UAB Physician Assistant Program
Research Symposium
Friday, November 14, 2014
1:00 – 3:00 p.m.
UAB Physician Assistant Program
Class of 2014 Research Symposium

UAB North Pavilion Atrium 1:00-3:00

1:00 - 2:00: Even Numbered Posters
2:00 - 3:00: Odd Numbered Posters

UAB PA Program Faculty

James R. Kilgore, PhD, PA-C…………. Program Director
Donald Reiff, MD…………………………. Medical Director
John Baddley, MD, MPH………………. Associate Medical Director
Kara L. Caruthers, MSPAS, PA-C ….. Assistant Professor
William R. Drace, MA, PA-C……….. Assistant Professor & Director of Admissions
Chad Epps, MD…………………………. Associate Professor & Director of Simulation
Paul Harrelson, MPAS, PA-C……….. Associate Program Director & Clinical Coordinator
John Hurt, MSPAS, PA-C…………… Assistant Professor
Kristopher Maday, MS, PA-C, CNSC Assistant Professor & Academic Coordinator
Stephanie McGilvray, MMMc, PA-C Assistant Professor & Clinical Coordinator
Kelley Swatzell, DrPH, MPH.......... Assistant Professor & Director of Outcomes Research
UAB PA Students Master’s Research Posters Presentations

Kristen D. Bartley, PA-S, CSFA
Lubbock, TX
Is There an Association Between Ascorbic Acid Ingestion and a Decrease in Influenza Viral Replication?
Advisor: John Hurt, MSPAS, PA-C
Poster # PA042

Emily K. Bent, PA-S
Atlanta, GA
Is There an Association Between Breast Fed Infants Versus Formula Fed Infants and Childhood Obesity?
Advisor: Kelley Swatzell, DrPH, MPH
Poster # PA005

Casey Bolton, PA-S
Maysville, GA
Is There an Association Between Patient Satisfaction When Comparing Endotine Tissue Fixation Verses Suture Fixation in Brow Lift Patients?
Advisor: John Hurt, MSPAS, PA-C
Poster # PA023

Robert D. Bowen, PA-S
West Point, MS
Is There a Difference in Clinical Outcomes of Patients Who Use Functional Bracing After ACL Reconstruction Versus Patients Who Do Not?
Advisor: Stephanie McGilvray, MMS, PA-C
Poster # PA011
Julie Boyd, PA-S  
Enterprise, AL  
Is There a Difference in Clinical Outcomes When Comparing Operative Versus Non-Operative Treatment of Achilles Tendon Ruptures?  
Advisor: Stephanie McGilvray, MMSc, PA-C  
Poster # PA009

Emily K. Chance, PA-S  
Lafayette, LA  
Is There a Difference in the Morbidity and Mortality of Asymptomatic Carotid Artery Stenosis When Comparing Medical and Surgical Treatment Options?  
Advisor: John Hurt, MSPAS, PA-C  
Poster # PA010

James Michael Cilimberg, PA-S  
Franklin, TN  
Is There a Difference in Long Term Patency, Morbidity and Mortality When Comparing Endoscopic vs Open Vein Harvesting Techniques During Coronary Artery Bypass Grafting?  
Advisor: John Hurt, MSPAS, PA-C  
Poster # PA025

Clinton A. Cochran, PA-S, MPH  
Helena, AL  
Is There an Association Between Pregnant Women Diagnosed With Type I Diabetes Mellitus and an Increase in Likelihood of Cesarean Section?  
Advisor: James R. Kilgore, PhD, PA-C  
Poster # PA012
Matthew Lee Collins, PA-S
Clay, AL
Is There a Relationship Between Cardiac Function and Higher Altitudes in Patients With Known Coronary Artery Disease
Advisor: Paul Harrelson, MPAS, PA-C
Poster # PA043

Mary Caruso Colvard, PA-S, RD
Huntsville, AL
Is There a Difference in Clinical Outcomes When Comparing the Use of Enteral Formulations Supplemented with EPA, GLA, and Antioxidants Versus a Control Formula in Mechanically Ventilated Patients with ARDS or Sepsis?
Advisor: Kristopher Maday, MS, PA-C, CNSC
Poster # PA031

Elisa Cruz, PA-S, CST
Birmingham, AL
Is There an Association Between Malarial Infection and HIV Transmission and Progression?
Advisor: Chad Epps, MD
Poster # PA004

William Simpson Davis Jr., PA-S
Birmingham, AL
Is There an Association Between Maternal Periconceptional Smoking and Congenital Heart Defects
Advisor: William R. Drace, MA, PA-C
Poster # PA002
Jacob Dobbs, PA-S
Huntsville, AL
Is Exercise Therapy More Effective Than Antidepressants in Patients Diagnosed With Major Depressive Disorder?
Advisor: Paul Harrelson, MPAS, PA-C
Poster # PA003

Claire A. Dodson, PA-S
Manhattan Beach, CA
Is There a Difference in a Patient's Quality of Life When Comparing Arthroscopic Repair of the Rotator Cuff Versus Mini-Open Rotator Cuff Repair
Advisor: Chad Epps, MD
Poster # PA007

Emily Elizabeth Dugger, PA-S
Birmingham, AL
Is There a Difference in Survival Rates Between HPV Positive Oropharyngeal Cancer and HPV Negative Oropharyngeal Cancer?
Advisor: Chad Epps, MD
Poster # PA026

Amelia K. Edmonds, PA-S
Atlanta, GA
Is There a Difference In The Incidence of Herpes Zoster Outbreaks Since the Initiation of Universal Varicella Vaccination
Advisor: John Baddley, MD, MPH
Poster # PA022
Meghan Lynch Foster, PA-S  
Huntsville, AL  
Omega-3 Fatty Acid Supplementation and the Reduction of Inflammatory Symptoms in Patients with Rheumatoid Arthritis  
Advisor: Kristopher Maday, MS, PA-C, CNSC  
Poster # PA027

David Thomas Gilmore, PA-S  
Trussville, AL  
Allograft vs. Autograft: A Comparison of Post-Operative Infection and Non-Union Rates in Spinal Surgery  
Advisor: Chad Epps, MD  
Poster # PA013

Lindsay M. Hale, PA-S  
Bogart, GA  
Difference in the Rate of Hip Dislocation When Comparing Anterior and Posterior Approaches to the Total Hip Replacement  
Advisor: Stephanie McGilvray, MMSc, PA-C  
Poster # PA017

Heather G. Hallman, PA-S  
Trussville, AL  
Is There a Correlation Between Advanced Paternal Age and an Increased Risk for Autism?  
Advisor: Chad Epps, MD  
Poster # PA035
Erin Hartsfield, PA-S  
Dothan, AL  
Difference in Cost, Recovery Times, Post-Operative and/or Peri-Operative Complications When Comparing Robotic Assisted Versus Laparoscopic Hysterectomies  
Advisor: John Hurt, MSPAS, PA-C  
Poster # PA047

Elizabeth Anne Hazlehurst, PA-S  
Forsyth, IL  
Do Tissue-Engineered Blood Vessel Grafts Have Lower Graft-Failure Rates Than Saphenous Vein Grafts in Coronary Artery Bypass Grafting Surgery?  
Advisor: William R. Drace, MA, PA-C  
Poster # PA034

Katrina Head, PA-S  
Nicholson, GA  
Is There an Association Between Exclusive Breastfeeding and Necrotizing Enterocolitis in Premature Infants?  
Advisor: Kelley Swatzell, DrPH, MPH  
Poster # PA046

Anna E. Henderson, PA-S  
Andalusia, AL  
Diabetic Diet Versus Paleolithic Diet: Longitudinal Effects on Cardiovascular Risk Factors in Patients With Type 2 Diabetes Mellitus  
Advisor: James R. Kilgore, PhD, PA-C  
Poster # PA014
Bradley Allan Hill, PA-S,R.T. (R)
Alabaster, AL
Is There a Difference in Outcomes When Comparing Cemented vs. Uncemented Total Knee Arthroplasty?
Advisor: Stephanie McGilvray, MMSc, PA-C
Poster # PA015

Candice M. Hudson, PA-S,RRT
West Blocton, AL
Is There a Difference in 5 Year Mortality Rates Between CABG Versus PCI for CAD?
Advisor: William R. Drace, MA, PA-C
Poster # PA032

Kaitlin Kelly, PA-S
Atlanta, GA
Is the Composition and Diversity of Gastrointestinal Flora Associated With Obesity?
Advisor: John Hurt, MSPAS, PA-C
Poster # PA033

Crystal Mae Labbe-Hasty, PA-S
Columbus, GA
Is There any Association Between Learning Disabilities and Early Exposure to General Anesthetics?
Advisor: John Hurt, MSPAS, PA-C
Poster # PA045
Caitlin Lee, PA-S  
Nevada City, CA  
The Durability of Conventional Versus Eversion Carotid Endarterectomy  
Advisor: William R. Drace, MA, PA-C  
Poster # PA019

Lindsay Lewis, PA-S, RD  
Alpharetta, GA  
Is There a Relationship Between Calcium Supplementation and Cardiovascular Disease?  
Advisor: William R. Drace, MA, PA-C  
Poster # PA028

Joshua James Leek, PA-S  
Bon Aqua, TN  
“Does Consumption of Aspartame Lead to an Increased Incidence of Cancer?”  
Advisor: Kristopher Maday, MS, PA-C, CNSC  
Poster # PA036

Mallory Morgan Ludwig, PA-S  
Baton Rouge, LA  
Is Graft Choice, Arterial or Venous, a Predictor of Long-Term Survival in CABG Surgery Patients?  
Advisor: William R. Drace, MA, PA-C  
Poster # PA048

Jessica Marshman, PA-S  
Birmingham, AL  
Schizophrenia and the NRG1-ErbB4 Gene Pathway  
Advisor: Chad Epps, MD  
Poster # PA016
Sarah W. Martin, PA-S  
Birmingham, AL  
Is There an Association Between Assisted Equine Therapy (Hippotherapy) and Gross Motor Function Improvement In Children With Cerebral Palsy?  
Advisor: Chad Epps, MD  
Poster # PA054

Faith Mason, PA-S  
Mobile, AL  
Does Open Vein-Harvesting Cause More Morbidity Than Endoscopic Vein-Harvesting?  
Advisor: William R. Drace, MA, PA-C  
Poster # PA044

Amy D. McCormick, PA-S  
Nashville, TN  
Is There a Difference in the Incidence of Surgical Site Infections When Prophylactic Antibiotics are Administered Locally Versus Systematically?  
Advisor: John Baddley, MD, MPH  
Poster # PA024

James Clyde McNeely Jr., PA-S  
Alabaster, AL  
A Comparison of Efficacy between Gefitinib and Erlotinib in Advanced Non-Small Cell Lung Cancer  
Advisor: James R. Kilgore, PhD, PA-C  
Poster # PA029
Natalie K. McQueen, PA-S  
Fisherville, Ontario, Canada  
Is There an Association Between Increased Adverse Outcomes and Cesarean Sections on Maternal Request When Compared to Vaginal Births?  
Advisor: Paul Harrelson, MPAS, PA-C  
Poster # PA038

Ashley Phillips, PA-S  
Campbellsville, KY  
Is there a Difference in the Clinical Outcome of Spinal Fusion Versus Total Disc Replacement in the Treatment of Lumbar Degenerative Disc Disease?  
Advisor: Paul Harrelson, MPAS, PA-C  
Poster # PA050

Julie Ann Potomski, PA-S, BSN  
Gulf Breeze, FL  
Is There an Association Between Traumatic Brain Injuries and Amyotrophic Lateral Sclerosis?  
Advisor: Paul Harrelson, MPAS, PA-C  
Poster # PA020

Angelica Maria Ramos, PA-S  
Delray Beach, FL  
Is There an Association Between Nutritional Management of Surgical Patients Prior to Surgery and Enhanced Recovery After Surgery?  
Advisor: Kara L. Caruthers, MSPAS, PA-C  
Poster # PA021
Nolan Renner, PA-S
Malibu, CA
Is Hyperbaric Oxygen Therapy an Effective Treatment for Post-Operative Surgical Site Infections?
Advisor: John Baddley, MD, MPH
Poster # PA001

Jennifer Lee Sellers, PA-S
Meridian, MS
Is There a Difference in Patient Outcomes When Comparing Autologous Gastrointestinal Reconstruction to Intestinal Transplant in Pediatric Short Bowel Syndrome?
Advisor: Kara L. Caruthers, MSPAS, PA-C
Poster # PA037

Ming-Che Shen, PA-S
Montgomery, AL
Dietary Stearate Reduces Abdominal Fat, Serum Leptin and Glucose, and Increases MCP-1
Advisor: James R. Kilgore, PhD, PA-C
Poster # PA049

Courtney Mari Smith, PA-S
New Orleans, LA
Is There an Association Between Calcium and Cardiovascular Disease/ Death in Women?
Advisor: Kara L. Caruthers, MSPAS, PA-C
Poster # PA039
Hannah M. Smith, PA-S  
Huntsville, AL  
Is There an Association Between Vitamin D Deficiency and Depression?  
Advisor: Kristopher Maday, MS, PA-C, CNSC  
Poster # PA051

Kathleen A. Smith, PA-S, ATC  
Cochran, GA  
Is There an Association Between the Types of ACL Reconstructive Graft Used: Bone-Patellar Tendon-Bone Autograft Versus Hamstring-Tendon Autograft?  
Advisor: Stephanie McGilvray, MMSc, PA-C  
Poster # PA030

Kaley Rae Speros, PA-S  
Marietta, GA  
Is There an Association Between Celiac Disease and Autoimmune Thyroid Diseases?  
Advisor: Kara L. Caruthers, MSPAS, PA-C  
Poster # PA040

Katie Stone, PA-S  
Hopkins, SC  
Is There a Difference in Outcome When Comparing Cystic Fibrosis Patients Colonized With Burkholderia Cepacia Versus Cystic Fibrosis Patients Not Colonized With Burkholderia Cepacia?  
Advisor: John Baddley, MD, MPH  
Poster # PA052
Gretchen Sutch, PA-S  
Knoxville, TN  
Is There a Difference in Failure Rate Between Allograft and Autograft for ACL Repairs?  
Advisor: Chad Epps, MD  
Poster # PA006

Caroline Elizabeth Taylor, PA-S  
Macon, GA  
Is There an Association Between Maternal Obesity and Congenital Heart Defects?  
Advisor: Kelley Swatzell, DrPH, MPH  
Poster # PA018

Emma Marie Twiner, PA-S,B.A.  
Baton Rouge, LA  
Is There an Association between Maternal Smoking During Pregnancy and Childhood Obesity?  
Advisor: Kelley Swatzell, DrPH, MPH  
Poster # PA041

Crystal Vahrenhold, PA-S,MPH  
St. Louis, MO  
Is There a Difference in Post-Operative Morbidity When Comparing Laparoscopic Colectomies With Open Colectomies?  
Advisor: Paul Harrelson, MPAS, PA-C  
Poster # PA053

Lauren B. Voss, PA-S  
Hartland, WI  
Is There a Difference in Clinical Outcomes When Comparing Anterior and Posterior Surgical Approaches to Total Hip Arthroplasty?  
Advisor: James R. Kilgore, PhD, PA-C  
Poster # PA008
The UAB Physician Assistant Program wishes to extend a special thanks to the following faculty members, physicians, clinicians, and doctoral students for serving as judges for today’s events. Their time and expertise provides the PA students with valuable feedback, interaction, and an excellent learning experience.

Tolu Aduroja, MD  
Associate Professor, Psychiatry

Monica S. Aswani, MSPH  
Doctoral Student, Health Care Organization and Policy

Fred E. Bertrand, PhD  
Associate Professor, Biomedical Sciences & Clinical Laboratory Sciences

Sandhya S. Bhoyar  
Doctoral Student, Health Behavior

Mallory Case, MPH  
Doctoral Student, Health Behavior

Modupeoluwa O. Durojaiye, MA  
Doctoral Student, Health Care Organization and Policy

Chris Edson, MS, OTR/L  
Assistant Professor, Occupational Therapy

Wes Granger, Ph.D., RRT, FAARC  
Associate Professor, Respiratory Therapy

Connie Kohler, DrPH  
Professor, Health Behavior

Ana Oliveira, M.Sc, MSPH, DrPH  
Assistant Professor, Clinical Laboratory Sciences

Lauren Wallace, MPH, MPA  
Doctoral Student, Health Care Organization and Policy

John Waterbor, MS, MD, DrPH  
Associate Professor, Epidemiology

Rongbing Xie, MPH  
Doctoral Student, Health Care Organization and Policy