Date of Preparation \_\_01/21/2016\_\_\_

CURRICULUM VITAE

NAME: Robert Eric Heidel, PhD

BIRTHDATE: May 21, 1981

BIRTHPLACE: Oak Ridge, TN

EDUCATION

Undergraduate:

Roane State Community College, August, 1999 – May, 2001, Associates of Arts and Sciences, May 2001

University of Tennessee, August, 2001 – May, 2003, Bachelor of Arts in Psychology, Minor in Business Administration, May 2003

Graduate School:

University of Tennessee, August, 2004 – December, 2006, Masters of Science in Mental Health Counseling, December 2006

University of Tennessee, August, 2007 – May, 2012, Doctor of Philosophy in Counselor Education, Intercollegiate Graduate Minor in Statistics, and Graduate Certification in Evaluation, Statistics, and Measurement, Yates Dissertation Fellow. Conferred: May, 2012.

HONORS:

2012 Certificate in Grant Writing and Proposal Development, University of Tennessee, Knoxville

2011 – 2012 Yates Dissertation Fellowship

2012 Outstanding Student Award for Research, Counselor Education, University of Tennessee

2011 Outstanding Student Award for Research, Counselor Education, University of Tennessee

2011 Outstanding Research Award, Upsilon Theta, Chi Sigma Iota International

2010 Outstanding Student Award for Research, Counselor Education, University of Tennessee

2009 Outstanding Student Award, Counselor Education, University of Tennessee

2006 Induction into Chi Sigma Iota Honor Society

2003 Induction into Phi Kappa Phi Society

2002 Induction into Golden Key Honor Society

UNIVERSITY APPOINTMENTS:

Graduate Research Assistant, Statistical and Research Design Consultant, University of Tennessee Graduate School of Medicine, Knoxville, TN, August, 2008 – May, 2012

Graduate Assistant, Department of Educational Psychology and Counseling, University of Tennessee, Knoxville, TN, August, 2007 – May, 2008

Assistant Professor of Biostatistics, Department of Surgery, Office of Medical Education, Research, and Development, University of Tennessee Graduate School of Medicine, June 2012 – Present

Affiliate Professor of Biomedical Engineering, Institute of Biomedical Engineering, University of Tennessee, April 2013 – Present

Adjunct Professor of Nursing, College of Nursing, University of Tennessee, December 2015 – Present

PRACTICE (PROFESSIONAL) EXPERIENCE:

Clinical Therapist, Peninsula Lighthouse, Knoxville, TN, March, 2007 – July, 2007

Mobile Crisis Clinician, Peninsula Lighthouse, Knoxville, TN, January, 2007 – March 2007

Program Counselor, Peninsula Lighthouse, Knoxville, TN, August, 2005 – December, 2007

Residential Case Manager, Ridgeview Psychiatric Hospital, Oak Ridge, TN, August, 2003 – July 2005

TEACHING EXPERIENCE:

Courses:

Formal Measurement/Educational Psychology 525, Department of Educational Psychology and Counseling, University of Tennessee, Co-taught with Dr. Tricia McClam, Spring Semester 2009

Formal Measurement/Educational Psychology 525, Department of Educational Psychology and Counseling, University of Tennessee, Co-taught with Dr. Patrick Dunn, Fall Semester 2008

Classes:

01/15/2016 – Research Design, Statistical Power, and Measurement – Transitional Year

01/12/2016 – Research Questions – Transitional Year

01/12/2016 – Diagnostic Testing and Epidemiological Calculations – Oral and Maxillofacial Surgery

01/11/2016 – Diagnostic Testing and Epidemiological Calculations – OBGYN

01/07/2016 – Research Designs and Statistical Tests – OBGYN

01/05/2015 – Between-subjects, Within-subjects, and Multivariate Statistics – Oral and Maxillofacial Surgery

12/29/2015 – Statistical Power, Measurement, and Database Management – Oral and Maxillofacial Surgery

12/16/2015 – Statistical versus Clinical Significant – Family Medicine

12/15/2015 – Research Designs – Oral and Maxillofacial Surgery

12/08/2015 – Research Questions: FINER and PICO – Oral and Maxillofacial Surgery

09/29/2015 – Diagnostic Testing and Epidemiological Calculations – Pharmacy

09/17/2015 – Between-subjects, Within-subjects, and Multivariate Statistics – Pharmacy

09/15/2015 – Statistical Power, Measurement, and Database Management – Pharmacy

09/10/2015 – Research Designs – Pharmacy

09/03/2015 – Grand Rounds – Surgery

09/01/2015 – Research Questions: FINER and PICO – Pharmacy

08/24/2015 – 08/28/2015 – Fellow’s Research Week – UTGSM

07/15/2015 – Systematic Reviews and Meta-Analysis – Family Medicine

7/9/2015 – Applied research and statistics – UT College of Nursing

7/30/2015 – Applied research and statistics – Preston Medical Library

6/4/2015 – Writing research questions – Anesthesiology

6/4/2015 – 2x2 tables – OBGYN

6/11/2015 – Choosing research designs – Anesthesiology

6/17/2015 – Association versus causation – Family Medicine

6/15 – 6/19/2015 – Medical Explorations – Jesse Higdon

6/22 – 6/26/2015 – Medical Explorations – Alex Chesser

6/29 – 7/2/2015 – Medical Explorations – Alex Caughman

September 3, 2014 – Writing research questions – Pharmacy

September 10, 2014 – Choosing research designs – Pharmacy

September 16, 2014 – Statistical power – Pharmacy

September 17, 2014 – Bivariate and multivariate statistics – Pharmacy

September 30, 2014 – Epidemiology and diagnostic testing – Pharmacy

November 11, 2014 – Writing research questions – Dentistry

November 19, 2014 – ANOVA, t-test, and correlations – Family Medicine

November 24, 2014 – Choosing research designs – Dentistry

December 9, 2014 – Statistical power – Dentistry

December 17, 2014 – Regression analysis and survival – Family Medicine

January 13, 2015 – Research Engineer – UTGSM Research Seminar

January 19, 2015 – OBGYN High Yield – OBGYN

January 20, 2015 – OBGYN High Yield – OBGYN

January 21, 2015 – Odd ratios, relative risk, and NNT – Family Medicine

February 2, 2015 – Epidemiology and diagnostic testing – Transitional Year

February 5, 2015 – Writing research questions – OBGYN

February 26, 2015 – Writing research questions – Transitional Year

March 3, 2015 – Evidence-based medicine – UT Simulation Center

March 5, 2015 – Choosing research designs – OBGYN

March 5, 2015 – Evidence-based medicine – UT Simulation Center

March 6, 2015 – Evidence-based medicine – UT Simulation Center

March 11, 2015 – Choosing research designs – Transitional Year

March 12, 2015 – Evidence-based medicine – UT Simulation Center

March 25, 2015 – Evidence-based medicine – Oral and Maxillofacial Surgery

March 25, 2015 – Statistical power – Transitional Year

March 30, 2015 – Evidence-based medicine – Radiology

April 2, 2015 – Statistical power – OBGYN

April 22, 2015 – Bivariate and multivariate statistics – Transitional Year

May 7, 2015 – Randomized controlled trials – Oral and Maxillofacial Surgery

May 7, 2015 – Bivariate and multivariate statistics – OBGYN

May 13, 2015 – Appraising prognosis evidence – Oral and Maxillofacial Surgery

May 20, 2015 – Systematic reviews – Oral and Maxillofacial Surgery

May 20, 2015 – Cross-sectional and ecological designs – Family Medicine

June 4, 2015 – Writing research questions – Anesthesiology

June 4, 2015 – Epidemiology and diagnostic testing – OBGYN

June 11, 2015 – Choosing research designs – Anesthesiology

June 17, 2015 – Association vs. causation – Family Medicine

June 18, 2015 – Statistical power – Anesthesiology

June 25, 2015 – Bivariate and multivariate statistics - Anesthesiology

Stats Refresher for Boards, Department of Radiology, University of Tennessee Graduate School of Medicine, May 2014

FINER, University of Tennessee College of Medicine, Chattanooga Campus, March 2014

Evidence-Based Medicine, Bloom’s Taxonomy, and Abstract Thoughts, Research Luncheon, University of Tennessee Graduate School of Medicine, February 2014

t-test, ANOVA, regression, Chi-square, K-M, Family Medicine, University of Tennessee Graduate School of Medicine, February 2014

Parametric and non-parametric statistics, Transitional Year, University of Tennessee Graduate School of Medicine, February 2014

Measurement, Power, Data, IRB, and Practical Significance, Transitional Year, University of Tennessee Graduate School of Medicine, January 2014

FINER, Transitional Year, University of Tennessee Graduate School of Medicine, January 2014

Meta-Analysis and Systematic Reviews, Family Medicine, University of Tennessee Graduate School of Medicine, January 2014

Parametric and non-parametric statistics, Transitional Year, University of Tennessee Graduate School of Medicine, December 2013

Measurement, Power, Data, IRB, and Practical Significance, Transitional Year, University of Tennessee Graduate School of Medicine, December 2013

FINER, Transitional Year, University of Tennessee Graduate School of Medicine, December 2013

Cross-sectional and Ecological Designs, Family Medicine, University of Tennessee Graduate School of Medicine, November 2013

Parametric and non-parametric statistics, Department of OBGYN, University of Tennessee Graduate School of Medicine, November 2013

Measurement, Power, Data, IRB, and Practical Significance, Department of Radiology, University of Tennessee Graduate School of Medicine, November 2013

Case-control and Cohort Studies, Family Medicine, University of Tennessee Graduate School of Medicine, October 2013

Measurement, Power, Data, IRB, and Practical Significance, Department of OBGYN, University of Tennessee Graduate School of Medicine, October 2013

Measurement, Power, Data, IRB, and Practical Significance, Oral and Maxillofacial Surgery, University of Tennessee Graduate School of Medicine, September 2013

Measurement, Power, Data, IRB, and Practical Significance, Pharmacy Department, University of Tennessee Graduate School of Medicine, September 2013

FINER, Oral and Maxillofacial Surgery, University of Tennessee Graduate School of Medicine, September 2013

Parametric and non-parametric statistics, Pharmacy Department, University of Tennessee Graduate School of Medicine, September 2013

Parametric and non-parametric statistics, Pathology Department, University of Tennessee Graduate School of Medicine, August 2013

Developing Research Questions, Anesthesiology Department, University of Tennessee Graduate School of Medicine, August 2013

Measurement, Statistical Power, Database Management, and the IRB, Pathology Department, University of Tennessee Graduate School of Medicine, August 2013

Developing Research Questions, Pathology Department, University of Tennessee Graduate School of Medicine, August 2013

Developing Research Questions, Pharmacy Department, University of Tennessee Graduate School of Medicine, August 2013

Developing Research Questions, Radiology Department, University of Tennessee Graduate School of Medicine, August 2013

Introduction to Research, Pharmacy Department, University of Tennessee Graduate School of Medicine, August 2013

Fellow’s Research Week, University of Tennessee Graduate School of Medicine, August 2013

Developing Research Questions, OBGYN Department, University of Tennessee Graduate School of Medicine, August 2013

Randomized Control Trials and Historical Controls, Department of Family Medicine, University of Tennessee Graduate School of Medicine, May 2013

Non-parametric statistics, Internal Medicine, University of Tennessee Graduate School of Medicine, February 2013

Odds ratio and relative risk, Department of Family Medicine, University of Tennessee Graduate School of Medicine, February 2013

Statistical Power, Transitional Year Department, University of Tennessee Graduate School of Medicine, February 2013

The FINER acronym and Writing Valid Research Questions, Transitional Year Department, University of Tennessee Graduate School of Medicine, February 2013

Non-parametric statistics and 2x2 tables, OBGYN Department, University of Tennessee Graduate School of Medicine, January 2013

The Operationalization and Validation of Isomorphism in Clinical Supervision, Research Seminar, University of Tennessee Graduate School of Medicine, January 2013

Database Management, Transitional Year Department, University of Tennessee Graduate School of Medicine, January 2013.

In-service Exam Overiew, OBGYN Department, University of Tennessee Graduate School of Medicine, January 2013.

Number Needed to Treat/Harm, Family Medicine Department, University of Tennessee Graduate School of Medicine, January 2013.

In-service Exam Overview, OBGYN Department, University of Tennessee Graduate School of Medicine, January 2013.

Parametric and Non-parametric Statistics, Nursing Research Council, University of Tennessee Graduate School of Medicine, January 2013.

Surgery Grand Rounds, Department of Surgery, University of Tennessee Graduate School of Medicine, January 2013.

Parametric Statistics, Transitional Year Department, University of Tennessee Graduate School of Medicine, December 2012.

2x2 Tables and Non-parametric Statistics, Research Seminar, University of Tennessee Graduate School of Medicine, December 2012.

Comparing Research Designs and Measurement of Variables, Transitional Year Department, University of Tennessee Graduate School of Medicine, December 2012.

Multiple Regression, Nursing Research Council, University of Tennessee Graduate School of Medicine, November 2012.

Measurement and Power, Research Seminar, University of Tennessee Graduate School of Medicine, November 2012.

The FINER acronym for writing research questions, Research Seminar, University of Tennessee Graduate School of Medicine, October 2012.

Non-parametric statistics, Pharmacy Department, University of Tennessee Graduate School of Medicine, July 2012.

Database Management, Preparing for Statistical Consultation, and Power Analysis, Pharmacy Department, University of Tennessee Graduate School of Medicine, July 2012.

Measurement of Variables, Pharmacy Department, University of Tennessee Graduate School of Medicine, July 2012.

Developing the Research Question Using the FINER acronym, Pharmacy Department, University of Tennessee Graduate School of Medicine, July 2012.

Advanced statistical analysis, Fellow’s Research Week, University of Tennessee Graduate School of Medicine, July 2012.

Non-parametric statistics, Fellow’s Research Week, University of Tennessee Graduate School of Medicine, July 2012.

IRB and preparing for statistical consultation, Fellow’s Research Week, University of Tennessee Graduate School of Medicine, July 2012.

Measurement and power, Fellow’s Research Week, University of Tennessee Graduate School of Medicine, July 2012.

Developing the research question using the FINER acronym, Fellow’s Research Week, University of Tennessee Graduate School of Medicine, July 2012.

Research design and measurement of variables, Pharmacy Department, University of Tennessee Graduate School of Medicine, July 2012.

Developing the research question using the FINER acronym, Pharmacy Department, University of Tennessee Graduate School of Medicine, July 2012.

Parametric statistics in the nursing literature, Nursing Research Council, University of Tennessee Graduate School of Medicine, April, 2012

Reading research articles, Nursing Research Council, University of Tennessee Graduate School of Medicine, March, 2012

Non-parametric statistics, Pathology Department, University of Tennessee Graduate School of Medicine, February, 2012

Preparing for statistical consultation, Internal Medicine Department, University of Tennessee Graduate School of Medicine, February, 2012

Non-parametric statistics, University of Tennessee College of Pharmacy, February, 2012

Non-parametric statistics, Internal Medicine Department, University of Tennessee Graduate School of Medicine, February 2012

Designing a research question using the FINER acronym, Internal Medicine Department, University of Tennessee Graduate School of Medicine, February, 2012

Designing a research question using the FINER acronym, Pathology Department, University of Tennessee Graduate School of Medicine, January 2012

Reading research articles, Nursing Research Council, University of Tennessee Graduate School of Medicine, January, 2012

Repeated-measures t-tests and logistic regression in the OB/GYN literature, OB/GYN Department, University of Tennessee Graduate School of Medicine, December, 2011

Measurement of variables, Radiology Department, University of Tennessee Graduate School of Medicine, November, 2011

Power analysis and G\*Power, Radiology Department, University of Tennessee Graduate School of Medicine, November, 2011

A review of what you need to know in research design and statistics, Radiology Department, University of Tennessee Graduate School of Medicine, October, 2011

Getting presentation and publications, Department of Educational Psychology and Counseling, University of Tennessee, October, 2011

Bolstering the vita: Conference presentations and publications, Counselor Education Research Symposium, University of Tennessee, October, 2011

Database management, University of Tennessee College of Pharmacy, August, 2011

Fellowship Research Week, Database Management, Preparing for Statistical Consultation, Measurement of Variables, and Nonparametric Statistics, University of Tennessee Graduate School of Medicine, July, 2011

Database management, Oral and Maxillofacial Surgery Department, University of Tennessee Graduate School of Medicine, March, 2011

Database management, Research at Lunch presentation, University of Tennessee Graduate School of Medicine, March, 2011

Database management, Transitional Year Department, University of Tennessee Graduate School of Medicine, February, 2011

Basic statistics, Internal Medicine Department, University of Tennessee Graduate School of Medicine, January, 2011

Power analysis, Family Medicine Department, University of Tennessee Graduate School of Medicine, September, 2010

Research design and statistics, University of Tennessee College of Pharmacy, August, 2010

Database management, Fellow’s Research Week, University of Tennessee Graduate School of Medicine, July, 2010

Statistical reasoning and research design (co-taught five-part series with Dr. William Metheny), Radiology Department, University of Tennessee Graduate School of Medicine, Spring, 2010

Research design and statistics, Radiology Department, University of Tennessee Graduate School of Medicine, November, 2009

Research design and statistics, University of Tennessee College of Pharmacy, August, 2009

Research design and statistics, University of Tennessee Graduate School of Medicine, May, 2009

WORKSHOPS:

**Heidel RE** (2016). Psychometics in simulation: Applied methods to improve internal and external validity. Workshop presented at the 9th Annual ACS/AEI Consortium Meeting, Chicago, IL.

**Heidel RE** (2014). Nuts & Bolts Symposium, UT Health Science Center, Chattanooga

**Heidel RE**, & Mason, K. (2012). Survey Research. Workshop taught at Nuts & Bolts: Research Perspectives, UT College of Medicine, Chattanooga, TN.

**Heidel RE** & Sumner, B. B. (2013). The flow of counseling research: From research question to presentation and publication. Workshop taught at the ACA 2013 Conference and Exposition, Cincinnati, OH.

**Heidel RE** (2011). Preparing for statistical consultation: Practical considerations for the counseling researcher. Workshop taught at the 2011 Association of Counselor Education and Supervision Conference, Nashville, TN.

PUBLICATIONS (JOURNALS)

1. Haddad, L., Smith, S., **Heidel, R. E.**, & Kerby, C. H. (2012). Comparison of temporal artery and axillary temperatures in healthy newborns. *Journal of Obstetric, Gynecologic, & Neonatal Nursing*, *41*(3), 441-446.

2. Jones, T. M., Cassada, D. C., **Heidel, R. E.**, Grandas, O. G., Stevens, S. L., Freeman, M. B., Edmondson, J. D., & Goldman, M. H. (2012). Maximal Venous Outflow Velocity (MVOV): An index for ilian vein obstruction. *Annals of Vascular Surgery,26*(8), 1106-1113. PMID: 22835564

3. Siddiqui, S., **Heidel, R. E.**, Angel, C. A., & Kennedy, A. P. (2012). Pyloromyotomy: Randomized control trial of laparoscopic vs. open technique. *Journal of Pediatric Surgery, 47,* 1, 93 - 98.

4. Nagarsheth, K., Gandhi, S., **Heidel, R. E**., Kurek, S., & Angel, C. (2011). A mathematical model to predict length of stay in pediatric ATV accident victims. *Journal of Surgical Research, 171,* 28 - 30.

5. Alterman, D., **Heidel, R. E.,** Goldman, M., & Jones, M. (2011). The predictive value to general surgery application data for future resident performance. *Journal of Surgical Education,* 68(6), 513 - 518.

6. Vaughn, C. J., Oelschelgel, S., **Heidel, E.**, Caldwell, C. B., & Wallace, L. S. (2011). Reading demands of commercial patient educational materials. *Journal of Consumer Health on the Internet, 15*(4), 305 - 312.

7. Spurgeon, S., Woodside, M., McClam, T., **Heidel, E**., & Catalana, M. (2011). Pre-practicum students and cognitive complexity. *Mississippi Journal of Counseling, 2,* 3 - 11.

8. Studer, J. R., Diambra, J. F., Breckner, J. A., & **Heidel, R. E.** (2011). Obstacles and successes in implementing the ASCA National Model in schools. *Journal of School Counseling, 9*(2). Retrieve from <http://www.jsc.montana.edu/articles/v9n2.pdf>

9. Mojtahedi, A., Wells, K., **Heidel, R**., Chacko, G., Fu, Y., & Besozzi, M. (2011). Transient ischemic dilation ratio (TID) in adenosine 82Rubidium (82Rb) PET-CT myocardial perfusion studies (MPS) and correlation with coronary artery disease (CAD). *Journal of Nuclear Medicine, 52 (Suppolement),* 1, 1150.

10. Hope, N., Ray, S., Franks, A., & **Heidel, E**. (2010). Impact of an educational intervention on steroid prescribing and dosing effect on patient outcomes in COPD exacerbations. *Pharmacy Practice, 8*(3), 162 - 166.

11. Zingone, M., Franks, A., Guriguis, A., George, C., Howard-Thompson, A., **Heidel, E**. (2010). Comparing team-based and mixed active-learning methods in an ambulatory care elective course. *American Journal of Pharmaceutical Education, 74,* 9, 160.

12. Ray, S., Guriguis, A., Zingone, M., Franks, A., Airee, A., **Heidel E**. (2010). Smoking Cessation: Barriers to success and readiness to change. *Tennessee Medicine,* October 2010.

13. Bains, J., Bresee, S., Brooks, R., **Heidel, R**., Toberman, S., & Worthan, D. (2009). Investigation of time to reperfusion in rural patients with ST elevation MI treated by PCI: The impact of transfer strategy. *Catheterization and Cardiovascular Interventions, 73 (Supplement),* 7, S15.

14. Ray, S. M., Wylie, D. R., Rowe, A. S., **Heidel, E**., & Franks, A. S. (2012). Pharmacy student knowledge retention after completing either a simulated or written patient case. *American Journal of Pharmaceutical Education, 76,* 5, Article 86.

15. Ferguson, N., Bell, J., **Heidel, R**., Solomon, L., VanMeter, S., Duncan, L., Munsey, B., Panella, T., & Orucevic, A. (2013). Prognostic value of breast cancer subtypes, Ki-67 proliferation index, age, and pathologic tumor characteristics on breast cancer survival in Caucasian women. *The Breast Journal, 19,* 1, 22-30. PMID: 23240985

16. Alterman, D., **Heidel, R. E**., Grandas, O. H., Goldman, M. H., Stevens, S. L., Daley, B. J., & Freeman, M. B. (2012). Contemporary outcomes of vertebral artery injury: A ten year single center experience. *Journal of Vascular Surgery, 57,* 3, 741-746. PMID: 23219513

17. Wall, J. S., Richey, T., Macy, S., **Heidel, E.**, Wooliver, C., & Kennel, S. J. (2013). A novel method for quantifying peripheral tissue amyloid load by using the radiolabeled amyloidophilic peptide, p5. *Amyloid: The Journal of Protein Folding Disorders, 20,* 1, 21-26. PMID: 23327342

18. Mynatt, B., **Heidel, R. E**., & Studer, J. (2013). Bullying: A wellness concern among Appalachian youth. *Journal of Humanistic Counseling, 53*(2), 86-100. DOI: 10.1002/j.2161-1939.2014.00051.x

19. Farland, M. Z., Peters, C. J., Williams, J. D. Bielak, K. M., **Heidel, R. E**., & Ray, S. M. Beta-blocker use and incidence of Chronic Obstructive Pulmonary Diseases exacerbations. *The Annals of Pharmacotherapy, 47,* 5, 651-656. PMID: 23585645

20. Duncan, L. D., Winkler, M., Carlson, E. R., **Heidel, R. E**., Kang, E., & Webb, D. (2013). p16 immunohistochemistry can be used to detect Human Papillomavius in Oral Cavity Squamous Cell Cancinoma. *Journal of Oral and Maxillofacial Surgery, 1-9.* PMID: 23642549

21. Wall, J. S., Williams, A., Richey, T., Stuckey, A., Huang, Y., Wooliver, C., Macy, S., **Heidel, E**., Gupta, N., Lee, A., Rader, B., Martin, E. B., & Kennel, S. J. (2013). A binding-site barrier affects imaging efficiency of high affinity amyloid-reactive peptide radiotracers in vivo. *PLos One,* Jun 4;8(6): e66181. PMID: 23750281

22. Martin, E. B., Williams, A., **Heidel, E**., Macy, S., Kennel, S. J., & Wall, J. S. (2013). Peptide p5 binds both heparinase-sensitive glycosaminoglycans and fibrils in patient-derived AL amyloid extracts. *Biochemical and Biophysical Research Communications, 436,* 1, 85-89. PMID: 23707811

23. Draper, H., Farland, J., **Heidel, R**., May, L., & Suda, K. (2013). Evaluation of bacteria isolated from emergency department patients compared to hospitalized patients. *American Journal of Health-System Pharmacy, 70*, 2124-2128.

24. Frederick-Dyer, K. C., Faulkner, A. R., Chang, T. T., **Heidel, R. E.,** & Pasciak, A. S. (2013). Web-based training on the safe use of fluoroscopy can result in a substantial decrease in patient dose for fluoroscopic procedures performed by resident trainees. *Academic Radiology,* 20, 1272-1277.

25. Gandhi, S. S., Kestler, D. P., Bruker, C. T., McLaughlin, J. M., **Heidel, R. E.**, Siddiqui, S., Foster, J. S., Gray, K. D., Bell, J., Solomon, A., & Lewis, J. (2013). Nuclear Odontogenic Ameloblast-Associated Protein (ODAM) correlates with melanoma sentinel lymph node metastasis. *Journal of Cancer Therapy, 4,* 1283-1289. doi: 10.4236/jct.2013.48151

26. Orucevic A, Chen J, McLoughlin, JM, **Heidel RE**, Panella T, Bell J. Is the TNM staging system for breast cancer still relevant in the era of biomarkers and emerging personalized medicine for breast cancer? An institution’s 10-year experience. *The Breast Journal*, 2015. (in press) PMID: 25600504

27. Schaeferkoetter JD, Carlson ER, **Heidel RE**. Can 3’-deoxy-3’(18F) fluorothymidine (FLT) out-perform 2-deoxy-2-(18F) fluoro-D-glucose (FDG) positron emission tomography/computed tomography (PET/CT) in the diagnosis of cervical lymphadenopathy in oral/head and neck cancer patients? *Journal of Oral and Maxillofacial Surgery*, 2015. (in press) PMID: 25869746

28. Pasciak AS, McElmurray JH, Bourgeois AC, **Heidel RE**, Bradley YC. The impact of an antireflux catheter on target volume particulate distribution in liever-directed embolotherapy: A pilot study. *Journal of Vascular and Interventional Radiology*, 2015. (in press) PMID: 25801854

29. Faulkner AR, Bourgeois AC, Bradley YC, Hudson KB, **Heidel RE**, Pasciak AS. Simulation-based educational curriculum for fluoroscopically guided lumbar puncture improves operator confidence and reduces patient dose. *Academic Radiology*, 2015. (in press) PMID: 25863793

30. Mynatt BS, **Heidel RE**, Studer JR. Bullying: A wellness concern among Appalachian youth. *Journal of Humanistic Counseling*, 2015, 53(2). DOI: 10.1002/j.2161-1939.2014.00051.x

31. Bourgeois AC, Pasciak A, Bradley YC, **Heidel RE**, McElmurray J. The impact of an anti-reflux catheter on downstream particulate distribution in liver directed embolotherapy: An in-vivo analysis. *Journal of Vascular and Interventional Radiology*, 2015, 26(2). (in press) DOI: 10.1016/j.jvir.2014.12.243

32. Upadhyaya NB, Bryant SB, **Heidel RE**, Hennessy MD, Howard BC, Rodriguez H. Early diagnosis of gestational diabetes mellitus in patients with elevated body mass index. *Journal of Obstetrics and Gynecology*, 2015. (in press) PMID: 25930645

33. Moss J, **Heidel E**, Johnson J, Powell C, Dittrich E, Rawn S, Terry PD, Goldman M, Waters BW, White W. Ability of community-based prostate cancer screening to target an appropriate and unverserved population. *World Journal of Methodology*, 2015; 5; 10-12. PMID: 26140266

34. Orucevic A, Curzon M, Curzon C, **Heidel RE**, McLoughlin JM, Panella T, Bell J. Breast cancer in elderly Caucasian women – An institution-based study of correlation between breast cancer prognostic markers, TNM stage, and overall survival. *Cancers*, 2015, 31; 7(3); 1472-1473. PMID: 26264027

35. Barlow PB, Skolits G, **Heidel RE**, Metheny W, Smith TL. Development of the Biostatistics and Clinical Epidemiology Skills (BACES) assessment for medical residents. *Postgraduate Medical Journal*, 2015; 91(1078); 423-430. PMID: 26253921

36. Lindquist DE, Rowe AS, **Heidel E**, Fleming T, Yates JR. Evaluation of hemodynamic effects of intravenous amiodarone formulations during the maintenance phase infusion. Annals of Pharmacotherapy, 2015 (in press). PMID: 26416947

37. **Heidel RE**. Comparative effectiveness research and cancer epidemiology: New and exciting research avenues under the Patient Protection and Affordable Care Act. *Journal of Cancer Biology and Research*, 2015; 3(3); 1065.

38. **Heidel RE**, Breckner J, Studer JR, Diambra JF. Psychometric properties of the School Counselor National Model Activity Scale (SCNMAS). *Tennessee Counseling Association Journal*, 2015; 7(1); 17-34.

39. Kennel SJ, Macy S, Wooliver C, Huang Y, Richey T, **Heidel E**, Wall JS. Phagocyte depletion inhibits AA amyloid accumulation in AEF-induced huIL-6 transgenic mice. *Amyloid*, 2014; 21(1); 45-53.

40. Kuhn T, Dougherty J, Crane M, Yeager, Missimer C, **Heidel E**. Quick and accessible: The highly correlated Cognitive Self-Test (CST). *Alzheimer’s and Dementia*, 2013; 9(4); 637-638.

ACKNOWLEDGEMENTS:

1. Maples, P., Franks, A., Ray, S., Barger-Stevens, A., & Wallace, L. (2010). Development and validation of a low-literacy Chronic Obstructive Pulmonary Disease knowledge Questionnaire (COPD-Q). *Patient Education and Counseling, 81*(1), 19 - 22.

2. Rackham, D., Ray, S., Franks, A., Bielak, M., & Pinn, T. (2010). Community-associated Methicillin-Resistant Staphylococcus aureus nasal carriage in a college student athlete population. *Clinical Journal of Sports Medicine, 20*(3), 185 - 188.

3. Franks AS, Givens CB, Barger-Stevens A. Pharmacy residents and students as an adjunct to current smoking cessation education. *Pharmacy Practice* (Internet) 2012 Apr-Jun;10(2):92-96.

4. Tidwell, WJ, Googe, PB. Tissue histiocyte reactivity with CD31 is comparable to CD68 and CD163 in common skin lesions. *Journal of Cutaneous Pathology*, 2014. PMID: 24612199

EDITORIAL BOARDS:

Editorial Board Member, Journal of Graduate Medical Education

Editorial Board Member, Austin Medical Sciences

Editorial Board Member, Measurement and Evaluation in Counseling and Development

Editorial Board Member, Journal of Pathology and Microbiology

ABSTRACTS PRESENTED AND PUBLISHED:

1. Bains, J., Bresee, S., Brooks, R., **Heidel, R.**, Toberman, S., & Wortham, D. (2009). Investigation of time to reperfusion in rural patients with ST elevation MI treated by PCI: The impact of transfer strategy. Poster presented at the Society of Cardiovascular Angiography and Interventions Conference, Las Vegas, NV.

2. Spurgeon, S. L., **Heidel, R. E.**, Catalana, M. G., Woodside, M., & McClam, T. (2009). Developing counselor identity: Self-perceptions and beliefs of counselor trainees. Roundtable conducted at the Association of Counselor Education and Supervision Conference, San Diego, CA.

3. Thomas, D., Marsh, D., Zingone, M., Guirguis, A., & **Heidel, E.** (2009). Factors contributing to health care resource utilization in fibromyalgia syndrome. Poster presented at the 44th Annual American Society of Health-System Pharmacists Mid-Year Clinical Meeting, Las Vegas, NV.

4. Woodside, M., Davis, S., Buchanan, D., Breckner, J., Catalana, M. G., & **Heidel, R. E.** (2009). Transforming counselor into counselor educators: Facilitating a change in professional identity. Research presented at the Association of Counselor Education and Supervision Conference, San Diego, CA.

5. Earl, M., Vaughn, C., **Heidel, E.**, & Moore, E. (2010). Changes over time in number of journal articles read, use of information resources, and confidence in critical appraisal skills for resident physicians. Poster presented at the Medical Library Association Conference, Washington, DC.

6. **Heidel, R.**, Wallace, L., & Brinister, I. (2010). Romanian or Russian: The Influence of Language on Knowledge And Attitudes Towards Tuberculosis Among Adults In The Republic of Moldova. Poster presented at the North American Primary Care Research Group Conference, Seattle, WA.

7. Spurgeon, S., **Heidel, E.**, Woodside, M., McClam, T., & Catalana, M. (2010). Assessing the cognitive level of beginning counseling master's students. Roundtable conducted at the Southern Association of Counselor Education and Supervision Conference, Williamsburg, VA.

8. Mynatt, B. S., & **Heidel, R. E.** (2011). Bullying and the wellness of early adolescents.Poster presented at the ACA 2011 Conference & Exposition, New Orleans, LA.

9. Huffstutter, P., Hines, L., Jones, T. M., Craft, R. M., Bustamante, D. R., Klar, M., Roark, J., **Heidel, R. E.**, Brooks, R. C., Gore, J. R., & Slemp, A. (2011). Evaluation of the S.A.L.T. as an adjunct to blind endotracheal intubation using simulation. Poster presented at the 2011 International Meeting of Simulation in Healthcare, New Orleans, LA.

10. Van Nes, J., & **Heidel, R. E.** (2011). OB-GYN residents’attitudes to implementation of a simulation curriculum.Poster presented at the 2011 Association of Professors of Gynecology and Obstetrics Annual Meeting, San Antonio, TX.

11. **Heidel, R. E.** (2011). The beginning stages of validating the construct of isomorphism: How similar are counseling and supervision.Poster presented at the 2011 Association of Counselor Education and Supervision Conference, Nashville, TN.

12. Radtke, J., Taylor, G., Enderson, B., & **Heidel, E.** (2011). Time to transfer to definitive care: An evaluation of the rural trauma team development course.Poster presented at the 70th Annual Meeting of the American Association for the Surgery of Trauma and Clinical Congress of Acute Care Surgery, Chicago, IL.

13. Mojtahedi, A., Wells, K., **Heidel, R.**, Chacko, G., Fu, Y., & Besozzi, M. (2011). Transient ischemic dilation ratio (TID) in adenosine 82Rubidium (82Rb) PET-CT myocardial perfusion studies (MPS) and correlation with coronary artery disease (CAD). Poster presented at 2011 Society of Nuclear Medicine Annual Meeting, San Antonio, TX.

14. DeFanti, L., Gaines, T., **Heidel, R.**, & Orucevic, A. (2011). Proliferative activity of incidental pulmonary tumorlets. Poster presented at the 2011 American Society for Clinical Pathology Annual Meeting, Las Vegas, NV.

15. Skolits, G., Morrow, J., Barlow, P., Cisney-Booth, A., **Heidel, E.**, Lenard, B., Sall, A., & Smith, T. (2011). Helping new evaluators conceptualize, manage, and reflect upon initial evaluation experiences: Easing the transition from classroom to practice. Paper presented at the 2011 American Evaluation Association Annual Conference, Anaheim, CA.

16. Barlow, P., **Heidel, E.**, & Smith, T. (2011). New venues for practical experience in evaluation: Cultivation of evaluator competencies within a graduate school of medicine. Roundtable conducted at the 2011 American Evaluation Association Annual Conference, Anaheim, CA.

17. Laine, R. A., Wells, K. J., **Heidel, R. E.**, Schaeferkotter, J., Long, M. J., Hanna, W., & Hubner, K. F. (2011). Early Prediction of Response to Chemotherapy in Non-Small Cell Lung Cancer Patients Using 18F-FDG PET/CT. Paper presented at the 97th Scientific Assembly and Annual Meeting of The Radiological Society of North America, Chicago, IL.

18. **Heidel, R. E.**, Breckner, J., Studer, J., & Diambra, J. (2011). Determining the Psychometric Properties of the School Counseling National Model Activity Scale (SCNMAS). Poster presented at the 2012 American Counseling Association Conference, San Francisco, CA.

19. Venugopal, D., Hardin, B., Besozzi, M., **Heidel, E.**, Kim, E., Rogers, B., White, W., Klein, F., & Wortham, D. (2011). A Coronary Artery Disease prediction model using the IIEF-EF Erectile Dysfunction Severity Scale. Paper presented at the American College of Cardiology Annual Scientific Sessions 2012, Chicago, IL.

20. Laine, R. A., Wells, K. J., **Heidel, R. E.**, Schaeferkotter, J., Long, M. J., Hanna, W., & Hubner, K. F. (2011). Early Prediction of Response to Chemotherapy in Non-Small Cell Lung Cancer Patients Using 18F-FDG PET/CT. Oral presentation at the Society for Nuclear Medicine 2012 Annual Meeting, Miami Beach, FL.

21. Ferguson, N. L., Van Meter, L. S., Duncan, L., **Heidel, R. E.**, Munsey, B., Panella, T., Bell, J., & Orucevic, A. (2012). Prognostic value of breast cancer subtypes, KI-67 proliferation index, age, and pathologic tumor characteristics on breast cancer survival in Caucasian women. Poster presented at the 17th Annual Multidisciplinary Symposium on Breast Disease, Amelia Island, FL.

22. Ferguson, N. L., Lee, S., **Heidel, R. E.**, Van Meter, S., & Orucevic, A. (2012). Isocitrate dehydrogenase 1 (IDH1-R132H) mutation and P53 mutation in triple negative breast carcinomas in Caucasian women: An academic institution experience. Poster presented at the 17th Annual Multidisciplinary Symposium on Breast Disease, Amelia Island, FL.

23. Graham, D., **Heidel, R. E.** (2012). Targeting specific physician groups to improve adherence to established diagnostic guidelines in the evaluation of syncope. Oral presentation at the Society of General Internal Medicine 35th Annual Meeting, Orlando, FL.

24. Oommen, M, Gray, K. D., **Heidel, R. E.** (2011). Factors associated with the development of multiple primary malignant neoplasms.Poster presented at the Annual Southeastern Surgical Congress Annual Scientific Meeting, Chattanooga, TN.

25. **Heidel, R. E.** (2009). Isomorphism in clinical supervision: Promoting conceptualization of systemic similarities between supervision and counseling. Poster presented at the University of Tennessee Graduate Student Colloquium, Knoxville, TN.

26. **Heidel, R. E.** (2010). Systemic similarities of clinical supervision and counseling: An analysis of constructs, processes, and behaviors in professional practice. Research presented at the Smoky Mountain Counseling Association Conference, Jefferson City, TN.

27. Mynatt, B., & **Heidel E.** (2011). Bullying and the wellness of early adolescents.Poster presented at the University of Tennessee Graduate Student Colloquium, Knoxville, TN.

28. Bielak, K., Terrell, T., Wilson, C., & **Heidel, E.** (2011*).* The effects of vigorous exercise on creatine phosphokinase (CPK) in professional hockey players. Research presented at the 2011 Annual Residents’ Research Day, University of Tennessee Graduate School of Medicine, Knoxville, TN.

29. Laine, R. A., Wells, K., **Heidel, R. E.**, Schaeferkotte, J., Long, M., Hanna, W., & Hubner, K. (2011). Early prediction of response to chemotherapy in non-small cell lung cancer patients using 18F-FDG PET/CT. Research presented at the 2011 Annual Residents’ Research Day, University of Tennessee Graduate School of Medicine, Knoxville, TN.

30. DeFanti, L., Gaines, T., **Heidel, R.**, & Orucevic, A. (2011). Proliferative activity of incidental pulmonary tumorlets. Research presented at the 2011 Annual Residents’ Research Day, University of Tennessee Graduate School of Medicine, Knoxville, TN.

31. Black, E. A., Lawson, C., **Heidel, E.**, & Daley, B. (2011). Mortality after angioembolization in pelvic fractures: A ten year review.Research presented at the 2011 Annual Residents’ Research Day, University of Tennessee Graduate School of Medicine, Knoxville, TN.

32. Nagarsheth, K. J., Gandhi, S. S., **Heidel, R. E.**, & Kurek, S. J. (2011). A mathematical model to predict length of stay in pediatric ATV accident victims. Research presented at the 2011 Annual Residents’ Research Day, University of Tennessee Graduate School of Medicine, Knoxville, TN.

33. Smith, S. A., Lawson, K. L., Goepfert, A., Upshaw, A., Doka, E., Sherrill, E., **Heidel, E.**, & Haddad, L. (2011). Comparison of temporal artery and axillary temperatures in healthy newborns. Poster presented at the 2011 Annual Nurses Research Day, University of Tennessee Graduate School of Medicine, Knoxville, TN.

34. **Heidel, R. E.** (2011). Preparing for statistical consultation: Practical considerations for the counseling researcher. Workshop taught at the 2011 Association of Counselor Education and Supervision Conference, Nashville, TN.

35. Black. K. R., **Heidel, R. E.**, Rawn, S., Scarbro, L., & Seay, T. (2012). Retrospective study of rates of infection among dressings used in endovascular surgeries with femoral access sites. Oral presentation at 30th annual Society for Vascular Nursing convention, Tucson, Arizona.

36. Hardin, B., Venugopal, D., White, W., **Heidel, E.**, Besozzi, M., Rogers, B., Wortham, D., & Klein, F. (2012). Screening for preclinical coronary artery disease in men presenting with erectile dysfunction. Moderated poster presentation at 2012 American Urological Association Annual Meeting, Atlanta, GA.

37. Barlow, P, & **Heidel, R.** (2012). Retrospective application of systems thinking and isomorphism to a complex multi-institutional evaluation project. Paper presented at the 2012 American Evaluation Association Conference, Minneapolis, MN.

38. Barlow, P., Smith, T., Metheny, W., & **Heidel, R.** (2012). Methods for developing assessment instruments to generate useful data in the presence of vague course objectives. Paper presented at the 2012 American Evaluation Association Conference, Minneapolis, MN.

39. Smith, T., Barlow, P., **Heidel, R.**, & Metheny, W. (2012). Application of assessment and evaluation data to improve a dynamic graduate medical education curriculum. Paper presented at the 2012 American Evaluation Association Conference, Minneapolis, MN.

40. **Heidel, E.**, Kronick, B., Dunn, P., Skolits, G., & Zaretzki, R. (2013). The operationalization and validation of isomorphism in supervision. Paper presented at the ACA 2013 Conference and Exposition, Cincinnati, OH.

41. **Heidel, E.** & Sumner, B. (2013). Incentives and survey response rates in counselor education: A meta-analysis. Poster presented at the ACA 2013 Conference and Exposition, Cincinnati, OH.

42. Lee, S., **Heidel, E.**, & Orucevic, A. (2012). Prognostic value of young age, carcinoma receptor subtypes and pathologic tumor characteristics on survival of Caucasian women with breast cancer. Poster presented at the Breast Cancer in Young Women Conference, Dublin, Ireland.

43. Crane, M. K., Yeager, J. M., Missimer, C. M., **Heidel, E.**, Kuhn, T. F., Cannon, R., Doughtery, A., & Doughterty, J. H. (2012). Differentiating Frontotemporal Dementia from Early Alzheimer’s Disease with the Cognitive Self-Test (CST). Poster presented at the 8th International Conference on Frontotemporal Dementias, Manchester, England.

44. Rasnake, N., Haddad, L., **Heidel, E.**, & Rasnake, M. (2012). Bacterial colonization of manual resuscitation bags. Poster presented at the Society of Critical Care Medicine’s 42nd Critical Care Congress, San Juan, Puerto Rico.

45. **Heidel, E.**, Breckner, J., Studer, J., & Diambra, J. (2012). Assessing the Comprehensive Developmental School Counseling Programs Implementation of the ASCA National Model. Paper presentation at the 2012 Tennessee Counseling Association Conference, Nashville, TN.

46. Hruska, C. J., Carroll, S. J., **Heidel, R. E.**, Bell, J. L., Panella, T. J., Rangnekar, A, & Orucevic, A. (2013). Adjuvant anti-Her-2-therapy era and prognostic value of breast cancer subtypes, ki-67 proliferation index, age, and pathologic tumor characteristics on overall survival of Caucasian females with breast carcinoma: An academic institution experience. Poster presentation at the 18th Annual Multidisciplinary Symposium on Breast Disease, Amelia Island, FL.

47. Hruska, C. J., Ferguson, N. L., Bell, J. L., **Heidel, R. E.**, Carroll, S. J., Lee, S. S., Duncan, L. D., Van Meter, S. E., Panella, T. J., & Orucevic, A. (2013). Use of ki-67 proliferation index versus tumor grade for classification of breast carcinoma subtypes per the St. Gallen International Breast Cancer Expert Panel Recommendations from 2011 in an academic institution study of Caucasian women, encompassing 2000-2004 time period. Poster presentation at the 18th Annual Multidisciplinary Symposium on Breast Disease, Amelia Island, FL.

48. **Heidel, R. E.**, & Goldman, M. (2013). The process and content of biostatistical consultation within simulation. Poster presentation at the 6th Annual ACS AEI Consortium Meeting, Chicago, IL.

49. Kafka, J., Harnden, C., **Heidel, R. E.**, & Asif, I. (2013). Preventative measures medical professionals discuss during the pre-participation examination. Poster presentation at the 46th STFM Annual Spring Conference, Baltimore, MD.

50. Mynatt, B., & **Heidel, R. E.** (2013). The nuts and bolts of program evaluation for school counselors. Panel presentation at the 2013 Smoky Mountain Counseling Association conference, Jefferson City, TN.

51. Kafka, J., Harnden, C., **Heidel, R. E.**, & Asif, I. (2013). The performance of preventative measures during the pre-participation examination. Paper and poster presentation at the American Medical Society for Sports Medicine 22nd Annual Meeting, San Diego, CA.

52. Hardin, B., Bienvenu, J., **Heidel, E.**, Waters, W. B., Klein, F., Thiel, D., & White, W. M. (2013). Multi-center, longitudinal outcomes of robotic partial nephrectomy for moderate to highly complex renal masses: Comparative outcomes based on R.E.N.A.L. nephrometry score. Panel presentation at the 2013 Annual Meeting of the American Urological Association, San Diego, CA.

53. Moss, J., **Heidel, E.**, Dittrich, E., Terry, P., Goldman, M., Klein, F. A., Waters, W. B., & White, W. M. (2013). Role of community-based prostate screening in the modern era. Poster presentation at the 2013 Annual Meeting of the American Urological Association, San Diego, CA.

54. Kafka, J., Harnden, C., **Heidel, E.**, & Asif, I. (2013). The performance of preventative measures during the pre-participation examination. Poster presented at the 2013 American Medical Society for Sports Medicine Annual Meeting, San Diego, CA.

55. Carroll, S., **Heidel, R. E.**, & Orucevic, A. (2013). Does the pathologist have an influence on the performance of diagnostic testing for celiac disease? Poster presented at the 2013 American Society of Clinical Pathology Annual Meeting, Chicago, IL.

56. Daley, B., Fish, L., & **Heidel, E.** (2013). Serum albumin as a predictor of complications in elective colonic resection. Paper presented at the 2013 Annual Meeting of the Southern Surgical Association, Hot Springs, VA.

57. Kuhn, T. F., Dougherty, J. H., Crane, M. K., **Heidel, R. E.**, Yeager, J. M., & Missimer, C. M. (2013). Cognitive Self-Test (CST): An Internet accessible cognitive test found to be highly correlated with an extensive neurocognitive battery. Poster presentation at the 2013 Alzheimer’s Association International Conference, Boston, MA.

58. Airee, A., Dake, A. W., Williams, J. D., Barlow, P. B., **Heidel, R. E.**, Rubertus, M. A., Yehdego, A. M., & Farland, M. Z. (2013). Hospitalizations and patient outcomes after referral to a pharmacist-physician diabetes co-management service. Paper presentation at the 2013 Annual Meeting, Albuquerque, NM.

59. Afiniwala, M., Ranganath, H., **Heidel, E.**, Wortham, D., & Baljepally, R. (2013). To evaluate whether a mild, isolated inferior wall defect on myocardial perfusion imaging with otherwise normal coronaries on a left heart catheterization is associated with a non-dominant right coronary artery. Poster presentation at the 18th World Congress on Heart Disease Annual Scientific Sessions 2013, Vancouver, BC, Canada.

60. Wall, J. S., Williams, A., Richey, T. A., Stuckey, A., Huang, Y., Wooliver, C., Macy, S. D., **Heidel, R. E.**, Gupta, N., Lee, A., Rader, B., Martin, E. B., & Kennel, S. J. (2013). A binding-site barrier affects quantitative imaging capabilities of high-affinity amyloid reactive peptide radiotracer p5R. Paper presentation at the 2013 Annual World Molecular Imaging Congress, Savannah, GA.

61. Martin, E. B., Richey, T. A., Stuckey, A., **Heidel, R. E.**, Lee, A., Rader, B., Osborne, D., Kennel, S. J., & Wall, J. S. (2013). Characterization of peptid 125I-p5R+14 as an optimized radiotracer for the in vivo detection of ApoA2c amyloidosis. Poster presentation at the 2013 Annual World Molecular Imaging Congress, Savannah, GA.

62. Gandhi, S. S., Gallegos, J., Jarvis, R., Barlow, P. B., **Heidel, R. E.**, Goldman, M. H., & Grandas, O. (2013). Improved outcomes for permanent hemodialysis access. Panel presentation at the 2013 Annual Research Day, University of Tennessee Graduate School of Medicine, Knoxville, TN.

63. Lee, A., **Heidel, R. E.**, & Carlson, E. R. (2013). Secondary findings of positron emission tomography/computed tomography (PET/CT) scans in head and neck cancer patients. Panel presentation at the 2013 Annual Research Day, University of Tennessee Graduate School of Medicine, Knoxville, TN.

64. Lee, S., Ferguson, N. L., **Heidel, R. E.**, Bell, J., & Orucevic, A. (2013). Prognostic value of young age, breast carcinoma receptor subtypes and pathologic tumor characteristics on overall survival of Caucasian women with breast cancer. Panel presentation at the 2013 Annual Research Day, University of Tennessee Graduate School of Medicine, Knoxville, TN.

65. Gandhi, S. S., Long, C. A., **Heidel, E.**, Grandas, O., Goldman, M., & Cantafio, A. W. (2013). Preoperative assessment of maximal venous outflow velocity in the evaluation of permanent hemodialysis access placement. Panel presentation at the 2013 Annual Research Day, University of Tennessee Graduate School of Medicine, Knoxville, TN.

66. Alterman, D. M., **Heidel, R. E.**, Daley, B. J., Grandas, O. H., Stevens, S. L., Arnold, J. D., Goldman, M. H., & Freeman, M. B. (2013). Prospective validation of conservative management of vertebral artery injury. Panel presentation at the 2013 Annual Research Day, University of Tennessee Graduate School of Medicine, Knoxville, TN.

67. Hardin, B., Brock, C., Bienvenu, J., **Heidel, E.**, Waters, W. B., Klein, F. A., Thiel, D., & White, W. M. (2013). Multi-center, longitudinal outcomes of robotic partial nephrectomy for moderate to highly complex renal masses: Comparative outcomes based on R.E.N.A.L. nephrectomy score. Panel presentation at the 2013 Annual Research Day, University of Tennessee Graduate School of Medicine, Knoxville, TN.

68. Moss, J., **Heidel, E.**, Dittrich, E., Terry, P., Goldman, M., Klein, F. A., Waters, W. B., & White, W. M. (2013). Role of community-based prostate screening in the modern era. Panel presentation at the 2013 Annual Research Day, University of Tennessee Graduate School of Medicine, Knoxville, TN.

69. Johnson, J. E., Jan, J. A., Clark, J., Bridges, V., Crain, D., Gaines, T. E., Dieter, R. A., Everett, J. E., **Heidel, R. E.**, Freeman-Anderson, N. E., & Mach J. W. (2012). Factors associated with 30 day readmission after coronary artery bypass. Tennessee Chapter of the American College of Surgeons, Chattanooga, TN.

70. Moss, J. L., **Heidel, E.**, Dittrich, E., Terry, P. D., Goldman, M. H., Klein, F. A., Water, W. B., & White, W. M. (2013). Role of community-based prostate cancer screening in the modern era. Southeastern Section of the American Urological Association Annual Meeting, Williamsburg, VA.

71. Hardin, B. M., Bienvenu, J. M., **Heidel, E.**, Waters, W. B., Klein F. A., Thiel, D., & White, W. M. (2013). Multi-center, longitudinal outcomes of robotic partial nephrectomy for moderate to highly complex renal masses: Comparative outcomes based on R. E. N> A. L. nephrectomy score. Southeastern Section of the American Urological Association Annual Meeting, Williamsburg, VA.

72. Hinds, M., McMillen, J. C., & **Heidel R. E.** (2013). Evaluation of patients receiving treatment for delirium based on a validated prediction model. Poster presented at the SCCM 43rd Critical Care Congress, San Francisco, CA.

73. Curtis, A., Radtke, J., Day, T., Blair, S., Henry, J., & Heidel, R. E. (2013). Retrospective review of inpatient CODE STROKE and evaluation of the implementation and outcomes. Poster presented at the 2014 International Stroke Conference, San Diego, CA.

74. Chen J, Nepveux FJ, Patel P, **Heidel RE**, Orucevic A. (2014). Can finding esophageal eosinophilia in biopsies from esophageal strictures predict the diagnosis of eosinophilic esophagitis? Presentation at National College of American Pathologists, Chicago, IL.

75. **Heidel RE**. (2014) Nuts and Bolts Research Symposium. UTHSC, Chattanooga, TN.

76. Bourgeois AC, Bradley YC, McElmurray J, Robinson CA, **Heidel RE**, Pascial AS. (2015). The effect of anti-reflux catheters on pulmonary shunt fraction in patients with hepatocellular carcinoma. Presenation at World Conference of Interventional Radiology, New York, NY.

77. Bryant SB, Upadhyaya NB, **Heidel RE**, Hennessy M, Howard B, Rodriguez H. (2015). Early diagnosis of gestational diabetes mellitus in patients with elevated body mass index. Presentation at American Congress of Obstetricians and Gynecologists, San Francisco, Ca.

78. Crownover, J, Terrell T, **Heidel E**, Galloway L, Casmus R. (2015). Association between TNF alpha1, TNF alpha2, and APOE G-219T genotypes and post-concussion SAC and SCAT2 scores in college athletes. Presentation at American Medical Society for Sports Medicine Annual Meeting, Hollywood, FL.

79. Bourgeois AC, Pasciak A, Bradley YC, **Heidel RE**, McElmurray J. (2015). The impact of an anti-reflux catheter on downstream particulate distribution in liver-directed embolotherapy: An in-vivo analysis. Presentation at Society of Interventional Radiology, Atlanta, GA.

80. Snyder D, Curzon M, **Heidel RE**, Geddam C, Panella T, Desai P, Bell J, Orucevic A. (2015). Redefining a traditional paradigm: Young (<40) females with breast carcinoma have improved survival when compare to >70 year olds. Presentation at the 2th Annual Multidisciplinary Symposium on Breast Disease, Amelia Island, FL.

81. Rumberger LK, Kolze C, **Heidel RE**, Himelright I, Spinell J, Findeiss L, Daley B. (2015). Improving the accuracy of CT scanning in the diagnosis of small bowel obstruction: To scan or not to scan…again? Presentation at the National American College of Gastroenterology, Honolulu, HI.

82. Ogburn G, Misra N, Rasnake M, Sammons B, Mendez J, **Heidel RE**. (2015). Evaluation of peripheral eosinophilia in patients on Daptomycin. Presentation at the National Infectious Disease Society of America: ID Week, San Diego, CA.

83. Sammons B, Cathey L, **Heidel E**, Rasnake M. (2015). Illicit injection drug use as a risk factor for hospital onset central line-associated bloodstream infection. Presentation at the National Infectious Disease Society of America: ID Week, San Diego, CA.

84. Orucevic A, Curzon M, McLoughlin J, Geddam C, **Heidel RE**, Desai P, Panella T, Bell J. (2015). Breast cancer in elderly patients (70 years and older): The University of Tennessee Medical Center at Knoxville 10 year experience. Presentation at the International World Congress on Breast Cancer, Birmingham, United Kingdom.

85. Rumberger LK, Vittetoe D, Cathey L, Brown H, **Heidel RE**, Daley BJ. (2015). Implementing a colorectal bundle may improve surgical site infection rates. Presentation at the National American College of Surgeons Surgical Quality Improvement Program, Chicago, IL.

86. Abraham MP, Hinds M, Tayidi I, Jeffcoach DR, Corder JM, Hamilton LA, Lawson CM, Boling RW, **Heidel RE**, McMillen JC, Daley BJ. (2015). Quetiapine for delirium prophylaxis in high-risk critically ill patients. Presentation at the Region IV Committee on Trauma Resident Paper Competition, Atlanta, GA.

87. Orucevic A, **Heidel RE**, Bell JL. (2015). Utilization and impact of Oncotype DX 21-gene breast cancer assay in clinical practice across the US: 2010-2012 National Cancer Data Base analysis. Presentation at the San Antonio Breast Cancer Symposium, San Antonio, TX.

88. Orucevic A, **Heidel RE**, Bell JL. (2015). Analysis of the National Cancer Data Base 2010-2012 Oncotype DX breast cancer assay: Lessons learned. Presentation at the San Antonio Breast Cancer Symposium, San Antonio, TX.

89. Jeffcoach DR, Gallegos JJ, Jesty SA, Coan PN, Chen J, **Heidel RE**, Daley BJ. (2016). Utility of CPR in hemorrhagic shock, a dog model. Presentation at the 29th Annual Scientific Assembly of the Eastern Association for the Surgery of Trauma, San Antonio, TX.

90. Bourgeois AC, McElmurray JH, Bradley YC, Robinson CA, **Heidel, RE**, Pasciak AS. (2015). A novel dual infusion protocol to evaluate differences in embolic therapies among different infusion catheters. Presentation at the World Conference of Interventional Oncology, New York, NY.

91. Kennel SJ, Macy S, Wooliver C, Huang Y, Richey T, **Heidel RE**, Wall JS. (2014). Phagocyte depletion inhibits reactive (AA) amyloid accumulation in amyloid enhancing factor-induced human IL-6 trasgenic mice. Presentation at the XIVth International Symposium on Amyloidosis, Indianapolis IN.

92. Huffstutter P, Hines L, **Heidel RE**, Klar M, Roark J, Rowan C, Rose Z, Epps J. (2014). The implementation of surgical crisis checklists in perioperative team simulation. Presentation at The American College of Surgeon’s 7th Annual Meeting, Chicago, IL.

93. **Heidel E,** Huffstutter P, Hines L, Klar M, Roark J, Goldman M. (2014). Methods of increasing the internal validity of assessment in simulation: Lessons learned in the applied perioperative surgical simulation environment. Presentation at the 7th Annual Meeting of the Consortium of ACS-AEI, Chicago, IL.

94. Chen J, McLoughlin, J, **Heidel E**, Bell J, Panella T, Orucevic O. (2014). Is the TNM staging system for breast cancer still relevant in the era of biomarkers and emerging personalized medicine for breast cancer – An institution’s 10 year experience. Presentation at the Multidisciplinary Symposium on Breast Disease, Amelia Island, FL.

95. Bourgeois AC, McLaren T, Hudson K, Pasciak AS, Faulkner AR, **Heidel E**, Bradley YC. (2014). Simulation-based educational curriculum for lumbar puncture to improve operator confidence and efficiency. Presentation at the American Society of Spine Radiology, Miami Beach, FL.

96. Bienvenu J, Hardin B, **Heidel RE**, Klein F, Thiel D, White WM. (2013). Multi-center, longitudinal outcomes of robotic partial nephrectomy for moderate to highly complex renal masses: Comparative outcomes based on R.E.N.A.L. nephrectomy score. Presentation at the 31st World Congress of Endourology, New Orleans, LA.

97. Kerr RD, **Heidel RE**, McNabb AP, Rasnake MS. (2013). Invasive procedure training requirements of Internal Medicine residencies: A survey of internal medicine program directors. Presentation at the American College of Physicians, Tennessee Chapter Scientific Meeting, Franklin, TN.

GRANTS:

1. Cardinal Health Foundation E3 Grant. Implementation of surgical crisis checklist into the Perioperative Care Team. Funded: $10,935.

2. UTK sub-award, Co-PI, Grant #15-0022, $36,500

3. PIPES, Co-PI, (just received official notification of funding), $1,170,000, 5% effort

PROGRAM EVALUATION:

1. Boys and Girls Clubs of the Tennessee Valley (BGCTNV). The effect of BGCTNV programs on graduation rates in Knoxville, TN.

2. Full Service Schools. Pond Gap and Sarah Moore Green after-school programs.

3. Head Start/Mideast Community Action Agency, Measurement and Statistical Consultation.

4. Tennessee Orthopaedic Associates, Evaluation of Outcomes.

5. Provision Proton Therapy Center, Evaluation of Outcomes.

COMMITTEES:

1. TNCPE Measurement Committee, UHS, Knoxville, TN.

2. Boys and Girls Clubs of the Tennessee Valley (BGCTNV), Ignite Greatness Program Committee Member

3. Director, Office of Medical Education, Research and Development

4. Statistician, PMERF committee

5. Member, Assistant/Associate Dean search committee

PATENTS:

1. U.S. Patent #7,190,088. Process of using hydraulic turbines to generate electricity.

2. U.S. Patent #8,069,061. Computer software program for mental health professionals.

3. U.S. Patent Application #14/756,122. Online decision engine for applied research and statistics