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Biostatistics
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Education

- Ph.D. (2003)** Biostatistics, Department of Biostatistics and Epidemiology, University of Oklahoma Health Sciences Center, College of Public Health, Oklahoma City, OK.
Chair: Barbara R. Neas, Ph.D.
- M.P.H. (1999)** Biostatistics, Department of Biostatistics and Epidemiology, University of Oklahoma Health Sciences Center, College of Public Health, Oklahoma City, OK.
- B.A. (1998)** Computer Science and Mathematics, Department of Mathematical Sciences, Cameron University, Lawton, OK.
- A.A (1995)** Computer Science, McCook Community College, McCook, NE.

Additional Training/Continuing Education

- 2010 Design and Analysis of Cluster Randomized Trials, half day short course presented by Allan Donner, Kansas City, MO.
- 2009 Introduction to Meta-Analysis, 1 day short course presented by Terry Griffin, Jeffrey Jonkman and Tom Stanley, Little Rock, AR.
- 2008 Introduction to Survey Sampling, 1 day short course presented by James Lepkowski, Little Rock, AR.
- 2007 Applied Logistic Regression Analysis, 1 day short course presented by David Hosmer, Little Rock, AR.
- 2006 Sample-Size Analysis in Study Planning: Concepts and Issues. 1 day short course presented by Ralph O'Brien, Memphis, TN.
- 2005 Bootstrap Methods and Permutation Tests. 1 day short course presented by Tim Hesterberg, Little Rock, AR.

2005 Introduction to Regression Modeling of Time to Event Data. 2 day short course presented by David Hosmer, Little Rock, AR.

Academic Appointments

Primary

2008-Present Associate Professor of Biostatistics (Primary Appt. - Tenured), Department of Biostatistics, College of Public Health, UAMS.

Other

2009-Present Associate Professor of Biostatistics (Secondary Appt.), Department of Biostatistics, College of Medicine, UAMS.

2007-Present Adjunct Faculty, Department of Mathematics and Statistics, College of Science and Mathematics, University of Arkansas at Little Rock (UALR).

2006–Present Graduate Faculty of Biostatistics, Department of Biostatistics, Graduate College, UAMS.

2009-Present PRC Scientist, Arkansas Prevention Research Center, UAMS.

Past

2004–2009 Assistant Professor of Biostatistics, Department of Biostatistics, College of Medicine, UAMS.

2003–2008 Assistant Professor of Biostatistics, Department of Biostatistics, College of Public Health, UAMS.

Previous Experience

1999–2003 Program Grant Consultant (Biostatistician), Chronic Disease Service, Oklahoma State Department of Health.

1998–2003 Graduate Research and Teaching Assistant, Department of Biostatistics, College of Public Health, and Department of Graduate Orthodontics, College of Dentistry, University of Oklahoma Health Sciences Center.

1997–1998 Computer Assistant, Office of the Dean of Students, Cameron University.

1996–1996 Tutor, Student Support Services, Cameron University.

Teaching

- 2004-Present Categorical Data Analysis (PBHL 5763), University of Arkansas for Medical Sciences, College of Public Health, Department of Biostatistics. Developed and taught to students with concentration in Biostatistics.
- 2004-Present Application of Microcomputers to Data Management and Analysis (PBHL 5753), University of Arkansas for Medical Sciences, College of Public Health, Department of Biostatistics. Required for Biostatistics concentration. Developed and taught to students with concentration in Biostatistics.
- 2005 Nonparametric Methods (PBHL 5313), University of Arkansas for Medical Sciences, College of Public Health, Department of Biostatistics. Developed portion of the course and co-taught to students with concentration in Biostatistics.
- 2003-2005 Biostatistics III – Multivariate Methods (PBHL 5033), University of Arkansas for Medical Sciences, College of Public Health, Department of Biostatistics. Developed portion of the course and co-taught to students with concentration in Biostatistics.
- 2006-Present Guest Lecturer in Survey Methods (PBHL 5773), University of Arkansas for Medical Sciences, College of Public Health, Department of Health Behavior and Health Education.
- 2006-Present Guest Lecturer and Student Mentor in Grantmanship and the Peer Review Process (PBHL 9123), University of Arkansas for Medical Sciences, College of Public Health, Departments of Health Behavior and Health Education.
- 2006-Present Guest Lecturer in Community Based Public Health Program Design and Evaluation II (PBHL 9113), University of Arkansas for Medical Sciences, College of Public Health, Departments of Health Behavior and Health Education and Health Policy and Management.
- 2003 Introduction to Biostatistics, University of Oklahoma Health Sciences Center, College of Public Health, Department of Biostatistics and Epidemiology. Taught additional section to students in Dentistry.
- 2002 Application of Microcomputers in Data Analysis, University of Oklahoma Health Sciences Center, College of Public Health, Department of Biostatistics and Epidemiology. Developed and taught to students in Biostatistics and Epidemiology.
- 2000-2002 Research Methods, University of Oklahoma Health Sciences Center, College of Dentistry, Department of Graduate Orthodontics. Developed and tailored this course to graduate students in the field of Orthodontics.

2001-2002 Teaching Assistant in Frequency Data Analysis, University of Oklahoma Health Sciences Center, College of Public Health, Department of Biostatistics and Epidemiology. Held review sessions weekly for students in Biostatistics and Epidemiology.

Student Mentoring

PhD Dissertation Committees

2004 Hall-Barrow Julie. Arkansas Nurses Attitudes Toward Mandatory Continuing Education. UALR, Department of Educational Leadership.

Integration Project Advisory Committees (MPH IPAC)

2010 Neyman Stephanie. Dietary Electrolyte Intake among Adult Arkansans. UAMS, CPH.

2010 DiCarlo Marisha. Stress Management in the Treatment of Obesity: A Pilot Study. UAMS, CPH.

2010 Northern John. Community Water System Fluoridation Replacement Equipment Cost Assessment. UAMS, CPH.

2010 Wooten Terri. Developing Methodology to Estimate Power for Logistic Regression with Interaction. UAMS, CPH. (Chair)

2009 Chiaro Carrie. A Descriptive Analysis of Pregnant Women in Arkansas Who Smoke. UAMS, CPH. (Co-Chair)

2008 Winters Maria. Reactions to Race, Depression and Stress: Analysis of Marianna Examination Survey of Hypertension (MESH). UAMS, CPH. (Chair)

2008 Trevino Michelle. The Use of Plants for Medicinal and Therapeutic Purposes by Latinos in Arkansas. UAMS, CPH.

2008 Sisterhen Laura. The Outcome of Parent and Caregiver Referrals by Pediatric Healthcare Providers to a Statewide, Telephone-based Tobacco Cessation Referral Program. UAMS, CPH.

2008 Goodell Melanie. Mapping Geographic Health Disparities in Arkansas: A Multi-factorial Approach. UAMS, CPH.

2008 Love Sharhonda. Does Offering Weight Management Improve SOS Quitline Attendance and Abstinence? UAMS, CPH.

2008 Marshall Alexandra. Analysis of HIV Testing Rates by Demographic Groups in Arkansas Counties. UAMS, CPH.

- 2008 Stewart Audra. Arkansas' Physician Knowledge of Newborn Hearing Screening: Follow up and Intervention. UAMS, CPH.
- 2008 Ntende Henry. Adherence to Combination HIV Antiretroviral Therapy and County of Residence: Alabama 1998-1999. UAMS, CPH.
- 2007 Biddle Deborah. Analysis of Soil Adherence to Human Skin Under Several Controlled Conditions. UAMS, CPH. (Chair)
- 2007 Mehta Paulette. Colorectal Cancer Screening in Arkansas. UAMS, CPH.
- 2007 Pitcock Jeffery. Neoteric Approach to Detecting Population Change in Discounting Parameters. UAMS, CPH.
- 2007 Montgomery Brooke. Religiosity and Sexual Behavior Among Individuals Living with HIV in the Southern United States. UAMS, CPH.
- 2006 Grant April. SAS Estimation of Standard Errors for Partial Least Squares (PLS) Regression. UAMS, CPH.
- 2006 McAuley Deirdre. Developing a Theory-based Fitness Challenge for Arkansas Cooperative Extension Agency Employees. UAMS, CPH.
- 2005 Pogribna Marta. Association Between Well-done Meat Consumption and Prostate Cancer Risk Among African-American Men. UAMS, CPH.
- 2004 Flick Ellie. Socioeconomic and Behavioral Risk Factors for Diabetes in the Arkansas Delta: Implications for Intervention. UAMS, CPH.
- 2004 Shaw Jennifer. Nonparametric Analysis in SAS on Longitudinal Data in Factorial Designs. UAMS, CPH

Preceptorship Faculty Advisor

- 2010 Joel Don Adams. Review of Generalized Estimating Equations and Quadratic Inference Functions. UAMS, CPH.
- 2010 Talbot Blake. A Case for the Stairs: Stair Usage in the CPH. UAMS, CPH.
- 2009 Wooten Terri. Comprehensive Review of Power Analysis Software for Logistic Regression. UAMS, CPH.
- 2007 Biddle Deborah. Analysis of Soil Adherence to Human Skin. UAMS, CPH.
- 2007 Chiaro Carrie. Implementing a Nutrition and Physical Activity Intervention in Arkansas Early Childhood Programs. UAMS, CPH.

Main Faculty Advisor

Josh Callaway (MPH, expected 2011)
Joel Don Adams (MPH, expected 2011)
Wooten Terri (MPH, 2010)
Biddle Deborah (MPH, 2007)
Pitcock Jeffery (MPH, 2007)

Publications

Dissertation

Bursac Z. (2003). Comparison of Two SAS Procedures for Longitudinal Data with Evaluation of SAS Experimental Procedure MI (Multiple Imputations). PhD Dissertation. University of Oklahoma.

Peer-reviewed Manuscripts Published/in Press (Total 45)

2010 (9)

Bronstein JM, Felix HC, **Bursac Z**, Stewart MK, Foushee HR, Klapow J. The Role of Family Planning Providers in Care for General Health Issues for Low Income Clients. Maternal and Child Health Journal: in press.

Lawsin C, Erwin DO, **Bursac Z**, Jandorf L. Heterogeneity in Breast and Cervical Cancer Screening Practices Among Female Hispanic Immigrants in the United States. J of Immigrant and Minority Health: in press.

Zraick RI, Kempster GB, Conner NP, Thibeault S, Klaben BK, **Bursac Z**, Thrush CR, Glaze L. Establishing Validity of the Consensus Auditory Perceptual Evaluation of Voice (CAPE-V). American Journal of Speech and Language Pathology: in press.

Love SJ, Sheffer CE, **Bursac Z**, Prewitt TE, Krukowski RA, West DS. Offer of a Weight Management Program to Weight-Concerned Smokers Improves Tobacco Dependence Treatment Outcomes. American Journal of Addictions: in press.

Sheffer CE, Stitzer M, Brandon T, **Bursac Z**. (2010). Effectiveness of Adding Relapse Prevention Materials to Telephone Counseling. Journal of Substance Abuse Treatment, 39(1): 71-77.

Felix HC, **Bursac Z**, Stewart MK, Bronstein J, Foushee HR, Klapov J. (2010). Referral and Referral Facilitation Behavior of Family Planning Provider for Women With HIV infection. J of Women's Health, 19(7): 1385-91.

Sisterhen LL, Sheffer CE, **Bursac Z**, Fischer EP. (2010). Rates of Enrollment in Smoking Cessation Services Following Fax Referrals from a Children's Hospital. Academic Pediatrics. Academic Pediatrics, 10(3): 200-204.

Mehta JL, **Bursac Z**, Mehta P, Bansal D, Fink L, Marsh J, Sukhija R, Sachdeva R. (2010). Racial Disparities in Prescriptions for Cardioprotective Drugs and Cardiac Outcomes in Veterans Affairs Hospitals. American Journal of Cardiology, 105(7): 1019-1023.

Phillips MM, Raczynski JM, West DS, Pulley L, **Bursac Z**, Gauss CH, Walker J. (2010). Changes in School Environment With Implementation of Arkansas Act 1220 of 2003. Obesity, 18(S1): S54-S61.

2009 (9)

Green P, Mays G, Kim K, Hager B, Goldsmith G, **Bursac Z**, Carter D, Duke K, Mehta P, Henry-Tillman R. (2009). Colorectal Cancer Screening in Arkansas: Implications for Cancer Prevention in Primary Care. *Journal of the Arkansas Medical Society*, 106(3): 66-68.

Ferguson AC, Coleman S, **Bursac Z**, Biddle D, Johnson W. (2009). In Vitro Soil Adherence Under Controlled Conditions of Pressure and Contact Time Using a Mechanical Chamber. *Journal of Applied Sciences Research*, 5(2): 232-243.

Ferguson AC, **Bursac Z**, Coleman S, Johnson W. (2009). Comparison of Computer Controlled Chamber Measurements for Multiple Contacts for Soil-Skin Adherence from Aluminum and Carpet Surfaces. *Human and Ecological Risk Assessment*, 15(4): 811-830.

Felix HC, Bronstein J, **Bursac Z**, Stewart MK, Foushee HR, Klapov J. (2009). Family Planning Provider Referral and Facilitation Behavior and Patient Follow-up for Abnormal Papanicolaou Smears. *Public Health Reports*, 124(5): 733-744.

Krukowski RA, West DS, Philyaw-Perez A, Bursac Z, Phillips MM, Raczynski JM. (2009). Overweight Children, Weight Based Teasing and Academic Performance. *International Journal of Pediatric Obesity*, 4(4): 274-280.

Ferguson AC, **Bursac Z**, Biddle D, Coleman S, Johnson W. (2009). Comparison of Computer Controlled Chamber Measurements for Soil-Skin Adherence from Aluminum and Carpet Surfaces. *Environmental Research*, 109(3): 207-214.

Kim KH, **Bursac Z**, DiLillo V, White D, West DS. (2009). Stress, Race and Body Weight. *Health Psychology*, 28(1): 131-135.

Felix HC, Wheeler G, Pulley L, Stewart KM, **Bursac Z**, Mays GP. (2009). Making Hospital Grounds Smoke Free: A Case Study of the Initiations of Arkansas Act 134 of 2005. *Journal of Public Health Management and Practice*, 15(2): E9-E15 .

Sukhija R, Marashdeh M, Prayaga VSS, **Bursac Z**, Kakar P, Bansal D, Sachdeva R, Kesan SH, Mehta JL. (2009). Effect of Statins on Fasting Plasma Glucose in Diabetic and Non-Diabetic Patients. *Journal of Investigative Medicine*, 57(3): 495-499.

2008 (11)

Bursac Z, Gauss CH, Williams DK, Hosmer DW. (2008). Purposeful Selection of Variables in Logistic Regression. *Source Code for Biology and Medicine*, 3(17).

Jandorf L, **Bursac Z**, Pulley L, Trevino M, Castillo A, Edwin DO. (2008). Breast and Cervical Cancer Screening Among Latinas Attending at Culturally Specific Educational Programs. *Progress in Community Health Partnerships: Research, Education and Action*, 2(3): 195-204.

Krukowski RA, West DS, Siddiqui NJ, **Bursac Z**, Phillips MM, Raczynski JM. (2008). Weight Based Teasing Does Not Increase When BMI Screening for Childhood Obesity is Conducted in Schools. *Archives of Pediatrics and Adolescent Medicine*, 162(10): 936-942. (RWJ Top 10 Policy Paper of the Year)

Ferguson AC, **Bursac Z**, Biddle D, Coleman S, Johnson W. (2008). Soil-skin Adherence from Carpet: Use of a Mechanical Chamber to Control Contact Parameters. *Journal of Environmental Science and Health, Part A*, 43(12): 1451-8.

Hauer-Jensen M, **Bursac Z**, Reed RC. (2008). Is Herniosis the Single Etiology of Saints Triad? *Hernia*, 13(1): 29-34.

Felix HC, West DS, **Bursac Z**. (2008). Impact of USPSTF Practice Guidelines on Clinician Weight Loss Counseling as Reported by Obese Patients. *Preventive Medicine*, 47(4): 394-397.

West DS, Prewitt TE, **Bursac Z**, Felix H. (2008). Weight Loss Experiences of Black, White and Hispanic Men and Women in Diabetes Prevention Program. *Obesity*, 16(6): 1413-20.

Sukhija R, **Bursac Z**, Kakar P, Fink L, Fort C, Satwani S, Aronow WS, Bansal D, Mehta JL. (2008). Effect of Statins on the Development of Renal Dysfunction. *American Journal of Cardiology*, 101(7): 975-979.

Budney AJ, Vandrey RG, Hughes JR, Thostenson JD, **Bursac Z**. (2008). A Comparison of Cannabis and Tobacco Withdrawal: Severity and Contribution to Relapse. *Journal of Substance Abuse Treatment*, 35(4): 362-368.

Eigenbrodt ML, **Bursac Z**, Tracy RE, Mehta JL, Rose KM, Couper DJ. (2008). B-Mode Ultrasound Common Carotid Artery Intima-Media Thickness and External Diameter: Cross-Sectional and Longitudinal Associations with Carotid Atherosclerotic in a Large Population Sample. *Cardiovascular Ultrasound*, 6(10): 1-11.

West DS, Raczynski JM, Phillips MM, **Bursac Z**, Gauss CH, Montgomery BE. (2008). Parental Recognition of Overweight among School-Age Children. *Obesity*, 16(3): 630-636.

2007 (6)

Tabatabai MA, **Bursac Z**, Williams DK, Singh KP. (2007). Hypertabastic Survival Model. *Theoretical Biology and Medical Modeling*, 4(40): 1-13.

Wheeler JG, Pulley L, Felix HC, **Bursac Z**, Siddiqui NJ, Stewart MK, Mays G, Gauss H. (2007). Impact of a Smoke Free Hospital Campus Policy on Employee and Consumer Behavior. *Public Health Reports*, 122(6): 744-752.

Angtuaco TL, Hopkins RH, DuBose TJ, **Bursac Z**, Angtuaco MJ, Ferris EJ. (2007). Sonographic Physical Diagnosis 101: Teaching Senior Medical Students Basic Ultrasound Scanning Skills Using a Compact Ultrasound System. *Ultrasound Quarterly*, 23(2): 157-160.

West DS, DiLillo V, **Bursac Z**, Gore S, Green P. Motivational Interviewing Enhances Outcomes of Behavioral Obesity Treatment for Overweight Women with Type 2 Diabetes. *Diabetes Care*, 30(5): 1081-1087.

Sukhija R, Fahdi I, Graza L, Aude W, Paccheo R, **Bursac Z**, Grant A, Mehta JL. (2007). Inflammatory Markers, Angiographic Severity of Coronary Artery Disease and Patient Outcome. *American Journal of Cardiology*, 99(7): 879-884.

Eigenbrodt ML, Sukhija R, Rose KM, Couper DJ, Tracy RE, Evans GW, **Bursac Z**, Mehta JL. (2007). Common Carotid Artery Wall Thickness and External Diameter as Predictors of Prevalent and Incident Cardiac Events in a Large Population Study. *Cardiovascular Ultrasound*, 5(11): 1-11.

2006 (4)

West DS, **Bursac Z**, Quimby D, Prewitt E, Spatz T, Nash C, Mays G, Eddings K. (2006). Self-Reported Sugar-Sweetened Beverage Intake Among College Students. *Obesity*, 14(10):1825-1831.

Mehta JL, **Bursac Z**, Hauer-Jensen M, Fort C, Fink LM. (2006). Comparison of Mortality Rates in Statin Users Versus Nonstatin Users in a United States Veteran Population. *American Journal of Cardiology*, 98(7):923-928.

Eigenbrodt ML, Couper DJ, Fuchs FD, Goff DC, Sanford C, Hutchinson RG, **Bursac Z**. (2006). Changing Drinking Pattern and Health Perception: A Longitudinal Study of Atherosclerosis Risk in Communities Study (1987-95). *Journal of Epidemiology and Community Health*, 60(4):345-350.

Eigenbrodt ML, **Bursac Z**, Rose KM, Couper DJ, Tracy RE, Evans GW, Brancati F, Mehta JL. (2006). Common Carotid Arterial (CCA) Interadventitial Distance (Diameter) as an Indicator of Damaging Effects of Age and Atherosclerosis, a Cross-sectional Study of the Atherosclerosis Risk in Community Cohort Limited Access Data (ARICLAD), 1987-89. *Cardiovascular Ultrasound*, 4(1):1-10.

2005 (2)

Tabatabai M, Williams DK, **Bursac Z**. (2005). Hyperbolic Growth Models: Theory and Application. *Theoretical Biology and Medical Modeling*, 2(14):1-13.

Eichner JE, Cravatt K, Beebe LA, Blevins KS, Stoddart ML, **Bursac Z**, Yeh F, Lee ET, Rhoades ER. (2005). Tobacco Use among American Indians in Oklahoma: An Epidemiologic View. *Public Health Reports*, 120(2):192-199.

2004 (1)

Eigenbrodt ML, **Bursac Z**, Eigenbrodt EP, Couper D, Mehta JL. (2004). Mathematical Estimation of the Potential Effect of Vascular Remodeling/Dilatation on B-Mode Ultrasound Intima-Medial Thickness. *Quarterly Journal of Medicine*, 97(11):729-737.

2003 (1)

Bursac Z, Campbell JE. (2003). From Risky Behaviors to Chronic Outcomes: Current Status and Healthy People 2010 goals for American Indians in Oklahoma. *Journal of Oklahoma State Medical Association*, 96(12):569-573.

2002 (2)

Campbell JE, **Bursac Z**, Yerkes A, Li P, Baker K. (2002). Self-Reported Mammography Screening Among Oklahoma Women Age 50 and Older: Oklahoma Behavioral Risk Factor Surveillance System. *Journal of Oklahoma State Medical Association*, 95(10):646-652.

Bursac Z, Campbell JE. (2002). Prevalence of Current Cigarette Smoking Among American Indians in Oklahoma: A Comparison. *Journal of Oklahoma State Medical Association*, 95(3):155-158.

Proceedings Papers (Total 15)

2011 (2)

Bursac Z, Williams D, Gauss CH, Moore P, Goodell M, Krukowski RA, West DS, Phillips MM, Raczynski JM. Comparison of Quadratic Inference Functions and Generalized Estimating Equations: Longitudinal Case Study of Act 1220 of 2003 Health Policy in Arkansas. *ASA Proceedings of the Joint Statistical Meetings, Section on Health Policy Statistics, Alexandria, VA: in press.*

Goodell M, **Bursac Z**, Gauss CH, Phillips MM. From Cross-Sectional to Cohort Data: The Creation of the Act 1220 Evaluation Longitudinal Databases. *ASA Proceedings of the Joint Statistical Meetings, Section for Statistical Programmer and Analysts, Alexandria, VA: in press.*

2010 (2)

Bursac Z. (2010). Creating Forest Plots from Pre-computed Data Using PROC SGPLOT and Graph Template Language. *SAS Global Forum Proceedings, Paper 195: 1-9.*

Williams DK, **Bursac Z**, Wooten T. (2010). Three Algorithms and SAS Macros for Estimating Power and Sample Size for Logistic Models with One or More Independent Variables of Interest in the Presence of Covariates. *ASA Proceedings of the Joint Statistical Meetings, Biometrics Section, Alexandria, VA: 3286-3293.*

2009 (3)

Northern J, Williams DK, **Bursac Z**. (2009). An Algorithm and Macro for Estimating Power and Sample Size for Logistic Models with One or More Independent Variables of Interest in the Presence of Covariates. *ASA Proceedings of the Joint Statistical Meetings, Biometrics Section, Alexandria, VA: 3476-3482.*

Wooten T, Williams D, **Bursac Z**. (2009). Joint Distribution of Parametric and Nonparametric Parameters in Longitudinal Factorial Designs. *ASA Proceedings of the Joint Statistical Meetings, Biometrics Section, Alexandria, VA: 1696-1701.*

Bursac Z, Tabatabai M, Williams DK. (2009). A Simulation Study of Performance of Hypertabastic and Hyperbolastic Survival Models in Comparison with Classic Survival Models. *ASA Proceedings of the Joint Statistical Meetings, Biometrics Section, Alexandria, VA: 617-622.*

2008 (1)

Bursac Z, Gauss CH, Williams DK, Hosmer DW. (2008). Purposeful Selection of Variables in Logistic Regression: Macro and Simulation Results. *ASA Proceedings of the Joint Statistical Meetings, Statistical Computing Section, Alexandria, VA: 1886-1891.*

2007 (4)

Williams DK, **Bursac Z**, Gauss CH, Hosmer DW. (2007). A SAS Macro for Hosmer and Lemeshow's Purposeful Selection Model Building Algorithm: Description and Performance. Proceedings of the South Central SAS Users Group.

Bursac Z, Gauss CH, Williams DK, Hosmer DW. (2007). A Purposeful Selection of Variables Macro for Logistic Regression. SAS Global Forum Proceedings, Paper 173: 1-5.

Bursac Z, Tabatabai M, Williams DK, Singh K. (2007). Hyperbolastic Models for Survival Data. ASA Proceedings of the Joint Statistical Meetings, Biometrics Section, Alexandria, VA: 188-190.

Grant A, Williams DK, **Bursac Z**, Curran G. (2007). SAS Estimation of Standard Errors for Partial Least Squares Regression. ASA Proceedings of the Joint Statistical Meetings, Biometrics Section, Alexandria, VA: 226-228.

2006 (2)

Bursac Z, Tabatabai M, Williams DK. (2006). Non-linear Hyperbolastic Growth Models and Applications in Cranofacial and Stem Cell Growth. ASA Proceedings of the Joint Statistical Meetings, Biometrics Section, Alexandria, VA: 190-197.

Bursac Z, Phillips MM, Gauss CH, Pulley L, West DS, Raczynski JM. (2006). Arkansas Act 1220 Evaluation: Multi-stage Stratified Surveys with PPS Sampling. ASA Proceedings of the Joint Statistical Meetings, Section on Health Policy Statistics, Alexandria, VA: 1529-1531.

2005 (1)

Bursac Z, Neas B. (2005). Comparison of Two SAS Procedures for Longitudinal Data with Evaluation of SAS Experimental Procedure MI (Multiple Imputations). ASA Proceedings of the Joint Statistical Meetings, Statistical Computing Section, Alexandria, VA: 2399-2406.

Manuscripts Under Review/Revision

Ferguson A, **Bursac Z**, Kern DF. Arkansas People Participating in Lead Education (APPLE): Results of a Lead-Safe Training Program. Public Health Reports: under review.

Tabatabai M, **Bursac Z**, Williams DK, Wayne E. Modeling of Tumor Growth of Ehrlich Carcinoma and Gene Expression of Hes1 Using the Oscillobolastic Model. International Transactions of Computational Biology and Bioinformatics: revised and resubmitted.

Philyaw Perez AG, Krukowski RA, Phillips MM, **Bursac Z**, Raczynski JM. Development and Evaluation of the School Cafeteria Nutrition Assessment (SCNA) Measures. Paper under revision.

White D, **Bursac Z**, DiLillo V, West DS. Body Image Dissatisfaction and Weight Loss Goals Among African American Women. Obesity: under review.

Ervin DO, Trevino M, Saad-Harfouche SG, **Bursac Z**, Rodriguez E, Jandorf L. Contextualizing Diversity and Culture within Cancer Control Interventions for Latinas: Changing Interventions, Not Cultures: *Social Science and Medicine*: under review.

Phillips MM, Raczynski JM, West DS, Pulley L, **Bursac Z**, Leviton LC. The Evaluation of Arkansas Act 1220 of 2003 to Reduce Childhood Obesity: Conceptualization, Design and Special Challenges. *American Journal of Evaluation*: under review.

Tabatabai M, **Bursac Z**, Williams DK, Wayne E . Mathematical Modeling of Stem Cell Proliferation. *Cell Proliferation*: under review.

Klapov J, Bronstein J, Felix H, Foushee HR, Stewart MK, **Bursac Z**. The Role of Family Planning Providers in Caring for General Health Problems among Low-Income Family Planning Clients. *Perspectives on Sexual and Reproductive Health*: under review.

Published Abstracts (Total 12)

Krukowski RA, West DS, Philyaw Perez A, **Bursac Z**, Phillips MM, Raczynski JM. (2008). The Role of Weight-Based Teasing in the Association Between Childhood Overweight and Academic Performance. *Obesity*, 16(suppl.): 94-95.

Sukhija R, **Bursac Z**, Sachdeva R, Sinha A, Mehta JL. (2007). Effect of 3-hydroxy-3-methylglutaryl-coa Reductase Inhibitors on Fasting Blood Sugar. *Journal of Investigative Medicine*, 55(1):S276.

Kim KH, **Bursac Z**, DiLillo V, White D, West DS. (2007). Stress, Race and Body Weight. *Annals of Behavioral Medicine*, 35:S165.

Sukhija R, **Bursac Z**, Sachdeva R, Sinha A, Mehta JL. (2007). Effect of 3-hydroxy-3-methylglutaryl-coa Reductase Inhibitors on Fasting Blood Sugar. *Journal of the American College of Cardiology*, 49(9):334A.

Sukhija R, **Bursac Z**, Mohandas B, Sachdeva R, Garza L, Aude YW, Sinha AK, Mehta JL. (2006). Effect of 3-hydroxy-3-methylglutaryl-CoA Reductase Inhibitors (Statins) on Renal Function. *Circulation*, 114(18):906S.

Eigenbrodt ML, **Bursac Z**, Evans GW, Couper DJ, Tracy RE, Mehta JL. (2006). Prediction of Incident Plaques/Shadowing Using B-MODE Ultrasound: Atherosclerosis Risk in Communities Limited Access Data (ARICLAD). *American Journal of Epidemiology*, 163(11):S2.

Eigenbrodt ML, **Bursac Z**, Evans GW, Couper DJ, Rose K, Tracy RE, Mehta JL. (2005). The Cross-sectional Association of B-mode Ultrasound Vascular Measures with Prevalent Coronary Heart Disease (CHD): the Atherosclerosis Risk in Communities (ARIC) Study Limited Access Data, 1987-1989. *Vascular Medicine*, 10(2):142.

Eigenbrodt ML, **Bursac Z**, Evans GW, Couper DJ, Tracy RE, Mehta JL. (2005). B-Mode Ultrasound Vascular Measures' Cross-Sectional Associations with Atherosclerotic Plaques/Shadowing: the Atherosclerosis Risk in Communities (ARIC) Study Limited Access Data, 1987-1989. *Vascular Medicine*, 10(2):141.

Raczynski JM, Phillips MM, West DS, Pulley L, **Bursac Z**. (2005). Overview of the Evaluation of Arkansas Act 1220 of 2003 to Reduce the Prevalence of Obesity among Children. *Annals of Behavioral Medicine*, 29:S109.

West DS, Pulley L, **Bursac Z**, Phillips MM. (2005). Creating Policy Change: Targeting Schools or School Districts? *Annals of Behavioral Medicine*, 29:S109.

West DS, DiLillo V, Green P, **Bursac Z**, Phillips M. (2004). Motivational interviewing increases adherence to a behavioral weight control program. *Obesity Research*, 12:A24.

Counts AL, Davidovitch Z, Neumann DA, Blick K, **Bursac Z**. (2002). Urinary markers in the skeletal and immune system of orthodontic patients. *Journal of Dental Research*, 81:A107.

Book Chapters

Campbell JE, **Bursac Z**, Perkins L. (2005). Behavioral Risk Factors, Chronic Diseases, Health Care Access and Health Status of Rural American Indian Women in Oklahoma. In: *Rural women's health: Linking mental, behavioral, and physical health*. Coward RT, Davis LA, Gold CH, Smicklas-Wright H, Thorndyke LE and Vondracek FW, eds. New York: Springer Publishing, pp. 163-178.

Davidovitch Z, Lee YJ, Counts AL, Park YG, **Bursac Z**. (2000). The immune system possibly modulates orthodontic root resorption. In: *Biological Mechanisms of Tooth Movement and Cranofacial Adaptation*. Davidovitch Z and Mah J, eds. Harvard Society for the Advancement of Orthodontics, Boston, MA, pp. 207-217.

Park YG, Okamoto Y, Gogen H, Shanfeld JL, Kang A, Chung B, **Bursac Z**, Counts AL, Davidovitch Z. (2000). Inflammatory mediators in tooth movement: I. Interleukin-1 β . In: *Biological Mechanisms of Tooth Movement and Cranofacial Adaptation*. Davidovitch Z and Mah J, eds. Harvard Society for the Advancement of Orthodontics, Boston, MA, pp. 147-160.

Technical Reports

Raczynski JM, Phillips MM, **Bursac Z**, Pulley L, West DS, Craig RL, Evans VL, Gauss CH, Ivory JR, Montgomery BE, Phylia Perez AG, Talbot BA, Walker J. (2008). Year Four Evaluation: Arkansas Act 1220 to Combat Childhood Obesity. University of Arkansas for Medical Sciences, College of Public Health.

Raczynski JM, Phillips MM, **Bursac Z**, Kahn RA, Pulley L, West DS, Craig RL, Elliot SE, Evans VL, Gauss CH, Montgomery BE, Phylia AG. (2007). Year Three Evaluation: Arkansas Act 1220 to Combat Childhood Obesity. University of Arkansas for Medical Sciences, College of Public Health.

Raczynski JM, Phillips MM, **Bursac Z**, Kahn RA, Pulley L, West DS, Birdsong M, Elliot S, Evans V, Gauss CH, Louvring M, Siddiqui NJ, Walker J. (2006). Year Two Evaluation: Arkansas Act 1220 to Combat Childhood Obesity. University of Arkansas for Medical Sciences, College of Public Health.

Raczynski JM, Phillips MM, **Bursac Z**, Pulley L, West DS, Birdsong M, Evans V, Gauss CH, Louvring M, Walker J. (2005). Establishing a Baseline to Evaluate Act 1220 of

2003: An Act of the Arkansas General Assembly to Combat Childhood Obesity. University of Arkansas for Medical Sciences, College of Public Health.

Bursac Z, Tutor CG, Campbell JE. (2004). Behavioral Risk Factors Among American Indians in Oklahoma: Report on REACH 2010 Native American Behavioral Risk Factor Survey and the Non-Phone Behavioral Risk Factor Survey. Oklahoma State Department of Health, Chronic Disease Service.

Tutor C, **Bursac Z**. (2002). Update on Diabetes in Oklahoma: 2002. Oklahoma State Department of Health, Chronic Disease Service, 3(3).

Tutor C, **Bursac Z**, Terrell D. (2002). Diabetes and Foot Disease in Oklahoma. Oklahoma State Department of Health, Chronic Disease Service, 3(2).

Bursac Z, Campbell JE, Yerkes A. (2002). Overweight and Obesity in Oklahoma and the US. Oklahoma State Department of Health, Chronic Disease Service, 3(1).

Campbell JE, **Bursac Z**, Yerkes A. (2001). Cardiovascular Disease in Oklahoma: An Overview. Oklahoma State Department of Health, Chronic Disease Service, 2(1).

Campbell JE, **Bursac Z**, Yerkes A. (2001). Female Breast Cancer in Oklahoma. Oklahoma State Department of Health, Chronic Disease Service, 1(4).

Beck JK, Eshelman LK, Logan KJ, **Bursac Z**, Page M, Campbell JE, Yerkes A, Copeland KC. (2000). Type 2 Diabetes Among Oklahoma Children and Adolescents: an Emerging Epidemic. Oklahoma State Department of Health and Children's Hospital Physicians, Chronic Disease Service, 1(3).

Bursac Z. (2000). Prostate Cancer in Oklahoma. Oklahoma State Department of Health, Chronic Disease Service, 1(2).

Nationally Accepted Abstracts and Invited Presentations (Total 92)

*Indicates invited talks and/or symposium; ^P Indicates poster presentation

2010 (6)

^P**Bursac Z**, Williams D, Gauss CH, Moore P, Goodell M, Krukowski RA, West DS, Phillips MM, Raczynski JM. Comparison of Quadratic Inference Functions and Generalized Estimating Equations: Longitudinal Case Study of Act 1220 of 2003 Health Policy in Arkansas. Joint Statistical Meetings, Vancouver, Canada.

^PGoodell M, **Bursac Z**, Gauss CH, Phillips MM. From Cross-Sectional to Cohort Data: The Creation of the Act 1220 Evaluation Longitudinal Databases. Joint Statistical Meetings, Vancouver, Canada.

Prewitt TE, Lensing S, **Bursac Z**, Phillips MM. (2010). Tracking Overweight Emergence in a National Sample of Children Between Kindergarten and Fifth Grade: Association with Household Food Stamp Participation. International Society for Behavioral Nutrition and Physical Activity, Minneapolis, MN.

*Williams DK and **Bursac Z**. (2010). Three Algorithms and SAS Macros for Estimating Power and Sample Size for Logistic Models with One or More Independent

Variables of Interest in The Presence Of Covariates. The Kansas-Western Missouri Chapter Annual Symposium and Short Course, Kansas City, MO.

^P**Bursac Z.** (2010). Creating Forest Plots from Pre-computed Data using PROC SGPLOT and Graph Template Language. SAS Global Forum, Seattle, WA.

Mohandas B, Agrawal M, Gobal F, Singla S, **Bursac Z**, Bissett JK, Mehta JL, Sachdeva R. (2010). Relationship of Stenosis length and diameter to fractional flow reserve in coronary artery disease. American Federation for Medical Research, New Orleans, LA.

2009 (5)

Goodell M, Phillips MM, Gauss CH, Pulley L, **Bursac Z**, Walker J, Raczynski JM. (2009). Characteristics of Survey Non-responders Among School Administrators: Insights for Improving Response Rates. APHA, Philadelphia, PA.

*Ferguson AC, **Bursac Z**, Coleman S, Johnson W. (2009). Comparison of Computer Controlled Chamber Measurements for Multiple Contacts for Soil-Skin Adherence from Aluminum and Carpet Surfaces. International Symposium on Industrial Pharmaceutics and Clinical Pharmacology, Guangzou, China.

Erwin D, **Bursac Z**, Pulley L, Trevino M, Castillo A, Colon J, Harfouche F, Jandorf L. (2009). Outcomes from a Multi-site Intervention to Increase Screening for Latinas. American Association for Cancer Education, Houston, TX.

^PWilliams KW, **Bursac Z**, Wooten T. (2009). Three Algorithms and Macros for Estimating Power and Sample Size for Logistic Models with One or More Independent Variables of Interest in the Presence of Covariates. Joint Statistical Meetings, Washington, DC.

^PMehta JL, **Bursac Z**, Mehta P, Marsh JD, Sukhija R, Sachdeva R. (2009). Racial Disparities in Prescriptions for Cardioprotective Drugs and Coronary Bypass Surgery, and Patient Outcome in Veterans Healthcare System. American College of Cardiology, Orlando, FL.

2008 (10)

Phillips MM, Philyaw Perez A, Raczynski JM, Pulley L, West DS, **Bursac Z**, Gauss CH, Walker J. (2008). Differences in Response to Obesity Prevention and Control Activities by Weight Status: Data from the Evaluation of Arkansas Act 1220. APHA, San Diego, CA.

Philyaw Perez A, Phillips MM, Raczynski JM, Pulley L, West DS, **Bursac Z**, Gauss CH, Walker J. (2008). School Beverage Vending Access and Purchasing Patterns Among Arkansas Adolescents. APHA, San Diego, CA.

^PPhillips MM, Raczynski JM, Pulley L, West DS, **Bursac Z**, Gauss CH, Walker J, Craig R, Ivory J, Philyaw Perez A. (2008). Did We Get What We Expected? Measuring Body Mass Index in Schools. APHA, San Diego, CA.

Ivory J, Phillips MM, West DS, **Bursac Z**, Pulley L, Gauss CH, Walker J, Raczynski JM. (2008). Parental Knowledge and Beliefs About Childhood Obesity Related Co-Morbidities. APHA, San Diego, CA.

Talbot B, Trevino M, **Bursac Z**, Williams DK. (2008). Joint Evolution of Regression Methods and Computing Technology in Public Health. APHA, San Diego, CA.

Krukowski RA, West DS, Philyaw Perez A, **Bursac Z**, Phillips MM, Raczynski JM. (2008). The Role of Weight Based Teasing in the Association Between Childhood Overweight and Academic Performance. NAASO The Obesity Society Annual Meeting, Phoenix, AZ.

^PWooten T, Williams DK, **Bursac Z**. (2008). Joint Distribution of Parametric and Nonparametric Parameters in Longitudinal Factorial Designs. Joint Statistical Meetings, Denver, CO.

^PNorthern J, Williams DK, **Bursac Z**. (2008). An Algorithm for Estimating Power and Sample Size for Logistic Models with One or More Independent Variables of Interest. Joint Statistical Meetings, Denver, CO.

^P**Bursac Z**, Tabatabai M, Williams DK. (2008). A Simulation Study of Performance of Hypertabastic and Hyperbolastic Survival Models in Comparison with Classic Survival Models. Joint Statistical Meetings, Denver, CO.

^PWalker J, Phillips MM, Raczynski JM, **Bursac Z**, Gauss H, Philyaw Perez A, Craig R. (2008). Arkansas School Districts Continue to Change Policies 4 Years after Legislation to Improve Nutrition and Physical Activity. Society for Behavioral Medicine, San Diego, CA.

2007 (22)

Felix HC, Wheeler G, Pulley LV, Stewart MK, **Bursac Z**, Mays GP, Mackey DM. (2007). Making Hospital Grounds Smoke Free: A Case Study of Arkansas Act 134 of 2005. International Society for Prevention of Tobacco Induced Disease, Little Rock, AR.

^PJandorf L, **Bursac Z**, Pulley L, Trevino M, Castillo A, Erwin DO. (2007). Predictors of Pap Screening among Immigrant Spanish-speaking Latinas Following Attendance at an Educational Program. American Association for Cancer Research, Atlanta, GA.

^PErwin DO, **Bursac Z**, Pulley L, Trevino M, Castillo A, Jandorf L. (2007). Cultural Constructs Critical to Breast and Cervical Cancer Interventions for Diverse Latino Communities. American Association for Cancer Research, Atlanta, GA.

Zraick R, Klaben B, Connor N, Thiebault S, Kempster G, Glaze L, Thrush C, **Bursac Z**. (2007). Results of the CAPE-V validation study. American Speech Language Hearing Association, Boston, MA.

^PPhilyaw-Perez AG, Phillips M, Cornell C, Mays G, **Bursac Z**. (2007). Web-based state employee worksite wellness program: Nutrition findings at one-year follow-up. APHA, Washington, DC.

Dockter NE, Stewart MK, Koffin JF, Abdul-Ahad G, Alford K, Anderson T, Leistner RR, **Bursac Z**. (2007). Use of a photography exhibit to raise awareness of the public health impact of the war in Iraq. APHA, Washington, DC.

^PMontgomery BE, Stewart KE, Richter J, **Bursac Z**, Walker J. (2007). Religiosity and sexual behavior among individuals living with HIV in America's "Bible belt". APHA, Washington, DC.

Montgomery BE, West DS, Raczynski JM, Phillips MM, Gauss CH, **Bursac Z**, Walker J. (2007). Economic and educational factors do not explain racial differences in the accuracy of parental perception of overweight in their child. APHA, Washington, DC.

Phillips MM, Raczynski JM, West DS, Pulley L, **Bursac Z**, Gauss CH, Walker J, Montgomery BE, Evans VL, Craig R, Philyaw A. (2007). No evidence of unintended consequences following passage of Arkansas obesity legislation. APHA, Washington, DC.

Phillips MM, Raczynski JM, West DS, Pulley L, **Bursac Z**, Gauss CH, Evans VL, Philyaw A, Montgomery BE, Walker J, Craig R. (2007). School environmental changes resulting from Arkansas legislation to combat childhood obesity. APHA, Washington, DC.

Philyaw A, Phillips MM, Gauss CH, Evans VL, **Bursac Z**, Raczynski JM. (2007). Parental actions for child health three years after Arkansas initiated BMI reports. APHA, Washington, DC.

Ferguson A, Coleman S, Biddle D, **Bursac Z**, Wayne J. (2007). Soil Adherence Using a Mechanical Chamber and Interface to Control Environmental and Contact Conditions. International Society of Exposure Analysis, Durham, NC.

Jandorf L, **Bursac Z**, Pulley L, Trevino M, Castillo A, Erwin DO. (2007). Correlates of Adherence for Cervical Cancer Screening by Diverse Spanish Speaking Latinas Following Education through Esperanza y Vida. American Association for Cancer Education, Birmingham, AL.

^PWest DS, DiLillo V, **Bursac Z**. (2007). Do African-American Women in a Behavioral Obesity Program Lose More Weight With and African-American Group Leader? NAASO The Obesity Society Annual Meeting, New Orleans, LA.

^PWilliams DK, **Bursac Z**, Gauss CH, Hosmer DW. (2007). A SAS Macro for Hosmer and Lemeshow's Purposeful Selection Model Building Algorithm: Description and Performance. South Central SAS Users Group, Austin, TX.

***Bursac Z**, Gauss CH, Williams DK, Hosmer D. (2007). Purposeful Selection of Variables in Logistic Regression. The Health Research, Policy and Health Promotion Conference, UAMS, COPH, Little Rock, AR.

Bursac Z, Gauss CH, Williams DK, Hosmer D. (2007). Purposeful Selection of Variables in Logistic Regression: Macro and Simulation Results. Joint Statistical Meetings, Salt Lake City, UT.

^PFelix H, **Bursac Z**, Stewart K, Bronstein J, Foushee R, Klapov J. (2007). Health Care Referral Practices and Facilitation Activities of Family Planning Providers. AcademyHealth Annual Research Meeting, Orlando, FL.

Erwin DO, Trevino M, **Bursac Z**, Jandorf L, Horowitz C, Feliciano-Libid L. (2007). Diabetes and Cancer: Latina Constructions of Disease and Illness. Society for Applied Anthropology, Tampa, FL.

Bursac Z, Gauss CH, Williams DK, Hosmer D. (2007). A Purposeful Selection of Variables Macro for Logistic Regression. SAS Global Forum, Orlando, FL.

Sukhija R, **Bursac Z**, PhD, Sachdeva R, Sinha A, Mehta JL. (2007). Effect of 3-hydroxy-3-methylglutaryl-CoA reductase inhibitors (statins) on fasting plasma glucose. American College of Cardiology, New Orleans, LA.

Sukhija R, Fahdi I, Garza L, Fink L, Scott MA, Aude W, Pacheco R, **Bursac Z**, Grant A, Mehta JL. (2007). Inflammatory Markers, Angiographic Severity of Coronary Artery Disease and Patient Outcome. American College of Cardiology, New Orleans, LA.

2006 (20)

^PNtende HW, **Bursac Z**, Zohoori N, Coney-Tinzie T, Jones B, Givens H, Jones CA. (2006). Estimated GFR Using Cystatin C and MDRD in an African American Sample. American Society for Nephrology, San Diego, CA.

^PHerbert Z, Jones C, **Bursac Z**, Woods G, Tricot G. (2006). Comparison of Five Measures of Estimated GFR in Patients with Multiple Myeloma. American Society for Nephrology, San Diego, CA.

Sukhija R, **Bursac Z**, Mohandas B, Sachdeva R, Garza L, Smith E, Sinha AK, Mehta JL. (2006). Effect of 3-hydroxy-3-methylglutaryl-CoA reductase inhibitors (statins) on renal function. AHA Scientific Session, Chicago, IL.

*Siddiqui NJ, West DS, Phillips M, **Bursac Z**, Raczynski J. (2006). Weight-based teasing two years after schools in Arkansas initiated annual BMI screenings. APHA Annual Meeting (Symposium), Boston, MA.

*Evans VL, Phillips M, Gauss HC, Birdsong MC, **Bursac Z**, Raczynski JM. (2006). Who's first in line: Influencing student health through school policy change. APHA Annual Meeting (Symposium), Boston, MA.

Wheeler GJ, Pulley L, Felix HC, **Bursac Z**, Siddiqui NJ, Stewart MK, Mays G, Gauss CH, Richter J. (2006). Employee and consumer response to a smoke-free hospital campus policy. APHA Annual Meeting, Boston, MA.

Felix HC, Stewart MK, **Bursac Z**, Bronstein J. (2006). Linking Family Planning Clients to Primary and Specialty Care. APHA Annual Meeting, Boston, MA.

^PGoldsmith G, Bias M, Kegowicz C, Rutkowski RH, Wong V, **Bursac Z**. (2006). Colorectal Cancer Screening in Family Medicine Patients: A Pilot Study. American Academy of Cancer Education, San Diego, CA.

^P**Bursac Z**, Tabatabai M, Williams DK, Singh K. (2006). A Hyperbolastic Model for Survival Data. Joint Statistical Meetings, Seattle, WA.

^PGrant A, Williams DK, **Bursac Z**, Curran G. SAS Estimation of Standard Errors for Partial Least Squares Regression. Joint Statistical Meetings, Seattle, WA.

***Bursac Z**, Tabatabai M, Williams DK. (2006). Hyperbolastic Models: Overview. University of Oklahoma Health Sciences Center, Symposium Sponsored by Department of Biostatistics and Epidemiology, Oklahoma City, OK.

Eigenbrodt ML, **Bursac Z**, Evans G, Cooper DJ, Tracy RE, Mehta JL. (2006). Prediction of Incident Plaques/Shadowing Using B-Mode Ultrasound: Atherosclerosis Risk in Communities Limited Access Data (ARICLAD). World Congress on Epidemiology, Seattle, WA.

Bursac Z. (2006). Cystatin C as a Marker of Renal Failure: Visualizing Matched Multi-level Categorical Data through Sieve Diagrams and Agreement Charts. University of Arkansas for Medical Sciences, Sponsored by the Department of Biostatistics, Little Rock, AR.

Erwin DO, Jandorf L, Johnson VA, **Bursac Z**, Trevino M, Feliciano L. (2006). Preliminary Results of Esperanza y Vida as a Breast Cancer Intervention for Imigrant Latinal. SG Komen Foundation Mission Conference, Washington, DC.

***Bursac Z**, Tabatabai M, Williams DK. (2006). Hyperbolastic Growth Models and Some Applications. University of Arkansas at Little Rock, Sponsored by Department for Mathematics and Statistics (Colloquium), Little Rock, AR.

Phillips MM, Raczynski JM, West DS, Pulley L, **Bursac Z**, Leviton L. (2006). State-wide Surveys of Principals, Superintendents, Parents, and Adolescents Strongly Suggest Acceptability of Arkansas Act 1220 of 2003 to Reduce Childhood Obesity. Annual Conference on Cardiovascular Disease Epidemiology and Prevention, Phoenix, AZ.

*West DS, Raczynski JM, Phillips M, Gauss CH, **Bursac Z**, Pulley L. (2006). BMI Screening Significantly Improves Parent Recognition of Overweight. Society of Behavioral Medicine (Symposium), San Francisco, CA.

*Walker J, Raczynski JM, Phillips MM, Kahn RF, West DS, Evans VL, **Bursac Z**. (2006). Physicians Response to Childhood Obesity. Society of Behavioral Medicine (Symposium), San Francisco, CA.

^PPulley L, Gauss CH, Evans VL, **Bursac Z**, Raczynski JM, Phillips MM. (2006). Correlation of Parental Proxy and Adolescent Self-report of Physical Activity. Society of Behavioral Medicine, San Francisco, CA.

Siddiqui N, West DS, **Bursac Z**, Phillips MM, Birdsong M, Raczynski JM. (2006). Weight-based Teasing does not Increase when Schools Conduct BMI Screening. Society of Behavioral Medicine, San Francisco, CA.

2005 (9)

Bursac Z, Tabatabai M, Williams DK. (2005). Non-linear Hyperbolastic Models and Applications in Cranofacial and Stem Cell Growth. Joint Statistical Meetings, Minneapolis, MN.

^P**Bursac Z**, Phillips M, Gauss CH, Pulley L, West DS, Raczynski J. (2005). Arkansas Act 1220 Evaluation: Multi-stage Stratified Surveys with PPS Sampling. Joint Statistical Meetings, Minneapolis, MN.

***Bursac Z**, Tabatabai M, Williams DK. (2005). Hyperbolastic Growth Models: Theory and Application. Research Institute Rudjer Boskovic, Sponsored by Department for Molecular Biology and Experimental Oncology, Zagreb, Croatia.

^PEigenbrodt ML, **Bursac Z**, Evans G, Cooper DJ, Tracy RE, Mehta JL. (2005). B-Mode Ultrasound Vascular Measures' Cross-Sectional Association with Atherosclerotic Plaques/Shadowing: the Atherosclerosis Risk in Communities (ARIC) Study Limited Access Data, 1987-1989. Society for Vascular Medicine and Biology, Chicago, IL.

^PEigenbrodt ML, **Bursac Z**, Evans G, Cooper DJ, Rose K, Tracy RE, Mehta JL. (2005). B-Mode Ultrasound Vascular Measures' Cross-Sectional Association with CHD: the Atherosclerosis Risk in Communities (ARIC) Study Limited Access Data, 1987-1989. Society for Vascular Medicine and Biology, Chicago, IL.

*Raczynski JM, Phillips MM, West DS, Pulley L, **Bursac Z**. (2005) Overview of the Evaluation of Arkansas Act 1220 of 2003 to Reduce the Prevalence of Obesity Among Children. Society of Behavioral Medicine Annual Conference (Symposium), Boston, MA.

*West DS, Pulley L, **Bursac Z**, Phillips MM. (2005). Creating Policy Change: Targeting Schools or School Districts? Society of Behavioral Medicine Annual Conference (Symposium), Boston MA.

West DS, Raczynski JM, Phillips M, **Bursac Z**, Pulley L, Gauss CH. (2005). Do Parents Recognize when their Children are Overweight? Society of Behavioral Medicine Annual Conference (Rapid communication). Boston, MA.

***Bursac Z**, Tabatabai M, Williams DK. (2005). Non-linear Hyperbolastic Growth Models and their Applications. University of Arkansas for Medical Sciences. College of Public Health. Health Research, Policy and Health Promotion Conference. Little Rock, AR.

2004 (7)

West DS, DiLillo V, Greene P, **Bursac Z**, Phillips M. (2004). Motivational Interviewing Increases Adherence to a Behavioral Weight Control Program. North American Society for the Study of Obesity, Las Vegas, NV.

Bursac Z. (2004). SAS ODS: Review, Updates & Demo. University of Arkansas for Medical Sciences, Department of Biostatistics, Sponsored by Biostatistics Journal Club, Little Rock, AR.

***Bursac Z**. (2004). Math, Computer Science & (Bio)statistics: Integration and Application in Biomedicine & Public Health. Cameron University, Department of Mathematical Sciences, Sponsored by MathCom and Pi Mu Epsilon, Lawton, OK.

Bursac Z, Neas B. (2004). Comparison of Two SAS Procedures for Longitudinal Data with Evaluation of SAS Experimental Procedure MI (Multiple Imputations). Joint Statistical Meetings, Toronto, ON.

Eigenbrodt ML, **Bursac Z**, Cooper DJ, Tracy RE, Mehta JL. (2004). Normal Right Common Carotid Arterial Diameters in Men and Women, Ages 45 to 49: Comparison to a Population Sample. Society of Atherosclerosis Imaging Third International Meeting, New Orleans, LA.

Eigenbrodt ML, Eigenbrodt EP, **Bursac Z**, Cooper DJ, Tracy RE, Mehta JL. (2004). Mathematical Estimation of Arterial Wall Cross-sectional Area from B-Mode Ultrasound. Society of Atherosclerosis Imaging Third International Meeting, New Orleans, LA.

West DS, DiLillo V, Thomas S, Greene P, **Bursac Z**. (2004). Social Support for Eating and Exercise Changes Among Overweight African American Women with Type II Diabetes. Society of Behavioral Medicine Annual Conference, Baltimore, MD.

2003 (2)

^P**Bursac Z**, Campbell JE. (2003). Baseline Results from the Oklahoma Native American REACH 2010 Cohort. CDC Diabetes Translation Conference, Boston, MA.

Counts AL, Currier GF, Nanda RS, **Bursac Z**. (2003). Orthodontic assessment using Oklahoma Outcomes Index (OKOI). International Association for Dental Research, San Antonio TX.

2002 (2)

Counts AL, Davidovitch Z, Neumann D, Blick K, **Bursac Z**. (2002). Urinary Markers in the Skeletal and Immune System of Orthodontic Patients. International Association for Dental Research, San Diego, CA.

Bursac Z, Campbell JE, Page M. (2002). Telephone Survey of American Indians without Residential Phone Service, using BRFSS-like Instrument in Oklahoma: Results. 16th National Conference on Chronic Disease Prevention and Control, Atlanta, GA.

2001 (6)

Campbell JE, **Bursac Z**, Perkins L, Burkhart R. (2001). Strategies for Success in a Multi-Level Community Intervention to Reduce Disparities: Oklahoma REACH 2010. CDC Cardiovascular Disease Prevention Conference, Atlanta, GA.

Bursac Z, Campbell JE. (2001). Cardiovascular Diseases and Their Risk Factors Among Native Americans in Oklahoma: Oklahoma REACH 2010. CDC Cardiovascular Disease Prevention Conference, Atlanta, GA.

Page M, Campbell JE, **Bursac Z**, (2001). Telephone Survey of American Indians without Residential Phone Service, using BRFSS-like Instrument in Oklahoma: Methods. CDC Diabetes Translation Conference, Seattle, WA.

Page M, Campbell JE, **Bursac Z.** (2001). IRB Processes at the Tribal Level. CDC Diabetes Translation Conference, Seattle, WA.

^P**Bursac Z,** Campbell JE, Page M. (2001). Modeling of Diabetes and Risk Factors Among American Indians in Oklahoma. CDC Diabetes Translation Conference, Seattle, WA.

***Bursac Z.** (2001). Obesity and Physical Inactivity: Growing Epidemics Among all Ages. Oklahoma Public Health Association Conference, Oklahoma City, OK.

2000 (2)

Bursac Z, Smith D, Page M. (2000). BMI, Exercise, and Diabetes Among American Indians in Oklahoma. 15th National Conference on Chronic Disease Prevention and Control, Washington, DC.

***Bursac Z,** Page M. (2000). Epidemiology and Surveillance of Diabetes in Oklahoma. Oklahoma Pharmacist Association Annual Conference, Oklahoma City, OK.

1998 (1)

Bursac Z, Jankovic D. (1998). Dialogue with a Computer or Math Reliability? Festival III, Cameron University, Lawton, OK.

Research Support

Current

Exploratory National Center for Minority Health and Health Disparity Research in Arkansas

(NCMHHD 1 P20 MD00239-01) **Raczynski JM (PI)** **2007-2012**
\$6,557,720.00

Goal: While there is main core project and several pilot projects proposed under this center grant, the goal of the core research project is translational research of Diabetes Prevention Program into the community setting.

Role: Investigator (20%)

Implementation and Evaluation of Arkansas Act 1220 of 2003 YR 4-8

(R.W. Johnson Foundation 61551) **Raczynski JM (PI)** **2007-2012**
\$3,993,566.00

Goal: This five year continuation evaluates longitudinally the impact of recent Arkansas legislation mandating removal of vending machines from elementary schools, provision of obesity risk health information to parents of all elementary and secondary school children, and the establishment of a Child Health Advisory Committee at the state and district levels. Repeated phone-based surveys of a random, representative sample of parents will examine the change in impact on children and families, and surveys of all school principals and district superintendents will capture changes in administrative level impact.

Role: Investigator (20%)

Translation of Obesity and Cognition Research in Rural State via Senior Centers

(CDC 1 R18 DP001145-01) **West DS (PI)** **2007-2010**
\$1,349,172

Goal: This cluster randomized clinical trial will evaluate the translation of Diabetes Prevention Program intervention to population of senior citizens with respect to weight loss. Active control consists of cognitive training which will also be evaluated as a secondary hypothesis.

Role: Investigator (5%)

Investigating a Breast and Cervical Cancer Intervention for Immigrant Latinas

(American Cancer Society) **Erwin D (PI)** **2007-2011**
\$2,367,764.00

Goal: This four year project evaluates the effectiveness of Esperanza Y Vida intervention on increase in breast cancer knowledge, screening and intention to get screening among immigrant Latina women in Arkansas and New York. This study is a large scale evaluation of this intervention based on the results from S.G. Komen funded pilot study.

Role: Investigator (10%)

Arkansas Cancer Community Network

(NCI 211 G1-11599-01) **Henry-Tillman R (PI)** **2005-2010**
\$4,028,161.00

Goal: This five year project is oriented toward building a comprehensive cancer network across Arkansas with the goal of engaging more junior investigators and bringing in more cancer research and prevention funding to the state. Also several pilot studies are conducted under the umbrella of this cancer network.

Role: Investigator (12%)

Colorectal Cancer Education and Screening Program

(NCI 1R24MD002805-01) **Henry-Tillman R (PI)** **2008-2013**
\$2,483,642.00

Goal: This project uses a community-based participatory research approach to develop and evaluate strategies to promote the use of Fecal Occult Blood Tests to screen for colorectal cancer in a medically underserved and predominantly African American area of the Arkansas Mississippi River Delta. A randomized design is used to compare the effects of usual care, general risk information presented by a health professional, and a theory-based behavioral intervention presented by a lay role model.

Role: Investigator (5%)

Marianna Examination Survey for Hypertension

(Arkansas Minority Health Commission) **Zohoori N (PI)** **2008-2010**
\$75,000.00

Goal: This ongoing project estimates the extent of undiagnosed hypertension and kidney disease in the City of Marianna, Arkansas, with a goal of informing policies and interventions to increase hypertension control and decrease stroke mortality in Arkansas.

Role: Investigator (10%)

Racial Attitudes Survey in Arkansas

(Arkansas Minority Health Commission) **Nash C (PI)** **2009-2010**
\$15,000.00

Goal:

Role: Investigator (5%)

Completed

Development and Efficacy Test of Computerized Treatment for Marijuana Dependence

(NIDA) **Budney A (PI)** **2007-2009**

Goal: Comparing effect of computerized interventions on marijuana abstinence.

Role: Investigator (5%)

Clinical Significance of Marijuana Withdrawal

(NIDA RO1 DA 012471-06) **Budney A (PI)** **2006-2008**

\$542,492.00

Goal: This study has the primary goal of comparing marijuana withdrawal symptoms to smoking withdrawal symptoms.

Role: Investigator (5%)

Colorectal Cancer Screening Demonstration Project

(State of Arkansas contract) **Green P (PI)** **2005-2007**

\$1,000,000.00

Goal: This two year demonstration project has the primary goal of documenting colorectal screening and prevention resources in the state of Arkansas. A research component of the project will compare two educational methods in their efficacy to motivate screening behavior through a randomized clinical trial.

Role: Investigator (8%)

How Well Do Family Planning Providers Link Their Low-Income Clients to Primary and /or Specialty Care

(DHHS Contract) **Stewart MK (PI)** **2005-2007**

\$588,377.00

Goal: This two year project evaluates the relationship between private/public health care providers and their ability to refer family planning clients to primary and specialty care as well as predictors of referral practices. This study is being conducted in Arkansas and Alabama.

Role: Investigator (10-15%)

Implementation and Evaluation of Arkansas Act 1220 of 2003 YR 2-3

(R.W. Johnson Foundation 050262) **Raczynski JM (PI)** **2005-2007**

\$1,118,963.00

Goal: This two year continuation evaluates longitudinally the impact of recent Arkansas legislation mandating removal of vending machines from elementary schools, provision of obesity risk health information to parents of all elementary and secondary school children, and the establishment of a Child Health Advisory Committee at the state and district levels. Repeated phone-based surveys of a random, representative sample of parents will examine the change in impact on children and families, and surveys of all school principals and district superintendents will capture changes in administrative level impact.

Role: Investigator (20%)

A Study of the Effectiveness of Esperanza y Vida: A Breast Cancer Intervention for Immigrant Latinas

(S.G. Komen Foundation) **Erwin D (PI)** **2005-2007**

\$250,000.00

Goal: This two year pilot project evaluates the effectiveness of Esperanza Y Vida intervention on increase in breast cancer knowledge, screening and intention to get screening among immigrant Latina women in Arkansas and New York. This is smaller scale pilot study designed to inform the direction of the intervention effect and larger scale study.

Role: Investigator (5-10%)

Interim Evaluation of the Women's Health Waiver

(DHHS Contract)

Stewart MK (PI)

2006-2007

\$141,595.00

Goal: This annual evaluation measures the effect of family planning services on prevention of unplanned pregnancies and economic benefits of it.

Role: Investigator (5%)

Improving Vascular Measures of Cardiovascular Disease

(R21 HL076833)

Eigenbrodt M (PI)

2004-2006

Goal: This two year project tests new set of cardiovascular measures based on existing ones from the ARIC study in order to improve predictability of atherosclerosis and other cardiovascular outcomes.

Role: Investigator (15-30%)

Marianna Examination Survey for Hypertension

(Arkansas Minority Health Commission)

Jones C (PI)

2005-2006

Goal: This one year project estimates the extent of undiagnosed hypertension and kidney disease in the City of Marianna, Arkansas, with a goal of informing policies and interventions to increase hypertension control and decrease stroke mortality in Arkansas.

Role: Investigator (10%)

Get Healthy UAMS Evaluation

(Arkansas Department of Health)

Raczynski JM (PI)

2004-2005

Goal: This two year project evaluated the smoke free policy on UAMS campus by collecting data from multiple sources, one of which was a random pre-post survey of employee attitudes, knowledge and behaviors as it relates to smoking.

Role: Biostatistician (10%)

Obesity Treatment and NIDDM in Black and White Women

(RO1 DK54041)

West DS (PI)

1999-2005

Goal: This 5-year treatment outcome study examined whether the addition of motivational interviewing to an 18-month behavioral weight control program for overweight black and white women with type 2 diabetes improves health outcomes, including glycemic control, weight loss, and cardiovascular risk reduction.

Role: Investigator (15-20%)

Next Choices Evaluation Planning

(DHHS contract)

Stewart MK (PI)

2004-2005

Goal: This project evaluated a waiver that allows individuals with disabilities to choose how to spend a proportion of their Medicare funds on care they receive.

Role: Investigator (5%)

Implementation and Evaluation of Arkansas Act 1220 of 2003

(R.W. Johnson Foundation 050262)

Raczynski JM (PI)

2004-2005

Goal: This one year project evaluated the impact of recent Arkansas legislation mandating removal of vending machines from elementary schools, provision of obesity risk health information to parents of all elementary and secondary school children, and the establishment of a Child Health Advisory Committee at the state and district levels. Baseline phone-based surveys of a random, representative sample of parents examined the impact on children and families, and surveys of all school principals and district superintendents captured the administrative level impact.

Role: Investigator (20%)

Oklahoma Cardiovascular Disease Program Grant

(CDC CCU50/CCU619092)

Yerkes A (Director)

2000-2003

Goal: This grant was targeted toward public and professional education with respect to all aspects of cardiovascular health, with strong evaluation components based on state surveys, vital records and hospital discharge data as well as other available resources.

Role: Biostatistician (50%)

Oklahoma Native American Project to Reduce Diabetes and Cardiovascular Disease (Phase II REACH 2010)

(CDC U50/ CCU617413-02-06)

Campbell JE (PI)

2000-2003

\$1,200,000

Goal: This five year demonstration project focused on lifestyle interventions as a means to reduction of diabetes and cardiovascular disease incidence among Native Americans in Oklahoma.

Role: Biostatistician (50%)

Oklahoma Native American Project to Reduce Diabetes and Cardiovascular Disease (Phase I REACH 2010)

(CDC U50/ CCU617413-01)

Campbell JE (PI)

1999-2000

Goal: This one year planning grant focused on coalition building and project design for a large scale intervention designed to reduce diabetes and cardiovascular disease burden among Native Americans in Oklahoma.

Role: Biostatistician (100%)

Scientific Review

Grants

2010	<u>Grant Reviewer</u> , Bankhead-Coley Cancer Research Program
2010	<u>Grant Reviewer</u> , James and Esther King Biomedical Research Program
2010	<u>Grant Reviewer</u> , Kansas City Area Life Sciences Institute
2009	<u>Challenge Grant Reviewer</u> , NIH
2009	<u>Grant Reviewer</u> , Arkansas Center for Health Disparities

Journals

2010-Present Reviewer, Journal of Agricultural Science and Technology

2008-Present Reviewer, Obesity

2007 Reviewer, SAS Business Knowledge Series

- Disease Measurements in Public Health Course

2006-Present Reviewer, SAS Publishing

- ROC Curves Using SAS
- SAS Applications in Public Health Practice
- SAS LE 1.0 (Learning Edition)

2006-Present Reviewer, BioSystems

2005-Present Reviewer, Journal of the American College of Cardiology

2004-Present Reviewer, Circulation

Other

2009-Present Biostatistician, UAMS Data Safety Monitoring Board (CTSA)

2008-Present Independent Review Committee, Blue Cross Blue Shield Physician Connection Cost Efficiency Rating Methodology

External Consulting and Collaborations

2009-2010 Community Blood Center of the Carolinas, Charlotte, NC.
Provide consulting services on sampling and estimation issues related to quality control of donated blood plasma units.

2009 Blue Cross Blue Shield, Little Rock, AR.
Independent review committee member overseeing physician performance ratings.

2006-2007 BloodNetUSA. Lakeland, FL.
Provided consulting services on sampling issues related to quality control of blood donors. Proposal accepted by FDA in 2007.

2005-Present Research Institute Rudjer Boskovic. Department of Molecular Biology. Zagreb, Croatia.
Provide consulting services related to analysis of data examining relationships between genetic traits and neurological disorders.

Service

University of Arkansas for Medical Sciences

- 2009-Present Member, UAMS Data Safety Monitoring Board (under CTSA)
- 2003-2006 Member, "Get Healthy UAMS" Project Evaluation Committee
- 2003-Present Member, Library Advisory Committee

UAMS College of Public Health

- 2009 Member, AR Center for Health Disparities Review Committee
- 2009 Member, Department of Epidemiology Faculty Search Committee
- 2008-2009 Member, MPH Admissions Sub-committee
- 2007 Faculty Marshal, Commencement
- 2007 Member, Introduction to Public Health Course Committee
- 2006-Present Faculty Advisor, Beta Delta Chapter of Delta Omega Public Health Honor Society
- 2005-Present Member, MPH Admissions Committee
- 2006-2010 Member, DrPH Admissions Review Committee
- 2003-Present Chair, Community Based Public Health Advisory Committee
- 2004-2006 Faculty Member, COPH Honor Council
- 2006 Member, Faculty Retreat Planning Committee

Oklahoma State Department of Health

- 1999-2003 Member, REACH 2010 Steering Committee

Awards and Honors

- 2008 Recipient, Faculty Award for Excellence in Research
- 2007 Nominee, Faculty Award for Excellence in Teaching
- 2005 Nominee, Faculty Award for Excellence in Teaching
- 2003 Graduate Student Association Award for Outstanding Academic Achievement (Doctoral Degree Recipient)

1999 Graduate Student Association Award for Outstanding Academic Achievement (Master Degree Recipient)

Professional Memberships/Societies

2000-Present American Statistical Association (Section on Statistical Computing)

2003-Present Central Arkansas Statistical Association

- President, 2007
- Vice President, 2006

2003-2005 The Mathematical Association of America (AR/OK Section)

1999-Present Delta Omega Public Health Honor Society (Inducted as a graduate student: Xi Chapter – OUHSC, COPH)

- 2005-Present Faculty Advisor (Beta Delta Chapter – UAMS, COPH)