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

   A. Publications: 93
   B. Platform Presentations: 75
   C. Poster Presentations: 62
   D. Grant Activity (In-progress/Pending): 37 ($12,425,033)
   E. Invited Lectures: 61
   F. Academic/Research Awards: 21

2. This report only covers the campus-based programs.

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

4. POC for the FY12 Scholarly Activity Report is the undersigned.

   Dean, Graduate School
   Academy of Health Sciences
AHS GRADUATE SCHOOL
SCHOLARLY ACTIVITY REPORT

The following is an FY07-12 summary report of all scholarly activity produced by graduate faculty from the Academy of Health Sciences Graduate School

<table>
<thead>
<tr>
<th>Category</th>
<th>FY07</th>
<th>FY08</th>
<th>FY09</th>
<th>FY10</th>
<th>FY11</th>
<th>FY12</th>
</tr>
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<tbody>
<tr>
<td>A. Publications</td>
<td>80</td>
<td>172</td>
<td>124</td>
<td>103</td>
<td>89</td>
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<tr>
<td>B. Platform Presentations</td>
<td>62</td>
<td>100</td>
<td>71</td>
<td>64</td>
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<tr>
<td>C. Poster Presentations</td>
<td>16</td>
<td>43</td>
<td>40</td>
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<td>E. Grand Activity (in-progress/pending)</td>
<td>$10.9M</td>
<td>$12.9M</td>
<td>$19.5M</td>
<td>$21.4M</td>
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<td>D. Invited Lectures</td>
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<td>34</td>
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<tr>
<td>F. Academic/ Research Awards</td>
<td>10</td>
<td>21</td>
<td>19</td>
<td>9</td>
<td>15</td>
<td>21</td>
</tr>
</tbody>
</table>
Army-Baylor Graduate Program in Health & Business Administration

A. Publications:


B. Platform Presentations:


5. Mangelsdorff, A.D. Global health, demographics, and water resources presented at University of Texas School of Public Health San Antonio, University of Texas School of Public Health San Antonio, San Antonio, TX, January, 2012.


10. Zucker K.W. Film as a Tool for Teaching Clinical Ethics, luncheon address, 21st Annual Meeting of the Association of Practical and Professional Ethics, Cincinnati, OH, 2012.

11. Zucker, K.W. Film as a Tool for Teaching Clinical Ethics, American College of Physicians, Texas Chapter Scientific Meeting, Austin, TX, 2011.

C. Poster Presentations:

1. Allen, B., Bentley, S., Bessler, C., Gomez, R., Smith M., Vargas, A., Zucker, K., Swift, D., Kruse, S. & Boyle, M. Professional Codes of Associations of Medical Administrators 52nd Annual Meeting of the American College of Legal Medicine, New Orleans, LA, 2012; and, as Codes of Ethics of Associations of Medical Administrators, for the Annual Meeting of the Center for Bioethics and Human Dignity, Trinity International University, Deerfield, IL, 2012.
2. Bentley, S.L., Bessler, C.A., Kim, F., Childress, C., Mangelsdorff, A.D. Factors Associated With Variation In MRI Usage Among United States Army Healthcare Facilities Presented at Annual Research Day, Graduate School, AMEDD Center & School, Fort Sam Houston, TX, September, 2011.


Officers of the Navy in conjunction with the 117th Annual Meeting of the Association of Military Surgeons of the United States, San Antonio, TX, 2011.


D. Grant Activity:


E. Invited Lectures:


8. Zucker, K.W. We are Never Far Away from Medical Ethics: It is All Around Us, Clinical Conference of the Warrior Transition Battalion-Europe, Heidelberg, Germany, 2012.


F. Academic or Research Awards:


U.S. Army Baylor University Doctoral Program in Physical Therapy

A. Publications:


B. Publications- Abstracts:


C. Platform Presentations:


D. Poster Presentations:


E. Grant Activity (In-progress and Pending):

   Specific Aims: The specific aim of this study is to examine the cost implications of the decision to refer patients with a new episode of LBP from primary care providers to physical therapy or chiropractic care within the Military Health System.

   Specific Aims: The specific aim of this study is to validate the clinical and cost effectiveness of the STarT Back Screening Tool in the primary care management of patients with low back pain in the Military Health System.

   Specific Aims: The specific aim of this study is to examine the short-term effects of high-magnitude lower extremity loading on articular cartilage biomarkers and knee pain levels in people with traumatic knee injury.


5. Fitzgerald, G.K. (PI). Enhancing the Effectiveness of Physical Therapy for People with Knee Osteoarthritis. Agency for Healthcare Research and Quality ($1,451,723)
Specific Aims: The specific aim of this study is to compare the effects of delivering exercise therapy or exercise therapy supplemented with manual therapy techniques using periodic “booster sessions” versus not using “booster sessions” in reducing pain and improving physical function at one and two year follow-up periods.

Specific Aims: The specific aim of this study is to reduce joint contractures and stiffness following post-traumatic injury to the knee and/or ankle and examine whether improvements in joint motion and stiffness will be associated with beneficial changes in lower extremity biomechanical profiles during functional tasks. The study will also examine potential factors that could predict rehabilitation outcome, which could inform areas for treatment decision-making refinement as well as subject selection for subsequent broader comparative effectiveness clinical trials.

Specific Aims: The specific aim of this project is to develop an integrated reconfigurable haptic feedback robotic system that allows the implementation of multiple training procedures for upper and lower limbs.


Piva, SR (PI). Effectiveness of an Intensive Exercise and Physical Activity Promotion Program Post Total Knee Arthroplasty. Peer Reviewed Medical Research Program and Clinical Trial Award ($1,300,000). Pending: 05/01/13-04/30/17.
Specific Aims: The specific aim of this study is to compare the long-term effectiveness of a novel rehabilitation strategy versus a control group that receives current usual rehabilitative care post primary TKA. The novel rehabilitation program consists of Intense and Skilled exercises that integrates physical Activity Promotion (ISAP) delivered at a later stage at least 2 months post TKA.

13. Rodeghero, JR (PI). The Influence of a Hybrid Orthopedic Residency on Clinical Outcomes for Patients with common Musculoskeletal Impatients Treated by Novice Physical Therapists. American Academy of Orthopaedic and Manual Physical Therapists Research Grant ($6,000). In Progress: 01/01/12-12/31/13. Specific Aims: The specific aim of this study is to investigate whether completion of a physical therapy orthopedic residency program improves patient outcomes and efficiency of care.


F. Invited Lectures


12. Ross, MD. Diagnostic Imaging in Orthopedic Physical Therapy (webinar) (0.5 CEUs). Asuza Pacific University, Asuza, CA, Aug 12.

13. Ross, MD. Diagnostic Imaging, Medical Screening, Medical Laboratory Evaluation, and Pharmacology for Physical Therapists (1.6 CEUs). The U.S. Air Force Advanced Physical Therapy Course. San Antonio, TX, Apr 12.


G. Academic or Research Awards:


2. Childs JD, Biomedical Clinician Field Grade Officer of the Year, Air Education and Training Command, 2011.


6. Childs JD, Research and Development Award, Association of Military Surgeons of the United States (AMSUS), 2012.


12. Shaffer SW. 2012 Army Medical Specialist Corp/Colonel Mary Lipscomb Hamrick Lifetime Research Achievement Award.


**Doctorate of Pastoral Ministry**

A. Publications:


B. Platform Presentations:


4. Swift, DC., Zucker, KW. Using Film to Teach Ethics. Asian Pacific Medical Education Conference, Singapore, January 2012 (Accepted).

5. Swift, DC., Zucker, KW., Kruse, C., Boyle, M., Film as a Teaching Tool for Medical Ethics. Presentation, United Nations Conference on Teaching Bioethics, March 2012 (Accepted).


C. Poster Presentations:


2. Fandre, M., Henery, M., McKenna, C., Swift, D., Zucker, K., Boyle, M., Kruse, C., Organizational Ethics in the Graduate Academic Setting. 20th Annual Poster Session of the 118th Annual Meeting of Association of Military Surgeons of the United States, August 2012 (Accepted).


D. Grant Activity: (None)

E. Invited Lectures: (None)

F. Academic or Research Awards: (None)

**US Army Graduate Program in Anesthesia Nursing**

B. Publications:


14. Gegel, B; Burgert, J; Gasko, J; Campbell, C; Martens, M; Keck, J; Reynolds, H; Loughren, M; Johnson, A. The Effects of QuikClot Combat Gauze™ and Movement on Hemorrhage Control in a Porcine Model, Military Medicine, In press.


17. Johnson, D., Agee, S., Reed, A. Effects of Hemodilution on Rebleeding When QuikClot Combat Gauze Used, AMEDD, In press.


C. Platform Presentations:


D. Poster Presentations:


E. Grant Activity:

1. Alguire, K. and Todd, B. Anesthesia Training with an Animal Model (pig, sus scrofa) Graduate Medical Education, (2010-present) Surgeon General’s Office, 60th Medical Group, David Grant USAF Medical Center, Travis AFB, CA ($30,000).


10. Johnson, J. and Murphy, J. Direct Laryngoscopy versus Video Assisted Laryngoscopy for Training Novice Army Nurse Anesthetist Students in Orotracheal Intubation AAMTI (AMEDD Advanced Medical Technology Initiative), TATRC, 2011-present ($610,000).
11. Johnson, J. and Murphy, J. Ultrasound Guided Regional Anesthesia Education AAMTI (AMEDD Advanced Medical Technology Initiative), TATRC, 2011-present ($700,000).

12. Lewis, P; Johnson, D Burgert, J; Gegel, B; Loughren, M; and. A Comparison of Tibial Intraosseous (IO), Sternal IO, and Intravenous (IV) Routes of Administration on the Pharmacokinetics of Epinephrine During Cardiac Arrest, (2009-present). DCI, Brooke Army Medical Center ($31,900).

13. Loughren, M; Johnson, D. Burgert, J; Gegel, B. Pharmacokinetics of Intramuscular (IM), Intravenous (IV) and Intraosseous (IO) Atropine in Normovolemic and Hypovolemic Swine (Sus scrofa), (2011-present) Continuation, TriService Nursing Research Program ($15,000).

14. Loughren, M; Johnson, D. Burgert, J; Gegel, B. Pharmacokinetics of Intraosseous Epinephrine During Cardiac Arrest in Swine, (2011-present) TriService Nursing Research Program ($350,000).

15. O'Sullivan, J (PI), LTC Loughren, Johnson, Don. Comparative Resuscitative Measures for Drug Toxicities Utilizing Lipid Emulsions" TriService Nursing Research, 2010-present ($500,000).


F. Invited Lectures:


G. Academic or Research Awards:


2. Burgert, J., received the $5,000 Palmer-Carrier Doctoral Fellowship from the AANA Foundation August 2012.

(IV) Routes of Administration on the Pharmacokinetics of Epinephrine during Cardiac Arrest: A Pilot Study, AANA Foundation $1000 award for oral presentation at the AANA Annual Meeting in San Francisco, California, August 6, 2012.


Interservice Physician Assistant Program

A. Publications: (None)

B. Platform Presentations:

C. Poster Presentations: (None)

D. Grant Activity: (None)

D. Invited Lectures:


E. Academic or Research Awards: (None)

**Army-Master of Social Work Program**

A. Publications:


B. Platform Presentations:


C. Poster Presentations:


D. Grant Activity: (None)

E. Invited Lectures: (None)

F. Academic or Research Awards: (None)

Graduate Program in Nutrition

A. Publications:


B. Platform Presentations:


C. Poster Presentations:


D. Grant Activity:


E. Invited Lectures:


F. Academic or Research Awards:


2. Smith, Martha: Recipient of the SP Corps New Horizon Research Award (for outstanding Medical Specialist Corp Officers who contributes to research and/or clinical investigations), 2012.