

SSHP Faculty Publications & Grants for Fiscal Year 2011-2012

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 11-12. (September 01, 2011 - August 31, 2012). 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 2011-12

Department of Clinical Nutrition

Publications	22
Grants and Contracts	7

Community Prevention and Intervention Unit

Publications	0
Grants and Contracts	9

Emergency Medicine and Education Program

Publications	15
Grants and Contracts	0

Healthcare Education and Research

Publications	0
Grants and Contracts	6
Peer Reviewed Posters	1

Department of Physical Therapy

Publications	16
Grants and Contracts	5
Presentations	5

Department of Physician Assistant Studies

Publications	1
Peer Reviewed Abstracts	1
Peer Reviewed Posters	2
Presentations	4

Department of Prosthetics and Orthotics

Publications	5
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Grants and Contracts	2
Proposals Submitted	11

Department of Rehabilitation Counseling

Publications	13
Grants and Contracts	7

DEPARTMENT OF CLINICAL NUTRITION

Publications

Carson JS, Michalsky L, **Latson B**, Banks K, Tong L, Gimpel N, Lee JJ, DeHaven MJ. The Cardiovascular Health of Urban African Americans: Diet-Related Results from the Genes, Nutrition, Exercise, Wellness, and Spiritual Growth (GoodNEWS) Trial. *J Acad Nutr and Diet*. 2012;112(11):1852-1858.

Contributor to grant application with Dr. Flores (repeating submission) RCT of the Effectiveness of a Weight-Management Intervention for Overweight Latino Children.

DeFina LF, **Vega GL**, Leonard D, Grundy SM. Fasting glucose, obesity, and metabolic syndrome as predictors of type 2 diabetes: the Cooper Center Longitudinal Study. *J Investig Med*. 2012 Dec;60(8):1164-8. doi: 10.231/JIM.0b013e318275656a. PubMed PMID: 23111652.

Neeland IJ, Turer AT, Ayers CR, Powell-Wiley TM, **Vega GL**, Farzaneh-Far R, Grundy SM, Khera A, McGuire DK, de Lemos JA. Dysfunctional adiposity and the risk of prediabetes and type 2 diabetes in obese adults. *JAMA*. 2012 Sep 19;308(11):1150-9. PubMed PMID: 22990274.

Malhotra J, Tonorezos ES, Rozenberg M, **Vega GL**, Sklar CA, Chou J, Moskowitz CS, Eshelman-Kent DA, Janiszewski P, Ross R, Oeffinger KC. Atherogenic low density lipoprotein phenotype in long-term survivors of childhood acute lymphoblastic leukemia. *J Lipid Res*. 2012 Dec;53(12):2747-54. doi: 10.1194/jlr.P029785. Epub 2012 Sep 13. PubMed PMID: 22984143; PubMed Central PMCID: PMC3494249.

Balakrishnan P, Grundy SM, Islam A, Dunn F, **Vega GL**. Influence of upper and lower body adipose tissue on insulin sensitivity in South Asian men. *J Investig Med*. 2012 Oct;60(7):999-1004. PubMed PMID: 22914598.

Turer AT, Browning JD, Ayers CR, Das SR, Khera A, **Vega GL**, Grundy SM, Scherer PE. Adiponectin as an independent predictor of the presence and degree of hepatic steatosis in the Dallas Heart Study. *J Clin Endocrinol Metab*. 2012 Jun;97(6):E982-6. doi: 10.1210/jc.2011-3305. Epub 2012 Mar 21. PubMed PMID:22438228.

Grundy SM, Barlow CE, Farrell SW, **Vega GL**, Haskell WL. Cardiorespiratory fitness and metabolic risk. *Am J Cardiol*. 2012 Apr 1;109(7):988-93. doi: 10.1016/j.amjcard.2011.11.031. Epub 2012 Jan 3. PubMed PMID: 22221951.

Vega GL, Dunn FL, Grundy SM. Effect of colesvelam hydrochloride on glycemia and insulin sensitivity in men with the metabolic syndrome. *Am J Cardiol*. 2011 Oct 15;108(8):1129-35. doi: 10.1016/j.amjcard.2011.06.011. Epub 2011 Aug 1. PubMed PMID: 21813109.

Turer AT, Khera A, Ayers CR, Turer CB, Grundy SM, **Vega GL**, Scherer PE. Adipose tissue mass and location affect circulating adiponectin levels. *Diabetologia*. 2011 Oct;54(10):2515-24. doi: 10.1007/s00125-011-2252-z. Epub 2011 Jul 22. PubMed PMID: 21779869.

Chow CC, Periwal V, Csako G, Ricks M, Courville AB, Miller BV 3rd, **Vega GL**, Sumner AE. Higher acute insulin response to glucose may determine greater free fatty acid clearance in African-American women. *J Clin Endocrinol Metab.* 2011 Aug;96(8):2456-63. doi: 10.1210/jc.2011-0532. Epub 2011 May 18. PubMed PMID: 21593106; PubMed Central PMCID: PMC3146797.

Tonorezos ES, **Vega GL**, Sklar CA, Chou JF, Moskowitz CS, Mo Q, Church TS, Ross R, Janiszewski PM, Oeffinger KC. Adipokines, body fatness, and insulin resistance among survivors of childhood leukemia. *Pediatr Blood Cancer.* 2012 Jan;58(1):31-6. doi: 10.1002/pbc.22964. Epub 2011 Jan 19. PubMed PMID: 21254377; PubMed Central PMCID: PMC3520427.

Powell TM, de Lemos JA, Banks K, Ayers CR, Rohatgi A, Khera A, McGuire DK, Berry JD, Albert MA, **Vega GL**, Grundy SM, Das SR. Body size misperception: a novel determinant in the obesity epidemic. *Arch Intern Med.* 2010 Oct 11;170(18):1695-7. doi: 10.1001/archinternmed.2010.314. PubMed PMID: 20937931.

Wilpitz, K and Rodder, S. Effective Elements within Multi-Component Pediatric Weight Loss Programs. *Building Blocks* 2012;35(4);6-11.

Carson JS, Michalsky L, Latson B, Banks K, Tong L, Gimpel N, Lee JJ, DeHaven MJ. The Cardiovascular Health of Urban African Americans: Diet-Related Results from the Genes, Nutrition, Exercise, Wellness, and Spiritual Growth (GoodNEWS) Trial. *J Acad Nutr and Diet.* 2012;112(11):1852-1858.

Faith MS, Van Horn L, Appel LJ, Burke LE, Carson JAS, Franch HA, Jakicic JM, Kral TVE, Odoms-Young A, Wansink B, Wylie-Rosett J. Evaluating Parents and Adult Caregivers as "Agents of Change" for Treating Obese Children: Evidence for Parent Behavior Change Strategies and Research Gaps: A Scientific Statement from the American Heart Association. *Circulation.* 2012;125(9);1186-1207.

Vaidyanathan V, Bastarrachea RA, Higgins PB, Voruganti VS, Kamath S, DiPatrizio NV, Piomelli D, Comuzzie AG, **Parks EJ**. Selective cannabinoid-1 receptor blockade significantly benefits fatty acid and triglyceride metabolism in weight-stable nonhuman primates. [PMID: 22761159, PMIC 3468508]. *Amer J Physiol, Endocrinology and Metabolism*, 303(5):E624-34, 2012

Ramos-Roman MA, Lapidot SA, Phair, **Parks EJ**. Insulin activation of plasma non-esterified fatty acid uptake in metabolic syndrome. [PMC: 3417322]. *Arteriosclerosis Thrombosis, & Vascular Biology*, 32:1799-1808, 2012

Shetty S, Ramos-Roman MA, Cho Y-R, Brown J, Plutzky J, Muise ES, Horton JD, Scherer PE, **Parks EJ**. Enhanced fatty acid flux triggered by adiponectin over-expression. [PMIC 3249680]. *Endocrinology*, 153(1):113-122, 2012

Ramos-Roman MA, Sweetman L, Valdez MJ, Parks EJ. Postprandial changes in plasma acylcarnitine concentrations as markers of fatty acid flux in metabolic syndrome. [PMC3219812]. *Metabolism*, 61(2):202-212, 2012

Lambert JE, Parks EJ. Getting the label in: Practical research strategies for tracing dietary fat. In press in International J of Obesity, 2012

Lambert JE, Parks EJ. Postprandial metabolism of meal triglyceride in humans. [PMID: 22281699]. Biochim Biophys Acta-Molecular and Cell Biology of Lipids, 1821(5):721-726, 2012

Grants and Contracts:

American Diabetes Association Research Grant

E. Parks (PI)

01/30/13 – 01/29/16

“Insulin resistance in the control of intestinal lipid metabolism”

\$598,524 total costs

Merck Research Laboratories #231-00

E. Parks (PI)

08/20/12 – 08/19/14

“A clinical study to assess postprandial metabolism using an oral stable isotope in healthy subjects”

\$633,583 total costs

RL1 (R01) DK 081187

E. Parks (PI) no-cost extension (NCE)

10/01/07 – 09/30/13

“Dietary macronutrient composition, weight loss, and liver substrate metabolism” A study of the effect of nutrient partitioning in patients with documented non-alcoholic fatty liver disease.

5R01DK054387-12

A. Garg (PI)

04/01/07 – 03/31/12

“Genetic and metabolic basis of familial lipodystrophies”

Role: Co-Investigator

Sankyo Inc. Study on colesevelam hydrochloride on glucose and insulin resistance in metabolic syndrome. PI Gloria Lena Vega, PhD

Merck Inc. Study of adipose tissue cellularity subproject in Asian Indians. PI Gloria Lena Vega, PhD

Merck Inc. Educational grant for CME symposium on Weight Management of type 2 diabetes mellitus, Oct 5th, 2013. PI Gloria Lena Vega, PhD

COMMUNITY PREVENTION AND INTERVENTION UNIT

Publications

None

Grants and Contracts:

Non-competitive renewal application for STD/HIV Prevention Training Center grant; CDC; Anne Freeman, PI; \$587,000; April 1, 2012-March 31, 2013.

Non-competitive renewal application for Capacity-Building Assistance Center grant; CDC; Anne Freeman, PI; \$542,862; April 1, 2012 – March 31, 2013.

Non-competitive renewal of HIV Prevention Program contract: Texas Department of State Health Services; Anne Freeman, PI; \$770,000; January 1, 2012-December 31, 2012.

Competitive renewal of HIV prevention Program contract: Texas Department of State Health Services: Anne Freeman, PI; \$849,000; January 1, 2013-December 31, 2016 - still under review.

Non-competitive renewal of Medical Monitoring Project contract with Texas Department of State Health Services; Anne Freeman, PI; \$276,000; June 1, 2012-May 31, 2013.

Non-competitive renewal of HIV Incidence Project contract with Texas Department of State Health Services; Anne Freeman, PI; \$224,000; January 1, 2012-December 31, 2012.

Non-competitive renewal of VARHS Project contract with Texas Department of State Health Services; Anne Freeman, PI; \$125,000; January 1, 2012-December 1, 2012.

Non-competitive contract with the University of California, San Francisco; Anne Freeman, local PI; \$200,000; August 1, 2011-July 31, 2012.

Contract with John Snow, International, Boston, MA, Anne Freeman, local PI; \$260,000; September 6, 2011 - December 31, 2012.

EMERGENCY MEDICINE AND EDUCATION PROGRAM

Publications

National Association of EMS Educators (2012). *Foundations of Education, an EMS Approach*. Cason D, McKenna K, editors, (2nd ed.). Clifton Park, NY: Delmar Cengage.

Cason D. (2012). Well-Being of the EMS Provider. In Pons P, Markovchick V. *Prehospital Care Pearls & Pitfalls*, PonsP and Markovchick V. Shelton, Cn, People's Medical Publishing House. pp 101-107.

Cason D, Robinson K (2011). EMS Education Agenda. *Journal of Emergency Medical Services*, September, 2011, pp 66-71.

Cason D, Tritt P. (2011). Why Accreditation and Why Now? *National Association of EMT News*, Winter, 2011.

Walsh, L, Subbarao I, Gebbie K, Schor KW, Lyznicki J, Strauss-Riggs K, Cooper A, Hsu EB, **King RV**, et al. Core Competencies for Disaster Medicine and Public Health. *Disaster Medicine and Public Health Preparedness*. 2012 (6) 45-52.

North CS, Pollio DE, Smith RP, **King RV**, Pandya A, Surís AM, Hong BA, Dean DJ, Wallace NE, Herman DB, Conover S, Susser E, Pfefferbaum B. Trauma Exposure and Posttraumatic Stress Disorder Among Employees of New York City Companies Affected by the September 11, 2001 Attacks on the World Trade Center. *Disaster Medicine and Public Health Preparedness*, 2011 Sep; 5(Suppl 2): S205-S213.

Navarro, K. (2012, August). Prove it: Real-time CPR feedback devices during out-of-hospital resuscitation improve ROSC rates. EMS1.com. Available at <http://www.ems1.com/ems-products/aeds/articles/1310477-Prove-it-Real-time-CPR-feedback-devices-during-out-of-hospital-resuscitation-improve-ROSC-rates/>

Navarro, K. (2012, July). Chronic obstructive pulmonary disease. EMS1.com. Available at <http://www.ems1.com/columnists/kenny-navarro/articles/1308954-Chronic-obstructive-pulmonary-disease/>

Navarro, K. (2012, June). Prove it: Endotracheal intubation improves survival compared to supraglottic airway insertion following cardiac arrest. EMS1.com. Available at <http://www.ems1.com/ems-products/medical-equipment/airway-management/articles/1307309-Prove-it-Endotracheal-intubation-improves-survival-compared-to-supraglottic-airway-insertion-following-cardiac-arrest/>

Navarro, K. (2012, May). Prove it: Supraglottic airway insertion is easier than endotracheal intubation for pediatric patients. EMS1.com. Available at <http://www.ems1.com/ems-products/medical-equipment/airway-management/articles/1291093-Prove-it-Supraglottic-airway-insertion-is-easier-than-endotracheal-intubation-for-pediatric-patients/>

Navarro, K. (2012, April). Prove it: Early use of therapeutic hypothermia improves cardiac arrest outcomes. EMS1.com. Available at <http://www.ems1.com/cardiac-care/articles/1273004-Prove-it-Early-use-of-therapeutic-hypothermia-improves-cardiac-arrest-outcomes/>

Navarro, K. (2012, March). The true cost of diabetes. EMS1.com. Available at <http://www.ems1.com/columnists/kenny-navarro/articles/1245398-The-true-cost-of-diabetes/>

Navarro, K. (2012, February). Prove it: Prehospital 12-lead ECGs optimize post-arrest care. EMS1.com. Available at <http://www.ems1.com/cardiac-care/articles/1244607-Prove-it-Prehospital-12-lead-ECGs-optimize-post-arrest-care/>

Navarro, K. (2012, January). Prove It: Epinephrine administration improves outcome following cardiac arrest. EMS1.com. Available at <http://www.ems1.com/cardiac-care/articles/1225970-Prove-it-Epinephrine-administration-improves-outcome-following-cardiac-arrest/>

Navarro, K. (2012). Respiratory syncytial virus. Texas EMS Magazine, in press.

Navarro, K. (2012). Management of heat emergencies. Texas EMS Magazine, in press.

HEALTHCARE EDUCATION AND RESEARCH
DFW Area Health Education Center

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 : \$86,240

Dates: September 1, 2011-August 31, 2012

Purpose: To implement core AHEC programs to improve the health of our communities.

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 : \$113,760

Dates: September 1, 2011-August 31, 2012

Purpose: To implement core AHEC programs to improve the health of our communities.

Project Director: Lori Millner, PhD

Source: Coastal Area Health Education Center

Title: Ventanilla de Salud

Amount: \$45,000

Dates: January 1, 2012 – December 31, 2012

Purpose: To provide health education and health referral services to the Hispanic community.

Project Director: Lori Millner, PhD (Sub-contract with Migrant clinicians network)

Source: Migrant Clinicians Network

Title: Moving Against Cancer: Collaborative Health Promotion, Education and Training to Assist the Local Hispanic and Hispanic Mobile Poor.

Amount of subcontract: \$10,150

Dates: August 1, 2011 – August 31, 2012

Purpose: To provide Spanish language cancer education and to disseminate Spanish language cancer education materials.

Project Director: Lori Millner, PhD

Source: HRSA through a grant with the National AHEC Organization

Title: A-TrACC Project for the Behavioral/Mental Health of Veterans/Service Members and Families - Train-the-Trainer Workshop

Amount: \$4,000

Dates: December 1, 2011 – March 30, 2012

Purpose: Provide training to HRSA Region 6 AHEC centers to offer CE opportunities to health care professionals on PTSD for returning service members.

Project Director: Lori Millner, PhD
Source: Susan G. Komen for the Cure
Title: The Ventanilla de Salud Breast Health Pilot Program
Amount: \$50,000
Dates: June 1, 2012-May 31, 2013
Purpose: Provide Breast Self-Awareness Education to 12,000 Spanish –speaking men and women and to provide client navigation services to approximately 150-300 clients.

Peer Reviewed Posters

Bradley-Guidry, C., Jones, P.E., & Millner, L. (2011, November). *African-american physician assistants in texas*. Presented at the Physician Assistant Education Association Annual Education Forum. New Orleans, LA.

DEPARTMENT OF PHYSICAL THERAPY **Publications**

McCain K.J., Smith P.S., Pollo F.E., Coleman S.C., Baker S. Excellent Outcomes for Adults Who Experienced Early Standardized Treadmill Training during Acute Phase of Recovery from Stroke: A Case Series. *Topics in Stroke Rehabilitation*. 2011 (18) 428-436.

Ferraro R., Pinto-Zipp G., Simpkins S., Clark, M. Effects of an incline walking surface and balance abilities on spatiotemporal gait parameters in older adults. *Journal of Geriatric Physical Therapy* (accepted for publication).

Mulligan E. Effect of plantar intrinsic muscle training on medial longitudinal arch morphology and dynamic function. *Man Ther*. 2012 – Submitted and in review.

Mulligan E. Identification of retearing of the rotator cuff following repair: MRI interobserver and intraobserver agreement. *Am J Sports Med*. 2012. in press

Mulligan E. Shoulder Radiology for the Physical Therapist: An Independent Study. *American Physical Therapy Association*, 2012. in press

E. Mulligan. Reliability and Diagnostic Accuracy of the Lachman Test Performed in a Prone Position. *J Orthop Sports Phys Ther.*, 2011. 41(10)749-57.

E. Mulligan. Evaluation and Management of Ankle Syndesmosis Injuries. *Phys Ther Sport*. 2011. 12(2); 60-73.

E. Mulligan. Athletic Rehabilitation of the Leg, Foot, and Ankle. Rehabilitation of the Injured Athlete. ed: Harrelson G, Andrews J, Williams/Wilkins, 1991 1st ed; 1997 2nd ed; 2002 3rd ed., 2011 4th ed

McCain K.J., Smith P.S., Query R.Q. *Ankle Foot Orthosis Selection to Facilitate Gait Recovery in Adults Post Stroke: A Case Series*. Journal of Prosthetics and Orthotics Jul 2012 24 (3) p11-121.13.

Hodics T., Pezzullo J., Jabbar K., Smith P.S., *Wolf Motor Function Test standardized for persons with moderate to severe hemiparesis*. Archives of PM and R. May 2012 epub.

Mizuno, M., M.N. Murphy, J.H. Mitchell and **S.A. Smith**. Skeletal muscle reflex-mediated changes in sympathetic nerve activity are abnormal in spontaneously hypertensive rats. *American Journal of Physiology*, 300(3): H968-H977, 2011.

Mizuno, M., T. Kawada, A. Kamiya, T. Miyamoto, S. Shimizu, T. Shishido, **S.A. Smith** and M. Sugimachi. Exercise training augments the dynamic heart rate response to vagal but not sympathetic stimulation in rats. *American Journal of Physiology*, 300(4): R969-R977, 2011.

Murphy, M.N., M. Mizuno, J.H. Mitchell and S.A. Smith. Cardiovascular regulation by skeletal muscle reflexes in health and disease. *American Journal of Physiology*, 301: H1191-H1204, 2011.

Mizuno, M., M.N. Murphy, J.H. Mitchell and **S.A. Smith**. Antagonism of the TRPV1 receptor partially corrects muscle metaboreflex overactivity in spontaneously hypertensive rats. *Journal of Physiology*, 589.24: 6191-6204, 2011.

Gatson, J.W., M.M. Liu, K. Abdelfattah, J.G. Wigginton, S. Smith, S. Wolf, J.W. Simpkins and J.P. Minei. Estrone is neuroprotective in rats following traumatic brain injury. *Journal of Neurotrauma*, 29(12): 2209-2219, 2012.

Leal, A.K., M.N. Murphy, G.A. Iwamoto, J.H. Mitchell and S.A. Smith. A role for nitric oxide within the nucleus tractus solitarius in the development of muscle mechanoreflex dysfunction in hypertension. *Experimental Physiology*, 97.12: 1292-1304, 2012.

Grants and Contracts:

National Institutes of Health, National Heart, Lung and Blood Institute Basic Research Grant Award (RO1 #HL088422, PI); "Mechanisms of Exercise Pressor Reflex Overactivity in Hypertension". **Funded**
2008-13

National Institutes of Health, National Heart, Lung and Blood Institute Basic Research Grant Award (RO1 #HL113738, Co-Investigator); "The Role of Aldosterone on Augmented Exercise Pressor Reflex in Hypertension". **Submitted**
2012

The impact of early standardized task-specific training after stroke on absolute and relative cardio-respiratory/metabolic demands during exercise Funding source: American Heart Association Southwest Affiliate SWA Winter 2012 Clinical Research.
Status: Submitted and reviewed January 2012

The impact of cooling on gait training for persons living with MS – Pilot Grant. Funding Source Multiple Sclerosis Society
Status: Submitted and reviewed October 2012

The role of a 2 channel NMES orthosis for retraining walking for persons living with MS - Pilot Grant. Funding Source Multiple Sclerosis Society
Status: Submitted and reviewed October 2012

Presentations:

Presentation title: Raising Expectations for Gait Recovery after Stroke: An Evidence-Based Approach, American Physical Therapy Association Combined Sections Meeting, Chicago, Illinois, February 2012.

Presentation title: Raising Expectations for Gait Recovery after Stroke: An Evidence-Based Approach, American Congress of Rehabilitation Medicine 88th Annual Meeting, Atlanta, Georgia, October 2011.

Impact of Plantar Intrinsic Muscle Training on Navicular Drop in Relaxed Stance. Poster Presentation submitted for APTA Combined Sections Meeting – San Diego, CA – 2/13.

Reliability and Diagnostic Accuracy of the Lachman Test in Individuals with Large Thighs. Poster Presentation at APTA Combined Sections Meeting - Chicago, IL – 2/12.

An Interactive Journal Club Experience: A Report on the Clinical Value of Immediate Replication of Study Methods and Findings Related to Unilateral Step Down Performance. Poster Presentation at TPTA Annual Conference. The Woodlands, TX – 10/11.

DEPARTMENT OF PHYSICIAN ASSISTANT STUDIES

Publications

Klocko DJ, Hoggatt-Krumweide K, Olivares-Urueta M, Williamson JW. Development, Implementation and Short-term Effectiveness of an Interprofessional Education Course in a School of Health Professions. *Journal of Allied Health*. 2012 41(1): 14-20.

Peer-Reviewed Abstracts

Klocko D. Short Term Effectiveness of an Interprofessional Education Course on Physician Assistant and Other Health Professions Students. *The Journal of the American Academy of Physician Assistants*. June 2012.

Peer-Reviewed Posters

Bradley-Guidry, C., Jones, P.E., & Millner, L. (2011, November). *African-american physician assistants in texas*. Presented at the Physician Assistant Education Association Annual Education Forum. New Orleans, LA.

Klocko DJ Curriculum Cardioversion: Converting a Lecture Based EKG Course to a Self-directed Course. Innovations in Health Science Education Annual Meeting, The University of Texas Academy of Health Science Education February 23, 2012. Honorable Mention Award. 2nd place out of 30 posters.

Presentations

Short Term Effectiveness of an Interprofessional Education Course on Physician Assistant and Other Health Professions Students. 2nd Annual PA Research Day. American Academy of Physician Assistants Annual CME Conference, Toronto, CAN. May, 2012

Building Your Resources to Support Faculty Development. Physician Assistant Education Association Education Forum. PAEA Faculty Development Institute Committee presentation. PAEA Annual Education Forum, Seattle, WA. November, 2012.

Managing the Road to Promotion and Tenure; Test Item Analysis: How do we know the students are learning?; Is this slide too busy?: How to improve your presentation skills, Speed Mentoring. Lectures presented as faculty facilitator for PAEA Basic Faculty Skills Certificate Program, PAEA Annual Education Forum, Seattle, WA. November, 2012.

Applying Competencies to a Clinical Curriculum. Southwestern Academy of Teachers Second Annual Educational Symposium, UT Southwestern Medical Center, Dallas, TX. April 5, 2012.

DEPARTMENT OF PROSTHETICS-ORTHOTICS

Publications

Gao F (2012) Power grip force is modulated in repeated elbow movement. Ergonomics 55: 489-499

Gao F, Kapp S (2012) Success of hinged AFOs depends on alignment. Lower Extremity Review

Gao F, Zhang LQ (in press) Evaluation and treatment devices in rehabilitation. In: Clinical rehabilitation engineering (in Chinese) [Book chapter]

Gao F, Zhang F, Huang H (2011) Investigation of sit-to-stand and stand-to-sit in an above knee amputee. Conf Proc IEEE Eng Med Biol Soc 2011: 7340-7343

Li GK, **Gao F, Wang ZG** (2011) A photogrammetry-based system for 3D surface reconstruction of prosthetics and orthotics. Conf Proc IEEE Eng Med Biol Soc 2011: 8459-8462

Grants and Contracts:

American Heart Association National Scientist Development Grant (09SDG2080460)
Investigation of effects of motorized facilitated ankle stretching.

PI (Gao)

7/01/2009-6/30/2013

Aspen Medical Products Inc.

Comparative Biomechanical Efficacy of the Vista Collar/CTO Orthoses

PI (Gao) Co-I (Carlton)

09/01/2011-

Proposal submitted:

NIH R41HD066803-01NIH STTR phase II

Precise 3D Photogrammetry Measurement of Human Body Surface.

PI (Gao, 20%) Co-I (Kapp, 5%)

07/01/2012-06/30/2014

NIH R03 HD074686-01

Grip force control in Body powered upper limb prosthesis

PI (Gao, 25%) Co-I (Kapp, 10%)

09/01/2012-08/31/2014

NIH R15 HD073800-01

In vivo investigation of 3D femur kinematics in transfemoral amputee gait

PI (Gao, 30%) Co-I (McColl, 10%) Co-I (Kapp, 10%)

09/01/2012-06/30/2014

NIH R21 HD069889-01A1 (resubmission)

Investigation of range of motion intervention in diabetic foot

PI (Gao, 20%) Co-I (Lavery, 10%) Co-I (Kowalske, 5%)

07/01/2012-06/30/2014

NIDRR Field Initiate

Investigation of therapeutic ankle intervention in diabetics with partial foot amputation

PI (Gao, 20%) Co-I (Lavery, 5%)

09/01/2012-08/31/2015

NSF Career

Biomechanics of body powered upper limb prosthesis

PI (Gao, 15%)

09/01/2013-08/31/2018

NSF

SHB: Type II (INT): Collaborative Research: Smart Shoes for Diabetic Foot Diagnosis and Ulcer Prevention

Co-PI (Gao, 10%) PI (Huang, UTA)

09/01/2012-08/31/2017

AOPA foot project

Investigation of Thresholds Selection Used in 2010 AOPA Foot Project Report

PI (Gao, 15%) Co-I (Kapp, 3%)

10/15/2012-10/14/2013

American Diabetes Association

Investigation of range of motion intervention in diabetic foot

PI (Gao, 20%) Co-I (Lavery, 10%)

07/01/2012-06/30/2015

DoD Peer Reviewed Orthopaedic Idea Development Grant
An innovative imaging methodology to quantify in vivo 3D femur kinematics during trans-femoral amputee ambulation
PI (Gao, 30%) Co-I (McColl, 10%) **Co-I (Kapp, 5%)** Co-I (Gottschalk, 5%)
09/01/2013-08/31/2016

UTSW High Impact / High Risk Grant
Investigation of an innovative foot-ankle range of motion intervention in preventing ulceration in diabetic foot
PI (Gao) Co-I (Lavery)
07/01/2012-06/30/2013

DEPARTMENT OF REHABILITATION COUNSELING **Publications**

Books

Chan, F., Malachy, B., Chronister, J., Lee, E.J., & Chiu, C.Y. (2012). *Certified rehabilitation counselor examination preparation: A concise guide to the foundations of rehabilitation counseling*. New York: Springer Publishing Company.

Chapters

Chiu, C.Y., Rose, L., Drake, R., & Casenave, G. (2012). Research and program evaluation. In F. Chan, B. Malachy, J. Chronister, E. J. Lee, & C.Y. Chiu (Eds.), *Certification rehabilitation counselor examination preparation: A concise guide to the foundations of rehabilitation counseling* (pp. 155-167). New York: Springer Publishing Company.

Chiu, C.Y., Drake, R., Rose, L., & Casenave, G. (2012). Medical, functional, and environmental aspects of disability. In F. Chan, B. Malachy, J. Chronister, E. J. Lee, & C.Y. Chiu (Eds.), *Certification rehabilitation counselor examination preparation: A concise guide to the foundations of rehabilitation counseling* (pp. 169-188). New York: Springer Publishing Company.

Articles

Chiu, C. Y., Lynch, R., Chan, F., & Berven N. (2011). The Health Action Process Approach as a motivational model for physical activity self-management for people with multiple sclerosis: A path analysis. *Rehabilitation Psychology, 56*(3), 171-181. doi: 10.1037/a0024583

Catalano, D., Chan, F., Wilson, L., Chiu, C. Y., & Muller, V. R. (2011). The buffering effect on resilience on depression among individuals with spinal cord injury: A structural equation Model. *Rehabilitation Psychology, 56*(3), 200-211. doi: 10.1037/a0024571

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Grants and Contracts:

Four proposals have been submitted this year: a (1) a NIH R21 grant application; (2) a Pilot Research Grant application sponsored by the National Multiple Sclerosis Society (NMSS); (3) a Mental Health Research Grant for Tenure-Track Assistant Professors in Texas sponsored by the Hogg Foundation for Mental Health; and (4) The University of Texas System Health Science Education Small Grants Program sponsored by The University of Texas Academy of Health Science Education. Three letters of intent have been submitted, one to NMSS, and two to the North Texas Food Bank (NTFB). There are two ongoing research projects; one is funded by the UTSW School of Health Professions and the other one is funded by NTFB.

National Institute of Health, Dissemination and Implementation Research in Health (R21): "Breast Cancer Rehabilitation Improving Daily Function and Role Participation." **\$275,000** (2013-2015). (Principal Investigator). Submitted.

National Multiple Sclerosis Society. Pilot Research Grants: "Psychometric Properties of Outcome Measures Used to Evaluate Symptoms of Multiple Sclerosis." **\$42,923** (2012-2013). (Principal Investigator). Submitted.

Hogg Foundation for Mental Health. Mental Health Research Grants for Tenure-Track Assistant Professors in Texas: "A Theory-Driven Physical Activity Self-Management Intervention for Middle-Aged and Older Adults with Serious Mental Illness." **\$17,400** (2012-2013). (Principal Investigator). Submitted.

The North Texas Food Bank. The sponsored research program: "Stages of Change for Self Sufficiency." **\$56,000** (2012-2013). (Principal Investigator). Submitted.

The North Texas Food Bank. The sponsored research program: "Relationships Between Food Insecurity, Eating Behavior, and Health Among Food Assistance Users." **\$50,000** (2012-2013). (Principal Investigator). Submitted.

The University of Texas Academy of Health Science Education. The University of Texas System. Health Science Education Small Grants Program: "Improving Evidence-Based Practice Education by Building an Outcome Measure Information System for the University Rehabilitation Services." **\$4,780** (2012-2013). (Principal Investigator). Submitted.