kitzman-Ulrich, H. Dissemination: Reporting and writing. In: Gimpel, N. *Community Action Research in Family Medicine Residencies: A Community Medicine Handbook*. Dallas, TX; University of Texas Southwestern Medical Center Print Shop; 2014. p. 133-150.

Salvador, A., **Kindratt T.** The Health Insurance Portability and Accountability Act (HIPAA) & Institutional Review Board (IRB). In: Gimpel, N. *Community Action Research in Family Medicine Residencies: A Community Medicine Handbook*. Dallas, TX; University of Texas Southwestern Medical Center Print Shop; 2014.p. 61-83.

Klocko, D. Ear, Eyes, Nose and Throat Review. In: Thibodeau D, Plantz S, eds. *Pearls of Wisdom Physician Assistant Exam Review*, 5th Ed. New York, NY: McGraw Hill; 2013.

Poster Presentations:

1. Blower, J., Nazir, T., Munez, K., **Kindratt, T.**, Gimpel, N. Assessing Completion of Preventive Health Services In Female Patients At a Family Medicine Residency Clinic. Society of Teachers of Family Medicine Annual Spring Conference. San Antonio, TX. May 2014. Also presented at the Dallas Chapter of the Texas Academy of Family Physicians' Poster Research Contest, Dallas, TX. May 2014.
2. Govindan, A., Patel, M., Wani, A., **Kindratt, T.**, Gimpel, N. Shared Medical Appointments: Expanding Education for Family Medicine Residents In Diabetes Management (Research In Progress). North American Primary Care Research Group's 41st Annual Meeting. Ottawa, Canada. Nov 2013. Also presented at the Society of Teachers of Family Medicine Annual Spring Conference. San Antonio, TX. May 2014, Dallas Chapter of the Texas Academy of Family Physicians Poster Research Contest, Dallas, TX. May 2014 and JPS Research Day. Fort Worth, TX. June 2014.

3. Silva, P., Siddiqi, S., Johnson, J., **Kindratt, T.**, Budhwar, N., Gimpel, N. Identification And Intervention of Potentially Inappropriate Medication That Meets The Beers Criteria At The Parkland Family Medicine Geriatric Clinic (Research In Progress). Quality Improvement in Healthcare and Patient Safety Symposium, Temple, TX. Sep 2013. North American Primary Care Research Group's 41st Annual Meeting. Ottawa, Canada. Nov 2013.
4. Gimpel, N., Pagels, P., **Kindratt, T.** Community Action Research Track: Equipping Future Physicians with Population Health Concepts and Research Knowledge in Community Medicine. Digital Poster presented at the First Global Conference on Research Integration and Implementation. Canberra, Australia and Online, Sep 2013.
5. **Klocko DJ.** What Biases Do Our Students Develop During Clinical Rotations? Physician Assistant Education Association Annual Education Forum, Memphis, TN. October 18, 2013.
6. **Klocko DJ.** What Biases Do Our Students Develop During Clinical Rotations? Innovations in Health Science Education Annual Meeting, Poster session: The University of Texas Academy of Health Science Education Annual Meeting, Austin, TX. February 21, 2013.

Grants and Contracts:

Tiffany Kindratt, MPH

1. Source: Texas Academy of Family Physicians Foundation
 Title: Exploring the barriers of cervical cancer screening knowledge and health behaviors among women and their mother's influence.
 Period: 08/01/14-Present
 Role: Co-Investigator
 Description: Development of community-based health education curriculum to improve women's knowledge of pap tests and HPV vaccines while also inspiring mothers to encourage their daughters to adhere to cervical cancer screening guidelines and obtain the HPV vaccines.

Oral Presentations (2 presented):

1. **Kindratt, T.**, Gimpel, N., Pagels, P., Syed, Z. Research & Scholarly Activity Curriculum for Family Medicine Residents. Society of Teachers of Family Medicine Annual Spring Conference. San Antonio, TX. May 2014.
2. Gimpel, N., Pagels, P., Roy, V., Tullius, Z., **Kindratt, T.** Family Medicine Resident Education: An Innovative Model of Community Medicine Training. North American Primary Care Research Group's 41st Annual Meeting. Ottawa, Canada. Nov 2013. Society of Teachers of Family Medicine Annual Spring Conference. San Antonio, TX. May 2014.

3. Jolly, L., Pagels, P., Woodfin, G., Silver, M., **Kindratt, T.**, Gimpel, N. Knowledge and Attitudes towards Breastfeeding in an African American Male Population. Oral Presentation at the American Public Health Association 141st Annual Meeting and Exposition, Boston, MA. Nov. 2013.
4. Mehta, S., **Kindratt, T.**, Gimpel, N. Establishing long-term medical follow-up in an underserved, high-risk population identified at a local health fair. Oral Presentation at the American Public Health Association 141st Annual Meeting and Exposition, Boston, MA. Nov. 2013.

Workshop (author, not presented)

1. Pagels, P., **Kindratt, T.**, Gimpel, N. Implementing And Evaluating a Health Literacy Objective Structured Clinical Examination In Medical Education. North American Primary Care Research Group's 41st Annual Meeting. Ottawa, Canada. Nov 2013.

Department of Physical Therapy

Publications:

- Russell RD, Knight JR, Mulligan E, Khazzam MS. Structural integrity after rotator cuff repair does not correlate with patient function and pain: a meta-analysis. *J Bone Joint Surg Am.* 2014 Feb 19;96(4):265-71.
- Zafereo J, Devanna R, Mulligan EP, Wang S. Hip stiffness patterns in lumbar flexion or extension-based movement syndromes. *Arch Phys Med Rehab.* 2014. accepted for publication
- Dewey, D.C., Miocinovic, S., Bernstein, I., Khemani, P., Dewey, R.B. III., Query, R., Chitnis, S., Dewey, R.B. Jr. Automated gait and balance parameters diagnose and correlate with severity in Parkinson disease. *J Neurol Sci.* 345(1-2): 131-138, 2014.
- McCain KJ, Farrar MF, Smith PS. Gait Recovery in an Adolescent with Ischemic Spinal Cord Stroke: A Case Report. *Pediatric Physical Therapy.* 2014. In press.
- Zafereo, J, Deschenes, B. The Role of Spinal Manipulation in Modifying Central Sensitization. *Journal of Applied Biobehavioral Research.* Accepted 2014
- Jones PE, Simpkins S, Hocking J. Imperfect physician assistant and physical therapist admissions process in United States of America. 2014;11. *J Educ Eval Health Prof.* DOI:<http://dx.doi.org/10.3352/jeehp.2014.11.11>
- Cano SJ, Mayhew A, Nelson L, et al. Rasch Analysis of Clinical Outcome Measures in Spinal Muscular Atrophy. *Muscle & Nerve.* 2014 49(3):422-30.

Grants and Contracts:

1. DeVahl J, Simpkins S, Blau P, Mulligan EP. Texas Society of Allied Health Professionals (TSAHP) for Physical Therapists' Perspectives on Lifelong Learning. Funded for \$1500. - 2014
2. McCain K, Query R. The impact of gait training on the metabolic cost of walking and cardiorespiratory capacity in persons post-stroke, Funded \$150,000.00

3. Zafereo, J. Regional manual therapy and motor control exercise for management of chronic low back pain with hip and spine motion loss: Texas Physical Therapy Foundation Grant. Funded for \$2,750

Department of Prosthetics-Orthotics

Publications:

- Gao F, Zhang LQ (2014) Evaluation and treatment devices in rehabilitation. In: Clinical rehabilitation engineering (in Chinese) [Book chapter]
- Gao F, Zhang LQ (2014) Development and Application of Intellistretch Rehabilitation Robot - Review. China Medical Devices (in Chinese)
- Zhou ZH, Zhou Y, Wang NH, Gao F, Wang L, Wei KL, Wang QN (2014) Changes of Achilles Tendon Properties Via 12-Week PNF Based Robotic Rehabilitation of Ankle Joints with Spasticity And/or Contracture. In: IEEE 2014 International Conference of the Engineering in Medicine and Biology Society, Aug. 26 - 30, 2014, Chicago, IL, USA
- Zhou ZH, Zhou Y, Wang NH, Gao F, Wei KL, Wang QN (2014) On the design of a robot-assisted rehabilitation system for ankle joint with contracture and/or spasticity based on proprioceptive neuromuscular facilitation. In: IEEE International Conference on Robotics and Automation (ICRA) May 31 - June 7 2014, Hong Kong, China

Abstracts and Presentations:

1. Wang Q, Gao F (2014) Biomechanical Evaluation of Therapeutic Footwear in Able-bodied Persons. In: The 7th World Congress of Biomechanics, July 6-11 2014, Boston, MA
2. Bhadane M, Gao F, Francisco GE, Zhou P, Li S (2014) Is the resting joint angle indicative of post-stroke hypertonia? In: Association of American Physicians Annual Meeting, Chicago, Illinois. April 25-27 2014 (Electrode Store Award)
3. Aguirre A, Funk T, Gao F (2014) In Vivo Investigation of Patellar Tendon Properties Using Sonography in Transtibial Amputees. In: American Academy of Orthotists and Prosthetists 40th Annual Meeting & Scientific Symposium, Feb. 26 - Mar. 1 2014, Chicago, IL
4. Call B, Motylinski J, Gao F, Bedard GG, Gray L (2014) Bench Test Validation of a Carbon Infused Polypropylene Posterior Leaf Spring Ankle Foot Orthosis. In: American Academy of Orthotists and Prosthetists 40th Annual Meeting & Scientific Symposium, Feb. 26 - Mar. 1 2014, Chicago, IL
5. Quan K, Mosley R, Bekkelund T, Gao F (2014) A Quantitative Investigation of the Effectiveness of the Non-Invasive Halo in Restricting Passive Neck Motion in the Supine Position. In: American Academy of Orthotists and Prosthetists 40th Annual Meeting & Scientific Symposium, Feb. 26 - Mar. 1 2014, Chicago, IL
6. Stone A, Rasmussen K, Gao F, Kapp S (2014) Validation of Alternative Posterior Attachments for Upper Limb Figure-of-Eight Harnessing. In: American Academy of Orthotists and Prosthetists 40th Annual Meeting & Scientific Symposium, Feb. 26 - Mar. 1 2014, Chicago, IL

7. Bhadane M, Gao F, Francisco GE, Zhou P, Li S (2013) Evaluating severity of post-stroke spasticity through the resting joint angle In: Society for Neuroscience Annual Meeting, San Diego, California November 9-13 2013
8. Gao F (2013) Applications of Computer-Controlled Motorized Devices in Rehabilitation. In: Department of Electrical Engineering Seminar, UT Arlington. Sept. 6th 2013 (invited talk)

Grants and Contracts:

1. 7/01/2009-6/30/2014. American Heart Association National Scientist Development Grant
Investigation of effects of motorized facilitated ankle stretching. (09SDG2080460)
Role: Principal Investigator
2. 7/11/2013-7/10/2015. Pilot multi-center evaluations of reflex and nonreflex changes in cerebral palsy using a portable device, American Academy of Cerebral Palsy and Developmental Medicine (AACPDMD). PIs: Deborah Gaebler, MD and Liqun Zhang, PhD. Mauricio Delgado,MD (PI at Texas Scottish Rite Hospital for Children)
Role: co-investigator
3. 06/01/2014-05/31/2018. NSF
SHB: Type II (INT): Collaborative Research: Smart Shoes for Diabetic Foot Diagnosis and Ulcer Prevention
Role: Co-PI
4. 09/01/2014-08/31/2017. CDMRP Peer Reviewed Orthopaedic Research Program (PRORP)
Smart Sensing and Dynamic Fitting for Enhanced Comfort and Performance of Prosthetics
Role: co-I and site PI

Department of Rehabilitation Counseling

Publications:

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