CURRICULUM VITAE

**James C. Slaughter, Dr.P.H.**

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**Present Position:** Associate Professor of Biostatistics, Vanderbilt

 University School of Medicine

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**Education**

1998 B.S. in Mathematics, Tulane University, New Orleans, LA

1998 B.S. in Cell and Molecular Biology, Tulane University, New Orleans, LA

2000 M.S. in Biostatistics, University of Washington, Seattle, WA

2007 Dr.P.H. in Biostatistics, University of North Carolina, Chapel Hill, NC

**Academic Appointments**

2000 Graduate Research Assistant, University of Washington, Seattle, WA

2000 – 2002 Research Scientist and Data Manager, UW-EPA Northwest Research

 Center for Particulate Matter and Health

2003 – 2007 Graduate Research Assistant, University of North Carolina, Chapel Hill,

 NC

2007 – 2015 Assistant Professor, Vanderbilt University School of Medicine, Nashville,

 TN

2015 – Present Associate Professor, Vanderbilt University School of Medicine,

 Nashville, TN

**Professional Organizations**

2002 – Present American Statistical Association, Member

**Professional Activities**

***Intramural***

2007 Continuous quality improvement Project: Improving the initial training

 of newly-hired staff in the department

2012 – 2013 Graduate student comprehensive exams, Department of Biostatistics.

 Writing and grading of student exams

2021 – 2022 Graduate student comprehensive exams, Department of Biostatistics.

 Grading of student exams

***Extramural***

2012 Session chair, *The 8th annual International useR! Conference*,

 June 12-15, Nashville TN

2012 – 2014 Ad hoc reviewer for Qatar National Research Fund

2016 NIAID study section reviewer for U19 grant to fund

International Centers of Excellence in Malaria Research

2019 Organizer and session chair, *ENAR Young Investigator’s Workshop*

 *Grant Writing*

 March 22-23, Philadelphia, PA

2019 External Referee for Yale Faculty Appointments and Promotion

 Committee. Evaluate of novel candidate for promotion to Associate

 Professor

Journal Reviewer American Journal of Epidemiology

Annals of Applied Statistics

BMC Public Health

BMC Research Notes

BMJ Open

Biometrics

Environmental Health Perspectives

Epidemiology

Journal of Applied Statistics

Journal of the Royal Statistical Society

Journal of Statistical Theory and Practice

Lancet: Child and Adolescent Health

PLOS ONE

Scientific Reports

Statistics in Medicine

***Awards and Honors***

2002 Outstanding Staff Award. Department of Environmental Health, University

 of Washington, Seattle, WA

2002 Scholars for Tomorrow Scholarship. Graduate School, University of North

 Carolina, Chapel Hill, NC

2002-2007 Recipient of Training Grant in Environmental Biostatistics.

Department of Biostatistics, University of North Carolina, Chapel Hill, NC

2006 Travel Award. Bayesian Inference in Complex Stochastic Systems.

 Center for Research in Statistical Methodology, University of Warwick.

 Coventry, England

2006 Travel and Professional Development Award. Second Summer Institute in

 Reproductive and Perinatal Epidemiology. Division of Epidemiology,

 Statistics Prevention Research of the National Institute of Child Health

 Human Development and CIHR's Institute of Human Development and

Child and Youth Health. Cambridge, Maryland.

2007 Distinguished Student Paper Award. International Biometric Society,

 Eastern North American Region (ENAR). ENAR Spring meeting, Atlanta

2009 Travel and Professional Development Award. Young Investigator's

Workshop. ENAR Spring meeting, San Antonio

**Teaching Activities**

***Graduate Level Courses***

1998-1999 Teaching Assistant, BIOST 511, BIOST 512, BIOST 513: Medical

 Biometry I, II, and II. Graduate level courses in introductory biostatistics.

 TA for classes covering five quarters.

Fall 2003, 2005 Teaching Assistant, BIOS 110: Principles of Statistical Inference.

Fall 2004 Teaching Assistant, BIOS 262: Advanced Linear Models 1.

Sep 2007 - May 2011 Co-Instructor for Clinical Pharmacology Biostatistics series

(13 lectures per year and 15 journal clubs)

Spring 2008, 2009 Co-Instructor for IGP-304: Statistics for Biomedical Research

 (20 lectures per year)

Spring 2010 – 2013 Founding instructor for BIOS 312: Modern Regression Analysis (30

 lectures and 15 labs per year). Developed new course for Epidemiology

 and Biostatistics Graduate programs.

Spring 2014 – Instructor for EPID 323: Design and Analysis of Time to Event Data (30

 Present lectures per year).

***Mentoring and Dissertation Committees***

2009 - 2010 Steven J McElroy, M.D. Mentoring Committee, Neonatology

2012 - 2014 Maribeth Nicholson, M.D. Mentoring Committee, Gastroenterology

2012 - 2014 Kimberly Glenn. Doctoral Dissertation Committee, Epidemiology Ph.D.

2013 - 2015 Jay Shah, M.D. MPH Mentoring Committee, Pediatric Gastroenterology

2013 - 2016 Dupree Hatch, M.D. MPH Mentoring Committee, Neonatology

2014 - 2016 Mary Allyson Lowry, MPH Mentoring Committee, Pediatric

Gastroenterology

2015 - 2017 Gabe Winberry, MPH Mentoring Committee, Pediatric Gastroenterology

2014 - 2017 Christine O'Brien. Doctoral Dissertation Committee, Biomedical

 Engineering, PhD

2017 - 2019 Alex Sundermann, Doctoral Dissertation Committee, Epidemiology Ph.D.

2017 - 2020 Dupree Hatch, M.D. Mentoring Committee, Neonatology

2019 - 2021 Jaimie Shing, Doctoral Dissertation Committee, Epidemiology Ph.D.

2019 - 2021 Amanda Drucker, M.D. MPH Mentoring Committee, Pediatric

 Gastroenterology

2019 – 2022 Danielle Rankin, Doctoral Dissertation Committee, Epidemiology Ph.D.

2019 – current Rany Octaria, Doctoral Dissertation Committee, Epidemiology Ph.D.

2020 - current Maribeth Nicholson, M.D. Mentoring Committee, Pediatric

Gastroenterology

2021 - current Manhal Izzy, M.D. Mentoring Committee, Gastroenterology

***Continuing Education Lectures***

September 2009 Power and Sample Size. GI Fellow Research Conference.

 Nashville, TN

September 2011 Improving your research through Biostatistics collaborations. Ob/Gyn

Grand Rounds. Nashville, TN

Spring 2012 Introduction to Biostatistics and study design. Lecture Series for

 Neonatology Fellows (2 talks). Nashville, TN.

June 2012 Statistical analysis with small sample sizes. Vaccine Center. Nashville,

TN. Invited.

September 2014 Analysis strategies for ordinal data in studies of neonatology and

 neurodevelopment. Kennedy Center Biostatistics and Bioinformatics

 Core Training Series. Nashville, TN. Invited.

April 2017 Flexible structural equations modeling with longitudinal data. Kennedy

 Center Biostatistics and Bioinformatics Core Training Series. Nashville,

 TN. Invited.

July 2018 Introduction to Modern Biostatistics. Lecture series for Pediatrics

 Residents. Nashville, TN. Invited

April 2019 Abandoning statistical significance. Vaccine Center. Nashville,

 TN. Invited

November 2021 Some practical guidelines for power and sample size estimation.

Center for Clinical Quality and Implementation Research Scholoarly

Series. Virtual. Invited.

**Research Program**

***Active Support***

5U01AI150739-03 (Crowe) 03/12/2020-02/28/2025 0.36 calendar months

NIAID $6,129,368

Structure based design of trimer interface epitope focused universal influenza vaccines

The multidisciplinary group in this application will develop and implement new structure based computational models, and then validate the power of the computational design approach with laboratory experiments focused on the structural basis of broad neutralization of influenza through recognition of the a novel site of vulnerability in the interface of the hemagglutinin head domain.

VUMC73703/U19AI142785 (Crowe) 03/08/2019 – 02/29/2024 0.24 calendar months

UT-Galveston/NIAID $3,517,918

Therapeutic Human Monoclonal Antibody Treatments for Filoviruses

We propose here to perform advanced development of pan-ebolavirus and pan-marburgvirus human monoclonal antibody therapeutics. The work will be conducted with a panel of highly promising antibodies that are in hand, with the goal of identifying and selecting lead compounds and advancing preclinical development in preparation for a subsequent IND filing and clinical testing

5P50HD103537-02 (Neul) 08/06/2020-05/31/2025  1.20 calendar months

NICHD $6,825,742

Eunice Kennedy Shriver Intellectual and Developmental Disabilities Research Center at Vanderbilt

The Vanderbilt Kennedy Center’s Intellectual and Developmental Disabilities Research Center serves as the hub for Vanderbilt’s research efforts focusing on improving the lives of people with intellectual and developmental disabilities by understanding the causes of these disorders and developing and testing therapies tailored to each individual’s precise needs.

5R01DK115545-04 (Jaser) 07/18/2018 – 06/30/2023 0.60 calendar months

NIDDK $2,190,505

Communication and Coping: Addressing Mothers’ needs to Improve Outcomes in Adolescents with T1D

In the proposed study, we will conduct a randomized clinical trial of a communication and coping intervention for distressed mothers.

5R01DK121316-04 (Jaser) 04/01/2019 - 03/31/2023 0.60 calendar months

NIDDK $1,951,812

Positive Psychology Intervention to Treat Diabetes Distress in Teens with T1D

The proposed study will conduct a multisite, randomized trial to test the effects of a positive psychology intervention aimed at treating diabetes distress and improving glycemic outcomes.

5R01DK118407-02 (Shoemaker) 01/01/2021 – 12/31/2025 0.60 calendar months

NIDDK $2,886,639

Phase 2 Study of Theophylline for the Treatment of Psuedohypoparathyroidism

This phase 2 clinical trial and open-label extension study will test the efficacy of theophylline, a phosphodiesterase inhibitor, in pseudohypoparathyroidism.

5R01MH116058-04 (Taylor) 02/01/2019-11/30/2023 1.20 calendar months

NIMH $4,107,757

Improving Transition Outcomes for Youth with Autism through Parent Advocacy Training: a Multi-State Randomized Controlled Trial

Major Goals: A randomized-controlled trial with 180 families to test the effectiveness of a parent advocacy training to improve the transition to adulthood for youth with autism spectrum disorder (ASD).

R01EB028615 (Mahadevan-Jansen) 07/11/2019-03/31/2023   0.60 calendar months

Univ of Illinois@Urbana-Champaign/NIBIB $33,435 (subcontract)

Integration of Raman Spectroscopy and Optical Coherence Tomography (RS-OCT) for In-Vivo Identification of Bacterial Otitis Media

Major Goals: Developing integrated Raman Spectroscopy-Optical Coherence Tomography (RSOCT) for the real-time detection and bacterial differentiation of pathological microorganisms in the middle ear.

1R01AI155646-01A1 (Ogden) 07/01/2021 - 06/30/2026 0.60 calendar months

NIAID $2,527,344

Effects of Reoviridae assembly and transmission processes on viral genetic diversity

Major Goals: The goal of the proposed research is to understand how Reoviridae assembly and transmission processes regulate unique aspects of viral genetic diversity.

1R21MH128790-01 (Warren) 01/17/2022 – 12/31/2023 0.60 calendar months

NIMH $475,750

Can a novel telemedicine tool reduce disparities related to the identification of preschool children with autism?

Major Goals: A computationally informed co-production in which we involve our targeted population as active partners in designing a new telemedicine tool, the TAP– Preschool, for ASD risk assessment in preschoolers.

***Completed Support***

5R01HD081121-02 (Reese) 9/10/14-5/31/19 0.24 calendar months

NICHD $233,783

Detecting biochemical changes in the pregnant mouse cervix by Raman spectroscopy

This proposal will use Raman Spectroscopy, a non-invasive, optical scattering technique, to investigate the composition of the cervix throughout pregnancy and provide detailed real-time information on cervical ripening.

1497-3636 (Killen) 01/01/14-12/31/17 (NCE) 0.24 calendar months

Gerber FND $90,175

Impact of a Multi-Interventional Nutrition Program on the Outcomes of Newborns Requiring Surgery for Congenital Heart Disease

The objective of our study is to compare outcomes in neonates undergoing congenital heart surgery at Monroe Carell Jr. Children’s Hospital at Vanderbilt before and after implementation of each phase of the “Pediatric Heart Institute Nutrition Program. We propose a study to evaluate the impact of an innovative nutrition program on the outcomes of high-risk infants with congenital heart disease.

VUMC 43001(U19AI109711) (Crowe) 03/01/14-02/29/17 0.24 calendar months

NIH/NIAID                                                 $607,190- (Crowe lab)

Vesiculovirus-vectored Vaccines for Biodefense

This is a CETR grant to develop new treatments, vaccines, and antibodies for filoviruses. My role is to isolate new human monoclonal antibodies to Ebola and Marburg viruses.

VUMC/36006HHSN272201400024C (Crowe) 09/29/2014-09/29/2019 0.12 calendar months

NIH/NIAID $1,518,327

Genetic and Structural Basis for Virus Neutralization

The purpose of this contract is to map in detail the B cell epitopes on H7 influenza hemagglutinin, as recognized by humans.

6U19AI117905-02(Crowe) 05/01/15-04/30/20 0.12 calendar months

NIAID $2,083,859

Structure based design of antibodies and vaccines

The central offices and administrative staff of the Vanderbilt Vaccine Center (VVC) will house the MIB Administrative Core, which will play a critical role in providing overall leadership and central administrative support of this Modeling Immunity for Biodefense (MIB) site. The Administrative Core aims to support the coordination of efforts across the component research projects and service core and to support activities to advance integration with the MIB consortium and the scientific community. One of the most vital functions of the Administrative Core will be communication between each of the organizational units within the MIB and with NIAID. The MIB Administrative Core will coordinate practical aspects of the program, which include communicating data and information, monitoring, and managing regulatory compliance. In addition, the MIB Administrative Core will be responsible for budgetary management of the program, preparing progress reports, travel arrangements, which include the MIB meetings, workshops, and symposia.

VUMC 56949(R01HD081120) (Key) 05/01/15-04/30/20 0.60 calendar months

NICHD $15,982

Early Childhood Constraint therapy for sensory/motor impairment in cerebral palsy

Cerebral palsy (CP) is the most common pediatric movement disorder in the US, affecting more than 3 of every 1000 children, and is even more common in the developing world. The current proposal uses rigorous scientific methods to test an inexpensive rehabilitative strategy for CP (constraint-induced movement therapy), easily adapted to settings with limited resources. The study focuses on helping very young children who can benefit most from this intervention and on providing essential information about the mechanisms of disability in CP to help plan future therapeutic studies.

5R01AI114816-04 (Crowe) 02/10/15-01/31/20 0.12 calendar months

NIAID $632,841

Structural and functional basis of ultra potent CHKV neutralization by human mAbs

Chikungunya virus is a mosquito borne virus that causes acute febrile illness and chronic inflammatory joint disease that can be severely debilitating. The virus is spreading globally and currently is causing explosive epidemics in the Americas. This application proposes detailed basic studies of the human antibody response to Chikungunya virus that may provide the foundation for the design of new vaccines and antibody treatments.

N/A (Godown) 01/01/16-06/30/17 0.96 calendar months

Enduring Hearts $61,845

2D speckle tracking echocardiography for non‐invasive surveillance of rejection and coronary disease in pediatric heart transplant recipients

This research aims to assess the ability of 2D speckle tracking to provide earlier identification of both rejection and coronary disease in pediatric heart transplant patients.

1R21DK110657-01 (Jaser) 07/01/16-06/30/18 0.60 calendar months

NIH $150,000

Sleep Promotion to Improve Diabetes Management in Adolescents with T1D

Adolescents with type 1 diabetes (T1D) are at increased risk for problems with adherence and suboptimal glycemic control, and recent evidence indicates that nearly 70% of the adolescent population report insufficient sleep. The proposed study will adapt and pilot test a sleep-promoting intervention tailored to meet the needs of adolescents with type 1 diabetes. Improving sleep duration and quality in adolescents may have a direct, physiological impact on glycemic control, and an indirect, behavioral impact on adherence and quality of life.

1R03HL13453-01 (Wellons) 09/01/16-08/31/18 1.20 calendar months

NHLBI $52,784

Trajectory of Anti-Mullerian Hormone Decline in CVD Risk in CARDIA Women

More than 35 million women in the United States are between the ages of 30 and 50 and are experiencing ovarian aging that will end in menopause. Our aims are to determine the influence of ovarian aging on the development of cardiovascular disease (CVD) by investigating the relationship between a biomarker of ovarian aging (Anti-Mullerian Hormone) and traditional CVD risk factors and subclinical atherosclerosis in the longitudinal Coronary Artery Risk Development in Young Adults study. Because early menopause is associated with a higher risk of CVD, the number one cause of death in American women, this study will provide important information on whether the pace and severity of ovarian aging before menopause contributes to the development of atherosclerosis

1E03026099-01 (Kabagambe) 07/01/2017 – 06/30/2018 0.60 calendar months

NIAAA $50,000 (subcontract)

Interaction between alcohol, statins and cardiovascular disease risk

1R01DK114269-01 (Barkin) 07/01/17 – 06/30/2021 0.60 calendar months

NIDDK $491,405

Understanding Variations in Childhood Obesity (UVARI)

VUMC (Reece) 09/01/2017 – 08/31/2022 0.96 calendar months

NIH/UNKwN $69,658

Label free detection of biochemical changes in the pregnant human cervix in vivo

1I01 CX001009-01A1 (Niswender) 0.60 calendar months (5%)

VA $764,000

Dietary carbohydrate effects on GERD in obese veterans: nutritional or hormonal?

Role: Co-Investigator

5U01 HL101456-03 (Moore) 05/01/2010-06/30/2016 1.80 calendar months (15%)

Improving Prematurity-related Respiratory Outcomes at Vanderbilt (IMPROV)

NIH/NHLBI. $2,406,796

Role: Co-Investigator

14973636 (Killen) 01/01/14 - 12/31/16 1.2 calendar months (10%)

Thrasher Research Fund $271,994

Impact of a Multi-Interventional Nutrition Program on the Outcomes of Newborns Requiring Surgery for Congenital Heart Disease

Role: Co-Investigator

NA (Godown) 07/01/15 – 6/30/17 0.96 calendar months (8%)

Enduring Hearts $68,029

2D speckle tracking echocardiography for non-invasive surveillance of rejection and coronary disease in pediatric heart transplant recipients

Role: Co-Investigator

HDTRA1-10-1-0067 (Crowe) 04/09/10 - 04/15/15 0.24 calendar months (2%)

DOD $370,549

Molecular and Structural Basis for the Fine Specificity of Antiviral Antibodies

Role: Biostatistician

5U54AI057157-11 (Denison/Crowe) 03/01/12 - 02/28/15 0.24 calendar months (2%)

NIH/NIAID (Sub-Award with UNC) $515,357

Southeast Regional Centers of Excellence for Biodefense and Emerging Infectious Diseases (SERCEB)

Role: Biostatistician

7K23HL087114-06 (Wellons) 06/15/08 - 05/31/15 0.36 calendar months (3%)

NIH/NHLBI $123,326

Increased Cardiovacular Risk and Early Natural Menopause in a Biracial Cohort

Role: Biostatistician

HHSN27220090047C (Crowe) 09/30/09 - 09/29/14 0.48 calendar months (4%)

NIH/NIAID $1,072,747

Genetic and Structural Basis for Virus Neutralization

Role: Biostatistician

13010262 (Wynn) 01/01/2013-01/31/2015 0.60 calendar months (5%)

Effect of colostrum on innate mucosal immunity in very preterm infants

Thrasher Research Fund $157,959

Role: Co-Investigator

13CRP14530007 01/01/2013 - 12/31/14 0.66 calendar months (5.5%)

American Heart Association $139,964

Predicting High Risk Cardiomyopathic Disease in Duchenne Muscular Dystrophy

Role: Co-Investigator

5U54 AI057157-10 (Denison/Crowe) 03/01/2012- 02/28/2014 0.24 calendar months (2%)

NIH/NIAID $4,388,353.

Role: Biostatistician

5U01 AI078407-05 (Crowe) 03/15/2008-02/28/2013 0.24 calendar months (2%)

NIH/NIAID $3,047,150

Role: Biostatistician

1R01 ES020852-01A1 (M Aschner) 07/01/2012-06/30/2017 1.20 calendar months (10%)

NIH/NIEHS $1,719,900

Role: Biostatistician

5R01, HD043883 (Hartmann) 01/01/2004-12/31/2009 3.60 calendar months (30%)

NIH/NICHD $879,263

Role: Co-Investigator

5R01 HL097195-05 (Prince) 09/14/2009-07/31/2014 1.20 calendar months (10%)

NIH/NHLBI $2,776,388

Role: Co-Investigator

R01 AT004821 (Wilson) 09/30/2009-09/29/2011 1.20 calendar months (10%)

NIH/NCCAM $620,502

Role: Co-Investigator

**Publication and Presentations**

***Peer Reviewed Manuscripts***

1. Liu L-JS, **Slaughter JC**, Larson TV (2002). *Comparison of Light Scattering Devices and Impactors for Particulate Measurements in Indoor, Outdoor, and Personal Environments.* Environ Sci Technol, 36, 2977-2986.
2. Kim E, Larson TV, Hopke PK, **Slaughter C**, Sheppard LE, and Claiborn C (2003). *Source Identification of PM2.5 in an Arid Northwest U.S. City by Positive Matrix Factorization.* Atmospheric Research, 66, 291-305.
3. **Slaughter JC**, Lumley T, Sheppard L, Koenig JQ, and Shapiro GG (Oct 2003). *Effects of Ambient Air Pollution on Symptom Severity and Medication Usage in Children with Asthma.* Annals of Allergy, Asthma, and Immunology, 91(4), 346-353.
4. **Slaughter JC**, Koenig JQ, Reinhardt TL (Jan 2004). *Association between Lung Function and Exposure to Smoke among Firefighters at Prescribed Burns.* Journal of Occupational and Environmental Hygiene, 1(1), 45-49.
5. **Slaughter JC**, Kim E, Sheppard L, Sullivan JH, Larson TV, Claiborn C (2005). *Association between particulate matter and emergency room visits, hospital admissions, and mortality in Spokane, Washington.* Journal of Exposure Analysis and Environmental Epidemiology, 15, 153-159.
6. Sheppard L, **Slaughter JC**, Schildcrout J, Liu S, and Lumley T (2005). *Exposure and Measurement Contributions to Estimates of Acute Air Pollution Effects.* Journal of Exposure Analysis and Environmental Epidemiology, 15, 366-376.
7. Schildcrout JS, Sheppard L, Lumley TS, **Slaughter JC**, Koenig JQ, Shapiro GG (2006). *Ambient air pollution and asthma aggravation in children: An eight-city analysis.* American Journal of Epidemiology, 164(6), 505-517.
8. **Slaughter JC**, Herring AH, and Hartmann KE (2008). *Bayesian Modeling of Embryonic Growth Using Latent Variables.* Biostatistics, 9(2), 373-89. PMID: 18056115
9. Fike CD, **Slaughter JC**, Kaplowitz MR, Zhang Y, and Aschner JL (2008). *Reactive oxygen species from NADPH oxidase contribute to altered pulmonary vascular responses in newborn piglets with chronic hypoxia-induced pulmonary hypertension. Lung, Cellular, and Molecular Physiology.* 295(5), 881-888. PMCID: PMC2584882
10. Aschner JL, Zeng H, Kaplowitz MR, Zhang Y, **Slaughter JC**, Fike CD (2009). *Heat shock protein 90 (Hsp90)/eNOS interactions mature with postnatal age in the pulmonary circulation of the piglet.* Am J Physiol Lung Cell Mol Physiol. 296(3), 555-564. PMCID: PMC2660212
11. Falcone MT, Garrett CG, **Slaughter JC**, Vaezi M (2009). *Transnasal esophagoscopy findings: Interspecialty comparion*. Otolaryngology-Head and Neck Surgery. 140(6): 812-815. PMID: 19467395
12. Johnson JL, Muller KE, **Slaughter JC**, Gurka MJ, Gribbin MJ, Simpson SL (2009). *POWERLIB: SAS/IML Software for Computing Power in Multivariate Linear Models* Journal of Statistical Software. 30(5), 1-27.
13. Hartmann KE, McPheeters ML, Biller DH, Ward RM, McKoy JN, Jerome RN, Micucci SR, Meints L, Fisher JA, Scott T, **Slaughter JC**, Blume JD (2009). *Treatment of Overactive Bladder in Women.* Evidence Report/Technology Assessment No. 187 (Prepared by the Vanderbilt Evidence-based Practice Center under Contract No. 290-2007-10065-I.) AHRQ Publication No. 09-E017. Rockville, MD: Agency for Healthcare Research and Quality. August. 2009. PMID: 19947666
14. Sun G, Muddana S, **Slaughter JC**, Vaezi MF (2009). *A New pH Catheter for Laryngopharyngeal Reflux: Normal Values.* The Laryngoscope. 119(8) 1639-1643. PMID: 19504553
15. Pritchett JM, Aslam M, **Slaughter JC**, Ness RM, Garrett CG, Vaezi MF (2009). *Efficacy of Esophageal Impedance/pH Monitoring in Patients With Refractory Gastroesophageal Reflux Disease, on and off Therapy.* Clinical Gastroenterology and Hepatology. 7(7): 743-748. PMID: 19281866
16. **Slaughter JC**, Herring AH, and Thorp JM (2009). *A Bayesian Latent Variable Mixture Model for Longitudinal Fetal Growth.* Biometrics. 65(4) 1233-1242. PMID: 19432784
17. Maitre NL, Marshall DD, Price W, **Slaughter JC**, O’Shea TM, Goldstein R (2009). *Neurodevelopmental outcomes of infants with unilateral or bilateral periventricular hemorrhagic infarction.* Pediatrics. 124(6): E1153-E1160. PMID: 19948617
18. Brown N, Morrow JD, **Slaughter JC**, Paria BC, Reese J (2009). *Restoration of on-time embryo implantation corrects the timing of parturition in cytosolic phospholipase A2 group IVA deficient mice.* Biology of Reproduction. 81 (6): 1131-1138. PMID: 19684335
19. Hong SS, Maltz BE, Coburn LA, **Slaughter JC**, Chaturvedi R, Schwartz DA, Wilson KT (2010). *Increased Serum Levels of L-Arginine in Ulcerative Colitis and Correlation with Disease Severity* Inflammatory Bowel Disease. 16(1): 105-111. PMCID: PMC2795785
20. Hill ML, Baldwin L, **Slaughter JC**, Walsh WF, Weitkamp J-H (2010). *A Silver Alginate-Coated Dressing to Reduce Peripherally Inserted Central Catheter (PICC) Infections in NICU Patients - a Pilot Randomized Controlled Trial.* The Journal of Perinatology. Jul;30(7):469-73. PMID: 20010613
21. Maitre NL, Marshall DD, Goldstein RF, **Slaughter JC**, Price WA. (2010). *Necrotizing enterocolitis in infants with periventricular hemorrhagic infarction: associations and outcomes*. Neonatology. 99(2):97-103 PMID: 20664299
22. Vaezi MF, **Slaughter JC**, Smith BS, Washington MK, Jerome WG, Garret CG, Hagaman D, Goutte M (2010). *Dilated Intercellular Space does not Discriminate Controls from Gastroesophageal Reflux Disease or Chronic Laryngitis*. Alimentary Pharmacology & Therapeutics. 32 (7) 916-924. PMID: 20735783
23. Fike CD, Pfister S, **Slaughter JC**, Kaplowitz M, Zhang Y, Zeng H, Frye N, Aschner JL (2010). *Protein Complex Formation with Heat Shock Protein 90 (Hsp90) in Chronic Hypoxia-Induced Pulmonary Hypertension in Newborn Piglets*. American Journal of Physiology, Heart and Circulatory Physiology. 299: 1190-1204. PMID: 20693398
24. Vaezi MF, Hagaman DD, **Slaughter JC**, Tanner SB, Duncavage JA, Allocco CT, Sparkman C, Clement LE, Wasden CM, Wirth D, Goutte M, McCafferty BA, Lanza DC (2010). *Proton Pump Inhibitor Therapy Improves Symptoms in Post Nasal Drainage.* Gastroenterology. 39(6):1887-1893. PMID: 20801120
25. Nagy TA, Allen SS, Wroblewski LE, Flaherty DK, **Slaughter JC**, Perez-Perez G, Israel DA, Peek RM (2011). *Helicobacter pylori induction of eosinophil migration is mediated by the cag pathogenicity island via microbial-epithelial interactions.* American Journal of Pathology. Apr;178(4):1448-52. PMID:21406172
26. Fike CD, Aschner JL, **Slaughter JC**, Kaplowitz MR, Zhang Y, Pfister SL (2011). *Pulmonary arterial responses to reactive oxygen species are altered in newborn piglets with chronic hypoxia-induced pulmonary hypertension* Pediatric Research. Aug;70(2):136-41. PMID: 21516056
27. Francis DO, Goutte M, **Slaughter JC**, Garrett CG, Hagaman D, Holzman MD, Vaezi MF (2011). *Traditional reflux parameters and not impedance monitoring predict outcome post fundoplication in extra-esophageal reflux* Laryngoscope. Sep;121(9):1902-9. PMID: 22024842.
28. **Slaughter JC**, Goutte M, Rymer JA, Oranu AC, Schneider JA, Garrett CG, Hagaman D, Vaezi MF (2011). *Caution about Over-Interpretation of Symptom Indices in Reflux Monitoring for Refractory Gastroesophageal Reflux Disease*. Clinical Gastroenterology and Hepatology. Oct;9(10):868-74. PMID: 21782769
29. McElroy SJ, Prince LS, Weitkamp JH, Reese J, **Slaughter JC**, Polk DB. (2011). *Tumor Necrosis Factor Receptor 1-Dependent Depletion of Mucus in Immature Small Intestine: A Potential Role in Neonatal Necrotizing Enterocolitis*. AJP Gastrointestinal and Livery Physiology. Oct;301(4):G656-66. PMID: 21737776
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***Conference Presentations***

1. **Slaughter JC** and Herring AH. Bayesian Multistate Growth Processes with Unknown Initiation Times. Joint Statistical Meetings, Minneapolis MN. August, 2005. Contributed
2. **Slaughter JC** and Herring AH. Estimating Early Fetal Growth Rate. Women's Health Research Day, Chapel Hill NC. April, 2006. Contributed.
3. **Slaughter JC** and Herring AH. A Bayesian Latent Variable Approach to Jointly Modeling Multistate Growth Processes and Ensuing Outcomes. Bayesian Inference in Complex Stochastic Systems, University of Warwick, Coventry, England. May, 2006. Peer reviewed.
4. **Slaughter JC**, Herring AH, and Hartmann KE. Bayesian Modeling of Embryonic Growth using Latent Variables. ENAR Spring Meeting, Atlanta, GA. March, 2007. Peer reviewed.
5. **Slaughter JC**, Goutte M, and Vaezi M. Neither SI or SAP are reliable tools for assessing symptoms and reflux events. Digestive Disease Week, New Orleans, LA. May 2010. Peer reviewed.
6. **Slaughter JC**, Herring AH. A Bayesian latent variable model for identifying slow early fetal growth. Joint Statistical Meetings, Vancouver, BC. August 2010. Invited.
7. **Slaughter JC**, Bates JT, Crowe JE. Bayesian non-linear regession for neutralization assays. Joint Statistical Meetings, Montreal, Quebec. August 2013. Contributed
8. **Slaughter JC**. Biostatistical challenges and opportunities in HIE trial design and analysis.

HIE Symposium: Developing the Future. Eastern Virginia Medical School. Norfolk, VA. January 2019. Invited