

MATTHEW JAMES GURKA
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EDUCATION

PhD, Biostatistics August 2004
Supporting Program: Epidemiology
School of Public Health
The University of North Carolina at Chapel Hill

BS, Mathematics, *magna cum laude* May 1999
Carroll University, Waukesha, WI

CURRENT APPOINTMENTS

Professor October 2015 – Present
Department of Health Outcomes and Policy
College of Medicine
University of Florida

Anita Zucker Center for Excellence in Early Childhood Studies
University of Florida

Associate Director October 2015 – Present
Institute for Child Health Policy
University of Florida

PREVIOUS APPOINTMENTS

Professor and Founding Chair May 2015 – October 2015
Department of Biostatistics
School of Public Health
West Virginia University

Program Director July 2010 – October 2015
Clinical Research Design, Epidemiology, and Biostatistics Program
West Virginia Clinical and Translational Science Institute

Associate Professor and Founding Chair April 2014 – May 2015
Department of Biostatistics
School of Public Health
West Virginia University

Associate Professor and Interim Chair <i>Department of Biostatistics School of Public Health West Virginia University</i>	July 2011 – April 2014
Associate Professor <i>Department of Community Medicine School of Medicine West Virginia University</i>	July 2010 – June 2012
Visiting Associate Professor <i>Division of Biostatistics and Epidemiology Department of Public Health Sciences School of Medicine University of Virginia</i>	July 2010 - 2011
Associate Professor <i>Division of Biostatistics and Epidemiology Department of Public Health Sciences Department of Pediatrics School of Medicine University of Virginia</i>	July 2010
Assistant Professor <i>Division of Biostatistics and Epidemiology Department of Public Health Sciences Department of Pediatrics School of Medicine University of Virginia</i>	August 2004 – June 2010

HONORS AND AWARDS

University of North Carolina Department of Biostatistics James E. Grizzle Distinguished Alumnus	2013
Inducted as a faculty member into the Gamma Mu Chapter of Delta Omega (Honorary Society in Public Health)	2013
Nominated for Gayle G. Arnold Award for Best Scientific Paper, American Academy for Cerebral Palsy and Developmental Medicine (AACPDM), 2008 Annual Meeting	2008
Inducted into the University of Virginia School of Medicine Academy of Distinguished Educators	2008
Carroll University Graduate of the Last Decade (GOLD) Alumnus Award	2008

National Institute of Environmental Health Sciences Pre-Doctoral Training Grant in Environmental Biostatistics	1999 – 2004
Inducted into Delta Sigma Nu, Carroll University graduate honor society	1999
Carroll University Mathematics Student of the Year	1999

PROFESSIONAL MEMBERSHIPS

Society for Pediatric Research (Elected)	2017 – Present
American Statistical Association	1999 – Present
<ul style="list-style-type: none"> • Ad-Hoc Committee on Statistical Leadership • Caucus of Academic Representatives 	2014 – Present 2014 – 2015
International Biometric Society, Eastern North American Region (ENAR)	2003 – Present
<ul style="list-style-type: none"> • Regional Advisory Board (RAB) 	2008 – 2011
American Public Health Association (APHA)	2014 – Present
Association of Clinical and Translational Statisticians	2014 – 2016
International Statistical Institute (Elected)	2006 – 2011

NATIONAL AND INTERNATIONAL SERVICE

Member, Editorial Board <i>The Journal of Pediatrics</i>	2017 – 2020
Member, Executive Editorial Board <i>Pediatrics</i>	2011 – 2014
Associate Editor <i>Journal of the Royal Statistical Society, Series A (Statistics in Society)</i>	2007 – 2010
Periodic Journal Reviewer: <i>Annals of Epidemiology</i> <i>The American Statistician</i> <i>Communications in Statistics – Simulation and Computation</i> <i>Computational Statistics and Data Analysis</i> <i>Journal of Applied Statistics</i> <i>Journal of Biopharmaceutical Statistics</i> <i>Journal of the Royal Statistical Society, Series A (Statistics in Society)</i> <i>Journal of the Royal Statistical Society, Series C (Applied Statistics)</i> <i>Statistics in Medicine</i> <i>Statistics and Probability Letters</i>	2005 – Present

Archives of Otolaryngology – Head and Neck Surgery
Archives of Physical Medicine and Rehabilitation
Economics and Human Biology
International Journal of Obesity
Journal of Preventive Medicine
New England Journal of Medicine
Nutrition, Metabolism and Cardiovascular Diseases
Pediatrics
Psychological Methods

Study Sections:

U.S. Department of Defense, U.S. Army Medical Research and Materiel Command, Congressionally Directed Medical Research Programs (CDMRP), Clinical Trial – Heart Disease Peer Review Panel	December 2016
National Institutes of Health (NIH) Kidney, Nutrition, Obesity And Diabetes (KNOD) Study Section (Ad-Hoc Member)	September 2016
U.S. Department of Defense, U.S. Army Medical Research and Materiel Command, Congressionally Directed Medical Research Programs (CDMRP), Autism Research Program (ARP) Review Panel	November 2015 January 2012
National Institutes of Health (NIH), National Institute of General Medical Sciences (NIGMS) Institutional Development Award (IDeA) Program Infrastructure for Clinical and Translational Research (IDeA-CTR) (U54) Special Emphasis Panel	February 2015 March 2014 February 2013
U.S. Department of Defense, U.S. Army Medical Research and Materiel Command, Congressionally Directed Medical Research Programs (CDMRP), Clinical and Rehabilitation Medicine Research Program Review Panel	April 2014
National Institutes of Health (NIH), National Heart, Lung, and Blood Institute (NHLBI) Special Emphasis Panel RFA-HL-14-004: Ancillary Studies in Clinical Trials (R01)	August 2013
U.S. Department of Defense Medical Research and Development Program (DMRDP), Applied Research and Advanced Technology Development Award (ARATDA), Wound Infection and Healing (WIH) Review Panel	February 2010

Data Safety Monitoring Committees:

Nurse-Family Partnership (NFP) Curriculum Study (ClinicalTrials.gov Identifier: NCT01372098) PI: MacMillan (McMaster University)	2011 - 2015
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Other National Committees:

USMLE Biostatistics and Epidemiology Test Material Development Committee 2017 – 2018

UNIVERSITY SERVICE

College of Medicine Representative (Elected), University of Florida Faculty Senate 2016 – present

Member, University of Florida Department of Health Outcomes and Policy Education Committee 2015 – present

Member, University of Florida Department of Health Outcomes and Policy Leadership Committee 2015 – present

Member, University of Florida Anita Zucker Center for Excellence in Early Childhood Studies Steering Committee 2015 – present

Member, University of Florida 2017 Early Childhood Summit Work Group 2016 – 2017

Member, West Virginia University Faculty Campaign Committee (in conjunction with the WVU Gold, Blue, and You Campus Campaign) 2014 – 2015

Member, West Virginia University Health Sciences Center (HSC) Graduate Council 2012 – 2015

Search Committee, West Virginia University School of Public Health Senior Associate Dean for Academic Affairs 2014

Chair, Search Committee, West Virginia University School of Public Health Department of Epidemiology: Department Chair and Stuart and Joyce N. Robbins Distinguished Professor 2013 – 2014

Search Committee, West Virginia University School of Public Health Founding Dean 2012 – 2014

Chair, Search Committee, West Virginia Clinical and Translational Science Institute (WVCTSI) Biomedical Informatics Program Director 2012 – 2013

Chair, Search Committee, West Virginia University School of Public Health (Department of Epidemiology) General Faculty Search (Multiple Positions, Open Rank) 2012

Search Committee, West Virginia University Department of Community Medicine/Emerging School of Public Health General Faculty Search (Multiple Positions, Open Rank)	2011 – 2012
Student Recruitment Committee, West Virginia University Department of Community Medicine/Emerging School of Public Health	2011 – 2012
Promotion and Tenure Committee, West Virginia University Department of Community Medicine/Emerging School of Public Health	2011 – 2012
Chair, School of Public Health Strategic Planning Research Committee West Virginia University	2011
Chair, Search Committee, West Virginia University School of Medicine Faculty Position (Open Rank) in Community Medicine (Biostatistics)	2010 – 2011
Search Committee, West Virginia University Prevention Research Center Health Data Analyst Position	2010
Search Committee, University of Virginia Curry School Assistant/Associate/Full Professor of Physical Activity & Exercise	2009 – 2010
University of Virginia Faculty Senate - Research and Scholarship Committee	2008 – 2010
University of Virginia School of Medicine Academy of Distinguished Educators - Steering Committee - Education Research and Resources Subcommittee	2008 – 2010
University of Virginia Masters of Public Health Degree Program Admissions Committee	2007 – 2010
University of Virginia Children’s Hospital Grants Committee	2004 – 2010
Search Committee, Curry School Professor of Positive Youth Development	2008 - 2009

GRANTS (AS PRINCIPAL INVESTIGATOR)

NIH/NHLBI (R01HL120960-04S1): Socioeconomic Status and Subjective Social Status as Modifiers of Stressors and Discrimination in their Relationship with MetS Severity over Time (Administrative Supplement to R01HL120960; co-PI: Mark DeBoer)	3/03/2017 – 4/30/2019
NIH/NHLBI (R01HL120960): An Ethnicity-Specific Metabolic Syndrome Severity Score to Assess Risk: The Jackson Heart Study (co-PI: Mark DeBoer)	8/15/2014 – 4/30/2019

WVU Program to Stimulate Competitive Research (PSCoR) Award: An In-Depth Examination of the Metabolic Syndrome in the Jackson Heart Study Using a Severity Score.	2013
NIH/NIDDK (R21DK085363-01A1): Development of a Childhood Metabolic Syndrome Risk Score for Predicting Adult Disease (co-PI: Mark DeBoer)	2010 – 2013
HRSA/MCH: Progress in Reducing Developmental and Behavioral Co-morbidities of Asthma in Children with Emphasis on Health Disparities Risk Factors (Subcontract PI)	2010 – 2012
NIH/NICHD (R03 HD055298-01A1): Chronic Illness and Developmental Health Trends in Children	2008 – 2010
UVA Children’s Hospital Faculty Grant-in-Aid: UVA Center for Excellence in Child Health Research	2008 – 2009

GRANTS (AS BIOSTATISTICS CORE DIRECTOR)

NIH/NIGMS U54: West Virginia IDEA-CTR (PI: Sally Hodder) West Virginia Clinical and Translational Science Institute (WVCTSI) - Program Director, Clinical Research Design, Epidemiology, and Biostatistics (CRDEB) Program	8/15/2012-6/30/2017 30% Annual Effort
NIH/NIGMS (1P20GM109098-01): West Virginia Stroke CoBRE (PI: James Simpkins) - <i>Transferred leadership of core in 2014 to Dr. Michael Regier, Assistant Professor in the Dept. of Biostatistics</i>	9/8/2014 – 5/31/2019 5% Annual Effort

GRANTS (AS CO-INVESTIGATOR OR STATISTICAL CONSULTANT)

Federal

AHRQ U18: The Child Health Quality (CHeQ) Program (PI: Elizabeth Shenkman)	9/30/2016 – 9/29/2020 5% Annual Effort
NIH/NCATS UL1: Together: Transforming and Translating Discovery to Improve Health (UF CTSI) (PI: David Nelson)	9/1/2016 – 3/31/2018 3% Annual Effort
NIH/NICHD R21: Antibiotic Effects on the Developing Microbiome Metabolome and Morbidities in Preterm Neonates (PI: Josef Neu)	12/07/2016 – 11/30/2018 5% Annual Effort

NIH/NHGRI: Genomic Medicine Implementation: The Personalized Medicine Program (PI: Julie Johnson)	5/01/2016 – 4/30/2018 2% Annual Effort
NIH/NCI R21: Maximizing HPV Vaccination: Real-Time Reminders, Guidance, and Recommendations (PI: Stephanie Staras)	2/08/2016 – 1/31/2018 1% Annual Effort
NIH/NICHD R01: Do Cell Phone Laws Reduce Calling, Texting, and Crashes among Young Drivers? (PI: Motao Zhu)	1/1/2013 – 6/30/2013 7.5% Annual Effort
USDHHS CDC / NCIPC: WVU Injury Control Research Center (PI: Jeffrey Coben)	8/1/2010 – 5/31/2013 15% Annual Effort
HRSA: West Virginia Rural Health Research Center (PI: Michael Hendryx)	9/1/2010 – 7/31/2012 5% Annual Effort
USDHHS CDC: WV Prevention Research Center (PI: Geri Dino)	8/1/2010 – 11/30/2011 15% Annual Effort
NIH/NICHD R03: APOE and Functional Severity in Cerebral Palsy (PI: James Blackman)	9/1/2008 – 8/30/2010 5% Annual Effort
MCH/HRSA: Asthma, Health Disparities, and Developmental Pediatrics (PI: James Blackman)	7/1/2009 – 6/30/2010 10% Annual Effort
NIH/NICHD (1T15HD050255-01A1): NIH Grant Prep. Workshops for Rehabilitation Research (PI: James Blackman)	4/1/2008 - 3/31/2010 5% Annual Effort
US Dept. of Transportation, Research and Innovative Technology Administration (DTRT06-G-0048): Emergency Medical Services and Congestion (awarded to UAB: UVA subcontract PI: Matthew Trowbridge)	8/15/2008 – 8/14/2009 5% Annual Effort
NIH/NCMRR (K24 HD041504-03): Growth and Maturation in Cerebral Palsy (PI: Richard Stevenson)	8/1/2006 – 7/31/2008 5% Annual Effort
NIH/NIDDK (R18 DK062942-02): Improving Control with Activity and Nutrition (ICAN) (PI: Viktor Bovbjerg)	9/1/2004 – 8/30/2006 10.5% Annual Effort
NIH/NCMRR (R24 HD039631-05): Enhancing Rehabilitation Research in the South (ERRIS) (PI: James Blackman)	9/1/2004 – 6/ 30/2006 5% Annual Effort

State

VA Neurotrauma Initiative: Growth Hormone Treatment in TBI (PI: Peter Patrick)	7/1/2007 - 6/30/2010 5% Annual Effort
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VA Department of Rehabilitation Services (CNI-04-093): Effects of Donepezil on Recovery of Executive Functions following Severe TBI in Children (PI: Peter Patrick)	8/1/2005 – 7/31/2006 5% Annual Effort
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Other

T1D Exchange Promoting Health Equity for Youth with Type 1 Diabetes Through Outreach, Networks, and Education: All for ONE! (PI's: Ashby Walker and Desmond Schatz)	8/01/2016 – 1/31/2018 2% Annual Effort
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Benedum Foundation Emergency Room Utilization by Children and Adults for Dental Needs in West Virginia (PI: David Felton)	1/31/2014 – 1/31/2016 5% Annual Effort (in-kind)
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Benedum Foundation WVU Center for Health Practitioners (My First Patient) (PI: Patricia Chase)	1/1/2013 – 6/30/2015 3% Annual Effort Year 1 3% Annual Effort Year 2 (in-kind)
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UVa Department of Pediatrics Contracts (Internal funding for general statistical consulting for the department)	9/1/2004 – 7/23/2010 25% Annual Effort
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United Cerebral Palsy Foundation: Bone Accrual in Pre-Pubertal Children with Cerebral Palsy (PI: Christine Houlihan)	1/1/2009 – 12/31/2011 5% Effort (Year 2)
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UVa Children's Hospital and Institute of Quality and Patient Safety Research Grants: Gloving and Handwashing to Prevent Invasive Infections in Necrotizing Enterocolitis (PI: David Kaufman)	1/1/2009 – 12/31/2009 5% Annual Effort
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PEER-REVIEWED PUBLICATIONS

* Indicates the corresponding author

** Indicates co-first authors

85. DeBoer MD**, **Gurka MJ****, Golden SH, Musani SK, Sims M, Vishnu A, Guo Y, Pearson TA. Independent associations between metabolic syndrome severity and future coronary heart disease by sex and race. *Journal of the American College of Cardiology* 69: 1204-1205, 2017.

84. Lee AM, Fermin CR, Filipp SL, **Gurka MJ**, DeBoer MD*. Examining trends in prediabetes and its relationship with the metabolic syndrome in U.S. adolescents, 1999-2014. *Acta Diabetologica*, 2017 (Epub ahead of print).

83. DeBoer MD*, **Gurka MJ**. Clinical utility of metabolic syndrome severity scores: considerations for practitioners. *Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy* 10: 65-72, 2017.
82. Barnett TE*, Tomar SL, Lorenzo FE, Forrest JR, Porter L, **Gurka MJ**. (2016). Hookah use among Florida High School Students, 2011-2014. *American Journal of Preventive Medicine* 52: 220-223, 2017.
81. Lee AM, Charlton JR, Carmody JB, **Gurka MJ**, DeBoer MD*. Metabolic risk factors in non-diabetic adolescents with glomerular hyperfiltration. *Nephrology Dialysis Transplantation*, 2016 (Epub ahead of print).
80. Lemas DJ*, Yee S, Cacho N, Miller D, Cardel M, **Gurka M**, Janicke D, Shenkman E. Exploring the contribution of maternal antibiotics and breastfeeding to development of the infant microbiome and pediatric obesity. *Seminars in Fetal and Neonatal Medicine* 21(6): 406-409, 2016.
79. **Gurka MJ**, Vishnu A, Santen RA, DeBoer MD*. Progression of metabolic syndrome severity during the menopausal transition. *Journal of the American Heart Association* 5: e003609, 2016.
78. DeBoer MD*, **Gurka MJ**, Morrison JA, Woo JG. Inter-relationships between the severity of metabolic syndrome, insulin, and adiponectin and their relationships to future type 2 diabetes and cardiovascular disease. *International Journal of Obesity* 40: 1353-1359, 2016.
77. **Gurka MJ**, Vishnu A, Okereke OI, Musani S, Sims M, DeBoer MD*. Depressive symptoms are associated with worsened severity of the metabolic syndrome in African American women independent of lifestyle factors: A consideration of mechanistic links from the Jackson Heart Study. *Psychoneuroendocrinology* 68: 82-90, 2016.
76. Lee AM, **Gurka MJ**, DeBoer MD*. A metabolic syndrome severity score to estimate risk in adolescents and adults: current evidence and future potential. *Expert Review of Cardiovascular Therapy* 14: 411-413, 2016.
75. Lee AM, **Gurka MJ**, DeBoer MD*. Trends in metabolic syndrome severity and lifestyle factors among adolescents. *Pediatrics* 137(3): 1-9 e20153177, 2016.
74. Bingham CM, Sivak-Callcott JA*, **Gurka MJ**, et al. Axial globe position measurement: A prospective multi-center study by the International Thyroid Eye Disease Society. *Ophthalmic Plastic and Reconstructive Surgery* 32(2): 106-112, 2016.
73. Vishnu A, **Gurka MJ**, DeBoer MD*. The severity of the metabolic syndrome increases over time within individuals, independent of baseline metabolic syndrome status and medication use: the Atherosclerosis Risk in Communities Study. *Atherosclerosis* 243: 278-285, 2015.

72. DeBoer MD**, **Gurka MJ****, Woo, JG, Morrison, JA. Severity of metabolic syndrome as a predictor of type 2 diabetes between childhood and adulthood: The Princeton Lipid Research Cohort Study. *Diabetologia*. 58(12): 2745-2752, 2015.
71. DeBoer MD**, **Gurka MJ****, Woo JG, Morrison JA. Severity of metabolic syndrome as a predictor of cardiovascular disease between childhood and adulthood: The Princeton Lipid Research Cohort Study. *Journal of the American College of Cardiology* 66(6): 755-757, 2015.
70. Pignataro RM*, **Gurka MJ**, Jones DL, Kershner RE, Ohtake PJ, Stauber WT, Swisher AK. Educating doctor of physical therapy students in tobacco cessation counseling: feasibility and preliminary outcomes. *Journal of Physical Therapy Education* 29: 68-79, 2015.
69. Kaufman DA*, Morris A, **Gurka MJ**, Kapik B, Hetherington S. Fluconazole prophylaxis in preterm infants: a multicenter case-controlled analysis of efficacy and safety. *Early Human Development* 90: S87-90, 2014.
68. Kaufman DA*, Zanelli SA, **Gurka MJ**, Davis M, Richards CP, Walsh BK. Time outside targeted oxygen saturation range and retinopathy of prematurity. *Early Human Development* 90: S35-40, 2014.
67. Middleton J, Wiener RC, Barnes BH, **Gurka MJ**, DeBoer MD*. Clinical features of pediatric non-alcoholic fatty liver disease: a need for increased awareness and a consensus for screening. *Clinical Pediatrics* 53: 1318-1325, 2014.
66. Pignataro RM*, **Gurka MJ**, Jones DL, Kershner RE, Ohtake PJ, Stauber WT, Swisher AK. Tobacco cessation counseling therapy in US entry-level physical therapist education curricula: prevalence, content, and associated factors. *Physical Therapy* 94: 1294-1305, 2014.
65. DeBoer MD* and **Gurka MJ**. Low sensitivity of the metabolic syndrome to identify adolescents with impaired glucose tolerance: an analysis of NHANES 1999-2010. *Cardiovascular Diabetology* 13: 83, 2014.
64. Oeffinger DJ*, **Gurka MJ**, Kuperminc M, Hassani S, Buhr N, Tylkowski C. Accuracy of skinfold and bioelectrical impedance assessments of body fat percentage in ambulatory individuals with cerebral palsy. *Developmental Medicine and Child Neurology* 56: 475-481, 2014.
63. Swanson JR*, **Gurka MJ**, Kaufman DA. Risk factors for invasive fungal infection in premature infants: Enhancing a targeted prevention approach. *Journal of the Pediatrics Infectious Diseases Society* 3(1): 49-56, 2014.
62. Matthews-Ewald MR*, Kelley GA, **Gurka MJ**, Frost SS, Moore LC, Harris CV, Bradlyn AS, Zullig KJ, Larkin K, Reeves ME. The between-person and within-person variability of light physical activity among a group of rural adolescents. *International Journal of Child and Adolescent Health* 7(1): 37-44, 2014.

61. Matthews-Ewald MR*, Kelley GA, **Gurka MJ**, Frost SS, Moore LC, Harris CV, Bradlyn AS, Zullig KJ, Larkin K. Looking within the school day: does activity compensation occur with light physical activity? *International Journal of Child and Adolescent Health* 7(1): 45-52, 2014.
60. Matthews-Ewald MR*, Kelley GA, Moore LC, **Gurka MJ**. How active are rural children and adolescents? An examination of light physical activity during PE class. *West Virginia Medical Journal* 110(2): 28-31, 2014.
59. Korir A, Mauti N, Moats P, **Gurka MJ**, Mutuma G, Metheny C, Mwamba PM, Oyiro PO, Fisher M, Ayers LW, Rochford R, Mwanda WO, Remick SC*. Developing clinical strength-of-evidence approach to define HIV-associated malignancies for cancer registration in Kenya. *PLOS One* 9(1): e85881, 2014.
58. **Gurka MJ***, Lilly CL, Oliver MN, DeBoer MD. An examination of sex and racial/ethnic differences in the metabolic syndrome among adults: A confirmatory factor analysis and a resulting continuous severity score. *Metabolism* 63(2): 218-25, 2014.
57. Wamstad JB, Norwood KW, Rogol AD, **Gurka MJ**, DeBoer MD, Blackman JA, Buck ML, Kuperminc MN, Darring JG, Patrick PD*. Neuropsychological recovery and quality-of-life in children and adolescents with growth hormone deficiency following TBI: a preliminary study. *Brain Injury* 27(2): 200-208, 2013.
56. DeBoer MD, Wiener RC, Barnes BH, **Gurka MJ***. Ethnic differences in the link between insulin resistance and elevated ALT. *Pediatrics* 132(3): e718-726, 2013.
55. **Gurka MJ***, Ice CL, Sun SS, DeBoer MD. A confirmatory factor analysis of the metabolic syndrome in adolescents: an examination of sex and racial/ethnic differences. *Cardiovascular Diabetology* 11: 128, 2012.
54. Charlton J*, Norwood V, Kiley S, **Gurka MJ**, Chevalier R. The evolution of the urinary proteome during human renal development and maturation: variations with gestational and postnatal age. *Pediatric Research* 72: 179-185, 2012.
53. Walker SE, Smolkin ME, O'Leary LL, Cluett SB, Norwood VF, DeBoer MD, **Gurka MJ**. Predictors of retention and BMI loss or stabilization in obese children enrolled in a weight loss intervention. *Obesity Research and Clinical Practice* 6: e330-3339, 2012.
52. Grinsell MM*, Butz K, **Gurka MJ**, Gurka KK, Norwood V. Sport-related kidney injury among high-school athletes: incidence and relative risk. *Pediatrics* 130: e40-45, 2012.
51. Bowman TA, Paget-Brown AF, Carroll J, **Gurka MJ**, Kattwinkel J*. Sensing and responding to compliance changes during manual ventilation using a lung model: can we teach healthcare providers to improve? *Journal of Pediatrics* 160: 372-376, 2012.
50. DeBoer MD*, Dong L, **Gurka MJ**. Racial/ethnic and sex differences in the relationship between uric acid and metabolic syndrome in adolescents: an analysis of NHANES 1999-2006. *Metabolism* 61: 554-561, 2012.

49. Walker SE, **Gurka MJ**, Oliver MN, Johns DW, DeBoer MD*. Racial/ethnic discrepancies in the metabolic syndrome begin in childhood and persist after adjustment for environmental factors. *Nutrition, Metabolism and Cardiovascular Disease* 22: 141-148, 2012.
48. DeBoer MD* and **Gurka MJ**. Low sensitivity for the metabolic syndrome to detect uric acid elevations in female and Non-Hispanic-Black male adolescents: an analysis of NHANES 1999-2006. *Atherosclerosis* 220: 575-580, 2012
47. Clarke CJ*, **Gurka MJ**, Norton PT, Kramer CM, Hoyer AW. Assessment of the accuracy and reproducibility of right ventricular volume measurements by cardiac magnetic resonance in patients with congenital heart disease. *Journal of the American College of Cardiology: Cardiovascular Imaging* 5: 28-37, 2012.
46. DeBoer MD*, Dong L, **Gurka MJ**. Racial/ethnic and sex differences in the ability of metabolic syndrome criteria to predict elevations in fasting insulin in adolescents. *The Journal of Pediatrics* 159: 975-981, 2011.
45. Long C*, **Gurka MJ**, Blackman JA. Cognitive skills of young children with and without autism spectrum disorder using the BSID III. *Autism Research and Treatment* 2011: Article ID 759289 (7 pages), doi:10.1155/2011/759289.
44. **Gurka MJ***, Muller KE, Edwards LJ. Avoiding bias in mixed model inference for fixed effects. *Statistics in Medicine* 30: 2696-2707, 2011.
43. Blackman JA*, **Gurka MJ**, Gurka KK, Oliver MN. Emotional, developmental and behavioral co-morbidities of children with chronic health conditions. *Journal of Paediatrics and Child Health* 47: 742-747, 2011.
42. DeBoer MD*, **Gurka MJ**, Sumner AE. A diagnosis of the metabolic syndrome is associated with a disproportionately high degree of inflammation demonstrated by high levels of hsCRP in non-Hispanic black adolescents: An analysis of NHANES 1999-2008. *Diabetes Care* 34: 734-740, 2011.
41. Kaufman DA*, Cuff AL, Wamstad J, Boyle R, **Gurka MJ**, Grossman LB, Patrick P. Fluconazole prophylaxis in extremely low birth weight infants and neurodevelopmental outcomes and quality of life at 8 to 10 years of age. *Journal of Pediatrics* 158: 759-765.e1, 2011.
40. **Gurka MJ*** and Edwards LJ. Estimating variance components and random effects using the Box-Cox transformation in the linear mixed model. *Communications in Statistics – Theory and Methods* 40: 515-531, 2011.
39. **Gurka MJ***, Coffey CS, Gurka KK. Internal pilots for observational studies. *Biometrical Journal* 52: 590-603, 2010.
38. Norwood KW, DeBoer MD*, **Gurka MJ**, Kuperminc MN, Rogol AD, Blackman JA, Wamstad JB, Buck ML, Patrick PD. Traumatic brain injury in children and adolescents: Surveillance for pituitary dysfunction. *Clinical Pediatrics* 11: 1044-1049, 2010.

37. DeBoer MD* and **Gurka MJ**. Ability among adolescents for the metabolic syndrome to predict elevations in factors associated with type 2 diabetes and cardiovascular disease: Data from the National Health and Nutrition Examination Survey (NHANES) 1999-2006. *Metabolic Syndrome and Related Disorders* 8(4): 343-353, 2010.
36. Kuperminc MN*, **Gurka MJ**, Bennis JA, Busby MG, Grossberg RI, Henderson RC, Stevenson RD. Anthropometric measures: poor predictors of body fat in children with moderate to severe cerebral palsy. *Developmental Medicine and Child Neurology* 52: 824-830, 2010.
35. Seckeler MD*, Hoke TR, Barton LL, **Gurka MJ**. No demonstrable effect of benzathine penicillin on recurrence of rheumatic fever in a Pacific Island population. *Pediatric Cardiology* 31: 849-852, 2010
34. **Gurka MJ***, LoCasale-Crouch J, Blackman JA. Long term cognition, achievement, socioemotional, and behavioral development of healthy late preterm infants. *Archives of Pediatrics & Adolescent Medicine* 164(6): 525-532, 2010.
33. McHugh KE, Hillman DG, **Gurka MJ**, Gutgesell HP*. Three stage palliation of hypoplastic left heart syndrome in the University Health System Consortium. *Congenital Heart Disease* 5: 8-15, 2010.
32. **Gurka MJ***, Kuperminc MN, Busby MG, Bennis JA, Grossberg RI, Houlihan CM, Stevenson RD, Henderson RC. Assessment and correction of skinfold thickness equations in estimating body fat in children with cerebral palsy. *Developmental Medicine and Child Neurology* 52: e35-e41, 2010.
31. Stewart CR, Landseadel JP, **Gurka MJ**, Fairchild KD*. Hypothermia increases IL-6 and IL-10 in juvenile endotoxemic mice. *Pediatric Critical Care Medicine* 11: 109-116, 2010.
30. **Gurka MJ***, Blackman JA, Heymann PW. Risk of childhood asthma in relation to the timing of early child care exposures. *Journal of Pediatrics* 155: 781-787, 2009.
29. Kuperminc MN*, **Gurka MJ**, Houlihan CM, Henderson RC, Roemmich JN, Rogol AD, Stevenson RD. Puberty, statural growth, and growth hormone release in children with cerebral palsy. *Journal of Pediatric Rehabilitation Medicine* 2: 131-141, 2009.
28. Trowbridge MJ*, **Gurka MJ**, O'Connor RE. Urban sprawl and delayed ambulance arrival in the United States. *American Journal of Preventive Medicine* 37: 428-432, 2009.
27. Sauer BG, **Gurka MJ**, Ellen K, Shami VM, Kahaleh M*. Effect of pancreatic duct stent diameter on hospitalization in chronic pancreatitis: does size matter? *Pancreas* 38: 728-731, 2009.

26. Blackman JA*, **Gurka MJ**, Bao Y, Dragulev BP, Chen WM, Romness MJ. Apolipoprotein E and functional motor severity in cerebral palsy. *Journal of Pediatric Rehabilitation Medicine* 2(1): 67-74, 2009.
25. Kattwinkel J*, Stewart C, Walsh B, **Gurka M**, Paget-Brown A. Responding to compliance changes in a lung model during manual ventilation: perhaps volume, rather than pressure should be displayed. *Pediatrics* 123: e465-470, 2009.
24. Kashmer L, Clark W, **Gurka M**, Elchuri S, Nyer M, Gonder-Frederick L*. Predictors of parental interest in continuous glucose monitoring for children with Type I diabetes. *Diabetes Technology and Therapeutics* 11(6): 373-378, 2009.
23. Johnson JJ*, Muller KE, Slaughter JC, **Gurka MJ**, Gribbin MJ, Simpson SL. POWERLIB: SAS/IML software for computing power in multivariate linear models. *Journal of Statistical Software* 30(5): 1-27, 2009.
22. Long C*, **Gurka MJ**, Blackman JA. Family stress and children's language and behavior problems: results from the National Survey of Children's Health. *Topics in Early Childhood Special Education* 28: 148-157, 2008.
21. Kramer AH*, **Gurka MJ**, Nathan B, Dumont AS, Kassell NF, Bleck TP. Complications associated with anemia and blood transfusion in patients with aneurysmal subarachnoid hemorrhage. *Critical Care Medicine* 36: 2070-2075, 2008.
20. Hullfish KL*, Bovbjerg VE, **Gurka MJ**, Steers WD. Surgical vs. non-surgical treatment in women with pelvic floor dysfunction: patient-centered goals at one year. *The Journal of Urology* 179: 2280-2285, 2008.
19. Kramer AH*, **Gurka MJ**, Nathan B, Dumont AS, Kassell NF, Bleck TP. Statin use was not associated with less vasospasm or improved outcomes following subarachnoid hemorrhage. *Neurosurgery* 62: 422-430, 2008.
18. Davis CK*, Cummings MW, **Gurka MJ**, Gutgesell HP. The natural history of congenital aortic stenosis determined by Doppler echocardiography. *American Journal of Cardiology* 101: 392-395, 2008.
17. Kaufman DA*, Manzoni P, **Gurka MJ**, Grossman LB. Antifungal Prophylaxis in the NICU. *Current Pediatric Reviews* 3: 277-288, 2007.
16. **Gurka MJ***, Coffey CS, Muller KE. Internal pilots for a class of linear mixed models with Gaussian and compound symmetric data. *Statistics in Medicine* 26: 4083-4099, 2007.
15. Hellems MA*, **Gurka MJ**, Hayden GF. Statistical literacy for readers of *Pediatrics*: A moving target. *Pediatrics* 119: 1083-1088, 2007.
14. Buck ML, **Gurka MJ**, Goodkin HP.* Postmarketing modifications in the safety labeling of the new antiepileptics. *Neurology* 68: 1536-1537, 2007.

13. Patrick PD*, Mabry JL, **Gurka MJ**, Buck ML, Boatwright E, Blackman JA. MRI patterns in prolonged response states following traumatic brain injury in children and adolescents. *Brain Injury* 21: 63-68, 2007.
12. **Gurka MJ***, Edwards LJ, Nylander-French L. Testing transformations for the linear mixed model. *Computational Statistics and Data Analysis* 51: 4297-4307, 2007.
11. Blackman JA* and **Gurka MJ**. Developmental and behavioral co-morbidities of asthma in children. *Journal of Developmental and Behavioral Pediatrics* 28: 92-99, 2007.
10. Patrick PD*, Blackman JA, Mabry JL, Buck ML, **Gurka MJ**, Conaway MR. Dopamine agonist therapy in low response children following traumatic brain injury. *Journal of Child Neurology* 21: 879-885, 2006.
9. Kaufman D*, **Gurka MJ**, Hazen KC, Boyle R, Robinson M, Grossman LB. Patterns of fungal colonization in preterm infants less than 1000 grams birth weight. *The Pediatric Infectious Disease Journal* 25: 733-737, 2006.
8. **Gurka MJ***, Wolf AM, Conaway MR, Crowther JQ, Nadler JL, Bovbjerg VE. Lifestyle intervention in obese patients with Type 2 Diabetes: The impact of the patient's educational background. *Obesity* 14: 1085-1092, 2006.
7. Blanchard L, **Gurka MJ**, Blackman JA.* Emotional, developmental, and behavioral health of American children and their families: A report from the 2003 National Survey Of Children's Health. *Pediatrics* 117: e1202-e1212, 2006.
6. **Gurka MJ***, Edwards LJ, Muller KE, Kupper LL. Extending the Box-Cox transformation to the linear mixed model. *Journal of the Royal Statistical Society, Series A* 169: 273-288, 2006.
5. Attridge JT, Herman AC, **Gurka MJ**, Griffin MP, McGahren ED, Gordon PV.* Discharge outcomes of extremely low birth weight infants with spontaneous intestinal perforations. *Journal of Perinatology* 26: 49-54, 2006.
4. **Gurka MJ.*** Selecting the best linear mixed model under REML. *The American Statistician* 60: 19-26, 2006.
3. Doctor A, Platt R, Sheram ML, Eischeid A, McMahon T, Maxey T, Doherty J, Axelrod A, Kline J, **Gurka M**, Gow A, Gaston B.* Hemoglobin conformation couples S-nitrosothiol content in erythrocytes to O₂ gradients. *Proceedings of the National Academy of Sciences* 102: 5709-5714, 2005.
2. Chalermkulrat W, Neuringer IP, Schmitz JL, Catellier DJ, **Gurka MJ**, Randell SH, Aris RM.* Human leukocyte antigen mismatches predispose to the severity of bronchiolitis obliterans syndrome after lung transplantation. *Chest* 123(6): 1825-31, 2003.
1. Henderson RC*, Lark RK, **Gurka MJ**, Worley G, Fung EB, Conaway M, Stallings VA, Stevenson RD. Bone density and metabolism in children and adolescents with moderate to severe cerebral palsy. *Pediatrics* 110: e5, 2002.

BOOK CHAPTERS (INVITED AND PEER-REVIEWED)

3. Reger-Nash B, Bauman A, Abildso CG, Zullig K, Cottrell L, **Gurka M**. Wheeling Walks: A targeted mass-media-led physical activity campaign. *Implementing Physical Activity Strategies*. 2014; Human Kinetics: Champaign, Illinois, Chapter 9.
2. **Gurka MJ**, Kelley GA, and Edwards LJ. Fixed and random effects models. *Wiley Interdisciplinary Reviews: Computational Statistics*. 2011; doi: 10.1002/wics.201.
1. **Gurka MJ** and Edwards LJ. Mixed Models. *Handbook of Statistics, 27: Epidemiology and Medical Statistics*. 2008; Elsevier: Amsterdam, Chapter 9.

LETTERS AND BOOK REVIEWS IN REFEREED JOURNALS

Gurka MJ. *Basic Concepts in Statistics and Epidemiology* by MacDonald, T.H. (book review). *Journal of the Royal Statistical Society, Series A*. 2008; 171: 506-507.

Gurka MJ. *Applied Mixed Models in Medicine, 2nd Edition* by Brown, H. and Prescott, R. (book review). *Biometrics*. 2007; 63: 626-627.

Gurka MJ. Letter to the Editor: Response to comment by Keselman, Algina, Kowalchuk, and Wolfinger on “Selecting the best linear mixed model under REML”. *The American Statistician*. 2006; 60: 210-211.

SELECTED ABSTRACTS (AS FIRST AUTHOR)

19. **Gurka MJ**, Vishnu A, DeBoer MD. *The metabolic syndrome and risk of future type 2 diabetes: is the sum truly greater than its parts?* Accepted for poster presentation at the American Diabetes Association’s 76th Scientific Sessions, New Orleans, LA, June 12, 2016.
18. **Gurka MJ**, Conway BN, Andrew ME, Burchfiel CM, DeBoer MD. *Additive Interactions and the Metabolic Syndrome*. Presented at the International Biometric Society Eastern North American Region (ENAR) Annual Meeting, Miami, Florida, March 17, 2015.
17. **Gurka MJ**, DeBoer MD. *Metabolic syndrome severity in the Jackson Heart Study*. Presentation at the National Institute for Minority Health and Health Disparities Grantees’ Conference, National Harbor, Maryland, December 1-3 2014.
16. **Gurka MJ**, DeBoer MD. *Use of a Sex- and Ethnicity-Specific Childhood Continuous Metabolic Syndrome Risk Score to Detect Risk of Glucose Intolerance*. Poster presentation at the Pediatric Endocrine Society/European Pediatric Endocrine Society joint conference, Milan, Italy, September 2013.

15. **Gurka MJ**, DeBoer MD. *A sex- and ethnicity-specific metabolic syndrome risk score: Formulation in NHANES and validation in the Jackson Heart Study*. Oral presentation at the Endocrine Society National Conference, San Francisco, CA, June 2013 (oral presentation).
14. **Gurka MJ**, Ice C, Sun S, DeBoer MD. *Development of a sex- and ethnicity-specific childhood continuous metabolic syndrome risk score*. Poster presentation at the Endocrine Society's 94th Annual Meeting and Exposition, Houston, TX: June 23-26, 2012.
13. **Gurka MJ** and DeBoer MD. *Development of a childhood metabolic syndrome risk score for predicting adult disease*. Poster presentation at the American Public Health Association 139th Annual Meeting and Exposition, Washington, DC: November 1, 2011.
12. **Gurka MJ**, Kuperminc MN, Hassani S, Tytkowski C, Oeffinger D. *Validating new skinfold thickness equations for estimating body fat in children with cerebral palsy*. Presented at the American Academy for Cerebral Palsy and Developmental Medicine (AAPDM) 65th Annual Meeting, Las Vegas, NV: October 14, 2011.
11. **Gurka MJ**, LoCasale-Crouch J, Blackman JA. *Long term cognition, achievement, socioemotional, and behavioral development of healthy late preterm infants*. Poster presentation at the University of Virginia Children's Hospital Research Symposium, Charlottesville, VA: May 27, 2010.
10. **Gurka MJ**, Kuperminc MN, Houlihan CM, Stevenson RD. *Assessment of the validity of skinfold thickness equations in estimating body fat measurement in children with CP*. Poster presentation at the University of Virginia Children's Hospital Research Symposium, Charlottesville, VA: May 28, 2009. (*Voted in the "Final Four" (out of 33 posters) in the Best Poster Competition*).
9. **Gurka MJ**, Blackman JA, Heymann PW. *Risk of childhood asthma in relation to the timing of early child care exposures*. Poster presentation at the University of Virginia Children's Hospital Research Symposium, Charlottesville, VA: May 28, 2009. (*Voted in the "Final Four" (out of 33 posters) in the Best Poster Competition*).
8. **Gurka MJ**, Blackman JA, Heymann PW. *Risk of childhood asthma in relation to the timing of early child care exposures*. Platform presentation at the 2009 Pediatric Academic Societies' (PAS) Annual Meeting, Baltimore, MD: May 5, 2009.
7. **Gurka MJ** and Muller KE. *Achieving covariance robustness in the linear mixed model*. Poster presentation at the 2009 International Biometric Society: Eastern North American Region (ENAR) Spring Meeting, San Antonio, TX: March 15, 2009.
6. **Gurka MJ**, Kuperminc MN, Matuszewski J, Stevenson RD, Henderson RC. *Assessment of the validity of skinfold thickness equations in estimating body fat measurement in children with CP*. Presented at the American Academy for Cerebral Palsy and Developmental Medicine (AAPDM) 62nd Annual Meeting, Atlanta, GA: September 18, 2008. (*Nominated for Gayle G. Arnold Award for Best Scientific Paper*)

5. **Gurka MJ** and Coffey CS. *Internal pilot designs for observational studies*. Presented at the 2008 International Biometric Society: Eastern North American Region (ENAR) Spring Meeting, Washington, D.C.: March 18, 2008.
4. **Gurka MJ**, Edwards LJ, Muller KE. *Violating the assumption of independence of the error components in the linear mixed model for longitudinal data*. Presented at the 2006 Joint Statistical Meetings, Seattle, WA: August 7, 2006.
3. **Gurka MJ**, Edwards LJ, Sen PK. *Model selection for the linear mixed model when the response is transformed*. Presented at the 2004 Joint Statistical Meetings, Toronto, Canada: August 10, 2004.
2. **Gurka MJ** and Edwards LJ. *Inference techniques for data transformations in linear mixed models for longitudinal data*. Presented at the 2004 International Biometric Society: Eastern North American Region (ENAR) Spring Meeting, Pittsburgh, PA: March 31, 2004.
1. **Gurka MJ**, Edwards LJ, Muller KE. *Data transformations in linear mixed effects models for longitudinal data*. Presented at the 2003 Joint Statistical Meetings, San Francisco, CA: August 5, 2003.

INVITED LECTURES

24. *Measuring the severity of the metabolic syndrome to better assess risk of disease*. University of Florida Endocrinology Grand Rounds, Gainesville, FL: May 11, 2016.
23. *Measuring the severity of the metabolic syndrome in children to better assess risk of disease*. University of Florida Department of Pediatrics Grand Rounds, Gainesville, FL: April 28, 2016.
22. *How to use statistical consultation: biostatistical challenges in rehabilitation research* (with Paul Nietert and Charity Patterson). *Training in Grantsmanship for Rehabilitation Research (TIGRR) Workshop*, Charleston, SC: January 13, 2016.
21. *Examining the severity of the metabolic syndrome*. Collaborative Studies Coordinating Center, Department of Biostatistics, University of North Carolina, Chapel Hill, NC: November 23, 2015.
20. *How to use statistical consultation: biostatistical challenges in rehabilitation research* (with Paul Nietert). *Training in Grantsmanship for Rehabilitation Research (TIGRR) Workshop*, Charleston, SC: January 14, 2015.
19. *Public health in West Virginia: challenges and opportunities*. 2014 West Virginia Neuroscience Retreat, Oglebay Resort, Wheeling, WV: July 20-21, 2014.
18. *How to use statistical consultation: biostatistical challenges in rehabilitation research*. *Training in Grantsmanship for Rehabilitation Research (TIGRR) Workshop*, Chapel Hill, NC: January 13, 2014.

17. *Biostatistics as a leader in an emerging academic research enterprise*. James E. Grizzle Distinguished Alumni Award Lecture, Department of Biostatistics, University of North Carolina, Chapel Hill, NC: April 11, 2013.
16. *How to use statistical consultation: biostatistical challenges in rehabilitation research.. Training in Grantsmanship for Rehabilitation Research (TIGRR) Workshop*, Chapel Hill, NC: January 14, 2013.
15. *Childhood health and behavior: a longitudinal study*. Departments of Biostatistics and Statistics, University of Kentucky, Lexington, KY: March 29, 2012.
14. *Biostatistical challenges in rehabilitation research*. Ninth Annual Intensive Workshop on Grant Writing, Preparation, and Submission in Rehabilitation Research, Charlottesville, VA. Sponsored and organized by *Enhancing Rehabilitation Research in the South (ERRIS)*: January 12, 2011.
13. *Faculty development of biostatistics students with a focus on applications*. 60th Anniversary of the University of North Carolina's Department of Biostatistics, Chapel Hill, NC: October 14, 2009.
12. *Biostatistical challenges in rehabilitation research*. Seventh Annual Intensive Workshop on Grant Writing, Preparation, and Submission in Rehabilitation Research, Charlottesville, VA. Sponsored and organized by *Enhancing Rehabilitation Research in the South (ERRIS)*: January 14, 2009.
11. *Biostatistics as a career*. Department of Mathematics, Carroll University, Waukesha, WI: September 4, 2008.
10. *Biostatistical challenges in rehabilitation research*. Sixth Annual Intensive Workshop on Grant Writing, Preparation, and Submission in Rehabilitation Research, Charlottesville, VA. Sponsored and organized by *Enhancing Rehabilitation Research in the South (ERRIS)*: January 16, 2008.
9. *Internal pilot designs and mixed models*. Presented at the 2007 Joint Statistical Meetings, Salt Lake City, UT: July 30, 2007.
8. *Extending the Box-Cox transformation to the linear mixed model*. Presented at the 2007 International Biometric Society: Eastern North American Region (ENAR) Spring Meeting, Atlanta, GA: March 13, 2007.
7. *Internal pilot designs for studies with repeated measures*. Department of Public Health Sciences Research Seminar, University of Virginia School of Medicine: February 7, 2007.
6. *Biostatistical challenges in rehabilitation research*. Fifth Annual Intensive Workshop on Grant Writing, Preparation, and Submission in Rehabilitation Research, Charlottesville, VA. Sponsored and organized by *Enhancing Rehabilitation Research in the South (ERRIS)*: January 25, 2007.

5. *Biostatistical challenges in rehabilitation research*. Fourth Annual Intensive Workshop on Grant Writing, Preparation, and Submission in Rehabilitation Research, Charlottesville, VA. Sponsored and organized by *Enhancing Rehabilitation Research in the South (ERRIS)*: January 19, 2006.
4. *Box-Cox transformations in linear mixed models*. Department of Biostatistics Course (Advanced Linear Models II), University of North Carolina at Chapel Hill: March 22, 2005.
3. *Box-Cox transformations in linear mixed models*. Department of Psychology, Quantitative Psychology Program, Quantitative Forum, University of North Carolina at Chapel Hill: March 21, 2005.
2. *The Box-Cox transformation in the general linear mixed model for longitudinal data: estimation and inference*. Department of Biostatistics Course (Advanced Linear Models II), University of North Carolina at Chapel Hill: April 20, 2004.
1. *Biostatistics as a career and longitudinal data analysis using the general linear mixed model*. Department of Mathematics, Carroll University, Waukesha, WI: April 10, 2003.

TEACHING ACTIVITIES (CLASSROOM)

Health Outcomes and Policy PhD Seminar: Applied Research Spring 2016
(UF GMS 7886: 3 credits)

- Required course for UF Health Outcomes and Policy PhD Students
- 3 enrolled students

Data Management and Reporting Fall 2015
(WVU BIOS 611: 3 credits) Fall 2013
Fall 2012

- Required course for WVU Masters in Public Health (Biostatistics and Epidemiology concentrations), Masters in Science (Biostatistics), and PhD in Epidemiology (School of Public Health)
- Textbook: Delwiche, L.D. and Slaughter, S.J. (2012). *The Little SAS Book, 5th Edition*
- 2012: 16 enrolled students; 2013: 28 enrolled students; 2015: 8 enrolled students
- 2015: Co-taught with Dr. Michael Regier

Applied Biostatistics Lab Fall 2012-Fall 2014
(WVU BIOS 602: 1 credit)

- Required course for all WVU Masters in Public Health degrees as well as PhD in Social and Behavioral Sciences and PhD in Occupational and Environmental Health (School of Public Health)
- Textbook: Delwiche, L.D. and Slaughter, S.J. (2012). *The Little SAS Book, 5th Edition*
- 2012: 64 enrolled students (live and online course); 2013: 58 enrolled students (live and online course); 2014: 73 enrolled students (live and online course)

Applied Biostatistics III

Fall 2013

(WVU BIOS 604; 3 credits)

- Co-taught with Dr. Christa Lilly (Assistant Professor, WVU Department of Biostatistics)
- Required course for WVU Applied Biostatistics Certificate Program; elective course for numerous MPH/PhD programs in the School of Public Health
- 12 enrolled students

Biostatistical Consulting

Spring 2013

(WVU BIOS 623; 1 credit)

- Co-taught with Dr. Dustin Long (Assistant Professor, WVU Department of Biostatistics)
- Required course for WVU Masters in Public Health – Biostatistics Program
- 4 enrolled students

Categorical Data Analysis

Spring 2013

(WVU BIOS 621; 3 credits)

- Required course for WVU Masters in Public Health – Biostatistics Program and PhD in Epidemiology Program
- Textbook: Stokes ME, Davis CS, Koch GG. (2012). *Categorical Data Analysis using the SAS System* (3rd edition). Cary, NC: SAS Institute Inc.
- 9 enrolled students

Categorical Data Analysis

Spring 2012

(WVU PUBH 691A; 3 credits)

Spring 2011

- Elective course for WVU Masters in Public Health/PhD in Public Health Sciences Degree Programs
- Textbook: Stokes ME, Davis CS, Koch GG. (2000). *Categorical Data Analysis using the SAS System* (2nd edition). Cary, NC: SAS Institute Inc.
- 2011: 21 enrolled students; 2012: 15 enrolled students

Introduction to Biostatistics Certificate Course

January 2010

(UVA Public Health Sciences 7000; 3 credits)

- January-Term Course equivalent to the core biostatistics course in the University of Virginia Masters in Clinical Research/ Masters in Public Health Degree Programs
- Textbook: Gerstman, B.B. (2008). *Basic Biostatistics: Statistics for Public Health Practice*
- 20 enrolled students

Practical Use of Statistics in Biomedical Research

Spring 2009

(UVA Microbiology 838; 2 credits)

- Co-director of course for graduate students in Microbiology and Biomedical Sciences
- Textbook: Glance, S.A. (2005). *Primer of Biostatistics*, 6th Edition
- 9 enrolled students

- Introduction to Biostatistics** (UVA Public Health Sciences 700; 3 credits) Fall 2007
- Core Course in the University of Virginia Masters in Clinical Research/ Masters in Public Health Degree Programs
 - Textbook: Daniel, W.W. (2005). *Biostatistics: A Foundation for Analysis in the Health Sciences*, 8th Edition
 - 29 enrolled students
- Introduction to SAS** (UVA Public Health Sciences 717; 1 credit) Fall 2007
- Core Course in the University of Virginia Masters in Clinical Research Degree Program
 - Textbook: Delwiche, L.D. and Slaughter, S.J. (2003). *The Little SAS Book*
 - 21 enrolled students
- Introduction to Biostatistics** (UVA Public Health Sciences 700; 3 credits) Fall 2006
- Core Course in the University of Virginia Masters in Clinical Research/ Masters in Public Health Degree Programs
 - Textbook: Motulsky, H. (1995). *Intuitive Biostatistics*
 - 34 enrolled students/1 auditing student

TEACHING ACTIVITIES (SHORT COURSES)

- West Virginia Clinical and Translational Science Institute (WVCTSI) Biostatistics and Epidemiology Short Course: “Stats at Stonewall”** October 13-14, 2014
- Two-day course available to all interested WVCTSI members, held at the Stonewall Resort in Roanoke, WV and offering Continuing Education credits
 - Series of lectures taught by numerous faculty covering a variety of topics (e.g. clinical trials, survival analysis, correlated data analysis, etc.) with active engagement of all participants
 - Developed and organized the short course; taught numerous lectures and facilitated discussions
- UVA Radiation/Oncology Biostatistics Short Course** February - March 2010
March-April 2009
- Five-day course over 6 weeks for all UVA Radiation/Oncology residents and Hematology/Oncology fellows
 - Didactic component consisting of introduction to basic statistical/epidemiologic topics followed by group discussion of relevant journal articles in cancer

Instructional Course: *Epidemiology and Biostatistics in Research* September 18, 2008
American Academy for Cerebral Palsy and Developmental Medicine
(AACPDM) 62nd Annual Meeting, Atlanta, GA

- Two-hour course with lectures on basic statistical inference and study design principles
- Lectures were followed by a small-group breakout session aimed at designing studies for various research questions in cerebral palsy research
- Co-taught with a faculty epidemiologist and pediatrician

UVA Pediatric Fellows Statistics Symposium August 6-9, 2007
“*Statistics and Epidemiology in Clinical Research*” July 24-27, 2006

- Four-day short-course on principles of statistical inference and study design for UVa Department of Pediatrics fellows
- Didactic component consisting of introduction to basic statistical/epidemiologic topics followed by group discussion of relevant journal articles with a common theme

OTHER TEACHING ACTIVITIES: GUEST LECTURES, CONFERENCES, GRAND ROUNDS, JOURNAL CLUBS, ETC.

22. Invited Lecture: *Longitudinal Data Analysis*. University of Florida, Department of Health Outcomes and Policy, Longitudinal Research Design Course (GMS 6829): November 15, 2016.
21. Invited Lecture: *Longitudinal Data Analysis*. University of Florida, Department of Biostatistics, Design and Conduct of Clinical Trials Course (PHC 6937): November 14, 2016.
20. Invited Lecture: *Biostatistical Approaches for CVD Research*. West Virginia University, School of Medicine, Cardiovascular Translational Sciences Course (BMS 793): July 30, 2013.
19. Invited Lecture: *Describing and Analyzing Data*. West Virginia University, School of Medicine, Public Health course (CCMD 712): September 13, 2012.
18. Invited Lecture: *Statistical Inference*. West Virginia University, School of Medicine, Public Health course (CCMD 712): September 11, 2012.
17. Invited Lecture: *Epidemiology and Statistics*. West Virginia University, Clinical Tropical Medicine and Traveler’s Health Course: June 21, 2011.
16. Invited Lecture: *Utilizing Secondary Data in Obesity Research: A Case Study*. West Virginia University Prevention Research Center, Obesity and Metabolic Disease Research Group Meeting: February 22, 2011.
15. Invited Lecture: *Analyzing Correlated Data*. West Virginia University Translational Tobacco Reduction Research Program Meeting: November 11, 2010.

14. Invited Lecture: *Biostatistics and Epidemiology Basics: Study Design and Sources of Bias*. University of Virginia, Department of Physical Medicine and Rehabilitation: July 20, 2009.
13. Invited Lecture: *Biostatistics and Epidemiology Basics: Sampling Variability and Statistical Inference*. University of Virginia, Department of Physical Medicine and Rehabilitation: July 13, 2009.
12. Guest Lecture: *Multiple Linear Regression and Analysis of Covariance*. University of Virginia, Public Health Sciences Course (PHS 751): “Applied Biostatistics”: January 28, 2009.
11. Guest Lecture: *Multiple Regression and Analysis of Covariance*. University of Virginia, Public Health Sciences Course (PHS 751): “Applied Biostatistics”: January 30, 2008.
10. Invited Lecture: *Using Existing Databases in Research*. University of Virginia, Children’s Hospital Resident Research Symposium: May 31, 2007.
9. Guest Lecture: *Multiple Regression and Analysis of Covariance*. University of Virginia, Public Health Sciences Course (PHS 751): “Applied Biostatistics”: February 5, 2007.
8. Invited Presentation: *An Introduction to Meta-Analysis*. University of Virginia, Department of Pediatrics Division of Nephrology Noon Conference: June 1, 2006.
7. Invited Lecture: *An Introduction to Study Design*. University of Virginia, Children’s Hospital Research Symposium: May 18, 2006.
6. Guest Lecture: *Multiple Regression and Analysis of Covariance*. University of Virginia, Health Evaluation Sciences Course (HES 751): “Applied Biostatistics”: February 13, 2006.
5. Invited Lecture: *An Introduction to Study Design*. University of Virginia, Otolaryngology Department Grand Rounds: August 23, 2005.
4. Invited Lecture: *An Introduction to Hypothesis Testing*. University of Virginia, Children’s Hospital Research Symposium: May 26, 2005.
3. Invited Lecture: *An Introduction to Study Design*. University of Virginia, Children’s Hospital Research Symposium: May 26, 2005.
2. Invited Lecture: *Statistics 101: The basics of statistical inference*. Department of Pediatrics, School of Medicine, University of Virginia (Pediatric Residents’ Journal Club): April 4, 2005.
1. Regular participant, monthly Pediatric Residents’ Journal Club. Department of Pediatrics, School of Medicine, University of Virginia: 2004 – 2010.

RESEARCH ADVISING

Post-Doctoral Researchers

Abhishek Vishnu, PhD (PhD in Epidemiology, University of Pittsburgh) 2015 – 2016

PhD Dissertation Committee Member (West Virginia University)

Courtney Pilkerton. Health resource availability, state policy, and cardiovascular health in U.S. adults. PhD in Epidemiology, 2015.

Ruchi Bhandari. Association of individual and combined metabolic risk factors with cancer. PhD in Epidemiology, 2013.

Rose Pignataro. The role of tobacco cessation counseling in physical therapist practice and education. PhD in Social and Behavioral Health Sciences, 2013.

Laura Kurth. Characterization of atmospheric particulate matter in mountaintop mining and non-mining areas in West Virginia with known health differences. PhD in Epidemiology, 2013.

Molly Matthews-Ewald. An examination of non-exercise activity thermogenesis in rural youth. PhD in Social and Behavioral Health Sciences, 2013.

Sarah Dee Geiger. Exposure to perfluoroalkyl chemicals and its relation to serum lipids, serum uric acid, and blood pressure levels in children. PhD in Public Health Sciences, 2012.

R. Constance Wiener. Epipathogenesis of caries: Analyses of family structure, fear, and fatalism upon World Health Organization decayed, missing, and filled teeth severity in Appalachia West Virginia and Pennsylvania. PhD in Public Health Sciences, 2012.

Master's Theses Directed (University of Virginia)

Angela Rose. Causes, consequences, and strategies for prevention of childhood obesity: a literature review. Masters in Public Health (MPH), 2010.

Jennifer Charlton. Evolving urinary biomarkers in premature infants during renal maturation. MS in Clinical Research (CR), 2010.

Christopher Clarke. Assessment of the accuracy and reproducibility of right ventricular volume measurements by cardiac magnetic resonance in patients with congenital heart disease. MS in Clinical Research (CR), 2010.

Adrienne Kilgore. Determining best practice for pediatric postoperative sternal incision care. MS in Clinical Research (CR), 2010.

Anita Kohli. The evolution the AIDS epidemic over 21 years, 1983-2004, in Ceara, Brazil: demographics and clinical characteristics at presentation with AIDS. MS in Clinical Research (CR), 2009.

Shetarra Walker. Prevention of weight gain in obese children enrolled in a short term weight loss intervention. MS in Clinical Research (CR), 2009.

Bryan Sauer. Effect of pancreatic duct stent diameter on hospitalization in painful chronic pancreatitis with evidence of pancreatic duct dilation: a retrospective analysis. MS in Clinical Research (CR), 2008.

Scott Altschuler. Cyclosporine versus Tacrolimus after liver transplant for Hepatitis C: A single center randomized controlled trial and meta-analysis. MS in Health Evaluation Sciences (HES), 2007.

Andreas Kramer. Blood transfusion is associated with adverse outcomes following subarachnoid hemorrhage. MS in Health Evaluation Sciences (HES), 2007.

Bruce Landeck. Three-dimensional echocardiographic comparison of right ventricular and left ventricular stroke volumes in children. MS in Clinical Research (CR), 2007.

Master's Thesis Reader (University of Virginia)

Katherine Burke. Remote area medical program: improving access to rural, southwestern Virginia. MS in HES, 2007.

Steven Condron. Predictors of fatty liver disease subtypes: NHANES analysis (1999-2002). MS in HES, 2007.

Brian Swenson. Antimicrobial impregnated surgical incise drapes in the prevention of mesh infection following ventral hernia repair. MS in HES, 2007.

University of Virginia Pediatrics Fellows' Scholarship Oversight Committee Member

Stacey Applegate, MD (Pediatric Cardiology)

Jennifer Charlton, MD (Pediatric Nephrology)

Christopher Clarke, MD (Pediatric Cardiology)

Adrienne Kilgore, MD (Pediatric Cardiology)

Randala Lakkis, MD (Pediatric Nephrology)

Bruce Landeck, MD (Pediatric Cardiology)

Shetarra Walker, MD (Pediatric Cardiology)

Michole Pineda, MD (Developmental and Behavioral Pediatrics)