



ARMY MEDICAL DEPARTMENT CENTER & SCHOOL



U.S. ARMY MEDICAL DEPARTMENT CENTER & SCHOOL

U.S. HEALTH READINESS CENTER OF EXCELLENCE

GRADUATE SCHOOL SCHOLARY ACTIVITY REPORT

FY15

1. The following is a summary report of all scholarly activity produced by the graduate faculty from the Academy of Health Sciences Graduate School:

A. Publications (Journals/Book Chapters): 87

B. Published Abstracts: 34

C. Platform Presentations: 48

D. Poster Presentations: 68

E. Grant Funding Awarded: \$7,619,545.00

F. Invited Lectures: 43

G. Academic/Research Awards: 39

2. This report covers both the campus-based and hospital-based programs.

3. The following pages provide program details for the summary report.

4. POC for the FY15 Scholarly Activity Report is COL Scott Shaffer.

US Army Graduate Program in Anesthesia Nursing

A. Publications:

1. Burgert JM. Argyria resulting from chronic use of colloidal silver in a patient presenting for colonoscopy. *Anesthesia & Analgesia Case Reports* 2014;3(6):73-75.
2. O'Sullivan J, Johnson D, Waterman M. Comparative Resuscitation Measures for the Treatment of Desipramine Overdose, *Military Medicine*, November, 2014, Volume 179, Nov2014, Vol. 179 Issue 11, p1266-1272.
3. Benham B, Hawley, D. The effectiveness of tools used to evaluate successful critical decision making skills for applicants to healthcare graduate educational programs: A systematic review. *The JBI Database of Systematic Reviews and Implementation Reports*. 2015; 13(4), 231-275.
4. Buonora J, Mousseau M, Jacobowitz D, Lazarus R, Yarnell A, Olsen C, Pollard H, Diaz-Arrastia R, Latour L, Mueller, G. Autoimmune profiling reveals PRDX6 as a candidate TBI biomarker. *J Neurotrauma*. Doi:10.1089/neu.2014.3736.
5. Buonora JE, Yarnell AM, Lazarus R, Mousseau M, Latour LL, Rizoli SB, Baker AJ, Rhind SG, Diaz-Arrastia R, Mueller GP. Multivariate Analysis of Traumatic Brain Injury: Development of an Assessment Score, *Front Neurol*,6,68.doi: 10.3389/fneur.201.00068.
6. Burgert J, Bentley M, Blanco J, Johnson A. The pharmacokinetic and pharmacodynamic effects of intravenous and intraosseous vasopressin in a porcine model of cardiac arrest and resuscitation. *Minerva Medica*. 2015;106(2 Suppl.1):11.
7. Burgert J, Gegel B, Johnson A, Loughery, M. The pharmacokinetics of intravenous, tibial intraosseous and sterna intraosseous epinephrine during cardiopulmonary resuscitation in a swine model of cardiac arrest. *Minerva Medica*. 2014;105(2 Suppl.1):35.
8. Ceremuga T, Bentley M, Wolfe J, Baldwin S, Onstott T, Aytes K, Ferrara B, Alleyn M, Fortner C, Ceremuga G, Padron G. Effects of L-Theanine on PTSD-induced Changes in Rat Neurobehavior, *Plant Science Today*. 2015, 2(1): 11-20, doi:10.14719/pst.2015.2.1.91.
9. Ceremuga T, Valdivieso D, Kenner C, Lucia A, Lathrop K, Stailey O, Bailey H, Criss J, Linton J, Fried J, Taylor, A, Padron G, Johnson D. Evaluation of the Anxiolytic and Antidepressant Effects of Asiatic Acid, a Compound from Gotu kola or Centella asiatica, in the Male Sprague-Dawley Rat, *AANA Journal*. 2015 Apr;83(2):91-8.
10. Deeds, J. Legislation Can Help Veterans' Caregivers. *Commentary Guest Columnist, El Paso Times*, Sunday, November 16, 2014.

11. Di Battista AP, Buonora JE, Rhind SG, Hutchison MG, Baker AJ, Rizoli SB, Diaz-Arrastia R, Mueller GP. Blood biomarkers in moderate-to-severe traumatic braininjury: potential utility of a multimarker approach in characterizing outcome, *Front Neurol*, 6, 110. doi: 10.3389/fneur.2015.00110.
12. Garcia-Blanco J, Gegel B, Burgert J, Johnson S, Johnson D. The Effects of Movement on Hemorrhage when QuikClot Combat Gauze is used in a Hypothermic Hemodiluted Porcine Model, *J Spec Oper Med*, 2015;15(1):57-60.
13. Greiner, S. (2015). *Adult Emergence Delirium Delphi: Obtaining Perioperative Care Provider Consensus* (dissertation). Rush University, ProQuest.
14. Jenkins C, Fulton L, Korkow N, Brinkley K, Costello K, Alford H, Johnson D. Effects of the ResQPod® on Pharmacokinetics, Hemodynamics, and Survivability in a Porcine Cardiac Arrest Model When Vasopressin is Used, *Military Medicine*. 2015 Sep;180(9):1011-6. doi: 10.7205/MILMED-D-14-00628.
15. Johnson D, Garcia-Blanco J, Burgert J, Fulton L, Kadilak P, Perry K, Burke J. Effects of humeral intraosseous versus intravenous epinephrine on pharmacokinetics and return of spontaneous circulation in a porcine cardiac arrest model, *Annals of Medicine and Surgery*, published August 2015.
16. Johnson D, Penaranda C, Phillips P, Rice D, Vanderhoek L, Gegel B, Burgert J, Blanco J. Effects of Sternal Intraosseous and Intravenous Administration of Hextend on Time of Administration and Hemodynamics in a Swine Model of Hemorrhagic Shock, *American Journal of Disaster Medicine*, 2015;10(1):61-67.
17. Johnson D, Westbrook D, Phelps D, Blanco J, Bentley M, Burgert J, Gegel B. The Effects of QuikClot Combat Gauze on Hemorrhage Control when used in a Porcine Model of Lethal Femoral Injury, *American Journal of Disaster Medicine*, Fall;9(4):309-15. doi: 10.5055/ajdm.2014.0182.
18. Lazarus R, Buonora J, Mousseau M, Jacobowitz D, Yarnell A, Olsen C, Pollard H, Diaz-Arrastia R, Latour L, Mueller G. Protein carbonylation after traumatic brain injury: Cell specificity, regional susceptibility, and gender differences, *Free Radical Biology and Medicine*, 78, 89-100. Doi:10.1016/j.freeradbiomed.2014.10.507.
19. Long, R. *Functional, cognitive and behavioral alterations in a rodent model of repeated isoflurane anesthesia: implications for the development of postoperative cognitive dysfunction*. Dissertation. Uniformed Services University of the Health Sciences. July 2015.
20. Prager E, Figueiredo T, Long R, Aroniadou-Anderjaska V, Apland J, Braga M. LY293558 prevents soman-induced pathophysiological alterations in the basolateral amygdale and the development of anxiety. *Neuropharmacology*. 2015; 89, 11-18.
21. Bugert J, Froehle J, Morris T, Althuisius B, Richards J, Castano C, Johnson D. The Effects of Intraosseous vs. Intravenous Epinephrine on Return of Spontaneous Circulation in a Swine Model of Cardiac Arrest, *Journal of Emergency Medicine*, In Press.

22. Burgert J, Johnson D, Blanco J, Craig J, O'Sullivan J. An effective and reproducible model of ventricular fibrillation in Yorkshire-cross (Sus Scrofa) swine for use in physiologic research. *Comparative Medicine*. 2015, In Press.
23. Burgert J. Book review of *Bad Pharm: How Drug Companies Mislead Doctors and Harm Patients*. *AANA J*. 2015. In Press.
24. Fulton L, Fabich R, Bhatta J, Fletcher B, Lienesch K, Leininger K, Rodriguez T, Coyner J, Johnson A, O'Sullivan J. Comparison of resuscitative protocols for bupropion overdose using lipid emulsion in a swine model, *Military Medicine*. In Press.
25. Gainok J. Utilization of a Video to Decrease Anxiety in Parents Whose Children are Undergoing a General Anesthetic. Submitted to *Military Medicine*, March 2015.
26. O'Sullivan J, Aitken J, Avery J, Kahl B, Negron A, Chavez B, Iosett N, Johnson D. Comparative Resuscitative Methods for Venlafaxine Toxicity in a Swine Model, *Military Medicine*. In Press.
27. Yost, J, Baldwin, P, Bellenger, S, Bradshaw, F, Causapin, E, Demotica, R, Livingston, M, Lee, C, Gegel, B, Burgert, J, Claessens, A, Johnson, D, Loughren, M. The Pharmacokinetics of Intraosseous Atropine in Swine, *American Journal of Disaster Medicine*. In Press.

C. Published Abstracts:

1. Aitken J, Benham B. Recommendation for Dosing, Monitoring and Standards of Care When Using Remifentanyl for Labor Analgesia: A Systematic Review of the Literature, TriService Nursing Research Program's Research and Evidence-Based Practice Dissemination Course, San Antonio, Texas, 31 August - 3 September 2015.
2. Benham B. How Do We Choose? A Meta-Analysis of Tools to Evaluate Graduate Applicant Success, TriService Nursing Research Program's Research and Evidence-Based Practice Dissemination Course, San Antonio, Texas, 31 August - 3 September 2015.
3. Burgert, J, et al. Effect of IV vs. IO Epinephrine on ROSC, at the State of the Science, Nurse Anesthesia Annual Congress, Salt Lake City, UT, Monday, 31 August 2015.
4. Costello K, et al. Effects of ResQPod on Kinetics of Vasopressin, at the State of the Science, Nurse Anesthesia Annual Congress, Salt Lake City, UT, Monday, 31 August 2015.
5. Fabich R, et al. Comparison of Resuscitative Protocols Using Lipid Emulsion for Wellbutrin Overdose in a Swine Model, at the State of the Science, Nurse Anesthesia Annual Congress, Salt Lake City, UT, Monday, 31 August 2015.
6. Froehle J. Effect Humeral IO vs. Tibial IO vs. IV Epinephrine on ROSC, TriService Nursing Research Program's Research and Evidence-Based Practice Dissemination Course, San Antonio, Texas, 31 August - 3 September 2015.

7. Golder J. Investigation of the Antidepressant Effects of Curcumin, a Compound from *Curcuma longa* or Turmeric, in the Adult Male Sprague-Dawley Rat, TriService Nursing Research Program's Research and Evidence-Based Practice Dissemination Course, San Antonio, Texas, 31 August - 3 September 2015.
8. Greiner S. Perioperative Care Providers Consensus on Adult Emergence Delirium, TriService Nursing Research Program's Research and Evidence-Based Practice Dissemination Course, San Antonio, Texas, 31 August - 3 September 2015.
9. Heffner K. Effects of Humeral Intraosseous vs. Intravenous Vasopressin on Kinetics and Return of Spontaneous Circulation in a Hypovolemic Cardiac Arrest Model, TriService Nursing Research Program's Research and Evidence-Based Practice Dissemination Course, San Antonio, Texas, 31 August - 3 September 2015.
10. Kelley J. Investigation of the Anxiolytic Effects of Curcumin, a Compound from *Curcuma longa* or Turmeric, in the Adult Male Sprague-Dawley Rat, TriService Nursing Research Program's Research and Evidence-Based Practice Dissemination Course, San Antonio, Texas, 31 August - 3 September 2015.
11. Leger S, et al. Effects of Intraosseous and Intravenous Administration of Hextend® on Time of Administration and Hemodynamics in a Swine Model, at the State of the Science, Nurse Anesthesia Annual Congress, Salt Lake City, UT, Monday, 31 August 2015.
12. Long R, Aroniadou-Anderjaska V, Prager E, Capacchione J, Pidoplichko V, Braga M. Impaired spatial memory after repeated isoflurane anesthesia is associated with increased GABAergic activity and impaired synaptic plasticity in the hippocampus. Research Days, USUHS, Bethesda, MD 12 – 14 May 2015.
13. Lowe R. Effect of IO Tibial vs. IV Vasopressin on Kinetics and ROSC in Hypovolemic Model, TriService Nursing Research Program's Research and Evidence-Based Practice Dissemination Course, San Antonio, Texas, 31 August - 3 September 2015.
14. Muir S. Comparison of Tibial Intraosseous and Intravenous Administration of Albumin on Infusion Time and Hemodynamics in a Hypovolemic Swine Model, TriService Nursing Research Program's Research and Evidence-Based Practice Dissemination Course, San Antonio, Texas, 31 August - 3 September 2015.
15. Perry K. Effect of Humeral IO vs. IV Epinephrine on Kinetics and ROSC, TriService Nursing Research Program's Research and Evidence-Based Practice Dissemination Course, San Antonio, Texas, 31 August - 3 September 2015.
16. Reggio M. Pharmacokinetics of Epinephrine Administered by Tibial Intraosseous vs. Intravenous and the Effects on Return of Spontaneous Circulation in a Cardiac Arrest Porcine Model, TriService Nursing Research Program's Research and Evidence-Based Practice Dissemination Course, San Antonio, Texas, 31 August - 3 September 2015.

17. Saenz C, et al. The Effects of Tibial Intraosseous vs. Intravenous Administration of Vasopressin on Return of Spontaneous Circulation and Kinetics in a Cardiac Arrest Porcine Model, at the State of the Science, Nurse Anesthesia Annual Congress, Salt Lake City, UT, Monday, 31 August 2015.

18. Valdivieso D, et al. Evaluation of the Anxiolytic and Antidepressant Effects of Asiatic Acid, a Compound from Gotu Kola or Centella asiatica, in the Male Sprague Dawley Rat, at the State of the Science, Nurse Anesthesia Annual Congress, Salt Lake City, UT, Monday, 31 August 2015.

19. Valdivieso D, Kenner C, Lucia A, Lathrop K, Stailey O, Bailey H, Padron G, Johnson D, Ceremuga T. Evaluation of the Anxiolytic and Antidepressant Effects of Asiatic Acid, a Compound from Gotu kola or Centella asiatica, in the Male Sprague-Dawley Rat, abstract to be published AMEDD Journal, 2015.

20. Vanderhoek L, et al. Effects of Sternal IO vs IV Hextend on Hemodynamics, at the State of the Science, Nurse Anesthesia Annual Congress, Salt Lake City, UT, Monday, 31 August 2015.

D. Platform Presentations:

1. Aitken J, Benham B. Recommendation for Dosing, Monitoring and Standards of Care When Using Remifentanyl for Labor Analgesia: A Systematic Review of the Literature, TriService Nursing Research Program's Research and Evidence-Based Practice Dissemination Course, San Antonio, Texas, 31 August - 3 September 2015.

2. Aytes K, Ferrara B, Is Ketamine Administration for Rapid Sequence Induction and Intubation Superior to Other Induction Agents in Optimizing Blood Pressure in Adult, Non-Obstetric Trauma Patients? An Evidence Based Review. DDEAMC, 25 May 2015.

3. Aytes K, Ferrara B, Is Ketamine Administration for Rapid Sequence Induction and Intubation Superior to Other Induction Agents in Optimizing Blood Pressure in Adult, Non-Obstetric Trauma Patients? An Evidence Based Review. Georgia Nurses Association meeting, 22 May 2015.

4. Burgert, J, et al. Effect of IV vs. IO Epinephrine on ROSC, at the State of the Science, Nurse Anesthesia Annual Congress, Salt Lake City, UT, Monday, 31 August 2015.

5. Costello K, et al. Effects of ResQPod on Kinetics of Vasopressin, at the State of the Science, Nurse Anesthesia Annual Congress, Salt Lake City, UT, Monday, 31 August 2015.

6. Dial J, Burke, E, Yourk, T. Fast-Tracking ASA I and II Patients on the Day of Surgery, CRDAMC, 30 April 2015.

7. Fabich R, et al. Comparison of Resuscitative Protocols Using Lipid Emulsion for Wellbutrin Overdose in a Swine Model, at the State of the Science, Nurse Anesthesia Annual Congress, Salt Lake City, UT, Monday, 31 August 2015.

8. Froehle J. Effect Humeral IO vs. Tibial IO vs. IV Epinephrine on ROSC, TriService Nursing Research Program's Research and Evidence-Based Practice Dissemination Course, San Antonio, Texas, 31 August - 3 September 2015.

9. Gallahan B, Stevens K, Bolido A. The Perioperative Administration of Acetaminophen for the Treatment of Pain Following Abdominal Hysterectomy, Hawaii Association of Nurse Anesthetists' Annual State Conference, 11 April 2015.
10. Golder J. Investigation of the Antidepressant Effects of Curcumin, a Compound from *Curcuma longa* or Turmeric, in the Adult Male Sprague-Dawley Rat, TriService Nursing Research Program's Research and Evidence-Based Practice Dissemination Course, San Antonio, Texas, 31 August - 3 September 2015.
11. Greiner S. Perioperative Care Providers Consensus on Adult Emergence Delirium, TriService Nursing Research Program's Research and Evidence-Based Practice Dissemination Course, San Antonio, Texas, 31 August - 3 September 2015.
12. Heffner K. Effects of Humeral Intraosseous vs. Intravenous Vasopressin on Kinetics and Return of Spontaneous Circulation in a Hypovolemic Cardiac Arrest Model, TriService Nursing Research Program's Research and Evidence-Based Practice Dissemination Course, San Antonio, Texas, 31 August - 3 September 2015.
13. Kahl B, Alleyn M. An Evidenced Based Review of the Efficacy of the Use of a Defasciculating Dose of a Non-depolarizing Neuromuscular Blocker in Reducing Succinylcholine Induced Myalgia, DDEAMC, 25 May 2015.
14. Kahl B, Alleyn M. An Evidenced Based Review of the Efficacy of the Use of a Defasciculating Dose of a Non-depolarizing Neuromuscular Blocker in Reducing Succinylcholine Induced Myalgia, Georgia Nurses Association meeting, 22 May 2015.
15. Kelley J. Investigation of the Anxiolytic Effects of Curcumin, a Compound from *Curcuma longa* or Turmeric, in the Adult Male Sprague-Dawley Rat, TriService Nursing Research Program's Research and Evidence-Based Practice Dissemination Course, San Antonio, Texas, 31 August - 3 September 2015.
16. Leger S, et al. Effects of Intraosseous and Intravenous Administration of Hextend® on Time of Administration and Hemodynamics in a Swine Model, at the State of the Science, Nurse Anesthesia Annual Congress, Salt Lake City, UT, Monday, 31 August 2015.
17. Lowe R. Effect of IO Tibial vs. IV Vasopressin on Kinetics and ROSC in Hypovolemic Model, TriService Nursing Research Program's Research and Evidence-Based Practice Dissemination Course, San Antonio, Texas, 31 August - 3 September 2015.
18. Lowery B, Brady J, Gore K, King T. The Use of Perioperative Gabapentin for Postoperative Pain Following Abdominal Hysterectomy, Hawaii Association of Nurse Anesthetists' Annual State Conference, 11 April 2015.
19. Muir S. Comparison of Tibial Intraosseous and Intravenous Administration of Albumin on Infusion Time and Hemodynamics in a Hypovolemic Swine Model, TriService Nursing Research Program's Research and Evidence-Based Practice Dissemination Course, San Antonio, Texas, 31 August - 3 September 2015.

20. Perry K. Effect of Humeral IO vs. IV Epinephrine on Kinetics and ROSC, TriService Nursing Research Program's Research and Evidence-Based Practice Dissemination Course, San Antonio, Texas, 31 August - 3 September 2015.

21. Reggio M. Pharmacokinetics of Epinephrine Administered by Tibial Intraosseous vs. Intravenous and the Effects on Return of Spontaneous Circulation in a Cardiac Arrest Porcine Model, TriService Nursing Research Program's Research and Evidence-Based Practice Dissemination Course, San Antonio, Texas, 31 August - 3 September 2015.

22. Saenz C, et al. The Effects of Tibial Intraosseous vs. Intravenous Administration of Vasopressin on Return of Spontaneous Circulation and Kinetics in a Cardiac Arrest Porcine Model, at the State of the Science, Nurse Anesthesia Annual Congress, Salt Lake City, UT, Monday, 31 August 2015.

23. Sikes D. Thromboelastography (TEG): Utilization and Interpretation in the Operating Room Environment, Department of Obstetrics and Gynecology Grand Rounds, MAMC.

24. Townsend W, Crawford D, Wojcicki J, and Herron G. The Perioperative Efficacy of Intravenous Ketamine in Reducing Postoperative Narcotics in the Pediatric Population, Womack Army Medical Center Anesthesia Department, 4 March 2015.

25. Townsend W, Crawford D, Wojcicki J, and Herron G. The Perioperative Efficacy of Intravenous Ketamine in Reducing Postoperative Narcotics in the Pediatric Population, Womack Army Medical Center Annual Research Symposium, 6 May 2015.

26. Valdivieso D, et al. Evaluation of the Anxiolytic and Antidepressant Effects of Asiatic Acid, a Compound from Gotu Kola or Centella asiatica, in the Male Sprague Dawley Rat, at the State of the Science, Nurse Anesthesia Annual Congress, Salt Lake City, UT, Monday, 31 August 2015.

27. Valdivieso D, Kenner C, Lucia A, Lathrop K, Stailey O, Bailey H, Padron G, Johnson D, Ceremuga T. Evaluation of the Anxiolytic and Antidepressant Effects of Asiatic Acid, a Compound from Gotu kola or Centella asiatica, in the Male Sprague-Dawley Rat, December 10, 2014, 4th Annual Academy of Health Sciences Graduate School Research Day, San Antonio, Texas.

28. Vanderhoek L, et al. Effects of Sternal IO vs IV Hextend on Hemodynamics, at the State of the Science, Nurse Anesthesia Annual Congress, Salt Lake City, UT, Monday, 31 August 2015.

E. Poster Presentations:

1. Aitken J, Benham B. Recommendation for Dosing, Monitoring and Standards of Care When Using Remifentanyl for Labor Analgesia: A Systematic Review of the Literature, TriService Nursing Research Program's Research and Evidence-Based Practice Dissemination Course, San Antonio, Texas, 31 August - 3 September 2015.

2. Benham B, Hawley D. The effectiveness of tools used to evaluate critical decision making skills for applicants to graduate healthcare programs: A systematic review, 4th Annual Academy of Health

Sciences Graduate School Research Day, San Antonio, Texas, 10 December 2014. 3. Benham B. How Do We Choose? A Meta-Analysis of Tools to Evaluate Graduate Applicant Success, TriService Nursing Research Program's Research and Evidence-Based Practice Dissemination Course, San Antonio, Texas, 31 August - 3 September 2015.

4. Bentley M, Burgert J, Mozer J, Williams T, Gostnell J, Gegel B, Johnson S, Johnson D. Effects of Intraosseous Transfusion of Whole Blood on Hemolysis and Transfusion Time in a Swine Model of Hemorrhagic Shock: A Pilot Study, 4th Annual Academy of Health Sciences Graduate School Research Day, San Antonio, Texas, 10 December 2014.

5. Buonora J, Mousseau M, Latour L, Diaz-Arrastia R, Pollard H, Rizoli S, Baker A, Rhind S, Mueller G. Development of a Traumatic Brain Injury Assessment Score Using Novel Biomarkers Discovered Through Autoimmune Profiling, UTSA College of Sciences Research Conference - Neurobiology, San Antonio, Texas, 3 October 2014.

6. Buonora JE. Multivariate Analysis of Traumatic Brain Injury: Development of an Assessment Score, 2015 Military Health System Research Symposium (MHSRS), 17-20 August 2015, Ft. Lauderdale, FL.

7. Burgert J, Johnson D, and Blanco J. The Effects of Intraosseous Epinephrine on Resuscitation and Survival in a Swine Model of Cardiac Arrest, 6th World Anesthesia Convention, Vancouver, Canada, 29 April – 2 May 2015.

8. Burgert, J, et al. Effect of IV vs. IO Epinephrine on ROSC, at the State of the Science, Nurse Anesthesia Annual Congress, Salt Lake City, UT, Monday, 31 August 2015.

9. Burgert, J. and Johnson, D. Effects of Proximal and Distal Intraosseous Routes of Epinephrine Infusion on Survival of Ventricular Fibrillation, has been accepted as a poster presentation at the 2015 AMSUS Annual Continuing Education Meeting, San Antonio, Texas, 1-4 December 2015.

10. Ceremuga G, Martinson S, Washington J, Revels R, Wojcicki J, Crawford, D, Edwards R, Kemper J, Townsend W, Padron G, Herron G, Bentley M, Ceremuga, T. Effects of L-theanine on Post Traumatic Stress Disorder Induced Changes in Rat Brain Gene Expression, 12th Annual AMA Research Symposium, Dallas, Texas, 7 November 2014.

11. Chalenor, M. Anesthesia Emergence Phenomenon in Military Patients: An Instrument Development Study, William Beaumont Research Day, El Paso, TX, April 2015.

12. Costello K, et al. Effects of ResQPod on Kinetics of Vasopressin, at the State of the Science, Nurse Anesthesia Annual Congress, Salt Lake City, UT, Monday, 31 August 2015.

13. Criss J, et al. Evaluation of the Antidepressant Effects of Asiatic Acid, a Compound from Gotu Kola or Centella asiatica, in the Male Sprague Dawley Rat, at the State of the Science, Nurse Anesthesia Annual Congress, Salt Lake City, UT, Monday, 31 August 2015.

14. Fabich R, et al. Comparison of Resuscitative Protocols Using Lipid Emulsion for Wellbutrin Overdose in a Swine Model, at the State of the Science, Nurse Anesthesia Annual Congress, Salt Lake City, UT, Monday, 31 August 2015.
15. Froehle J. Effect Humeral IO vs. Tibial IO vs. IV Epinephrine on ROSC, TriService Nursing Research Program's Research and Evidence-Based Practice Dissemination Course, San Antonio, Texas, 31 August - 3 September 2015.
16. Golder J. Investigation of the Antidepressant Effects of Curcumin, a Compound from Curcuma longa or Turmeric, in the Adult Male Sprague-Dawley Rat, TriService Nursing Research Program's Research and Evidence-Based Practice Dissemination Course, San Antonio, Texas, 31 August - 3 September 2015.
17. Greiner S. Perioperative Care Providers Consensus on Adult Emergence Delirium, TriService Nursing Research Program's Research and Evidence-Based Practice Dissemination Course, San Antonio, Texas, 31 August - 3 September 2015.
18. Heffner K. Effects of Humeral Intraosseous vs. Intravenous Vasopressin on Kinetics and Return of Spontaneous Circulation in a Hypovolemic Cardiac Arrest Model, TriService Nursing Research Program's Research and Evidence-Based Practice Dissemination Course, San Antonio, Texas, 31 August - 3 September 2015.
19. Ioset N, Kahl B, Aitken J, Negron A, Johnson D, O'Sullivan J. Comparative Resuscitative Methods for Venlafaxine Toxicity in a Swine Model, 4th Annual Academy of Health Sciences Graduate School Research Day, San Antonio, Texas, 10 December 2014.
20. Jenkins C. An Evidenced-Based Review of Talent Management Implementation Practices, 4th Annual Academy of Health Sciences Graduate School Research Day, San Antonio, Texas, 10 December 2014.
21. Johnson D, Bates S, Nukalo S, Staub A, Hines A, Leishman T, Michel J, Sikes D, Gegel B, Burgert J, The Effects of QuikClot Combat Gauze on Hemorrhage Control in the Presence of Hemodilution and Hypothermia, UTSA College of Sciences Research Conference – Regenerative and Molecular Medicine, San Antonio, Texas, 3 October 2014.
22. Johnson D, Bates S, Nukalo S, Staub A, Hines A, Leishman T, Michel J, Sikes D, Gegel B, Burgert J. The Effects of QuikClot Combat Gauze on Hemorrhage Control in the Presence of Hemodilution and Hypothermia, 4th Annual Academy of Health Sciences Graduate School Research Day, San Antonio, Texas, 10 December 2014.
23. Johnson D, Dial J, Ard J, Yourk T, Burke E, Paine C, Gegel B, Burgert J. Effects of Intraosseous and Intravenous Administration of Hextend on Time of Administration and Hemodynamics in a Swine Model, UTSA College of Sciences Research Conference – Regenerative and Molecular Medicine, San Antonio, Texas, 3 October 2014.

24. Kelley J. Investigation of the Anxiolytic Effects of Curcumin, a Compound from *Curcuma longa* or Turmeric, in the Adult Male Sprague-Dawley Rat, TriService Nursing Research Program's Research and Evidence-Based Practice Dissemination Course, San Antonio, Texas, 31 August - 3 September 2015.
25. Leger S, et al. Effects of Intraosseous and Intravenous Administration of Hextend® on Time of Administration and Hemodynamics in a Swine Model, at the State of the Science, Nurse Anesthesia Annual Congress, Salt Lake City, UT, Monday, 31 August 2015.
26. Long R, Aroniadou-Anderjaska V, Prager E, Capacchione J, Pidoplichko V, Braga M. Impaired spatial memory after repeated isoflurane anesthesia is associated with increased GABAergic activity and impaired synaptic plasticity in the hippocampus. Research Days, USUHS, Bethesda, MD 12 – 14 May 2015.
27. Lowe R. Effect of IO Tibial vs. IV Vasopressin on Kinetics and ROSC in Hypovolemic Model, TriService Nursing Research Program's Research and Evidence-Based Practice Dissemination Course, San Antonio, Texas, 31 August - 3 September 2015.
28. Muir S. Comparison of Tibial Intraosseous and Intravenous Administration of Albumin on Infusion Time and Hemodynamics in a Hypovolemic Swine Model, TriService Nursing Research Program's Research and Evidence-Based Practice Dissemination Course, San Antonio, Texas, 31 August - 3 September 2015.
29. Onstott TA, Wolfe JJ. Applying a Time-Out and Standardized Report Form in Anesthesia Hand-Offs, Poster presentation: Tennessee Association of Nurse Anesthetist Annual Meeting, Murfreesboro, TN, 5 October 2014.
30. Perry K. Effect of Humeral IO vs. IV Epinephrine on Kinetics and ROSC, TriService Nursing Research Program's Research and Evidence-Based Practice Dissemination Course, San Antonio, Texas, 31 August - 3 September 2015.
31. Ramos-Alarilla J. Bridging the Gap in Nursing Anesthesia: Using a Simulation-Based curriculum in General Endotracheal Anesthesia as a Link Between Didactic and Clinical, 4th Annual Academy of Health Sciences Graduate School Research Day, San Antonio, Texas, 10 December 2014.
32. Reggio M. Pharmacokinetics of Epinephrine Administered by Tibial Intraosseous vs. Intravenous and the Effects on Return of Spontaneous Circulation in a Cardiac Arrest Porcine Model, TriService Nursing Research Program's Research and Evidence-Based Practice Dissemination Course, San Antonio, Texas, 31 August - 3 September 2015.
33. Saenz C, et al. The Effects of Tibial Intraosseous vs. Intravenous Administration of Vasopressin on Return of Spontaneous Circulation and Kinetics in a Cardiac Arrest Porcine Model, at the State of the Science, Nurse Anesthesia Annual Congress, Salt Lake City, UT, Monday, 31 August 2015.

34. Valdivieso D, et al. Evaluation of the Anxiolytic and Antidepressant Effects of Asiatic Acid, a Compound from Gotu Kola or Centella asiatica, in the Male Sprague Dawley Rat, at the State of the Science, Nurse Anesthesia Annual Congress, Salt Lake City, UT, Monday, 31 August 2015.
35. Vallier, D. Effects of Sternal IO vs IV Administration of Vasopressin, at the State of the Science, Nurse Anesthesia Annual Congress, Salt Lake City, UT, Monday, 31 August 2015.
36. Vanderhoek L, et al. Effects of Sternal IO vs IV Hextend on Hemodynamics, at the State of the Science, Nurse Anesthesia Annual Congress, Salt Lake City, UT, Monday, 31 August 2015.
37. Yourk T, Dial J, Ard J, Burke E, Paine C, Gegel B, Burgert J, Johnson D. Effects of Intraosseous and Intravenous Administration of Hextend on Time of Administration and Hemodynamics in a Swine Model, 4th Annual Academy of Health Sciences Graduate School Research Day, San Antonio, Texas, 10 December 2014.

F. Grant Funding Awarded: (Total: \$2,273,416.00)

1. Ceremuga, T., Buonora, J., Valdivieso, D., Criss, J., Krum, P. Pregabalin & L-Theanine Prophylactic Effects on PTSD Behavior and Gene Expression, (2014-present) TriService Nursing Research Program, (\$506,000.00).
2. Johnson, D., Loughren, M; Burgert, J; Gegel, B. Effects of Different Routes of Administration of Vasopressin, (2013-present) TriService Nursing Research Program (\$500,000).
3. Johnson, D. Burgert, J; Gegel, B; Loughren, M. The effects of hemostatic agents and hypothermia on hemorrhage control in a porcine model, (2010-present) TriService Nursing Research Program (\$498,000).
4. Dunnihoo, M. Measuring Emergence Delirium: An Emerging Problem, (2013) TriService Nursing Research (\$300,000).
5. Johnson, D., Loughren, M; Burgert, J; Gegel, B. Effects of Different Routes of Administration of Vasopressin in a Hypovolemic Model, (2013-present) TriService Nursing Research Program (N13-P10) awarded (\$240,638.00).
6. Johnson, D. received \$171,800 additional TriService Nursing Research Program funds to evaluate the "Effects of Intraosseous Administration of Amiodarone on Kinetics and Return to Spontaneous Circulation."
7. Burgert, J., Johnson, D., Gegel, N. Effects of Intraosseous Epinephrine on Resuscitation and Survival in a Swine Model of Cardiac Arrest, AANA Foundation Fellowship Grant (\$40,000).
8. Ceremuga, T. Evaluation of the Anxiolytic Effects of Herbal Supplements and Possible Interactions with Midazolam in the Laboratory Rat, (2012) AANA Foundations (\$16,978).

G. Invited Lectures:

1. Aytes K, Alleyn M, Ferrara B, Korkow N. Malignant Hyperthermia: Pathophysiology and Treatment, DDEAMC OMFS and Dental Clinic, 16 March 2015.
2. Aytes K, Ferrara B, Budinich C. Is Ketamine Administration for Rapid Sequence Induction and Intubation Superior to other Induction Agents in Optimizing Blood Pressure in Adult, Non-Obstetric Trauma Patients? An Evidence Based Review, DDEAMC 11 May 2015.
3. Aytes K, Ferrara B, Budinich C. Is Ketamine Administration for Rapid Sequence Induction and Intubation Superior to other Induction Agents in Optimizing Blood Pressure in Adult, Non-Obstetric Trauma Patients? An Evidence Based Review, 2015 Georgia Nurses Association Nursing Showcase in Augusta, GA, 01 May 2015.
4. Bates S, Michel J. Lipid Rescue in the Management of Local Anesthetic Systemic Toxicity, MAMC Anesthesia Department Grand Rounds, 16 April 2015.
5. Budinich C. Obtaining intravenous access: Tips and Tricks, DDEAMC Medical Surgical Floor (9 East).
6. Ceremuga was the keynote speaker for the first USAGPAN Doctor of Nursing Practice (DNP) class graduation at David Grant Air Force Medical Center, Travis Air Force Base, CA, 19 June 2015.
7. Coyner J, Adams T, Kertes S, Benham B, and five USAGPAN officers participated in the Graduate School simulation demonstration provided for LTG Horoho and fifteen civilian aids to the Secretary of the Army, , Willis Hall, AMEDDC&S, HRCoE, 17 June 2015.
8. CPT Lathrop presented at the M&M conference on Cricoid vs. No Cricoid, SAMMC, August, 2015.
9. Deeds, J. An Anesthesia Quality Improvement Project to Improve Postoperative Pain Outcomes after Hysterectomy, William Beaumont Army Medical Center OB-GYN grand rounds, El Paso, Texas, April, 2015.
10. Deeds, J. An Anesthesia Quality Improvement Project to Improve Postoperative Pain Outcomes after Hysterectomy, William Beaumont Army Medical Center Anesthesia morning report, El Paso, Texas, March, 2015.
11. Dial J, Yourk T, Ard J, Burke E, Whitney L, Murphy J. Fast-tracking ASA I and ASA II (for tobacco use only) Patients on the Day of Surgery, CRDAMC Research Day, 28 May 2015.
12. Fabich R. Comparison of Resuscitation Protocols Using Lipid Emulsion for Bupropion Overdose, Washington Association of Nurse Anesthetists Spring Anesthesia Meeting, WA, 24 April 2015.
13. Gainok, J. Utilization of a Video to Decrease Anxiety in Parents Whose Children are Undergoing a General Anesthetic, University of Texas at El Paso educational seminar, El Paso, Texas, May 2015.

14. Golder, J. Investigation of the Antidepressant Effects of Curcumin, a Compound from *Curcuma longa* or Turmeric, in the Adult Male Sprague-Dawley Rat, William Beaumont Army Medical Center Morning Report, El Paso, Texas, August 2015.
15. Kahl B, Alleyn M, Budinich C. An Evidenced Based Review of the Efficacy of the Use of a Defasciculating Dose of a Non-depolarizing Neuromuscular Blocker in Reducing Succinylcholine Induced Myalgia, DDEAMC 11 May 2015.
16. Kahl B, Alleyn M, Budinich C. An Evidenced Based Review of the Efficacy of the Use of a Defasciculating Dose of a Non-depolarizing Neuromuscular Blocker in Reducing Succinylcholine Induced Myalgia, 2015 Georgia Nurses Association Nursing Showcase in Augusta, GA, 01 May 2015.
17. Leal H, Ioset N. An evaluation of the utilization of a central line simulator for novice Nurse Anesthetists to enhance learning and decrease adverse patient outcomes, SAMMC Public Defenses, 28 May 2015.
18. Leger S, Effects of Intraosseous and Intravenous Administration of Hextend® on Time of Administration and Hemodynamics in a Swine Model, TAMC Anesthesia Department, 18 August 2015.
19. Leischman T, Sikes D, Nukalo S, Staub A. Video Laryngoscopy a Primary Intubating Device in the Management of an Expected Difficult Airway, MAMC Anesthesia Department Grand Rounds, 16 April 2015.
20. Leischman T. Video Laryngoscopy a Primary Intubating Device in the Management of an Expected Difficult Airway, Washington Association of Nurse Anesthetists Spring Anesthesia Meeting, WA, 24 April 2015.
21. Lowe R, et al. Effect of IO Tibial vs. IV Vasopressin on Kinetics and ROSC in Hypovolemic Model, Memphis VA Anesthesia Department, 26 August 2015.
22. Lucia, A. presented at the M&M conference on Intraoperative Hyperglycemia, SAMMC, July, 2015.
23. Negron A, Aitken J, Fortner C. What are the best practice recommendations for monitoring and standards of care when using Remifentanyl for labor analgesia: A systematic review of the literature, SAMMC Public Defenses, 28 May 2015.
24. Reggio M. Pharmacokinetics of Epinephrine Administered by Tibial Intraosseous vs. Intravenous and the Effects on Return of Spontaneous Circulation in a Cardiac Arrest Porcine Model, SAMMC, 27 August 2015.
25. Valdivieso D. Evaluation of the Anxiolytic Effects of Asiatic Acid, a Compound from *Gotu Kola* or *Centella asiatica*, in the Male Sprague Dawley Rat, SAMMC, 27 August 2015.
26. Vanderhoek L, et al. Effects of Sternal IO vs IV Hextend on Hemodynamics, Memphis VA Anesthesia Department, 28 August 2015.

H. Academic or Research Awards:

1. Best Podium Presentation: CPT Valdivieso, D., Kenner, C., Lucia, A., Lathrop, K., Stailey, O., Bailey, H., Criss, J., Linton, J., Fried, J., Taylor, A., Padron, G., Johnson, D., Ceremuga, T. Evaluation of the Anxiolytic and Antidepressant Effects of Asiatic Acid, a Compound from Gotu kola or Centella asiatica, in the Male Sprague-Dawley Rat. 4th Annual Academy of Health Sciences Graduate School Research Day, San Antonio, Texas, December 10, 2014.
2. Buonora JE. Development of a Traumatic Brain Injury Assessment Score Using Novel Biomarkers Discovered Through Autoimmune Profiling, was selected as a model example of a poster abstract by the AANA Foundation.
3. Burgert J, received a \$1000.00 AANA Foundation scholarship for travel to present his research findings, Effect of IV vs. IO Epinephrine on ROSC, at the State of the Science, Nurse Anesthesia Annual Congress, Salt Lake City, UT, Monday, 31 August 2015.
4. Chalenor, M. won second place in Best Poster Competition: Anesthesia Emergence Phenomenon in Military Patients: An Instrument Development Study, at the William Beaumont Research Day, El Paso, TX, April 2015.
5. Chalenor, Madeline, Phase 2 Assistant Director WBAMC, graduated with her DNP. She also retired from the USAR with 30 years of service, February 1, 2015.
6. Costello K, received a \$1000.00 AANA Foundation scholarship for travel to present his research findings, Effects of ResQPod on Kinetics of Vasopressin, at the State of the Science, Nurse Anesthesia Annual Congress, Salt Lake City, UT, Monday, 31 August 2015.
7. CPT Donald Vallier, AANA College Bowl Team Champion, AANA Nurse Anesthesia Annual Congress in Salt Lake City, 31 August 2015.
8. CPT Donald Vallier, SRNA at WBAMC Phase 2 and MAJ Buonora, PhD, CRNA, et al. selected as the best poster at the AANA Congress in Salt Lake City, 31 August 2015.
9. CPT Donald Vallier, SRNA at WBAMC Phase 2, was selected as a student member of the 2015 AANA Anesthesia College Bowl, an academic competition at the AANA Nurse Anesthesia Annual Congress in Salt Lake City, 31 August 2015.
10. Criss, J, was a finalist for his poster, Investigation of the Antidepressant Effects of Asiatic Acid, a Compound from Gotu kola or Centella asiatica, in the Male Sprague-Dawley Rat, at the 2015 "State of the Science" General Poster Session Contest at the 2015 AANA Annual Congress, in Salt Lake City, UT August 28 to 1 September 2015.
11. Dr. Don Johnson, Col (ret) USAFR, NC was acknowledged and spotlighted by TriService Nursing Research Program as the Researcher of the Fall 2014.
12. Dr. Don Johnson, member of the Board of Directors for TCS University, attended a Board of Trustees Meeting in Pasadena, California Thursday and Friday February 19-20, 2015.

13. Dr. Steve Alves, CRNA, FNAP, Clinical Professor, Nurse Anesthesia Program Director of Northeastern University (USAGPAN University Affiliate), Project Director USAGPAN was selected as the Program Director of the Year by the AANA. He will receive this award at the AANA Congress in Salt Lake City, 29 August 2015.
14. Dr. Tomás Eduardo Ceremuga (AHS) was selected AMEDDC&S Civilian Employee of the Year Award for Calendar Year 2014 within the GS-14 and above categories; and all Supervisors and Managers.
15. Dr. Tomás Eduardo Ceremuga, CRNA, Professor USAGPAN, was selected as the Didactic Instructor of the Year by the AANA. He will receive this award at the AANA Congress in Salt Lake City, 29 August 2015.
16. Fabich R, received a \$1000.00 AANA Foundation scholarship for travel to present his research findings, Comparison of Resuscitative Protocols Using Lipid Emulsion for Wellbutrin Overdose in a Swine Model, at the State of the Science, Nurse Anesthesia Annual Congress, Salt Lake City, UT, Monday, 31 August 2015.
17. Golder J, et al. won second place in the Best Poster Competition: Investigation of the Antidepressant Effects of Curcumin, a Compound from Curcuma longa or Turmeric, in the Adult Male Sprague-Dawley Rat, TriService Nursing Research Program's Research and Evidence-Based Practice Dissemination Course, San Antonio, Texas, 31 August - 3 September 2015.
18. Leger S, received a \$1000.00 AANA Foundation scholarship for travel to present her research findings, Effects of Intraosseous and Intravenous Administration of Hextend® on Time of Administration and Hemodynamics in a Swine Model, at the State of the Science, Nurse Anesthesia Annual Congress, Salt Lake City, UT, Monday, 31 August 2015.
19. Lt Col Shawna Greiner completed her dissertation, Adult Emergence Delirium Delphi: Obtaining Perioperative Care Provider Consensus, to be submitted to for publication via ProQuest.
20. LT Justin Scott Fulkerson MSN, ACNP-BC, CCRN CEN, has been appointed to serve on the 2015 Emergency Nurses Association (ENA) ADVANCED PRACTICE NURSING IN EMERGENCY CARE COMMITTEE.
21. MAJ John Buonora was prominently featured in the March – April 2015 Army Nurse Corps Newsletter for his brilliant research that developed a traumatic brain injury assessment score that is based upon definitive measures of circulating proteins (biomarkers) and provides an objective assessment of mTBI that is easily standardized across clinical settings.
22. MAJ John Buonora, PhD is featured in the American Association of Nurse Anesthetists NewsBulletin in Discoveries of Distinction. This newsletter describes his brilliant research, "Development of a Traumatic Brain Injury Assessment Score Using Novel Biomarkers Discovered Through Autoimmune Profiling."
23. MAJ John Buonora, PhD, CRNA has personally been invited to submit his original research data and manuscripts to the following journals: Metabolomics, Jacobs Journal of Biomarkers (JJB), and International Journal of Neural Science and Brain Research (IJNSBR).

24. O'Sullivan J, Waterman M, Johnson D. were featured in AANA for Discoveries of Distinction, "Comparative Resuscitation Measures for the Treatment of Desipramine Overdose."

25. Penaranda C, VA Student Registered Nurse Anesthetist received the Association of Veterans Affairs Nurse Anesthetist Leadership Project for SRNAs Scholarship. He will be traveling to Washington, D.C. to attend the AANA Mid-Year Assembly to receive the award.

26. Saenz C, received a \$1000.00 AANA Foundation scholarship for travel to present her research findings, The Effects of Tibial Intraosseous vs. Intravenous Administration of Vasopressin on Return of Spontaneous Circulation and Kinetics in a Cardiac Arrest Porcine Model, at the State of the Science, Nurse Anesthesia Annual Congress, Salt Lake City, UT, Monday, 31 August 2015.

27. Valdivieso D, received a \$1000.00 AANA Foundation scholarship for travel to present her research findings, Evaluation of the Anxiolytic and Antidepressant Effects of Asiatic Acid, a Compound from Gotu Kola or Centella asiatica, in the Male Sprague Dawley Rat, at the State of the Science, Nurse Anesthesia Annual Congress, Salt Lake City, UT, Monday, 31 August 2015.

28. Vanderhoek L, received a \$1000.00 AANA Foundation scholarship for travel to present her research findings, Effects of Sternal IO vs IV Hextend on Hemodynamics, at the State of the Science, Nurse Anesthesia Annual Congress, Salt Lake City, UT, Monday, 31 August 2015.

II. US Army-Baylor University Doctoral Program in Physical Therapy

A. Publications:

1. Baker SE. Deyle GD. Petersen EJ. Koppenhaver SL. Young BA . Allen CS. Dry needling for plantar heel pain: A case series. J Orthop Sports Phys Ther (in review).

2. Butler AM. Young BA . Dauber JD. Diagnosis of a posterior cruciate ligament disruption after a motorcycle accident. Orthopedic Physical Therapy Practice.2015;27(2): 130131.

3. Cleland J, Koppenhaver S, Su J. Netter's Orthopaedic Clinical Examination: An Evidenced Based Approach. 3rd Ed. Philadelphia: Saunders, 2015, In press

4. Crowell MS, Deyle GD, Owens J, Gill NW. Manual physical therapy combined with high-intensity functional rehabilitation for severe lower extremity musculoskeletal injuries: a case series. J Man Manip Ther. [Epub ahead of print] DOI: <http://dx.doi.org/10.1179/2042618614Y.0000000076>

5. Dummer AR. Tragord BS. Young BA . Blue cell synovial sarcoma in a patient presenting with posterior thigh pain and swelling. Orthopedic Physical Therapy Practice. 2015;27(3):191192.

6. Hagen L, Hebert H, Dekanich J, Koppenhaver S, The Effect of Elastic Therapeutic Taping on Back Extensor Muscle Endurance Among Patients with Low Back Pain: A Randomized Controlled Crossover Trial. Journal of Orthopaedic & Sports Physical Therapy. 2015, Mar; 45 (3): 215-9

7. Hebert J, Fritz J, Koppenhaver S, Thackeray A. Predictors of clinical outcome following lumbar disc surgery: the value of historical, physical exam and muscle function variables. *Eur Spine*. 2015 Apr; Epub
8. Hebert JJ, Fritz JM, Koppenhaver SL, Thackeray A, Teyhen DS. Early multimodal rehabilitation following lumbar disc surgery: a randomized clinical trial comparing the effects of two exercise programs on clinical outcome and lumbar multifidus muscle function. *British Journal of Sports Medicine*. 2015 Jan;49(2):100-6
9. Hebert JJ, Koppenhaver SL, Teyhen DS, Walker BF, Fritz JM. The Evaluation of Lumbar Multifidus Muscle Function via Palpation: Reliability and Validity of a New Clinical Test. *Spine Journal*. 2015;15:1196-1202.
10. Kardouni JR, Shaffer SW, Pidcoe PE, Finucane SD, Cheatham SA, Sousa CO, Michener LA. Thoracic Spine Manipulation in Individuals With Subacromial Impingement Syndrome Does Not Immediately Alter Thoracic Spine Kinematics, Thoracic Excursion, or Scapular Kinematics: A Randomized Controlled Trial. *J Orthop Sports Phys Ther*. 2015 May 21:1-34. [Epub ahead of print] PubMed PMID:25996365.
11. Koppenhaver S, Croy T, Harris D, Harris A, O'Connor E, Dummar M, Walker M, Flynn T. The reliability of rehabilitative ultrasound imaging in the measurement of infraspinatus muscle function in the symptomatic and asymptomatic shoulders of patients with unilateral shoulder impingement syndrome. *International Journal of Sports Physical Therapy*. 2015 Apr; 10(2) 128-35.
12. Koppenhaver S, Flynn T, Crane C. Physical Examination. *Physical Examination (Chapter 5). Manual Therapy for Musculoskeletal Pain Syndromes of the Upper and Lower Quadrants: An Evidence-Informed Approach*. Churchill Livingstone, 2015.
13. Koppenhaver S, Harris D, Harris M, Dummar M, O'Connor E, Croy T, Walker M, Flynn T. The Reliability and Discriminative Validity of Rehabilitative Ultrasound Imaging in the Measurement of Infraspinatus Muscle Function in Patients with Shoulder Impingement Syndrome. *International Journal of Sports Physical Therapy* 2015 Apr; 10(2) 128-35.
14. Koppenhaver SL, Hebert JJ, Kawchuk GN, Croy TC, Childs JD, Teyhen DS, Fritz JM. Criterion validity of manual assessment of spinal mobility. *Manual Therapy*. 2014 Dec;19(6):589-94
15. Koppenhaver SL, Walker MJ, Smith RW, Booker JM, Walkup ID, Su J, Hebert JJ, Flynn TW. Baseline examination factors associated with clinical improvement after trigger point dry needling in patients with low back pain. *Journal of Orthopaedic & Sports Physical Therapy*. 2015 Aug;45(8):604-12
16. Koppenhaver SL, Walker MJ, Su J, McGowen J, Weigel L, Harris K, Ross M. Changes in lumbar multifidus muscle function and nociceptive sensitivity in low back pain patient responders versus non-responders after dry needling treatment. *Manual Therapy*. 2015 Mar; Epub ahead of print.
17. Painter E, Deyle G, Allen C, Petersen E, Croy T, Rivera K. Manual Therapy Following Immobilization for Stable Ankle Fracture: A Case Series. *J Orthop Sports Phys Ther* 2015; 45(9): 665-674.

18. Rosenthal MD, Thelen MD, Asher D. Imaging of Pelvis, Hip and Thigh Injuries in Sport. Sports Physical Therapy Section Imaging Home Study Course. 2015. <http://www.spts.org/education/home-study-courses/course-list/imaging-2015> .
19. Siegelman R, Bianco T, Dierkes A, Chavez E, Lepak LV, Kane E, Sutlive T. TherapyEd: Physical Therapy Course Manual Version 6.0. (2014) (contributing author).
20. Su J, McGowen J, Koppenhaver S, Ultrasound Assessment of Lumbar Multifidus Muscle Function in a Patient with Low Back Pain. Journal of Orthopaedic & Sports Physical Therapy. 2015; In press.
21. Teyhen DS, Shaffer SW, Butler RJ, Goffar SL, Kiesel KB, Rhon DI, Williamson JN, Plisky PJ. What Risk Factors Are Associated With Musculoskeletal Injury in US Army Rangers? A Prospective Prognostic Study. Clin Orthop Relat Res. 2015 Sep;473(9):2948-58. doi: 10.1007/s11999-015-4342-6. PubMed PMID: 26013150
22. Teyhen DS, Goffar SL, Pendergrass TL, Shaffer SW, Butler N. Overcoming Barriers to Injury Prevention in the Military. Chp, 16, in Musculoskeletal Injuries in the Military. ed. Kenneth Cameron, Brett Owens, Springer, New York, NY, July 2015.
23. Thelen M, Koppenhaver S, Hoppes C, Shutt CE, Musen JL, Williams M, Davison, R. Reliability of a Novel Return to Duty Screening Tool for Military Clinicians. AMEDD Journal. 2015; In press
24. Thelen M, Koppenhaver S. Tips for Optimizing Performance on the Army Physical Fitness Test: A Practical Guide. International Journal of Sports Physical Therapy. 2015 Jun;10(3):391-401.
25. Thelen MD, Koppenhaver S, Hoppes C, Shutt CE, Musen JL, Williams M, Davison, R. A Novel Return to Duty Screening Tool for Military Clinicians. AMEDD Journal. 2015 (in press)
26. Thelen MD, Koppenhaver SL. Performance Optimization and Injury Prevention Strategies for the Army Physical Fitness Test: Technique Matters. Int J Sports Phys Ther. 2015 Jun;10(3):391-401.
27. Tragord B, Croy T, Mansfield L, Shaffer SW. Suprascapular neuropathy post distal clavicle excision. Journal of Orthopedic and Sports Physical Therapy, 45(4), Apr 2015.
28. Walker B, Hebert J, Koppenhaver S. Inter-rater Reliability of Motion Palpation in the Thoracic Spine. Evidence-Based Complementary and Alternative Medicine. 2015;Article ID 815407:6 pages.
29. Wong Y, Smith R, Koppenhaver S. Soft Tissue Mobilization to resolve chronic pain and dysfunction associated with Post-Operative Abdominal and Pelvic Adhesions: A Case Report. Journal of Orthopaedic & Sports Physical Therapy. 2015 Oct 15:1-29. [Epub ahead of print]

B. Published Abstracts

1. 2016 STEP IV 2016 Prevention, Prediction, Plasticity, and Participation. The Ohio State University: Adaptive Postural Responses to Vestibular Illusion in Individuals with Parkinson Disease and Healthy Controls. Lester ME, Cavanaugh J, Shaffer, S, Foreman K, Dibble LE. US Army-Baylor University Doctoral

Physical Therapy Program, US Army-Baylor University Doctoral Physical Therapy Program, University of Utah, Salt Lake City, UT.

2. Croy T, Orate D, Beers L, Brewer C, Gebauer K, Pecko M, Scott K, Tragord B, Sutlive TG. Ultrasound Imaging of the Ankle Syndesmosis: Evidence of Tibiofibular Widening During Clinical Examination. (publication pending; accepted for poster presentation at APTA CSM in 2016)
3. Mayer J, Childs J, Libous J, Neilson B, Koppenhaver S, Quillen W. Factors Influencing Lumbar Extension Strength Gains in Soldiers. *Medicine and Science in Sports and Exercise*. 2015; 45(5) supplement.
4. Morris WB, Young B, Tragord B. The influence of infection on signs and symptoms of cervical arterial dysfunction: A case report. *Journal of Manual & Manipulative Therapy*. 2014; Electronic Publication http://maneypublishing.com/images/pdf_site/AAOMPT_Platform_Presentations.pdf
5. Shaffer SW, Smith K, Cunningham K, Hartley A, Kuwick P, Moore, JH, Greathouse DG. Diagnostic Accuracy of Neuromuscular Screening for Median and Ulnar Neuropathies in Military Service Members. (Clinical Electrophysiology Research Platform). American Physical Therapy Association-Combined Sections Meeting. Indianapolis, IN, February 2015.
6. Sutlive, T; Golden, A; Harm, K; Morris, W; Morrison, J; Moore, J; Koppenhaver, S. Effects of Trigger Point Dry Needling on Pain and Disability in Individuals with Patellofemoral Pain Syndrome. *Journal of Orthopaedic & Sports Physical Therapy*. 2015; 45(1) A39
7. Teyhen DS, Shaffer SW, Butler RJ, Goffar SL, Kiesel KB, Rhon DI, Plisky PJ. Identification of Intrinsic Risk Factors Associated with Musculoskeletal Injury in Rangers. (Sports Research Platform). American Physical Therapy Association-Combined Sections Meeting. Indianapolis, IN, February 2015.
8. Teyhen DS, Shaffer SW, Butler RJ, Goffar SL, Kiesel KB, Rhon DI, Plisky PJ. Factors Associated with Predicting Time-loss Injuries in Active Duty Soldiers. (Sports Research Platform). American Physical Therapy Association-Combined Sections Meeting. Indianapolis, IN, February 2015.
9. Teyhen DS, Shaffer SW, Butler RJ, Goffar SL, Kiesel KB, Rhon DI, Plisky PJ. Prospective Musculoskeletal Injury Rates Among Different Categories of Soldiers. (Sports Research Platform). American Physical Therapy Association-Combined Sections Meeting. Indianapolis, IN, February 2015.
10. Thelen MD, Koppenhaver S, Hoppes C, Shutt CE, Musen JL, Williams M, Davison, R. A Novel Return to Duty Screening Tool for Military Clinicians. *US Army Med Dep J*. Jan-Mar 2015.
11. Waltrip, JJ, Beuning BA, Young B. Differential diagnosis and management of intermittent vascular claudication in a 57 year old male. *Journal of Manual & Manipulative Therapy*. 2014; Electronic Publication http://maneypublishing.com/images/pdf_site/AAOMPT_Platform_Presentations.pdf
12. Whitehurst R, Koppenhaver S, Gill N, Young B, Wardynski J, Orr M, Morel T, Petersen E. Reliability of the Cervical Rotation Lateral Flexion (CRLF) Test. *Journal of Orthopaedic & Sports Physical Therapy*. 2015; 45(1) A118

13. Whitehurst RA, Koppenhaver S, Gill N, Young B, Wardynski J, Orr M, Morel T, Petersen EJ. Reliability of the cervical rotation lateral flexion test. *J Orthop Sports Phys Ther.* 2015, 45(1); A118.

14. Young BA, Dondoyano RM, Baumann, K, Wolff A, Scheirer VF, Sutlive TG, Koppenhaver S, Elliott JM. Ultrasound shear wave elastography imaging of the deep cervical extensor muscles in individuals without spinal pain. (publication pending; accepted for platform presentation at APTA CSM in 2016)

C. Platform Presentations

1. Croy T, Orate D, Beers L, Brewer C, Gebauer K, Pecko M, Scott K, Tragord B, Sutlive TG. Ultrasound imaging of the ankle syndesmosis: Evidence of tibiofibular widening during clinical examination. Poster presentation at the AMEDD Center & School Graduate School Research Day, December, 2014; Fort Sam Houston, TX.

2. Koppenhaver, S, Sutlive, T; Golden, A; Harm, K; Morris, W; Morrison, J; Moore, J. Effects of Trigger Point Dry Needling on Pain and Disability in Individuals with Patellofemoral Pain Syndrome. APTA Combined Sections Meeting, Indianapolis, IN, Feb 2015. (Platform Presentation)

3. Painter, E. Platform presentation "Manual Therapy Following Immobilization for Stable Ankle Fracture: A Case Series," American Association of Orthopaedic Manual Physical Therapists (AAOMPT) Annual Meeting, Louisville, KY

4. Shaffer SW, Smith K, Cunningham K, Hartley A, Kuwick P, Moore, JH, Greathouse DG. Diagnostic Accuracy of Neuromuscular Screening for Median and Ulnar Neuropathies in Military Service Members. (Clinical Electrophysiology Research Platform). American Physical Therapy Association-Combined Sections Meeting. Indianapolis, IN, February 2015.

5. Sutlive TG, Golden A, Harm K, Morris W, Morrison J, Moore JH, Koppenhaver S. Effects of Trigger Point Dry Needling on Pain and Disability in Individuals with Patellofemoral Pain Syndrome. Platform presentation approved for the Combined Sections Meeting of the American Physical Therapy Association, Indianapolis, IN, February 2015.

6. Teyhen DS, Shaffer SW, Butler RJ, Goffar SL, Kiesel KB, Rhon DI, Plisky PJ. Identification of Intrinsic Risk Factors Associated with Musculoskeletal Injury in Rangers. (Sports Research Platform). American Physical Therapy Association-Combined Sections Meeting. Indianapolis, IN, February 2015.

7. Teyhen DS, Shaffer SW, Butler RJ, Goffar SL, Kiesel KB, Rhon DI, Plisky PJ. Factors Associated with Predicting Time-loss Injuries in Active Duty Soldiers. (Sports Research Platform). American Physical Therapy Association-Combined Sections Meeting. Indianapolis, IN, February 2015.

8. Teyhen DS, Shaffer SW, Butler RJ, Goffar SL, Kiesel KB, Rhon DI, Plisky PJ. Prospective Musculoskeletal Injury Rates Among Different Categories of Soldiers. (Sports Research Platform). American Physical Therapy Association-Combined Sections Meeting. Indianapolis, IN, February 2015.

9. Waltrip, JJ. Beuning BA. Young B. Differential diagnosis and management of intermittent vascular claudication in a 57 year old male. Platform, AAOMPT 214)

D. Poster Presentations

1. 2015 Movement Disorders Society Congress Poster Presentation. San Diego, CA: First trial response performance of an anticipatory postural task in people with Parkinson disease and healthy adults Paul SS, Lester ME, Salant N, Foreman K, Dibble LE. US Army-Baylor University Doctoral Physical Therapy Program, University of Utah, Salt Lake City, UT.

2. 2016 American Physical Therapy Association Combined Sections Meeting Poster Presentation, San Diego, CA: Paul SS, Lester ME, Foreman K, Dibble LE. Validity of 2D motion capture for quantifying balance deficits. US Army-Baylor University Doctoral Physical Therapy Program, University of Utah, Salt Lake City, UT.

3. Croy T, Camacho R, Whitehead M, Nott J, Palhano P. Ultrasound of the Carpal Tunnel: Development of Standardized and Reliable Imaging Methods. Academy of Health Sciences Graduate School Research Day, Dec 2014.

4. Croy T, Orate D, Brewer C, Gebauer K, Pecko M, Scott K, Tragord B, Sutlive T. Ultrasound imaging of the ankle syndesmosis: Evidence of tibiofibular widening during clinical examination. Academy of Health Sciences Graduate School Research Day, Dec 2014.

5. Goss D, Koppenhaver S, Bisagni F, Moore J. Perceived Comfort & Plantar Pressure of an Energy Storing and Returning Orthosis in a Prototype Military Boot. AHS Graduate School Research Day, Fort Sam Houston, TX Dec 2014. (Poster Presentation)

6. Kardouni JR, Shaffer SW, Finucane S, Pidcoe P, Cheatham SA, Michener LA. Immediate Changes in Pressures Pain Sensitivity After Thoracic Spinal Syndrome. (Orthopaedic Research Poster. American Physical Therapy Association-Combined Sections Meeting. Indianapolis, IN, February 2015.

7. Kardouni JR, Shaffer SW, Finucane S, Pidcoe P, Cheatham SA, Michener LA. Thoracic spine manipulation in patients with subacromial impingement syndrome does not immediately alter thoracic spine kinematics, thoracic excursion, or scapular kinematics. (Orthopaedic Research Poster. American Physical Therapy Association-Combined Sections Meeting. Indianapolis, IN, February 2015.

8. Koppenhaver S, Gill N, Morel T, Dredge G, Baeder M, Wood K, Petersen E, Young B. Validity of the Cervical Rotation Lateral Flexion Test in Predicting Benefit after Spinal Manipulation to the First and Second Rib. AHS Graduate School Research Day, Fort Sam Houston, TX Dec 2014. (Poster Presentation)

9. Koppenhaver S, Gill N, Young B, Whitehurst R, Wardynski J, Orr M, Morel T, Petersen E. Reliability of the Cervical Rotation Lateral Flexion (CRLF) Test. AHS Graduate School Research Day, Fort Sam Houston, TX Dec 2014. (Poster Presentation)

10. Mayer J, Childs J, Libous J, Neilson B, Koppenhaver S, Quillen W. Factors Influencing Lumbar Extension Strength Gains in Soldiers. American Academy of Sports Medicine's World Congress of Exercise Medicine. San Diego, CA. 2015. (Poster Presentation)
11. Morgan B, Petersen E, Koppenhaver S, Deyle G. Trigger Point Dry Needling for Subacromial Impingement Syndrome. AHS Graduate School Research Day, Fort Sam Houston, TX Dec 2014. (Poster Presentation)
12. Morris WB. Young B , Tragord B. The influence of infection on signs and symptoms of cervical arterial dysfunction: A case report. (Poster, AAOMPT 2014)
13. Thelen MD, Koppenhaver S, Hoppes CW. A Novel Return to Duty Screening Tool for Military Clinicians. AHS Graduate School Research Day, Fort Sam Houston, TX Dec 2014. (Poster Presentation)
14. Thelen MD, Koppenhaver S, Hoppes CW. A Novel Return to Duty Screening Tool for Military Clinicians. APTA Combined Sections Meeting, Indianapolis, IN, Feb 2015. (Poster Presentation)
15. Whitehurst R, Koppenhaver S, Gill N, Young B, Wardynski J, Orr M, Morel T, Petersen E. Reliability of the Cervical Rotation Lateral Flexion (CRLF) Test. APTA Combined Sections Meeting, Indianapolis, IN, Feb 2015. (Poster Presentation)
16. Whitehurst RA. Koppenhaver S. Gill N. Young B . Wardynski J. Orr M. Morel T. Petersen EJ. Reliability of the cervical rotation lateral flexion test.(Poster CSM, 2015)

E. Grant Funding Awarded (Total \$5,155,311)

1. Rhon D, Butler R, Teyhen DS, Shaffer SW, Kiesel K, Plisky P. "Development of Predictive Models for Lower Extremity, Lumbar, and Thoracic Injury after Discharge from Physical Rehabilitation." Defense Medical Research and Development Program, Role: Principal Investigator. Application Log Number: D10_I_AR_J5_951, \$1,170,000. Awarded April 2014.
2. Wilken JM, Tulsy DS, Shaffer SW, Houck K, Hill OT. "Maximizing Outpatient Rehabilitation Effectiveness (MORE)." BADER Consortium. \$1,552,483. Awarded December 2013-2016.
3. Shaffer, S., Lester, M. 2016 Army Advanced Medical Technology Initiative (AAMTI) Grant. Community based measurement of instability and exposure in persons with postural instability. \$248,700.00
4. Koppenhaver, S. Using Structural Health Monitoring to Improve Diagnosis and Treatment of Low Back Injury in U.S. Service Members- Phase 1. Telemedicine & Advanced Technology Research Center (TATRC) AMEDD Advanced Medical Technology Initiative. \$248,000. 2013-2015
5. Lester, M. 2016 Army Advanced Medical Technology Initiative (AAMTI) Grant. Feasibility of a Clinically Oriented, 360 Degree Camera Array Produced Virtual Environment. \$244,960.00

6. Goss, D. Using In Shoe Real Time Biofeedback to Alter Running Biomechanics. Telemedicine & Advanced Technology Research Center (TATRC) AMEDD Advanced Medical Technology Initiative. \$240,000. 2014-2015
7. Koppenhaver, S. Using Structural Health Monitoring to Improve Diagnosis and Treatment of Low Back Injury in U.S. Service Members- Phase 2. Telemedicine & Advanced Technology Research Center (TATRC) AMEDD Advanced Medical Technology Initiative. Primary Investigator. \$225,000. 2014-2015
8. Koppenhaver, S. Preventing Biomechanical and Neuromuscular Consequences after Traumatic Ankle and Foot Fractures: An Exploratory Investigation of Manual Therapy and Dry-needling Intervention. Joint Program Committee 5 (JPC-5) Defense Health Program (DHP) Musculoskeletal Injury Prevention Award. \$224,000. 2015-2017.
9. Koppenhaver, S. Using Shear Wave Elastography to Assess for Physiologic Changes after Blood Flow Restriction Training in Patients with Chronic Achilles Tendinopathy. Telemedicine & Advanced Technology Research Center (TATRC) AMEDD Advanced Medical Technology Initiative. \$221,668. 2016-2017.
10. Rhon, D. Effect of Opioid Education on Post-operative Medication Utilization After Spine Surgery: A Randomized Controlled Trial. Telemedicine & Advanced Technology Research Center (TATRC) AMEDD Advanced Medical Technology Initiative. \$220,000. 2015-2016.
11. Lester, M. 2015 Army Advanced Medical Technology Initiative (AAMTI) Grant. Feasibility of Accelerometry to Discriminate Alterations in Postural Control Following Vestibular Insult. \$212,500.00
12. Koppenhaver, S. Using Structural Health Monitoring to Improve Diagnosis and Treatment of Chronic Pain in U.S. Service Members: Translation to a Novel Handheld Device. Telemedicine & Advanced Technology Research Center (TATRC) AMEDD Advanced Medical Technology Initiative. \$212,000. 2015-2016.
13. Goss, D. Evaluation of a Running Sock Designed to Provide Real Time Biofeedback to Healthy U.S. Service Members. Telemedicine & Advanced Technology Research Center (TATRC) AMEDD Advanced Medical Technology Initiative. \$171,000. 2015-2016.
14. Diebal-Lee, A., Lester, M. 2016 Army Advanced Medical Technology Initiative (AAMTI) Grant. Feasibility of a Force-Sensing Insole to Measure and Monitor Foot-Strike Patterns in Running Gait to Mitigate Injury. \$170,000.00
15. Goss, D. Evaluation of a Musculoskeletal Readiness Screening Tool. Air Force Medical Service Agency, Surgeon General for Research and Development (AFMSA/SG5I). \$7,000. 2014-2015.

F. Invited Lecture:

1 . Bolgla L, Malone T, Nitz A, Shaffer S, Uhl T, Shaffer SW. Progression for the Upper and Lower Extremity: What Does EMG Say? (Invited Speaker-Sports). American Physical Therapy Association-Combined Sections Meeting. Indianapolis, IN, February 2015.

2. Koppenhaver, S

a) AMEDD Graduate School Research & Human Protections: Army Human Protections Office (AHRPO) Educational Summit, West Point, NY 9 Sep [1 hour]

b) Advanced Dry Needling Course, West Point, NY 18-19 Feb [16 hours]

c) Statistical Overview for Injury Prevention Research: SP Corps Mary Lipscomb Hamrick Research Course, San Antonio, TX 8 Mar [1 hour]

d) Basic Statistical Overview: SP Corps Mary Lipscomb Hamrick Research Course, San Antonio, TX 7 Mar [1 hour]

e) Introduction to and Current Evidence on Dry Needling: University of Texas San Antonio Health Science Center Physical Therapy, San Antonio, TX 3 Mar [3.5 hours]

3. Painter, E. Invited lecturer, "Lumbosacral Spine Evidence for Diagnosis, Prognosis, and Treatment" 2014 COL Douglas A. Kersey Advanced Clinical and Operation Practice Course for Military Physical Therapists. San Antonio, TX (1 hour lecture)

G. Academic or Research Awards:

1. Croy, T

a. COL Mary Lipscomb-Hamrick Army Medical Specialist Corps New Horizon Research Award, April, 2015.

2. Koppenhaver, S

a. Army Medical Specialist Corps Lifetime Achievement Research Award

b. COL David Greathouse Research Award for Best Abstract

III. Army-Baylor Graduate Program in Health & Business Administration

A. Publications:

1. Childs, J. D., Fritz, J. M., Wu, S. S., Flynn, T. W., Wainner, R. S., Robertson, E. K., Kim, F. S., & George, S. Z. (2015). Implications of early and guideline adherent physical therapy for low back pain on utilization and costs. BMC health services research, 15(1), 150.

2. Kruse, C.S., DeShazo, J., Kim, F., & Fulton, L. (2014) Factors Associated with Adoption of Health Information Technology: A Conceptual Model Based on a Systematic Review. *JMIR Medical Informatics*, 2(1):e9.
3. Sexton, D., Lemak, C., & Wainio, J. (2014). Critical inflection points of women who successfully achieved the hospital CEO position. *Journal of Healthcare Management*, 59(5).
4. Switaj, TL "Leadership Book Series: If Disney Ran Your Hospital." *The Uniformed Family Physician* 2015;15: Pending Publication 30 Oct 2015.
5. Weigel FK, Switaj TL, Hamilton J. Leveraging health information technology to improve quality in federal healthcare. *US Army Med Dep J*. October-December 2015:68-74.
6. Switaj, TL, Winter, KJ, Christensen, SR "Diagnosis and Management of Foodborne Illness." *American family physician* 2015;92(5):358-365.
7. Zucker, K.W., Allen, T.L., Boyle, M.J., Burton, A.R., & Smyth, V.S., ed., *Foundations in the Law: Classic Cases in Medical Ethics*. San Antonio, TX: Army Medical Department Center and School, 3rd ed., 2014

B. Published Abstracts

1. None

C. Platform Presentations

1. Kim, F. S. (June 4, 2015). Association of University Programs in Health Administration Annual Conference, Miami, FL. "Lights, Camera, Population Health! Using Video as a Learning Tool" (attendance 45).
2. Peacock, T.A., Ito, K., & Asakawa, K. "Profitability and Competitiveness of U.S. and Japanese Defense Contractors: Implications for IB Research." Academy of Management Annual Meeting in Vancouver, Canada, 2015. (divisional paper session).
3. Peacock, T.A., Ito, K., & Asakawa, K. "Profitability and Competitiveness of U.S. and Japanese Defense Contractors: Implications for IB Research." The Association of Japanese Business Studies in Bengaluru, India, 2015.
4. Peacock, T.A., Ito, K., & Asakawa, K. "Profitability and Competitiveness of U.S. and Japanese Defense Contractors: Implications for IB Research." Academy of International Business Annual Meeting in Bengaluru, India, 2015. (special session).
5. Peacock, T.A., & Ito, K.. "In Defense of Heterarchy: the Hypermodern Structure in U.S. Military and Multinational Corporations." The Academy of International Business Annual Meeting Vancouver, Canada, 2014. (interactive paper session).

6. Peacock, T.A., & Ito, K.. "In Defense of Heterarchy: the Hypermodern Structure in U.S. Military and Japanese Multinational Corporations." The Association of Japanese Business Studies in Vancouver, Canada, 2014.

7. Peacock, T.A. "Employer-based Health Insurance: Leveraging Location-Specific Advantages." Poster presentation, American Academy of Medical Administrators 2014 Summit in Las Vegas, Nevada, 2014.

8. Richter, J. "Targeted Implementation of CUSP to Achieve Zero Central-Line Associated Bloodstream Infections." Academy of Management Annual Meeting in Vancouver, Canada, 2015.

9. Richter, J. "Social Media: How Hospitals Use it and Opportunities for Future Use." AHS Graduate School Research Day, December 2014, Fort Sam Houston, TX.

D. Poster Presentations

1. Analysis of the Leadership Challenge to Effect Leadership Competency Improvement in Graduate Health Management Education, L. M. Johnson, A. D. Mangelsdorff, J.R. Rogers, IIMS/CTSA 6th Annual Frontiers of Translational Science Research Day, April 2015, San Antonio, TX.

2. Analysis of the Leadership Challenge to Effect Leadership Competency Improvement in Graduate Health Management Education, L. M. Johnson, A. D. Mangelsdorff, J.R. Rogers, IIMS/CTSA 6th Annual Frontiers of Translational Science Research Day, April 2015, San Antonio, TX.

3. Analysis of the Leadership Challenge to Effect Leadership Competency Improvement in Graduate Health Management Education, L. M. Johnson, A. D. Mangelsdorff, J.R. Rogers AHS Graduate School Research Day, December 2014, Fort Sam Houston, TX.

4. Analysis of the Leadership Challenge to Effect Leadership Competency Improvement in Graduate Health Management Education, L. M. Johnson, A. D. Mangelsdorff, J.R. Rogers, AUPHA Annual Meeting, June 2015, Miami, FL.

5. Boyle, M.J. & Zucker, K.W., Government Contracting: Getting What You Need from Your Next Government Contract, 119th Annual Meeting of the Association of Military Surgeons of the United States, Washington, DC, 2014

6. Boyle, M.J. & Zucker, K.W., Federal Tort Law and Liability of Federal Healthcare Providers, 119th Annual Meeting of the Association of Military Surgeons of the United States, Washington, DC, 2014

7. Sexton, D. "Barriers and facilitators to implementing prostate cancer imaging guidelines." Poster presentation at the University of Texas Health Science Center in San Antonio, TX, (6th Annual Frontiers in Translational Science Research Day). April, 22, 2015

8. What Have Army-Baylor University Students Learned? Executive Skills Competency Development, A. D. Mangelsdorff, J.R. Rogers, L. M. Johnson, AUPHA Annual Meeting, June 2015, Miami, FL.

9. Zucker K.W. & Boyle, M.J., Medical Ethics 101 (Clinical), 119th Annual Meeting of the Association of Military Surgeons of the United States, Washington, DC, 2014

10. Zucker, K.W. & Boyle, M.J., Medical Ethics 201 (Organizational), 119th Annual Meeting of the Association of Military Surgeons of the United States, Washington, DC, 2014

E. Grant Funding Awarded (\$20,000 total)

1. Blue Cross Blue Shield of Michigan CQI Funding (Sexton, Investigator, David Miller, PI) Michigan Urological Surgery Improvement Collaborative. Implementation of Evidence Based Practice within MUSIC. This is a multi-methods study (ethnography, semi-structured interviews, survey) of a urology collaborative comprised of 154 physicians across 32 urology practices. The formative evaluation for this project assessed the facilitators and barriers related to the implementation of evidence based practice (bone and CT scans for staging prostate cancer patients). Project period 12/2013 to 06/2015. (\$10,000 total)

2. Hospira Inc. Research Grant (Lemak and Sexton, Co-PIs) National Center for Healthcare Leadership. Women in Healthcare Leadership. This is a qualitative research project studying the career inflection points of women who successfully ascended to a hospital CEO position. This research also focused on the perceived organizational and environmental factors affecting the career of the female executives in the study. Project period 06/2012 to 06/2015. (\$10,000 total)

F. Invited Lecture:

1. Kim, F. Army-Baylor Day: Introduction to US Healthcare System, Introduction to Metrics, Introduction to Statistics, Introduction to Marketing and Strategy. Patient Administration Course, San Antonio, TX (August 21 2015)

2. Kim, F. Socioeconomic Issues Affecting Healthcare. Interservice Physicians Assistant Course, San Antonio, TX (July 29 2015)

3. Kim, F. Population Health & Resource Management. Defense Institute for Medical Operations, San Antonio, TX (June 9 2015)

4. Kim, F. Socioeconomic Issues Affecting Healthcare. Interservice Physicians Assistant Course, San Antonio, TX (April 9 2015)

5. Peacock, T.A., & Ito, K. "In Defense of Heterarchy: the Hypermodern Structure in U.S. Military and Multinational Corporations?" The Academy of Management Annual Meeting in Philadelphia, PA, 2014 (competitive paper session).

6. Richter, J. Performance Improvement. Joint Advanced Nutrition and Dietetics Course, San Antonio, TX (March 2015).

7. Richter, J. Executive Healthcare Resource Management Course. Defense Institute for Medical Operations, San Antonio, TX (June 2015).

8. Zucker, K. W., Tools (the Army-Baylor Decision-Making Methods) for Analyzing Ethical Problem Scenarios, 55th Annual Meeting of the American College of Legal Medicine, Las Vegas, NV, 2015 (IL*)

G. Academic or Research Awards:

1. Johnson, L

a. ACHE Federal Excellence in Healthcare Management Award (2015)

2. Kim, F

a. Honorable Mention, Outstanding Research Accomplishment/Team/Academic, Military Health System Research Symposium

3. Peacock, T

a. Finalist, Palgrave Macmillan and AJBS Best Paper Award

3. Sexton, D

a. Best Research Poster, 6th Annual Research Day, Univ. of Texas Health Science Center (2015)

4. Weigel, F.K

a. Instructor of the Year: Army-Baylor University Graduate Program in Health and Business Administration, 2015

b. Distinguished Faculty Service Award: Army-Baylor University Graduate Program in Health and Business Administration, 2015

IV. Army-Master of Social Work Program

A. Publications:

1. Arincorayan D, Applewhite L, Almeida V, DiJoseph E, Romero C. The psychosocial challenges of conducting counterinsurgency operations. *Army Med Dept J.* 2014; Oct/Dec: 14-20.

2. Fish, T., Harrington, D., Bellin, M., & Shaw, T. (2014) The effect of deployment, distress, and perceived social support on Army spouses' weight status. *The United States Medical Journal.* Oct-Dec 2014.

3. Freeman, D. (2015). Archetypal identification: An alternative for spiritual well-being assessment. *Journal of Religion & Spirituality in Social Work, 34(2), 1-19*

4. Freeman, D. (2015). Gatekeeping in Human Services Programs. In J.E. Coll & E.L. Weiss (Eds.), *Student veterans in human service programs.* Chicago, IL: Lyceum.

5. Humphries, J. 2014 “Developing Effective Leadership Competencies in Military Social Workers”, The United States Army Medical Department Journal; Behavioral Health: Increasing Resiliency and Endurance.

B. Published Abstracts:

1. None

C. Platform Presentations:

1. Freeman, D. Gatekeeping: A social work educator’s calling and responsibility. North American Association of Christians in Social Work 64th Annual Convention, Annapolis, MD. November 7, 2014.

D. Poster Presentations:

1. None

E. Grant Funding Awarded:

1. None

F. Invited Lecture:

1. Adams, B.D. Image to Action: Stress is Your Body Telling you that You don’t Know What to do Next: Invited lecture, Fort Hood Social Work Day Conference, Fort Hood, Texas (March 27, 2015).

2. Adams, B.D. Performance in the Warplace and Workplace: Invited “FRED Talk” lecture, Medical Education and Training Command (METC), Fort Sam Houston, Texas (March 3, 2015).

V. Interservice Physician Assistant Program

A. Publications:

1. Blalack, P. (2015, October) Fluticasone as treatment for cluster headaches in a Navy aircrew member. Military Medicine, 180, 1123-1126. doi: 10.7205/MILMED-D-14-00713

2. Harrison, R.S. Four Pillars of the PA Profession, Chapter of Army PA Profession, Borden Books (Pending Publication 2016)

3. Harrison, R.S. The Interservice Physician Assistant Program (IPAP): Education Quantity and Quality (Pending Publication December 2105)

4. Rosser, S.L. Long-Term Healthcare Education and Training (LTHET). Chapter of Army PA Profession, Borden Books (Pending Publication 2016)

5. Rosser, S.L. Emergency Medicine PA Doctoral Program (EMPA). Chapter of Army PA Profession, Borden Books (Pending Publication 2016)

B. Published Abstracts:

1. None

C. Platform Presentations:

1. None

D. Poster Presentations:

1. None

E. Grant Funding Awarded:

1. None

F. Invited Lecture:

1. Blalack, P.M. Air Force PA CME Conference, 2015 (Infertility for the Primary Care Provider)
2. Browne, K. Acute Knee Effusions. NMCP-NAPA Symposium (Oct 2015)
3. Browne, K. FITREPS/Career Advancement. AAPA NAPA BOD, San Francisco. (May 2015)
4. Harrison, R.S. Air Force PA CME Conference, 2015 (The Latest on PA Certification from NCCPA)
5. Perry, R.W. Air Force PA CME Conference, 2015 (Sexually Transmitted Disease Update)
6. Moss, L.D. Air Force PA CME Conference, 2015 (I have a headache!)
7. Perry, R.W. Army-Baylor DPT Program, 2015 (Genitourinary & Dermatology lectures)
8. Perry, R.W. New Braunfels High School, 2015 (Suture Workshop for Health Occupations course)
9. Rosser, S.L. Ultrasound Techniques and eFAST, SAPA Refresher Course, Fayetteville, NC (Apr 2015)
10. Rosser, S.L. Ultrasound Techniques and eFAST, Society of the Air Force, Physician Assistants Annual CME Conference – March, 2015
11. Rosser, S.L. Basic Point-of-Care and Advanced Care. SOMA, Tampa FL (Dec 2014)
12. Schano, A.A. Inflammatory Skin Diseases for the Primary Care Provider, Society of the Air Force, Physician Assistants Annual CME Conference – March, 2015
13. Weber, R. Air Force PA CME Conference, 2015 (Emergency Medicine Breakout Sessions)

G. Academic or Research Awards:

1. None

VI. US Military Graduate Program in Nutrition

A. Publications:

1. Funderburk L, Daigle K, Arsenault J. Vitamin D status among overweight and obese Soldiers. *Mil Med* 2015 Feb; 180, 2:237.

B. Published Abstracts

1. None

C. Platform Presentations:

1. None

D. Poster Presentations

1. Scisco, J. L., O'Connor, K. L., McGraw, S. M., Carpentieri, D. M., Crombie, A. P., Bukhari, A. S., Smith, T. J., Young, A. J., & Montain, S. J. (2014, November). Improving nutrition knowledge, attitudes, and behaviors with a MyPlate intervention in a military dining facility. *Obesity Week 2014*, Boston, MA.

E. Grant Funding Awarded:

1. None

F. Invited Lecture:

1. None

G. Academic or Research Awards:

1. Humphries, J. 2015 "Current Substance Use Disorders in the Military", University of Kentucky School of Social Work, Lexington, Kentucky

2. Humphries, J. 2015 "Military Occupational Context", University of Kentucky School of Social Work, Lexington, Kentucky

H. Academic or Research Awards:

1. None

Hospital Based Programs

VII. Doctorate in Physical Therapy (Orthopedic Manual Therapy)

A. Publications:

1. Painter EE, Deyle GD, Petersen EJ, Croy T, Allen CS, Rivera K. Manual physical therapy following immobilization for stable ankle fractures: a case series. *J Orthop Sports Phys Ther.* 2015;45: 665-674.

B. Published Abstracts:

1. None

C. Platform Presentations:

1. None

D. Poster Presentations:

1. None

E. Grant Funding Awarded:

1. None

F. Invited Lecture:

1. None

G. Academic or Research Awards:

1. None

VIII. Doctorate in Physical Therapy (Sports Medicine)

A. Publications:

1. Goss DL, Lewek MD, Yu B, Ware WB, Teyhen DS, Gross MT. Biomechanics of Runners Wearing Traditional and Minimalist Footwear. *J Ath Train*. 2015; 50(6):603-611.

2. Goss DL, Tortorelli JR, Saylor MH. Fitting Efficacy: Shoe Clinics Add Miles for Runners. *Biomech*. 2005;12:8:20-29.

3. Mason JS, Crowell MS, Goss DL. Fracture of the Scaphoid During a Bench Press Exercise. *J Orthop Sports Phys Ther*. 2015; 45(8):642.

4. Morris JB, Goss DL. Tibial Stress Fractures: An Evidence-Based Approach. *Lower Extremity Review*. 2015;9.

5. Warr BJ, Fellin RE, Sauer SG, Goss DL, Frykman PN, Seay JF. Characterization of Foot Strike Patterns: Lack of an Association with Injuries or Performance in Soldiers. *Mil Med*: In Press.

B. Published Abstracts

1. None

C. Platform Presentations:

1. None

D. Poster Presentations:

1. None

E. Grant Funding Awarded: (\$170,818 total)

1. Goss, D. Evaluation of a Running Sock Designed to Provide Real Time Biofeedback to Healthy U.S. Service Members. Awarded Dec 2014: \$170,818

F. Invited Lecture:

1. Goss, D. Barefoot, Chi, and other Running Styles: Evidence for Injury Prevention. National Athletic Training Association Conference (June 2015)

G. Academic or Research Awards:

1. None

IX. Doctorate in Occupational Therapy

A. Publications:

1. Dy L, Luken M, Yancosek KE. Soldier 2020, Evaluating female fighters' training and operational demands. OT Practice, 2015;4:21-23.

2. Mitsch S, Smurr-Walters L, Yancosek KE. Amputations and Prosthetics. IN Occupational Therapy for Physical Dysfunction, 7th Ed. Editors: Radomski & Trombly-Latham. Lippincott, Williams, and Wilkins. 2014.

3. Mummert C, Wilson A, Yancosek KE. Helping prevent military suicides- Operation your life counts. OT Practice, 2014;12:13-15.

B. Published Abstracts

1. None

C. Platform Presentations:

1. None

D. Poster Presentations:

1. Military Health System Research Symposium, Fort Lauderdale, FL, 17-20 August 2015

a. "Effects of an Occupational Therapy Hand Dominance Transfer Intervention on the M16 Shooting Accuracy and Efficiency of Soldiers with Crossed Hand-Eye Dominance"

b. "Musculoskeletal Injury Reporting of Army Medical Command (MEDCOM) Personnel"

c. "Reliability and Validity of a Novel Functional Dexterity Assessment Instrument: The Texterity Assessment Instrument"

E. Grant Funding Awarded:

1. None

F. Invited Lecture:

1. Surgery and Rehabilitation of the Hand with emphasis on trauma 2015 Philadelphia Meeting. Philadelphia, PA, March 7-10 2015

a. "Clinical Examination of the Hand"

b. Rehabilitation for the Wounded Warriors.

c. Return to Participation Following Trauma: One-handedness and Hand-dominance Retraining

2. Masters in Occupational Therapy Graduation, UT Health Science Center, Keynote Address: Making Your Mark! San Antonio, TX, December 13, 2014

3. Academy of Health Sciences Graduate School 4th Annual Research Day. Breakout Session: Writing and Submitting the Manuscript. Fort Sam Houston, TX, December 10, 2014

G. Academic or Research Awards:

4. Yancosek, KE. The COL Mary Lipscomb Hamrick SP Corps Research Award

X. Doctorate in Physician Assistant Studies

A. Publications:

1. Gross KR, Curtis RA et al. Review of the Fifth Annual Joint Theatre Trauma System Trauma Conference. Journal of Trauma and Acute Care Surgery. October 2015; 79 (4)

2. Holland, 84th Engineer Battalion Re-Conditioning Pilot Program. SP Corps Journal. Spring 2015, pg 38-39

3. Holland, A Multi-Institutional Analysis of Pre-Hospital Tourniquet Use. J Trauma Acute Care Surg. 2015 Jul;79(1):10-4

4. Monti JD. "A Rare Cause of Abdominal Pain and Hypotension in Pregnancy," Journal of the American Academy of Physician Assistants. Accepted for publishing on 09 June 2015

B. Published Abstracts

1. None

C. Platform Presentations:

1. Holland, Acute Abdomen; Air Force Physician Assistant Refresher Course, JBSA Lackland, TX Mar 2015

D. Poster Presentations:

1. Curtis RA, Smith MP. Needle Decompression of the Chest After Torso Trauma: Assessing TCCC Guideline Compliance. Poster Presentation Special Operations Medical Association Scientific Assembly, Tampa FL, Dec 2014

E. Grant Funding Awarded:

1. None

F. Invited Lecture:

1. Bonjour, Battlefield Procedure lab, Society of Air Force Physician Assistants Annual Conference (SAFPA), 2014 and 2015, San Antonio, TX
2. Bonjour, Objectives, Obstacles, and Opportunities, Univ of Texas Health Sciences Center, December 2014, San Antonio, TX
3. Curtis, "POI Initiatives: Update on Combat Casualty Care." Invited lecture. CRDAMC. Trauma Symposium, Fort Hood TX, March 201
4. Monti, "Introduction to Clinical Ultrasound" Presentation & Workshop Society of Army Physician Assistants Annual Refresher Conference
5. Monti, Invited presenter: "Ultrasound Vascular Access" and "Lower Extremity Venous Ultrasound" WA ACEP Summit to Sound Emergency Medicine Assembly
6. Rivera, K. Correlation between femoral neck-shaft angle and development of a femoral neck stress fracture and surgical management (Associate Investigator)
7. Rivera, K. Inter- and Intra-observer Reliability Among Members of an Orthopaedic Surgery Residency in Assessment of Common Short-Arm Cast Radiographic Indices (Associate Investigator)

G. Academic or Research Awards:

1. Bonjour, 2015 AAPA Federal Services PA of the Year Award