Date of Preparation \_\_\_\_\_6/1/2025\_\_\_\_\_\_\_\_\_\_\_

## CURRICULUM VITAE

**NAME: Robert Eric Heidel, Ph.D.**

**BIRTHDAY: 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, Master 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:**

Poster award, National Consortium of Breast Centers, 2025, Las Vegas, NV

Poster award, International Society of Amyloidosis 2022, Heidelberg, Germany

Accredited Professional Statistician, American Statistical Association

2024 Faculty Evaluation: Exceeding Expectations

2023 Faculty Evaluation: Exceeding Expectations

2022 Faculty Evaluation: Exceeding Expectations

2021 Faculty Evaluation: Exceeding Expectations

2020 Faculty Evaluation: Exceeding Expectations

2019 Faculty Evaluation: Exceeding Expectations

2018 Faculty Evaluation: Exceeding Expectations

2017 Faculty Evaluation: Exceeding Expectations

2016 Faculty Evaluation: Exceeding Expectations

2015 Faculty Evaluation: Exceeding Expectations

2014 The Breast Journal Award

2014 Herbert M. Stauffer Award for Best Education Paper PMID: 24029059

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/ACADEMIC APPOINTMENTS:**

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

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

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

Director, Office of Biostatistics and Research Consultation, August 2021 – Present

**OTHER ACADEMIC APPOINTMENTS:**

Adjunct Affiliate Professor of Biomedical Engineering, Institute of Biomedical Engineering, University of Tennessee, April 2013 – May 2016

Adjunct Assistant Professor of Nursing, College of Nursing, University of Tennessee, December 2015-2017

**TEACHING EXPERIENCE:**

Course director, designer, and lecturer for all below:

Poisson and Negative Binomial Regression, CEM 534, May 2025

Diagnostic Testing, CEM 534, May 2025

Epidemiological Calculations, CEM 534, April 2025

Kaplan-Meier and Cox Regression, CEM 534, April 2025

ANCOVA, CEM 534, April 2025

Multiple Regression, CEM 534, April 2025

Proportional Odds Regression, CEM 534, April 2025

Logistic Regression, CEM 534, April 2025

Spearman’s rho, Kendall’s tau-b, Pearson correlation, CEM 534, April 2025

Phi-coefficient, Rank Biserial, Point Biserial, CEM 534, April 2025

Repeated-measures ANOVA, Friedman’s ANOVA, CEM 534, March 2025

Repeated-measures t-test, Wilcoxon Signed Ranks, CEM 534, March 2025

McNemar’s test, Cochran’s Q, CEM 534, March 2025

One-way ANOVA, Kruskal-Wallis test, CEM 534, March 2025

Epidemiological and Diagnostic Testing Calculations, Capstone Course, March 2025

Applied Statistics, Capstone Course, March 2025

Statistical Power, Measurement, and Database Management, Capstone Course, March 2025

Research Designs, Capstone Course, March 2025

Research Questions, Capstone Course, March 2025

Independent samples t-test, Mann-Whitney U, CEM 534, February 2025

Chi-square, Fisher’s Exact Test, Unadjusted Odds Ratio, CEM 534, February 2025

Descriptive and Frequency Statistics, CEM 534, February 2025

Database Management and REDCap, CEM 534, February 2025

Statistical Power, Sample Size, and Effect Size, CEM 534, February 2025

Measurement of Variables, CEM 534, February 2025

Populations and Sampling Methods, CEM 534, February 2025

Systematic Review and Meta-Analysis, CEM 534, February 2025

Applied Statistics, Epidemiology, and Diagnostic Testing, February 2025

Research Questions, Anesthesiology, February 2025

Prospective Cohort, Quasi-Experimental, and Randomized Controlled Trials, CEM 534, January 2025

Case-Control, Cross-Sectional, Retrospective Cohort, CEM 534, January 2025

Research Hypotheses and Hypothesis Testing, CEM 534, January 2025

Research Questions, CEM 534, January 2025

Research Questions and Research Designs, Medicine, January 2025

Research Designs, Internal Medicine, November 2024

Research Questions, Internal Medicine, November 2024

Epidemiology and Diagnostic Testing, Transitional Year, October 2024

Applied Biostatistics, Transitional Year, October 2024

Measurement of Variables, Statistical Power, Database Management, Transitional Year, October 2024

Research Designs, Transitional Year, October 2024

Research Questions, Transitional Year, October 2024

Research Questions, Research Designs, Statistical Power, Measurement of Variables, Applied Biostatistics, University of Nevada – Reno, October 2024

Research Questions, University of Nevada – Reno, October 2024

Epidemiological and Diagnostic Calculations, St. Bernard’s Healthcare, September 2024

Epidemiology and Diagnostic Testing, Fellow’s Research Week, September 2024

Applied Biostatistics, Fellow’s Research Week, September 2024

Statistical Power, Measurement of Variables, Database Management, Fellow’s Research Week, September 2024

Research Designs, Fellow’s Research Week, September 2024

Research Questions, Fellow’s Research Week, September 2024

Applied Biostatistics, St. Bernard’s Healthcare, September 2024

Measurement of Variables, Statistical Power, Database Management, St. Bernard’s Healthcare, August 2024

Survey Design, Faculty Development, August 2024

Research Designs, St. Bernard’s Healthcare, July 2024

Research Questions, St. Bernard’s Healthcare, July 2024

Research Questions and Research Designs, Faculty Development, July 2024

Generalized Estimating Equations, Comparative and Experimental Medicine, May 2024

Diagnostic Testing, Comparative and Experimental Medicine, April 2024

Epidemiological Calculations, Comparative and Experimental Medicine, April 2024

Kaplan-Meier and Cox Regression, Comparative and Experimental Medicine, April 2024

ANCOVA, Comparative and Experimental Medicine, April 2024

Multiple Regression, Comparative and Experimental Medicine, April 2024

Proportional Odds Regression, Comparative and Experimental Medicine, April 2024

Logistic Regression, Comparative and Experimental Medicine, April 2024

Spearman’s rho, Kendall’s tau-b, Pearson correlation, Comparative and Experimental Medicine, April 2024

Phi-coefficient, Rank Biserial, Point Biserial, Comparative and Experimental Medicine, April 2024

Applied Statistics, Epidemiology, and Diagnostics, Undergraduate Capstone, March 2024

Statistical Power, Measurement of Variables, Database Management, Undergraduate Capstone, March 2024

Epidemiological Research Designs, Undergraduate Capstone, March 2024

Repeated-measures ANOVA and Friedman’s ANOVA, Comparative and Experimental Medicine, March 2024

Repeated-measures t-test and Wilcoxon Signed Ranks test, Comparative and Experimental Medicine, March 2024

McNemar’s test and Cochran’s Q, Comparative and Experimental Medicine, March 2024

One-way ANOVA and Kruskal-Wallis tests, Comparative and Experimental Medicine, March 2024

Research Questions, Undergraduate Capstone, February 2024

Epidemiological and Diagnostic Testing Calculations, Internal Medicine, February 2024

Applied Biostatistics, Internal Medicine, February 2024

Measurement of Variables, Statistical Power, Database Management, Internal Medicine, February 2024

Research Designs, Internal Medicine, February 2024

Research Questions, Internal Medicine, February 2024

Independent samples t-test, Mann-Whitney U, Comparative and Experimental Medicine, February 2024

Chi-square, Fisher’s Exact Test, Unadjusted odds ratios, Comparative and Experimental Medicine, February 2024

Descriptive and Frequency Statistics, Comparative and Experimental Medicine, February 2024

Database Management and RedCap, Comparative and Experimental Medicine, February 2024

Statistical Power, Sample Size, and Effect Size, Comparative and Experimental Medicine, February 2024

Measurement of Variables, Comparative and Experimental Medicine, February 2024

Populations and Sampling Methods, Comparative and Experimental Medicine, February 2024

Systematic Review and Meta-Analysis, Comparative and Experimental Medicine, February 2024

Prospective Cohort, Quasi-experimental, Randomized Controlled Trials, Comparative and Experimental Medicine, February 2024

Case-control, Cross-sectional, and Retrospective Cohort Studies, Comparative and Experimental Medicine, January 2024

Research Hypotheses and Hypothesis Testing, Comparative and Experimental Medicine, January 2024

FINER and PICOT, Comparative and Experimental Medicine, January 2024

Grand Rounds, Department of Surgery, November 2023

Diagnostic Testing and Epidemiology, Transitional Year, November 2023

Applied Statistics, Transitional Year, November 2023

Database Management, Statistical Power, and Measurement, Transitional Year, November 2023

Research Designs, Transitional Year, November 2023

Research Questions, Transitional Year, November 2023

Isomorphism in Statistical Power, Department of Mathematics, University of Tennessee, October 2023

Diagnostic Testing and Epidemiology, Fellow’s Research Week, September 2023

Applied Statistics, Fellow’s Research Week, September 2023

Database Management, Statistical Power, and Measurement, Fellow’s Research Week, September 2023

Research Designs, Fellow’s Research Week, September 2023

Research Questions, Fellow’s Research Week, September 2023

Grand Rounds, OBGYN, August 2023

Basics of Research 2, Faculty Development, August 2023

Basics of Research 1, Faculty Development, July 2023

RedCap Tutorial, Office of Research Support, June 2023

Research Questions and Research Designs, Faculty Development, April 2023

Risk Reduction, NNT/NNH, Family Medicine, March 2023

Diagnostic Testing and Epidemiology, Undergraduate Capstone, March 2023

Applied Statistics, Undergraduate Capstone, March 2023

Database Management, Statistical Power, and Measurement, Undergraduate Capstone, March 2023

Research Designs, Undergraduate Capstone, February 2023

Research Questions, Undergraduate Capstone, February 2023

Odds/risk/hazard ratio; Confidence Intervals and p-values, Family Medicine, February 2023

Diagnostic Testing and Epidemiology, Internal Medicine, February 2023

Applied Statistics, Internal Medicine, February 2023

Database Management, Statistical Power, and Measurement, Internal Medicine, February 2023

Research Designs, Internal Medicine, January 2023

Research Questions, Internal Medicine, January 2023

Diagnostic Testing and Epidemiology, Transitional Year, November 2022

Applied Statistics, Transitional Year, November 2022

Database Management, Statistical Power, and Measurement, Transitional Year, November 2022

Research Designs, Transitional Year, November 2022

Research Questions, Transitional Year, November 2022

Diagnostic Testing and Epidemiology, Fellow’s Research Week, October 2022

Applied Statistics, Fellow’s Research Week, October 2022

Database Management, Statistical Power, and Measurement, Fellow’s Research Week, October 2022

Research Designs, Fellow’s Research Week, October 2022

Research Questions, Fellow’s Research Week, October 2022

Research Questions, Family Medicine, September 2022

Grand Rounds, OBGYN Department, August 2022

Diagnostic Testing and Epidemiology, University of Tennessee- Chattanooga Department of Surgery, June 2022

Applied Statistics, St. Bernard’s Healthcare, May 2022

Database Management, Statistical Power, and Measurement, St. Bernard’s Healthcare, May 2022

Research Designs, University of Tennessee- St. Bernard’s Healthcare, May 2022

Grand Rounds, Department of Surgery, May 2022

Research Questions, St. Bernard’s Healthcare, April 2022

Risk reduction, absolute/relative risk, NNT/NNH, Family Medicine, March 2022

Diagnostic Testing and Epidemiology, Capstone – Medical Students, March 2022

Applied Statistics, Capstone – Medical Students, March 2022

Database Management, Statistical Power, and Measurement, Capstone – Medical Students, March 2022

Research Designs, Capstone – Medical Students, March 2022

Research Questions, Capstone – Medical Students, February 2022

Faculty Development: Basics of Research, Sample Management and Statistics, February 2022

Odds, Risk, Hazard Ratios, confidence intervals, and p-values, Family Medicine, February 2022

Faculty Development: Basics of Research, Research Questions and Research Designs, January 2022

Diagnostic Testing and Epidemiology, Internal Medicine, January 2022

Applied Statistics, Internal Medicine, January 2022

Database Management, Statistical Power, and Measurement, Internal Medicine, January 2022

Research Designs, Internal Medicine, January 2022

Research Questions, Internal Medicine, January 2022

Diagnostic Testing and Epidemiology, Transitional Year, December 2021

Applied Statistics, Transitional Year, December 2021

Database Management, Statistical Power, and Measurement, Transitional Year, December 2021

Research Designs, Transitional Year, December 2021

Research Questions, Transitional Year, December 2021

Diagnostic Testing and Epidemiology, Fellow’s Research Week, September 2021

Applied Statistics, Fellow’s Research Week, September 2021

Database Management, Statistical Power, and Measurement, Fellow’s Research Week, September 2021

Research Designs, Fellow’s Research Week, September 2021

Research Questions, Fellow’s Research Week, September 2021

Meta-analysis, Family Medicine, June 2021

Risk reduction absolute/relative - NNT/NNH, Family Medicine, March 2021

Odds/Risk/Hazard Ratio, Confidence intervals and p-values, Family Medicine, February 2021

Research Questions, Transitional Year, January 2021

Research Designs, Transitional Year, January 2021

Database Management, Statistical Power, and Measurement, Transitional Year, January 2021

Applied Statistics, Transitional Year, January 2021

Diagnostic Testing and Epidemiology, Transitional Year, January 2021

Research Questions, Internal Medicine, January 2021

Research Designs, Internal Medicine, January 2021

Database Management, Statistical Power, and Measurement, Internal Medicine, January 2021

Applied Statistics, Internal Medicine, January 2021

Diagnostic Testing and Epidemiology, Internal Medicine, January 2021

Diagnostic Testing and Epidemiology, Fellow’s Research Week, October 2020

Applied Statistics, Fellow’s Research Week, October 2020

Database Management, Statistical Power, and Measurement, Fellow’s Research Week, October 2020

Research Designs, Fellow’s Research Week, October 2020

Research Questions, Fellow’s Research Week, October 2020

Epidemiology and Diagnostic Testing, Oral and Maxillofacial Surgery, May 2020

Applied Statistics, Oral and Maxillofacial Surgery, May 2020

Database Management, Statistical power, and Measurement, Oral and Maxillofacial Surgery, May 2020

Research Designs, Oral and Maxillofacial Surgery, May 2020

Research Questions, Oral and Maxillofacial Surgery, May 2020

Epidemiology and Diagnostic Testing, Transitional Year, February 2020

Applied Statistics, Transitional Year, February 2020

Database Management, Statistical Power, and Measurement, Transitional Year, February 2020

Research Designs, Transitional Year, February 2020

Research Questions, Transitional Year, February 2020

Epidemiology and Diagnostic Testing, Internal Medicine, January 2020

Applied Statistics, Internal Medicine, January 2020

Database Management, Statistical Power, and Measurement, Internal Medicine, January 2020

Research Designs, Internal Medicine, January 2020

Research Questions, Internal Medicine, January 2020

Journal Club presentation, Radiology, January 2020

High yield course lecture for boards, OBGYN, January 2020

Meta-Analysis and Systematic Reviews, Family Medicine, December 2019

Odds ratio, Risk ratio, Hazard ratio, 95% confidence intervals, p-values, Family Medicine, November 2019

Grand Rounds, Surgery, November 2019

Statistics and Research Design, Radiology, November 2019

Diagnostic Testing and Epidemiology, Fellow’s Research Week, September 2019

Applied Statistics, Fellow’s Research Week, September 2019

Database Management, Statistical Power, and Measurement, Fellow’s Research Week, September 2019

Research Designs, Fellow’s Research Week, September 2019

Research Questions, Fellow’s Research Week, September 2019

Diagnostic Testing and Epidemiology, Pharmacy, August 2019

Applied Statistics, Pharmacy, August 2019

Database Management, Statistical Power, and Measurement, Pharmacy, August 2019

Research Designs, Pharmacy, August 2019

Research Questions, Pharmacy, August 2019

Meta-Analysis, Family Medicine, May 2019

Diagnostic Testing and Epidemiology, Oral and Maxillofacial Surgery, May 2019

Applied Statistics, Oral and Maxillofacial Surgery, May 2019

Database Management, Statistical Power, and Measurement, Oral and Maxillofacial Surgery, May 2019

Research Designs, Oral and Maxillofacial Surgery, May 2019

Research Questions, Oral and Maxillofacial Surgery, May 2019

Research Questions and Survey Design, Faculty Development, February 2019

Database Management, Statistical Power, and Measurement, Transitional Year, February 2019

Research Questions and Research Design, Transitional Year, February 2019

Diagnostic Testing and Epidemiology, Internal Medicine, February 2019

Applied Statistics, Internal Medicine, February 2019

Database Management, Statistical Power, and Measurement, Internal Medicine, January 2019

Research Design, Internal Medicine, January 2019

Research Questions, Internal Medicine, January 2019

Applied Statistics, Epidemiology, and Diagnostic Testing, OBGYN, January 2019

Research Questions and Research Design, Transitional Year, December 2018

Diagnostic Testing and Epidemiology, Transitional Year, December 2018

Applied Statistics, Transitional Year, December 2018

Statistical Analysis, Nursing Research Council, November 2018

Research Design and Statistical Power, Cardiology, November 2018

Applied Statistics, Department of Radiology, November 2018

Applied Statistics and Epidemiology, Cardiology, October 2018

Measurement of Variables, Department of Radiology, October 2018

Epidemiology and Diagnostic Testing, Fellow’s Research Week, September 2018

Applied Statistics, Fellow’s Research Week, September 2018

Sample Size Calculations and Database Management, Fellow’s Research Week, September 2018

Measurement of Variables, Statistical Power, Effect Size, and Sample Size, Fellow’s Research Week, September 2018

Epidemiological Research Designs, Fellow’s Research Week, September 2018

The Research Question and PICO, Fellow’s Research Week, September 2018

Epidemiology and Diagnostic Testing, Pharmacy, August 2018

Applied Statistics, Pharmacy, August 2018

Measurement, Statistical Power, and Database Management, Pharmacy, August 2018

Epidemiological Research Designs, Pharmacy, August 2018

Research Questions, Pharmacy, August 2018

Association vs. Causation, Family Medicine, July 2018

Meta-analysis and Systematic Reviews, Family Medicine, June 2018

Biostatistics, Transitional year, May 2018

Reading the Medical Literature, Transitional Year, May 2018

Epidemiology and Diagnostic Testing, Oral and Maxillofacial Surgery, February 2018

Applied Statistics, Oral and Maxillofacial Surgery, February 2018

Measurement, Statistical Power, and Database Management, Oral and Maxillofacial Surgery, February 2018

Epidemiological Research Designs, Oral and Maxillofacial Surgery, February 2018

The Research Question – FINER and PICO, Oral and Maxillofacial Surgery, February 2018

Epidemiology and Diagnostic Testing, Transitional year, February 2018

Applied Statistics, Transitional Year, February 2018

Measurement, Statistical Power, and Database Management, Transitional Year, February 2018

Epidemiological Research Designs, Transitional Year, January 2018

The Research Question – FINER and PICO, Transitional Year, January 2018

Odds Ratios and Relative Risk, Family Medicine, January 2018

Diagnostic Testing and Epidemiology, OBGYN, January 2018

Regression and Survival Analysis, Family Medicine, December 2017

ANOVA, t-tests, and Chi-Square, Family Medicine, November 2017

Lunch and Learn Talk on Psychometrics, UT Simulation Center, October 2017

Confidence Intervals, Family Medicine, September 2017

Epidemiology and Diagnostic Testing, Fellow’s Research Week, September 2017

Applied Statistics, Fellow’s Research Week, September 2017

Sample Size Calculations and Database Management, Fellow’s Research Week, September 2017

Measurement of Variables, Statistical Power, Effect Size, and Sample Size, Fellow’s Research Week, September 2017

Epidemiological Research Designs, Fellow’s Research Week, September 2017

The Research Question – FINER and PICO, Fellow’s Research Week, September 2017

Developing Research and Statistics, August 2017

Odds ratios, Nursing Research Council, August 2017

Advanced Statistics, Pharmacy, August 2017

Statistics, Pharmacy, August 2017

Statistical Power, Measurement, and Database Management, August 2017

Epidemiological Research Designs, Pharmacy, August 2017

FINER and PICO, Pharmacy, August 2017

Risk Reduction, Sensitivity and Specificity, Family Medicine, July 2017

Research Design and Statistical Analysis, Nursing, July 2017

Statistical vs. clinical significance, Family Medicine, June 2017

Cross-sectional and ecological designs, Family Medicine, May 2017

Applied Empirical and Statistical Methods, Nursing, March 2017

Comparative Effectiveness Research, Family Medicine, February 2017

Advanced Statistics, Transitional Year, February 2017

Statistics, Transitional Year, February 2017

Statistical Power, measurement, and Database Management, Transitional Year, February 2017

Research Designs, Transitional Year, February 2017

FINER and PICO, Transitional Year, February 2017

Advanced Statistics, Oral and Maxillofacial Surgery, February 2017

Statistics, Oral and Maxillofacial Surgery, February 2017

Statistical Power, Measurement, and Database Management, Oral and Maxillofacial Surgery, February 2017

Research Designs, Oral and Maxillofacial Surgery, February 2017

FINER and PICO, Oral and Maxillofacial Surgery, February 2017

Advanced Statistics, Internal Medicine, January 2017

Statistics, Internal Medicine, January 2017

Statistical Power, Measurement, and Database Management, Internal Medicine, January 2017

Research Designs, Internal Medicine, January 2017

FINER and PICO, Internal Medicine, January 2017

Association vs. Causation, Family Medicine, January 2017

Research Designs, OBGYN, January 2017

FINER and PICO, OBGYN, December 2016

Cross-sectional and Ecological Designs, Family Medicine, November 2016

Surgery Grand Rounds, November 2016

Fellow’s Research Week, UTGSM, September 2016

Advanced Statistics, Pharmacy, August 2016

Statistics, Pharmacy, August 2016

Statistical Power, Measurement, and Database Management, Pharmacy, August 2016

Research Designs, Pharmacy, August 2016

FINER and PICO, Pharmacy, August 2016

Odds/Risk Ratios, Family Medicine, July 2016

Research Questions, Research Designs, Statistical Power, and Statistics, July 2016

Regression analysis and Survival, Family Medicine, June 2016

ANOVA, t-test, chi-square, Family Medicine, May 2016

Risk Reduction, Sensitivity, and Specificity, Family Medicine, April 2016

Confidence intervals and p-values, Family Medicine, March 2016

Research Questions, Research Designs, and Statistics, Nursing, March 2016

Psychometrics in Simulation, UT Center for Advanced Medical Simulation, February 2016

Sensitivity and Specificity, Family Medicine, January 2016

Research Design, Statistical Power, and Measurement, Transitional Year, January 2016

Research Questions, Transitional Year, January 2016

Diagnostic Testing and Epidemiological Calculations, Oral and Maxillofacial Surgery, January 2016

Diagnostic Testing and Epidemiological Calculations, OBGYN, January 2016

Research Designs and Statistical Tests, OBGYN, January 2016

Between-subjects, Within-subjects, and Multivariate Statistics, Oral and Maxillofacial Surgery, January 2016

Statistical Power, Measurement, and Databases, Oral and Maxillofacial Surgery, December 2015

Statistical versus Clinical Significance, Family Medicine, December 2015

Research Designs, Oral and Maxillofacial Surgery, December 2015

Research Questions: FINER and PICO, Oral and Maxillofacial Surgery, December 2015

Diagnostic Testing and Epidemiological Calculations, Pharmacy, December 2015

Between-subjects, Within-subjects, and Multivariate Statistics, Pharmacy, September 2015

Statistical Power, Measurement, and Database Management, Pharmacy, September 2015

Research Designs, Pharmacy, September 2015

Grand Rounds, Surgery, September 2015

Research Questions: FINER and PICO, Pharmacy, September 2015

Fellow’s Research Week, UTGSM, August 2015

Systematic Reviews and Meta-Analysis, Family Medicine, July 2015

Applied research and statistics, Nursing, July 2015

Applied research and statistics, Preston Medical Library, July 2015

Writing research questions, Anesthesiology, June 2015

2x2 tables, OBGYN, June 2015

Choosing research designs, Anesthesiology, June 2015

Association versus causation, Family Medicine, June 2015

Medical Explorations, Jesse Higdon, June 2015

Medical Explorations, Alex Chesser, June 2015

Medical Explorations, Alex Caughman, June 2015

Bivariate and multivariate statistics, Anesthesiology, June 2015

Statistical Power, Anesthesiology, June 2015

Association vs. Causation, Family Medicine, June 2015

Choosing Research Designs, Anesthesiology, June 2015

Epidemiology and Diagnostic Testing, OBGYN, June 2015

Writing Research Questions, Anesthesiology, June 2015

Bivariate and multivariate statistics, Oral and Maxillofacial Surgery, June 2015

Randomized controlled trials, Oral and Maxillofacial Surgery, May 2015

Bivariate and multivariate statistics, OBGYN, May 2015

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

Systematic Reviews, Oral and Maxillofacial Surgery, May 2015

Appraising Prognosis Evidence, Oral and Maxillofacial Surgery, May 2015

Statistical Power, OBGYN, April 2014

Bivariate and multivariate statistics, Transitional Year, April 2014

Evidence-based medicine, Radiology, March 2014

Evidence-based medicine, UT Simulation Center, March 2015

Choosing research designs, OBGYN, March 2015

Evidence-based medicine, UT Simulation Center, March 2015

Evidence-based medicine, UT Simulation Center, March 2015

Choosing research designs, Transitional Year, March 2015

Evidence-based medicine, UT Simulation Center, March 2015

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

Statistical power, Transitional Year, March 2015

Epidemiology and diagnostic testing, Transitional Year, February 2015

Writing research questions, OBGYN, February 2015

Writing research questions, Transitional Year, February 2015

Research Engineer, UTGSM Research Seminar, January 2015

OBGYN High Yield, OBGYN, January 2015

OBGYN High Yield, OBGYN, January 2015

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

Statistical power, Dentistry, December 2014

Regression analysis and survival, Family Medicine, December 2014

Writing research questions, Dentistry, November 2014

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

Choosing research designs, Dentistry, November 2014

Writing research questions, Pharmacy, September 2014

Choosing research designs, Pharmacy, September 2014

Statistical power, Pharmacy, September 2014

Bivariate and multivariate statistics, Pharmacy, September 2014

Epidemiology and diagnostic testing, Pharmacy, September 2014

Stats Refresher for Boards, Radiology, May 2014

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

Evidence-Based Medicine, Bloom’s Taxonomy, and Abstract Thoughts, UTGSM, February 2014

t-test, ANOVA, regression, Chi-square, and Kaplan-Meier, Family Medicine, February 2014

Parametric and non-parametric statistics, Transitional Year, February 2014

Measurement, Power, Data, IRB, and Practical Significance, Transitional Year, January 2014

FINER, Transitional Year, January 2014

Meta-Analysis and Systematic Reviews, Family Medicine, January 2014

Parametric and non-parametric statistics, Transitional Year, December 2013

Measurement, Power, Data, IRB, and Practical Significance, Transitional Year, December 2013

FINER, Transitional Year, December 2013

Cross-sectional and Ecological Designs, Family Medicine, November 2013

Parametric and non-parametric statistics, OBGYN, November 2013

Measurement, Power, Data, IRB, and Practical Significance, Radiology, November 2013

Case-control and Cohort Studies, Family Medicine, October 2013

Measurement, Power, Data, IRB, and Practical Significance, OBGYN, October 2013

Measurement, Power, Data, IRB, and Practical Significance, Oral and Maxillofacial Surgery, September 2013

Measurement, Power, Data, IRB, and Practical Significance, Pharmacy, September 2013

FINER, Oral and Maxillofacial Surgery, September 2013

Parametric and non-parametric statistics, Pharmacy, September 2013

Parametric and non-parametric statistics, Pathology, August 2013

Developing Research Questions, Anesthesiology, August 2013

Measurement, Statistical Power, Database Management, and the IRB, Pathology, August 2013

Developing Research Questions, Pathology, August 2013

Developing Research Questions, Pharmacy, August 2013

Developing Research Questions, Radiology, August 2013

Introduction to Research, Pharmacy, August 2013

Fellow’s Research Week, UTGSM, August 2013

Developing Research Questions, OBGYN, August 2013

Randomized Control Trials and Historical Controls, Family Medicine, May 2013

Non-parametric statistics, Internal Medicine, February 2013

Odds ratio and relative risk, Family Medicine, February 2013

Statistical Power, Transitional Year, February 2013

The FINER acronym and Writing Valid Research Questions, Transitional Year, February 2013

Non-parametric statistics and 2x2 tables, OBGYN, January 2013

The Operationalization and Validation of Isomorphism in Clinical Supervision, UTGSM, January 2013

Database Management, Transitional Year, January 2013.

In-service Exam Overview, OBGYN, January 2013.

Number Needed to Treat/Harm, Family Medicine, January 2013.

In-service Exam Overview, OBGYN, January 2013.

Parametric and Non-parametric Statistics, Nursing, January 2013.

Surgery Grand Rounds, Surgery, January 2013.

Parametric Statistics, Transitional Year, December 2012.

2x2 Tables and Non-parametric Statistics, UTGSM, December 2012.

Comparing Research Designs and Measurement of Variables, Transitional Year, December 2012.

Multiple Regression, Nursing, November 2012.

Measurement and Power, UTGSM, November 2012.

The FINER acronym for writing research questions, UTGSM, October 2012.

Non-parametric statistics, Pharmacy, July 2012.

Database Management, Preparing for Statistical Consultation, and Power Analysis, Pharmacy, July 2012.

Measurement of Variables, Pharmacy, July 2012.

Developing the Research Question Using the FINER acronym, Pharmacy, July 2012.

Fellow’s Research Week, July 2012.

Research design and measurement of variables, Pharmacy, July 2012.

Developing the research question using the FINER acronym, Pharmacy, July 2012.

Parametric statistics in the nursing literature, Nursing, April 2012

Reading research articles, Nursing, March 2012

Non-parametric statistics, Pathology, February 2012

Preparing for statistical consultation, Internal Medicine, February 2012

Non-parametric statistics, Pharmacy, February 2012

Non-parametric statistics, Internal Medicine, February 2012

Designing a research question using the FINER acronym, Internal Medicine, February 2012

Designing a research question using the FINER acronym, Pathology, January 2012

Reading research articles, Nursing, January 2012

Repeated-measures t-tests and logistic regression in the OB/GYN literature, OBGYN, December, 2011

Measurement of variables, Radiology, November 2011

Power analysis and G\*Power, Radiology, November 2011

A review of what you need to know in research design and statistics, Radiology, October 2011

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

Bolstering the vita: Conference presentations and publications, University of Tennessee, October 2011

Database management, Pharmacy, August 2011

Fellowship Research Week, UTGSM, July 2011

Database management, Oral and Maxillofacial Surgery, March 2011

Database management, UTGSM, March 2011

Database management, Transitional Year, February 2011

Basic statistics, Internal Medicine, January 2011

Power analysis, Family Medicine, September 2010

Research design and statistics, Pharmacy, August 2010

Database management, UTGSM, July, 2010

Statistical reasoning and research design, Radiology, Spring 2010

Research design and statistics, Radiology, November 2009

Research design and statistics, Pharmacy, August 2009

Research design and statistics, UTGSM, May 2009

**VISITING PROFESSORSHIPS AND INVITED LECTURES:**

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

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

**Heidel R. E.** (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 R. E.** (2017). Applied Psychometrics in Simulation: Methods for Increasing Internal and External Validity. Workshop presented at 10th Annual ACS/AEI Consortium Meeting, Chicago, IL.

**Heidel, R. E.** (2017). Construct-aligned Measurement in Simulation: Current and Best Practices. Presentation at the 2017 Tennessee Simulation Alliance Conference, Memphis, TN.

**Heidel, R. E.** (2017). The Opioid Epidemic and Its Effects at UTMC. Presentation at the Sertoma Club, Knoxville Chapter. Knoxville, TN.

**Heidel, R. E.** (2024) Research Questions and PICOT. Presentation at the University of Nevada, Reno. Reno, NV.

**Heidel, R. E.** (2024) Research Questions, Research Designs, Measurement of Variables, Statistical Power, Database Management, Applied Biostatistics. Presentation at the University of Nevada, Reno. Reno, NV.

**COMMITTEES AND OFFICES HELD** (include dates served):

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, University of Tennessee Graduate School of Medicine, June 2012 - Present

4. Statistician, PMERF committee, University of Tennessee Graduate School of Medicine

5. Member, Assistant/Associate Dean search committee, University of Tennessee Graduate School of Medicine

6. Member, Research and Development Committee, American College of Surgeons, Advanced Educational Institute

7. Informatics Subcommittee, University of Tennessee Graduate School of Medicine, July 2016 - Present

8. UT Sim Center Advisory Board, University of Tennessee Graduate School of Medicine

9. IACUC Committee, Biostatistician, University of Tennessee Oct 2016 – Present

10. Statistical Editor, Journal of Cardiac Failure Jan 2019 – Jan 2021

11. Treasurer, American Statistical Association – East Tennessee Chapter, December 2023 - Present

**FELLOWS/GRADUATE STUDENTS TRAINED:**

Patrick Barlow, PhD, August, 2010 – August 2013

Tiffany Smith, PhD, August 2010 – August 2012

Sarah Hamm, August 2015 – August 2016

Sanya Sharma, August 2015 – May 2016

Sarah Adams, Jan 2016 – August 2016

Chelsea Price, August 2021 – Present

Catalana, M. (2013). PhD in Counselor Education. Overseeing supervises treating clients exhibiting suicidal behaviors: Its impact on clinical supervisors. Dissertation Committee Member, University of Tennessee.

Herscher, M. (2013). PhD in Counselor Education. Stigma of the mentally ill among University of Tennessee, Knoxville students. Dissertation Committee Statistical Consultant, University of Tennessee

Hughes, A. (2013). PhD in Counselor Education. Understanding the career development of underprepared college students. Dissertation Committee Statistical Consultant, University of Tennessee.

Banks, B. (2016) PhD in Counselor Education. Suicide response preparedness in counseling students: A study of knowledge, attitudes, and simulated behavior. Dissertation Committee, University of Tennessee.

Butler, R. A. (2016) PhD in Counselor Education. Neighborhood characteristics of food insecurity impacting mental health in East Tennessee communities. Dissertation Committee, University of Tennessee.

Spurgeon, M. (2020) PhD in Nursing. Relationships and characteristics of patients with sepsis in the emergency department and 24-hour mortality. Dissertation Committee, University of Tennessee.

Budesa, Z. (2021) PhD in Counselor Education. Addressing the inconsistencies in counselor skill development and measurement through deliberate practice and assessment tools. Dissertation Committee, University of Tennessee.

Morris, M.H. (2018) PhD in Nursing. Nurse-navigated mobile messaging support and primiparous women’s postpartum symptom experience following unplanned cesarean birth. Dissertation Committee, University of Tennessee.

Thesis Consultant, Trent Stethen, BCMB

Thesis Advisor, Katie Lou Rogers, MABE (Biomedical Engineering)

Senior Engineering Project Team Advisor, Nick Moran, Computer Science

**RESEARCH AND OTHER EXTERNAL SUPPORT:**

1. Cardinal Health Foundation E3 Grant. (2013) Implementation of surgical crisis checklist into the Perioperative Care Team. Funded: $10,935.

2. PIPES, Possibilities in postsecondary education and science for rural Appalachian Youth, Project ID: R25OD020231, 5% effort, 2015-2019.

3. Pre-targeting immunotherapy for light chain (AL) amyloidosis. NIH 5R01DK110038-02. 5% effort, 4/1/17 – 3/31/2020 ($1,038,750 total)

4. Industry-sponsored research contract – Development of Anti-Amyloid Therapeutics.

10% effort, 4/1/2020 – 12/31/20 ($584,947 total).

5. Immunotherapeutic for ATTR/AL Cardiac Amyloidosis. NIH 1R43HL154918-01 (SBIR). 3% effort, 7/5/2020 – 1/5/2021 ($90,717 total)

6. Development of chimeric antigen receptor-expressing macrophages for enhanced phagocytosis of systemic amyloid. NIH 1R21AG065157-01. 5% effort, 9/30/2020 – 5/31/2022, ($385,000)

7. Industry-sponsored research contract – Development of Anti-Amyloid Therapeutics.

10% effort, 1/1/2021 – 12/31/21 ($891,450 total).

8. Development of a Theranostic Immunotherapy for Systemic Amyloidosis. NIH R01DK123001. 5% effort, 2021 – 2025 ($1,351,781 total)

9. Industry-sponsored research contract – Development of Anti-Amyloid Therapeutics.

5% effort, 1/1/2022 –12/31/2022 ($883,387 total).

10. Industry-sponsored research contract – Development of Anti-Amyloid Therapeutics.

5% effort, 1/1/2023 –12/31/2023 ($771,763 total), approved.

**FOOD AND DRUG ADMINISTRATION INVESTIGATIONAL NEW DRUG STUDIES**

IND 132287 - *124I-p5+14 Injection Safety and Efficacy in Subjects with Systemic Amyloidosis – Study AMY-1001*. Sub-investigator (biostatistics). 2019 – present.

IND 163117 - *Repeat PET/CT imaging of patients with systemic amyloidosis using amyloid reactive peptide 124I-AT-01 (124I-p5+14, Iodine-124I-evuzamitide) to measure changes in organ-specific amyloid load*. Sub-investigator (biostatistics). 2022 – present.

IND 164388 – *Single Dose Pilot Study to Characterize the Tissue Biodistribution of 99mTc-labeled p5+14 by SPECT/CT and Planar Scintigraphic Imaging in Patients with Cardiac Amyloidosis and Healthy Volunteers.* Sub-investigator (biostatistics). In preparation.

**PEER-REVIEWED JOURNAL ARTICLES:**

1. 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.

2. 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. **PMID: 25126135**

3. 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. **PMID: 21301594**

4. Ray SM, Wylie DR, Shaun Rowe A, Heidel E, Franks AS. Pharmacy student knowledge retention after completing either a simulated or written patient case. Am J Pharm Educ. 2012 Jun 18;76(5):86. doi: 10.5688/ajpe76586. **PMID: 22761527**; PMCID: PMC3386037.

5. 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. **PMID: 21514601**

6. 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**. PMID: 22000538**

7. 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.

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

9. 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>

10. 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.

11. 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. **PMID: 22834884**

12. 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**

13. 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. **PMID: 22244399**

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. **PMID: 22761527**

15. 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**

16. 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**

17. 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. doi: <http://dx.doi.org/10.1016/j.jalz.2013.05.1298>

18. 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**

19. Mynatt, B., **Heidel, R. E**., & Studer, J. (2013). Bullying: A wellness concern among Appalachian youth. *Journal of Humanistic Counseling, 53*(2), 86-100.

20. Farland, M. Z., Peters, C. J., Williams, J. D. Bielak, K. M., **Heidel, R. E**., & Ray, S. M. (2013). Beta-blocker use and incidence of Chronic Obstructive Pulmonary Diseases exacerbations. *The Annals of Pharmacotherapy, 47,* 5, 651-656. **PMID: 23585645**

21. 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, 2013, 71(8), 1367-1375.**PMID: 23642549**

22. 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**

23. 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**

24. Draper, H., Farland, J., **Heidel, R**., May, L., & Suda, K. Comparisons of bacteria isolated from emergency department patients compared to hospitalized patients. American Journal of Health-System Pharmacy, 2013, 70(23), 2124-2128. **PMID: 24249762**

25. 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, 2013*,* 20(10), 1272-1277. **PMID: 24029059**

26. 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.

27. 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. **PMID: 24446872**

28. 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, 21(2), 147-154. **PMID: 25600504**

29. 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, 73(7), 1420-1428, 56619. **PMID: 25869746**

30. 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, 26(5), 660-669. **PMID: 25801854**

31. 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, 22(5), 668-673. **PMID: 25863793**

32. 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). **PMID: 25801854**

33. 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. **PMID: 25930645**

34. 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**

35. 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, 7(3), 1472-1473. **PMID: 26264027**

36. 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**

37. 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, 49(12), 1317-1321. **PMID: 26416947**

38. **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.

39. **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.

40. Rumberger LK, Vittetoe D, Cathey L, Bennett H, **Heidel RE**, Daley BJ. Improving outcomes in elective colorectal surgery: A single-institution retrospective review. Am Surg. 2016 Apr; 82(4): 325-330. **PMID: 27097625**

41. Madere TC, Mendez JB, Nordmeyer ST, **Heidel RE**, and Hamilton LA. Evaluation of Intravenous Acetaminophen on Length of Stay in Abdominal Surgery Patients. Hospital Pharmacy, 2016, 51(3), 230-236.

42. McLoughlin J, Nodit L, **Heidel RE**, Van Meter S, Macy S, Kestler D. The clinical correlation of phosphatase and tensin homolog on chromosome 10, phosphorylation of AKT to an activated state, and odontogenic ameloblast-associated protein in gastrointestingal stromal tumors. J Surg Res. 2016, 202(2), 403-12. **PMID: 27229116**

43. Jeffcoach DR, Gallegos JJ, Jesty SA, Coan PN, Chen J, **Heidel RE**, Daley BJ. Utility of CPR in hemorrhagic shock, a dog model. J Trauma Acute Care Surg. 2016, 81(1), 27-33. **PMID: 26895089**

44. Martin EB, Williams A, Richey T, Stuckey A, **Heidel, RE**, Kennel SJ, Wall JS. Comparative evaluation of p5+14 with SAP and peptide p5 by dual-energy SPECT imaging of mice with AA amyloidosis. Sci Rep. 2016 Mar 3; 6: 22695. **PMID: 26936002**

45. Orucevic A, **Heidel RE**, Bell JL. Utilization and impact of 21-gene recurrence score assay for breast cancer in clinical practice across the United States: Lessons learned from the 2010 to 2012 National Cancer Data Base analysis. Breast Cancer Res Treat. 2016, 2016, 157(3), 427-435. **PMID: 27206678**

46. **Heidel RE**. Causality in statistical power: Isomorphic properties of measurement, research design, effect size, and sample size. Scientifica. 2016: 8920418. **PMID: 27073717**

47. Schlieve T, **Heidel RE**, Carlson ER. Second primary head and neck cancers after non-head and neck primary cancers. Journal of Maxillofacial Surgery. 2016, 74(12) 2515-2520. **PMID: 27292523**

48. Wall JS, Williams A, Wooliver C, Martin EB, Cheng X, **Heidel RE**, Kennel SJ. Secondary structure propensity and chirality of the amyloidophilic peptide p5 and its analogues impacts ligand binding – In vitro characterization. Biochem Biophys Rep. 2016, 8, 89-99. **PMID: 28345062**

49. Jagadish M, McNally MM, **Heidel RE**, Teffeteller S, Arnold JD, Freeman M, Stevens SL, Grandas OH, Goldman MH. Diabetic foot ulcers: The importance of patient comorbidity recognition and total contact casting in successful wound care. Am Surg. 2016, 82(8), 733-736. **PMID: 27657590**

50. Ramshaw B, Dean J, Forman B, **Heidel E**, Gamenthaler A, Fabian M. Can abdominal wall reconstruction be safely performed without drains? Am Surg. 2016, 82(8), 707-712. **PMID: 27657586**

51. Hamilton LA, Franks A, **Heidel RE**, McDonough SL, Suda KJ. Assessing the value of online learning and social media in pharmacy education. Am J Pharm Educ. 2016 Aug 25, 80(6), 97. **PMID: 27667834**

52. Beierle SP, **Heidel E**, Lewis J, Stewart E, McLoughlin J. A novel technique using intraoperative fluoroscopy as a tool to achieve negative margins for wire-guided partial mastectomies. Am Surg. 2016, 82(9), 236-237. **PMID: 27670531**

53. Ramshaw B, Forman B, **Heidel E**, Dean J, Gamenthaler A, Fabian M. A Clinical Quality Improvement (CQI) project to improve pain after laparoscopic ventral hernia repair. Surg Technol Int. 2016, 29, 125-130. **PMID: 27728945**

54. Saloman, D, **Heidel RE**, Kolokythas, A, Miloro, M, Schlieve T. Does restriction of public health care dental benefits affect the volume, severity, or cost of dental-related hospital visits? J Oral Maxillofac Surg. 2017, 75(3), 467-474. **PMID: 27875708**

55. Ramshaw B, Forman BR, Moore K, **Heidel E**, Dean J, Gamenthaler A, Fabian M. Real-world clinical quality improvement for complex abdominal wall reconstruction. Surg Technol Int. 2017 Jan 13; 20. **PMID: 28085989**

56. Legendre AM, Kuritz T, Galyon G, Baylor VM, **Heidel RE**. Polyprenyl immunostimulant of cats with presumptive non-effusive feline infectious peritonitis in a field study. Front Vet Sci. 2017 Feb 14;4:7. **PMID: 28261584**

57. Orucevic A, Bell JL, McNabb AP, **Heidel RE**. Oncotype DX breast cancer recurrence score can be predicted with a novel nomogram using clinicopathologic data. Breast Cancer Res Treat. 2017, 163(1), 51-61. **PMID: 28243897**

58. Gorman EW, Perkel D, Dennis D, Yates J, **Heidel RE**, Wortham D. Validation of the HAS-BLED tool in atrial fibrillation patients receiving rivaroxaban. J Atr Fibrillation. 2016, 9(2), 16-18. **PMID: 27909541**

59. Bhat S, Orucevic A, Woody C, **Heidel RE**, Bell JL. Evolving trends and influencing factors in Mastectomy decisions. The American Surgeon. 2017; 83: 233-238. **PMID: 28316306**

60. Legendre AM, Kuritz T, **Heidel RE**, Baylor VM. Polyprenyl immunostimulant in Feline Rhiotracheitis: Randomized placebo-controlled experimental and field safety studies. Frong Vt Sci. 2017 Feb 27;4:24. **PMID: 28289684**

61. Martin EB, Williams A, Wooliver C, **Heidel RE**, Adams S, Dunlap J, Ramirez-Alvarado M, Blancas-Mejia LM, Lands RH, Kennel SJ, Wall JS. Differential recruitment efficacy of patient-derived amyloidogenic and myeloma light chain proteins by synthetic fibrils-A metric for predicting amyloid propensity. PLoS One. 2017, 12(3):e0174152. **PMID: 28350808**

62. Ramshaw B, Vetrano V, Jagadish M, Forman B, **Heidel E**, Mancini M. Laparoscopic approach for the treatment of chronic groin pain after inguinal hernia repair: Laparoscopic approach for inguinodynia. Surg Endosc. 2017, 31(12), 5267 – 5274. **PMID: 28593417**

63. Terry PD, Knight M, Bollig R, **Heidel RE**, Miller P, Quinn MA, Daley B, Goldman M. Over-reliance on standardized protocols: A pilot study of surgical residents and fellow. Am Surg. 2017 May 1; 83(5):159-161. **PMID: 28541842**

64. Cavalea AC, **Heidel RE**, Daley BJ, Lawson CM, Benton DA, McLoughlin JM. Pneumatosis intestinalis in patients receiving tube feeds. Am Surg. 2017 Aug 1;83(8):825-831. **PMID: 28822385**

65. Bell C, **Heidel RE**, Sunega J, Drisko J. Ancient wisdom: Can Ayurvedic Prakruti provide invaluable insights into Integrative Medicine? Ayurveda Journal of Health. 2017; 15(3): 27-34.

66. Martin EB, Williams A, Wooliver C, **Heidel RE**, Adams S, Dunlap J, Ramirez-Alvarado M, Blancas-Mejia L, Kennel SJ, Wall JS. Recruitment of human light chain proteins by synthetic fibrils is dependent on disease state and may be used to predict amyloidogenic propensity. Amyloid. 2017, 24, 24-25. **PMID: 28434355**

67. Wall JS, Williams A, Stuckey A, Martin EB, Richey T, Wooliver C, **Heidel RE**, Cheng X, Kennel SJ. Probing the structural requirements of polybasic peptides for effective and specific amyloid reactivity. Amyloid, 2017, 24, 30-31. **PMID: 28434318**

68. Towers C, Trussell J, **Heidel RE**, Chernicky L, Howard BC. Incidence of maternal tachycardia during the second stage of labor: A prospective observational cohort study. J Matern Fetal Neonatal Med, 2019, 32(10), 1615 – 1619. **PMID: 29183176**

69. Grabeel KL, Russomanno J, Oelschlegel S, Tester E, **Heidel RE**. Computerized versus hand-scored health literacy tools: A comparison of Simple Measure of Gobbledygook (SMOG) and Flesch-Kincaid in printed patient education materials. J med Libr Assoc. 2018; 106(1):38-45. **PMID: 29339932**

70. Hutson SP, Darlington CK, Hall JM, **Heidel RE**, Gaskins S. Stigma and spiritual well-being among people living with HIV/AIDS in Southern Appalachia. Issues Ment Health Nurs. 2018 Feb 15: 1-8. **PMID: 29446661.**

71. Leonard K, Oelschlegel S, Tester E, Russomanno J, **Heidel RE**. Assessing the print communication and technology attributes of an academic medical center. Health Lit Res Pract. 2018 Feb;2(1):e26-e34. **PMID: 31294274**

72. Metheny WP, Jagadish M, **Heidel RE**. A 15-year study of trends in authorship by gender in two U.S. Obstetrics and Gynecology journals. Obstet Gynecol. 2018, 131(4), 696-699. **PMID: 29528934.**

73. Martin EB, Williams AD, **Heidel RE**, Foster JS, Lands RH, Kennel SJ, Wall JS. A functional assay to identify amyloidogenic light chains. Amyloid, 2018, 25(2), 93-100. **PMID: 29571269**

74. Oelschlegel S, Grabeel KL, Tester E, **Heidel RE**, Russomanno J. Librarians promoting changes in the health care delivery system through systematic assessment. Med Ref Serv Q. 2018 Apr-Jun;37(2):142-152. **PMID: 29558326**

75. Koszalinski RS, **Heidel RE**, Thomson CJ, Cochran PD, Nance J, Kaye A. An exploration of sensation seeking in persons with disabilities in rehabilitation. Rehabil Nursing, 2019, 44(4), 230-235. **PMID: 29794570**

76. Stethen TW, Ghazi YA, **Heidel RE**, Daley BJ, Barnes L, McLoughlin JM. Factors influencing length of stay after elective bowel resection within an enhanced recovery protocol. Am Surg. 2018 Jul 1; 84(7):1240-1245. **PMID: 30064596**

77. Stethen TW, Ghazi YA, **Heidel RE**, Daley BJ, Barnes L, Patterson D, McLoughlin JM. Walking to recovery: the effects of missed ambulation events on postsurgical recovery after bowel resection. J Gastrointest Oncol 2018;9(5):953-961. doi: 10.21037/jgo.2017.11.05 **PMID: 30505598**

78. Wall JS, Willilams AD, Foster JS, Richey T, Stucky A, Macy S, Wooliver C, Campagna SR, Tague ED, Farmer AT, Lands RH, Martin EB, **Heidel RE**, Kennel SJ. (2018). Bifunctional amyloid-reactive peptide promotes binding of antibody 11-1F4 to diverse amyloid types and enhance therapeutic efficacy. Proc Natl Acad Sci USA. 2018 Oct 30. (Epub ahead of print). **PMID: 30377267**

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261. Fogelson B, Baljepally R, Morvant B, Nowell TC, **Heidel RE**, Ferlita S, Weston S, Amro A, Spires Z, Ferraro K, Patel P. An Increase in Mean Aortic Valve Gradients the Day After Transcatheter Aortic Valve Implantation: The Effects of Evolving Anesthesia Techniques. J Clin Med. 2025 May 8;14(10):3272. doi: 10.3390/jcm14103272. **PMID: 40429268**.

**Conference Presentations:**

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. **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.

3. 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.

4. 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.

5. 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.

6. 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.

7. **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.

8. 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.

9. **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.

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

11. 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.

12. 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.

13. 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.

14. 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.

15. 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.

16. 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.

17. **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.

18. 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.

19. 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.

20. 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.

21. **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.

22. 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.

23. 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.

24. 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.

25. 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.

26. 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.

27. 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.

28. 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.

29. **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.

30. 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.

31. 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.

32. 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.

33. 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.

34. 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.

35. 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.

36. 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.

37. **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.

38. 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.

39. 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.

40. 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.

41. 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.

42. 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.

43. 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.

44. 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.

45. **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.

46. **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.

47. 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.

48. 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.

49. **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.

50. 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.

51. 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.

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

53. 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.

54. 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.

55. 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.

56. 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.

57. 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.

58. 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.

59. 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.

60. 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.

61. 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.

62. 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.

63. 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.

64. 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.

65. 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.

66. 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.

67. 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.

68. 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.

69. 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.

70. 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.

71. 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.

72. 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.

73. 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.

74. 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.

75. 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.

76. 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.

77. 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.

78. 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.

79. 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.

80. **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.

81. 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.

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

83. 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.

84. 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.

85. 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.

86. 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.

87. 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.

88. 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.

89. 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.

90. 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.

91. 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.

92. 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.

93. 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.

94. 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.

95. 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.

96. 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.

97. 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.

98. Brock TC, White WM, Pickens RB, Winter CA, **Heidel RE**. (2016). Accuracy of staging MRI in patients undergoing robotic-assisted laparoscopic prostatectomy. Southeastern Section of American Urological Association, Nashville, TN.

99. Zite NB, Trimble HD, van Nes JB, Roake J, **Heidel E**. (2016). A novel cervical model to teach cervical dilation and effacement. Association of Processors of Gynecology and Obstetrics & Council on Resident Education in Obstetrics and Gynecology Annual Meeting, New Orleans, LA.

100. Bell JL, **Heidel RE**, Orucevic A. (2016). Axillary surgery in patients with ductal carcinoma in-situ (DCIS) - Analysis of the US National Cancer Data Base (NCDB) from 1998-2012. Society of Surgical Oncology's 69th Annual Cancer Symposium, Boston, MA.

101. Beierle S, **Heidel E**, Lewis J, Stewart E, Bell J, Gray K, LaPinska M, Mancini M, Nelson HS, McLoughlin J. (2016). A novel technique using intraoperative fluoroscopy as a tool to achieve negative margins after a wire-guided partial mastectomy. Southeastern Surgical Congress Annual Scientific Meeting, Atlanta, GA.

102. Lamb B, Jeffcoach D, Childress R, **Heidel RE**, Daley BJ. (2016). Acute long bone fractures and the weekend effect. Southeastern Surgical Congress Annual Scientific Meeting, Atlanta, GA.

103. Bhat SG, Woody C, **Heidel E**, Orucevic A, Bell JL. (2016). Evolving trends & influencing factors in mastectomy decisions. Southeastern Surgical Congress Annual Scientific Meeting, Atlanta, GA.

104. Beierle SP, Lewis J, **Heidel RE**, Stewart E, McLoughlin J. (2016). Women in breast surgery - does a shared anatomy equate to a shared interest? Academic Surgical Congress, Jacksonville, FL.

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

106. Orucevic A, **Heidel RE**, Bell JL. (2016). Analysis of the National Cancer Data Base 2010-2012 Oncotype DX breast cancer assay: Lessons learned. San Antonio Breast Cancer Symposium, San Antonio, TX.

107. Orucevic A, **Heidel RE**, Bell JL. (2016). Utilization and impact of Oncotype DX 21- gene breast cancer assay in clinical practice across the US: 2010-2012 National Cancer Data Base analysis. San Antonio Breast Cancer Symposium, San Antonio, TX.

108. Rumberger LK, Kolze C, **Heidel RE**, Himelright I, Spinell J, Findeiss L, Daley B. (2016). Improving the accuracy of CT scanning in the diagnosis of small bowel obstruction: To scan or not to scan…again? American College of Gastroenterology, Honolulu, HI.

109. Ogburn G, Misra N, Rasnake M, Sammons B, Mendez J, **Heidel RE**. (2016). Evaluation of peripheral eosinophilia in patients on Daptomycin. Infectious Disease Society of America: ID Week, San Diego, CA.

110. Sammons B, Cathey L, **Heidel E**, Rasnake M. (2016). Illicit injection drug use as a risk factor for hospital onset central line-associated bloodstream infection. Infectious Disease Society of America: ID Week, San Diego, CA.

111. Orucevic A, Curzon M, McLoughlin J, Geddam C, **Heidel RE**, Desai P, Panella T, Bell J. (2016). Breast cancer in elderly patients (70 years and older): The University of Tennessee Medical Center at Knoxville 10 year experience. World Congress on Breast Cancer, Birmingham, United Kingdom.

112. Rumberger LK, Vittetoe D, Cathey L, Brown H, **Heidel RE**, Daley BJ. (2016). Implementing a colorectal bundle may improve surgical site infection rates. American College of Surgeons National Surgical Quality Improvement Program, Chicago, IL.

113. Abraham MP, **Heidel RE**, Smith LM, Daley BJ, Lawson CM. (2016). Early thromboprophylaxis trends toward non-operative failure in splenic injury. Tennessee Chapter of American College of Surgeons, Memphis Tennessee.

114. Bhat SG, Simpson H, **Heidel RE**, Lewis JM. (2016). Utilization of human regenerative tissue matrix: A promising alternative to full thickness skin grafts in select patients undergoing wide local excision. Tennessee Chapter of American College of Surgeons, Memphis Tennessee.

115. Wall JS, Williams A, Stuckey A, Martin EB, Richey T, Wooliver C, **Heidel RE**, Cheng X, Kennel SJ. (2016). Probing the structure requirements of polybasic peptides for effective and specific amyloid reactivity. The XVth International Symposium on Amyloidosis, Uppsala, Sweden.

116. Martin EB, Williams A, Wooliver C, **Heidel RE**, Adams S, Dunlap J, Ramirez-Alvarado M, Blancas-Mejia L, Kennel SJ, Wall JS. (2016). Recruitment of human light chain proteins by synthetic fibrils is dependent on disease state and may be used to predict amyloidogenic propensity. The XVth International Symposium on Amyloidosis, Uppsala, Sweden.

117. Gordon VHL, Dudney T, Dhand R, Shamiyeh J, **Heidel RE**. (2016). Total sleep time strongly correlates with self-reported hospital admissions: An inpatient COPD cohort survery. Presentation at Sleep, Denver, Colorado.

118. Bhat SG, Simpson H, **Heidel RE**, Lewis JM. (2016). Utilization of human regenerative tissue matrix: A promising alternative to full thickness skin grafts in select patietns undergoing wide local excision. Presentation at Tennessee Chapter of American College of Surgeons, Memphis, TN.

119. Beierle S, Tonks S, Lawson C, McMillen J, **Heidel R**, Pomy B, Woodman B, Daley B. (2016). The use of single dose Cefazolin for tube thoracostomy placement reduces culture proven pneumonia. Presentation at the American Association for the Surgery of Trauman, Waikoloa, Hawaii.

120. Bhat S, **Heidel R**, Bell J, Orucevic A. (2016). Influencing factors and evolving trends for contralateral prophylactic mastectomy in breast cancer patients. Presentation at 2nd World Congress on Breast Cancer, Phoenix, AZ.

121. McNeil M, **Heidel R**, Bell JL, Orucevic A. (2016). Factors influencing decisions of breast cancer patients to follow-up on recommendations for genetic counseling – The University of Tennessee Medical Center experience. Presentation at 2nd World Congress on Breast Cancer, Phoenix, AZ.

122. **Heidel, RE**. (2016). Valid statistical approaches for data-drive analysis in breast cancer: Research avenues under the Patient Protection and Affordable Care Act (PPACA). Presentation at 2nd World Congress on Breast Cancer, Phoenix, AZ.

123. Stethen TW, Ghazi Y, **Heidel RE**, Daley B, Barnes L, McLoughlin JM. (2017). Walking to recovery: The effects of missed ambulation on postsurgical recovery. Presentation at the American College of Surgeons Clinical Congress, Washing DC.

124. McLain JM, Daley BJ, **Heidel E**. (2017). The effect of Team STEPPS implementation on trauma ICU rounds. Trauma Quality Improvement Program Annual Scientific Meeting, Orlando, FL.

125. Isang EI, Dewald JB, Rasnake MS, **Heidel RE**. (2017). Evaluation of inpatient thrombophilia pathway. 58th American Society of Hematology Annual Meeting and Exposition, San Diego, CA.

126. Martin EB, Williams A, **Heidel RE**, Adams S, Lands R, Hanna W, Kennel SJ, Wall JS. (2017). A method to predict the amyloidogenic propensity of light chain proteins by measuring binding to synthetic amyloid fibrils. 58th American Society of Hematology Annual Meeting and Exposition, San Diego, CA.

127. Beierle SP, McLoughlin J, **Heidel RE**, Casillas M, Russ AJ. (2017). Colorectal cancer outcome disparities increase with distance from treating facility. Academic Surgical Congress, Las Vegas, NV.

128. Cavalea A, Benton D, **Heidel E**, Daley B, Lawson C, McLoughlin J. (2017). Pneumatosis intestinalis in patients receiving tube feeds. Southeastern Surgical Congress, Nashville, TN.

129. Schwirian K, Connor RS, Kimball KJ, **Heidel RE**, Adams SK, Lenger SM, Kilgore LC. (2017). Liposomal bupivacaine and pre-operative acetaminophen: Useful in minimally invasive surgery too? Society of Gynecologic Oncology 48th Annual Meeting on Women’s Cancer, National Harbor, MD.

130. Bhat SG, Simpson H, **Heidel RE**, Lewis JM. (2017). Utilization of human regenerative tissue matrix: A promising alternative to full thickness skin grafts in select patients undergoing wide local excision. HemOnc Today Melanoma and Cutaneous Malignancies, New York, NY.

131. Patel V, Pasciak A, Burgeois AC, Bradley YC, **Heidel RE**, Clark CT, Nodit L. (2017). Mapping analysis of ghrelin expression and spherules distribution in a porcine model post bariatric radioembolization. College of American Pathologists, The Pathologists Meeting, National Harbor, MD.

132. Gregory E, Metheny W, **Heidel RE**, Zite N. Women are underrepresented in national leadership positions in the specialty of obstetrics and gynecology. Central Association of Obstetricians and Gynecologists 84th Annual Meeting, Scottsdale, AZ.

133. Russomanno, J., Leonard, K., Oelschlegel, S., Pollard, E., **Heidel, R.E**. (2017). Computerized vs. Hand-Scored Health Literacy Tools: A Comparison of SMOG and Flesch-Kincaid in Printed Patient Education Materials in Appalachia. Oral presentation at the American Public Health Association, Atlanta, GA.

134. Oelschlegel S, Leonard K, Pollard E, Russomanno J, **Heidel RE**. (2017). The role of the library in promoting changes in the health care delivery system through systematic assessment. Oral presentation at the Southern Chapter of the Medical Library Association, Knoxville, TN.

135. Beierle S, Russ A, **Heidel RE**, Kirkpatrick B, McCallum S, Lewis J. (2017). A correlation between emotional intelligence and burnout in surgical residents. Tennessee American College of Surgeons Annual Meeting, Nashville, TN.

136. Patel V, Pasciak A, Burgeois AC, Bradley YC, **Heidel RE**, Clark CT, Nodit L. (2017). Mapping analysis of ghrelin expression and spherules distribution in a porcine model post bariatric radioembolization. College of American Pathologists, The Pathologists Meeting, National Harbor, MD.

137. Gregory E, Metheny W, **Heidel RE**, Zite N. (2017). Women are underrepresented in national leadership positions in the specialty of obstetrics and gynecology. Central Association of Obstetricians and Gynecologists 84th Annual Meeting, Scottsdale, AZ.

138. Koszalinski R, Hutson S, Li X, **Heidel E**, Palmer T. (2017). Providing patient-centered care through technology: Pain, preferences, languages, and advanced care planning. Poster presentation at 2018 American Nurses Assocaition Quality and Innovation Conference, Orlando , FL.

139. Orucevic, A, **Heidel RE**, Bell JL. (2017). Outcomes of patients with invasive breast cancer (IBC) refusing standard cancer treatments: 10-year analysis of the National Cancer Database (NCDB). Presentation at the San Antonio Breast Cancer Symposium, San Antonio, TX.

140. Rose CE, **Heidel RE**, Bell JL, Orucevic A. (2017). Primary neuroendocrine carcinoma of the breast – Lessons learned from a ten year analysis of the National Cancer Database (NCDB). Presentation at the San Antonio Breast Cancer Symposium, San Antonio, TX.

141. Trimble H, van Nes J, Roark J, **Heidel RE**, Reeder C, Klar M, Zite N. (2017). A novel method to teach cervical dilation and effacement. Poster presentation at the Tennessee Simulation Alliance Annual Conference, Memphis, TN.

142. **Heidel RE**, Klar MM, Roark JJ, Moulder JJ, Mancini GG. (2018). The educational value of the da Vinci Skills Simulator at a Regional Medical Center. Poster presentation at the 2018 ACS/AEI Surgical Simulation Summit, Chicago, IL.

143. Monaco A, Lenger S, Upadhyaya N, **Heidel E**, Kilgore L. (2018). Measuring change in student performance on laparoscopic anatomy quiz at beginning and end of obstetrics and gynecology rotation. Presentation at the Council on Redisent Education in OGBYN and Association of Professor of OBGYN Annual Meeting, National Harbor, MD.

144. Sorenson M, GrayJK, Broussard A, **Heidel RE**, Lavelle R. (2018). Atypeical urethritis: Should we be testing female patients for this? Presentation at the 82nd Aunual Meeting of the Southeastern Section of the American Urological Association, Orlando, FL.

145. Beierle S, Russ A, **Heidel RE**, McCallum S, Kirkpatrick MS, Lewis J. (2018). A longitudinal study of correlations between emotional intelligence and resident burnout. Presentation at the Association of Program Directors in Surgery, Association of Resident Administrators in Surgery, Association of Surgical Education, Austin, TN.

146. Reynolds BH, Martin E, Williams A, Akpa B, Ferris J, **Heidel E**, Baveja S, Dhand R. (2018). Do plasma levels of biomarkers reflect muscle injury in patients admitted to the floors in acute care hospitals? Presentation at the American Thoracic Society International Conference, San Diego, CA.

147. Baveja S, Akpa B, Ferris J, Amin S, McCormack M, **Heidel E**, Dhand R. (2018). A randomized, double dummy, crossover study comparing the bronchodilator effect of formoterol administered by nebulizer versus dry powder inhaler in patients recovering from sever exacerbations of chronic obstructive pulmonary disease. Presentation at the American Thoracic Society International Conference, San Diego, CA.

148. Akpa B, Swati B, Ferris J, Hecht J, **Heidel E**, & Dhand R. (2018). Incidence and clinical feature of muscle weakness in patients admitted to a tertiary medical center. Presentation at the American Thoracic Society International Conference, San Diego, CA.

149. Akpa B, Swati B, Ferris J, Singh A, Hecht J, **Heidel E**, Dhand R. (2018). Outcomes in patients who develop muscle weakness during an acute hospital stay. Presentation at the American Thoracic Society International Conference, San Diego, CA.

150. Orucevic A, **Heidel R**, Bell JL. (2018). Using the National Cancer Database (NCDB) and Oncotype DX data to predict adjuvant therapy effects on overall survival (OS) of N0 and N1 breast cancer patients. Presentation at the American Society of Clinical Oncology Annual Meeting, Chicago, IL.

151. Lorson W, Das A, **Heidel R**, Shorman M. (2018). Microbial epidemiology of infectious endocarditis in the intravenous drug abuse population: A retrospective study in East Tennessee. Presentation at IDWeek, San Francisco, CA.

152. Frisbee J, Rasnake M, **Heidel R**. (2018). Adverse outcome associated with potentially inappropriate antibiotic use in heart failure admissions. Presentation at IDWeek, San Francisco, CA.

153. Jackson L, Bieber J, **Heidel RE**. (2018) Effect of statins on CRP elevation in patients with psoriatic arthritis. Presentation at ACR/ARHP Annual Meeting, Chicago IL.

154. Richardson EA, Towers CV, Weitz B, Nieuwoudt C, **Heidel RE**, Wolfe L. (2018). Protein S functional activity and total protein S levels in normal pregnancy. Presentation at Central Association of Obstetricians and Gynecologists, Minneapolis, MN.

155. Cochrane K, **Heidel RE**, Bell JL, Orucevic A. (2018). Adenosquamous carcinoma of the breast, an uncommon diagnosis with poor prognosis – lessons learned from analysis of the National Cancer Database 2004-2015. Presentation at the San Antonio Breast Cancer Symposium, San Antonio, TX.

156. Lorson W, Das A, **Heidel R**, Shorman M. (2018). Factors that increase the likelihood of inpatient mortality in the endocarditis patient: A retrospective study. Presentation at the American College of Physicians Tennessee Chapter Annual Scientific Meeting, Chattanooga, TN.

157. Vanterpool SG, **Heidel RE**, Rejoub LR. (2018). Efficacy and reliability of alternative approach to greater and lesser occipital nerve blockade – Quality improvement pilot study results. Presentation at the 17th Annual Pain Medicine Meeting, San Antonio, TX.

158. Boulos M, Turner J, **Heidel RE,** Rogers B, Findeiss L, Gaines T. (2018). Acute submassive hemodynamically stable pulmonary embolism triage and outcomes. Presentation at the 48th Critical Care Congress, San Diego, CA.

159. Spires BP, Upadhyaya NB, **Heidel RE**, Howard B (2018). Enhancing breastfeeding in rural Tennessee through education. The Council on Resident Education in Obstetrics and Gynecology and Association of Professors of Gynecology and Obstetrics Annual Meeting, New Orleans, LA.

160. Jackson L, Bieber J, **Heidel RE**. (2018). Effect of statins on CRP elevation in patients with Psoriatic Arthritis. Presentation at the 2018 ACR/ARHP Annual Meeting, Chicago, IL.

161. Van nes J, Atchley K, **Heidel RE**, Chuang A, Lewis J, Zite NB. (2018). Characteristics of physicians obtaining an MBA. Presentation at the American College of Obstetrics and Gynecology District V & District VII Annual Meeting, Kansas City, MO.

162. Shealy J, Cross N, **Heidel E**, Goodin J, Smith L. (2019). Can the trauma registry be a fail safe for notifying patients with incidental findings? Presentation at the Eastern Association for the Surgery of Trauma 32nd Annual Scientific Assemble, Austin, TX.

163. King S, Bhat S, Whittington E, McLain J, **Heidel E**, Smith L, Bollig R, Enderson B. (2019). Superficial venous thrombosis in trauma patients: A treatable marker of hypercoagulable state. Presentation at the 48th Annual Critical Care Congress of the Society of Critical Care Medicine, San Diego, CA.

164. Monaco A, Lacy M, **Heidel R**, Zite NB. (2019). Initiating and monitoring a postpartum contraceptive program. Presentation at the Tennessee Initiative for Perinatal Quality Care, Franklin, TN.

165. Akpa B, Baveja S, Ferris J, Hecht J, **Heidel E**, Dhand R. (2019). Relation of subjective assessment of Perceived Activity & Weakness Score (PAWS) to health outcomes up to 90 days after hospital admission for a medical illness. Presentation at the American Thoracic Society International Conference, Dallas, TX.

166. Lewis RE, Ward A, **Heidel RE**, McLoughlin JM, Lewis JM. Human Acellular Dermal Matrix is a Viable Alternative to Autologous Skin Graft in Patient with Cutaneous Malignancy. (2019). Presentation at the Southeastern Surgical Congress 2019 Annual Meeting, Charlotte, NC.

167. Lewis RE, Ward A, Lewis JM, **Heidel RE**, McLoughlin JM. (2019). Optimal Pain Control for Outpatient Surgery for Cutaneous Malignancies. Presentation at the Southeastern Surgical Congress 2019 Annual Meeting. Charlotte, NC.

168. Landry M, Lewis RE, **Heidel RE**, Forman B, Ramshaw BJ. (2019). Does Loss of Domain Impact Outcomes for Abdominal Wall Reconstruction Procedures? Presentation at the Americas Hernia Society Annual Meeting. Las Vegas, NV.

169. Lew M, Lewis RE, **Heidel RE**, Forman B, Ramshaw BJ. Results and Challenges of Long-Term Follow-up with Laparoscopic Ventral Hernia Repair. Americas Hernia Society Annual Meeting. Las Vegas, Nevada, March 2019.

170. Landry M, Lewis RE, **Heidel RE**, Forman B, Ramshaw BJ. (2019). Treating Inguinodynia after Laparoscopic or Open Inguinal Hernia Repair. Presentation at the SAGES 2019 Annual Meeting. Baltimore, MD.

171. Datta J, Lewis RE,**Heidel RE**, Forman B, Ramshaw BJ. (2019). The Impact of Loss of Domain and Nerve Blocks on Outcomes following Abdominal Wall Reconstruction. Presentation at the Southeastern Surgical Congress 2019 Annual Meeting. Charlotte, NC.

172. Kennedy T, Lewis RE, **Heidel RE**, Forman B, Ramshaw BJ. (2019). CQI Chronic Pain Improvement for Blocks and Triple Neurectomy. Presentation at the Southeastern Surgical Congress 2019 Annual Meeting. Charlotte, NC.

173. Lewis RE, **Heidel RE**, Forman B, Ramshaw BJ. (2019). How Does Contamination Impact Outcomes in Abdominal Wall Reconstruction? Presentation at the Americas Hernia Society Annual Meeting. Las Vegas, NV.

174. Lew M, Lewis RE, **Heidel RE**, Forman B, Ramshaw BJ. (2019). Long Acting Local Anesthetic Nerve Blocks in Laparoscopic Ventral Hernia Repair. SAGES 2019 Annual Meeting. Baltimore, MD.

175. Lewis RE, Lee S, **Heidel RE**, Forman B, Ramshaw BJ. (2019). Comparison of Perioperative Outcomes Between Low Pressure and Standard Pressure Insufflation Systems During Laparoscopic Ventral Hernia Repair. Presentation at the SAGES 2019 Annual Meeting. Baltimore, MD.

176. Baveja S, Akpa B, Ferris J, Hecht J, **Heidel E**, Dhand R. (2019). Recovery of muscle strength and endurance after hospitalization in patients with medical illness. Presentation at the American Thoracic Society, Dallas, TX.

177. Akpa B, Baveja S, Ferris J, Hecht J, **Heidel E**, Dhand R. (2019). Relation of subjective assessment of Perceived Activity & Weakness Score (PAWS) to health outcomes up to 90 days after hospital admission for a medical illness. Presentation at the American Thoracic Society, Dallas, TX.

178. Baveja S, Akpa B, Ferris J, Hecht J, **Heidel E**, Dhand R. (2019). Subjective assessment of perceived activity and weakness score (PAWS) correlates with objective assessments of muscle strength and endurance in patients admitted to a hospital with medical illness. Presentation at the American Thoracic Society, Dallas, TX.

179. Baveja S, Akpa B, Ferris J, Hecht J, **Heidel E**, Dhand R. (2019). Lymph nodes in lung cancer patients with granulomatous disease: To be or not to be metastasis. Presentation at the American Thoracic Society International Conference, Dallas, TX.

180. Livesay JE, Lorson WC, **Heidel RE**, Shorman M. (2019). Do I really need a transesophageal echo? Comparing echocardiographic modalities in native valve infective endocarditis due to the methicillin-resistant staphylococcus aureus. Presentation at ID Week, Washington, DC.

181. Maples JM, Riedinger CJ, **Heidel RE**, Zite NB, Tinius RA. (2019). Metabolic flexibility is a predictor of adherence to National Academy of medicine guidelines for gestational weight gain. Presentation at the American College of Obstetrics and Gynecology Districts IV, VII & XI Annual Meeting, New Orleans, LA.

182. Winstead ML, Ledderhof NJ, **Heidel RE**, Johnston DT, Fahmy MD, Carlson ER (2019). Are tracheotomies required for patients undergoing composite resections for oral cancer? Presentation at the American Association of Oral and Maxillofacial Surgeons, Boston, MA.

183. Livesay JE, Lorson WC, **Heidel E**, Shorman M. Do I really need a tranesophageal echo? Comparing echocardiographic modalities in native valve infective endocarditis due to methicillin-resistant staphylococcus aureus. Presentation at IDWeek, Washington, DC.

184. Bell C, **Heidel R**, Sunega J, Drisko J. (2019) Can ayurvedic prakruti provide invaluable insights into integrative medicine? Presentation at the Society of Integrative Oncology International Conference, New York City, NY.

185. Roberson PNE, Miller M, Lloyd J, Bell C, **Heidel RE**, Bell J. (2019). Economic disparities in Appalachia linked to risk factors for long-term health for estrogen positive breast cancer patients. Presentation at the Society of Integrative Oncology International Conference, New York City, NY.

186. Sappington B, Bollig R, **Heidel RE**, Rowe AS, Daley BJ. (2020). Harbingers of impending splenic embolization failure. Presentation at the Academic Surgical Congress, Orlando, FL.

187. Landry M, Lewis R, Antill AC, **Heidel RE**, Taylor JE, Casillas MA, Daley BJ, McLoughlin (2020). Effect of enhanced recovery after surgery protocol implementation on cost and outcomes by type of colectomy performed. Presentation at the Southeastern Surgical Congress, New Orleans, LA.

188. Funkhouser A, Hennessy K, Hicks A, **Heidel E**, McLoughlin JM, Lewis J. (2020). Acral lentiginous melanoma in south-central Appalachia. Presentation at the Southeastern Surgical Congress, New Orleans, LA.

189. Riedinger C, Kimball K, Kilgore L, Bell C, **Heidel RE**, Boone J. (2020). Water only fasting and its effect on chemotherapy administration in gynecologic malignancies. Presentation at the Society of Gynecologic Oncology Annual meeting on Women’s Cancer, Toronto, Canada.

190. Herrera ELW, **Heidel RE**, Kemmet K. (2020). Change in alcohol related injuries after introduction of alcohol sales in SEC stadiums. Presentation at the American Medical Society for Sports Medicine Annual Meeting, Atlanta, GA.

191. Baveja S, Akpa B, Ferris J, Hecht J, **Heidel RE**, Zeng R, Dhand R. (2020). Correlation of ultrasound measurement of muscle thickness, muscle weakness, and functional limitation in patients admitted for medical illness. Presentation at the American Thoracic Society, Philadelphia, PA.

192. Norton D, Oakley T, Peacock J, **Heidel RE**, Gray RI, Norwood DM. (2020). Code Stroke in the stroke belt: A cross-sectional stroke center. Presentation at the American Society of Emergency Radiology Virtual Meeting, Austin, TX.

193. Riedinger C, Riley W, Scheiderer A, **Heidel E**, Orucevic A, Boone J, Kilgore LC, Kimball K. (2020). Rading between the lines: The interpretation of IHC staining for MMR proteins and its effect on clinical decision making in endometrial cancer. Presentation at the Society of Gynecologic Oncology Annual Meeting on Women’s Cancer, Toronto, Canada.

194. Salomon B, Howk A, **Heidel R**, McKnight C. Impact of COVID-19 on trauma surgical education at a Level 1 trauma center. Presented at Association For Surgical Education Annual Meeting; 2021 Apr 29 - May 1; Virtual.

195. McCarley CB, Brewton AE, Lacy MM, Fortner KB, **Heidel RE**, Zite NB. Impact of SARS-CoV-2 on rates of late or limited prenatal care. Presented at American College of Obstetricians and Gynecologists Annual Clinical and Scientific Meeting; 2021 Apr 30 - May 2; Virtual.

196. Maples JM, Spires B, **Heidel R**, Fortner K. A comparison of vaccine education among Ob/Gyn residency programs in the US between 2014 and 2020. Presented at Council on Resident Education in Obstetrics and Gynecology and Association of Professors of Gynecology Annual Meeting; 2021 Mar 3-5; Virtual.

197. Norton D, Oakley T, Peacock J, **Heidel E**, Gray R, Norwood D. Code stroke in the stroke belt: A cross-sectional stroke center. Presented at American Society of Emergency Radiology Meeting (Virtual); 2020 Sep 30 - Oct 3; Austin, TX.

198. Wall J, **Heidel RE**, Martin EB, Stuckey AC, Whittle BA, Powell D, Lands R, Kennel SJ.Detection and differentiation of cardiac amyloidosis using [124]I-P5+14 PET/CT imaging and the correlation with clinical biomarkers. Presented at American College of Cardiology; 2021 May 15-17; Atlanta, GA.

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