

UNIVERSITY OF PENNSYLVANIA - SCHOOL OF MEDICINE  
Curriculum Vitae

25 January, 2007

Justine Shults, Ph.D.

Office Address: University of Pennsylvania School of Medicine  
Department of Biostatistics and Epidemiology  
Division of Biostatistics  
610 Blockley Hall, 423 Guardian Drive  
Philadelphia, PA 19104-6021

Education:

1983 United States Naval Academy (Resigned)  
1985 B.S. University of Notre Dame (Mathematics)  
1988 Virginia Wesleyan College (Secondary School Teaching  
Certificate in Mathematics)  
1993 M.S. Old Dominion University (Applied and  
Computational Mathematics-Statistics Option)  
1996 Ph.D. Old Dominion University (Applied and  
Computational Mathematics – Statistics Option)

Postgraduate Training and Fellowship Appointments: None

Military Service: None

Faculty Appointments:

1988-1989 Secondary Mathematics Teacher, Green Run High School,  
Virginia Beach, VA  
1989-1991 Secondary Mathematics Teacher, Salem High School, Virginia Beach, VA  
1991-1992 Graduate Assistant, Old Dominion University, Norfolk, VA  
1992-1996 Statistical Research Associate, Center for Pediatric Research,  
Eastern Virginia Medical School, Norfolk, VA  
1997-1999 Assistant Professor, Center for Pediatric Research, Eastern  
Virginia Medical School, Norfolk, VA  
1999- Assistant Professor of Biostatistics, Department of Biostatistics and  
Epidemiology, University of Pennsylvania School of Medicine,  
Philadelphia, PA

Hospital and Administrative Appointments:

None

Other Appointments:

1999- Senior Scholar, Center for Clinical Epidemiology and Biostatistics,  
University of Pennsylvania School of Medicine  
1999- Member, Biomedical Graduate Studies (BGS), University of

Pennsylvania School of Medicine

Specialty Certification: Not applicable

Licensure: Not applicable

Awards, Honors, and Memberships in Honorary Societies:

1980	Merit Scholarship Semifinalist
1981	Appointment to the United States Naval, Military, and Air Force Academies
1993-1994	Virginia Commonwealth Fellow, Virginia Council of Education
2003	University of Pennsylvania Graduate Program in Biostatistics Teaching Award
2006	University of Pennsylvania Graduate Program in Biostatistics Teaching Award

Memberships in Professional & Scientific Societies and Other Professional Activities:  
(Include offices held.)

International:

International Biometric Society (Member, 1996 to present)  
International Chinese Statistical Association (Member, 1999 to present)

National:

American Statistical Association (ASA) (Member, 1996 to present)  
Data Safety Monitoring Board Committee for Exercise and Disability in COPD Patients (5R01HL053755-09), Wake Forest University, Wake Forest, NC (Member, 2002 to present)  
Independent Data Monitoring Committee for Glaxo Smith-Kline HSV Adolescent Vaccine Program, Philadelphia, PA and Rixensart, Belgium (Member, 2003 to present)  
NIH Special Emphasis Panel/Scientific Review Group 2006/10 ZCA1 RPRB-5 (O3) (S) meeting (Member, 06/19/2006-06/21/2006).

Local: None

Editorial Positions:

2000-2003	Reviewer, <u>Communications in Statistics</u>
2002-present	Reviewer, <u>Statistics in Medicine</u>
2003	Reviewer, <u>Statistical Modelling</u>
2005	Reviewer, <u>American Journal of Epidemiology</u>
2005-present	Reviewer, <u>Biometrics</u>

Academic and Institutional Committees:

1999-present	Member, Faculty Recruitment Committee
1999-2002	Member, Biostatistics Applied Research Forum Committee

- 1999-present Member, Epidemiology Graduate Admissions Committee
- 2002-2004 Chair, Biostatistics Applied Research Forum Committee
- 2004-present Member, Biostatistics Applied Research Forum Committee
- 2004-present Chair, Biostatistics Graduate Student Recruitment Committee

Major Academic and Clinical Teaching Responsibilities:

1. Introduction to Business Statistics 101 (spring semester 2000). Taught twice a week in Wharton School for undergraduates. 3 credit hour undergraduate course.
2. Statistical Methods and Data Analysis BSTA 630 (fall semester 2000). Taught one-half of the course. 4 credit hour graduate course.
3. Member, Ph.D. Thesis Committee for Binbin Yang, Department of Statistics, George Washington University, 2001.
4. Statistical Methods and Data Analysis BSTA 630 (fall semester 2001). Taught one-half of the course. 4 credit hour graduate course.
5. Statistical Methods and Data Analysis BSTA 630 (fall semester 2002). Taught one-half of the course. 4 credit hour graduate course.
6. Linear Models BSTA 651 (spring semesters 2002, 2003, 2004, 2005, 2006). 3 credit hour graduate course.
7. Thesis Committees, Master's Students in Clinical Epidemiology, Center for Clinical Epidemiology and Biostatistics
  - Nicolas Stettler, 1997-2000
  - Bethany Foster, 2001-2004
  - Nayyar Iqbal, 2000-2003
  - Aluko Hope, 2002-2005
  - Francis Weng, 2002- 2005
  - Jon Burnham, 2002-2005
  - Brigitte M. Baumann, 2000-
  - Ann Salerno, 2003-
  - Meena Thayu, 2004-
  - Shamir Tuchman, 2005-
  - Janet Kwiatkowski, 2002-
  - Tracey Wright, 2006-
  - Sogol Mostoufi-Moa, 2005-
  - Jim Franciosi, 2006-
8. Primary Advisor, Master's Thesis in Biostatistics, Center for Clinical Epidemiology and Biostatistics, for:
  - Li Qin, 2002
  - Shu-Wen Yang, 2003
  - Wenguang Sun, 2005
  - Angelo Elmi, 2006-
  - Chia-Hao Wang, 2006-
9. Committee Member, PhD Dissertation in Biostatistics, Center for Clinical Epidemiology and Biostatistics, for:
  - Lingfeng Yang, 2006-
  - Wenguang Sun, 2005-

Lectures by Invitation: (List only the past 5 years.)

- August 14, 2002 “Improved Statistical Methods for Analysis of Diverse Populations” Joint Statistical Meetings of the American Statistical Association, New York, NY
- January 29, 2003 “Analysis of Data with Multiple Sources of Correlation in the Framework of Generalized Estimating Equations” Department of Biostatistics, Columbia University, New York, NY
- March 30, 2004 “Implementation of a Complex Correlation Structure for Analysis of Data with Multiple Sources of Correlation”, Invited Session 56, Eastern North Atlantic Region of the International Biometric Society Meetings, Pittsburgh, PA
- April 14, 2004 “Analysis of Data with Multiple Sources of Correlation in the Framework of Generalized Estimating Equations” Department of Biostatistics, Columbia University, New York, NY
- May 15, 2004 “Analysis of Repeated Bouts of Measurements in the Framework of Generalized Estimating Equations”, The Fifth Biennial International Conference (International Indian Statistics Association) on Statistics, Probability, and Related Areas. The University of Georgia, Athens, GA.
- September 7, 2004 “Analysis of Repeated Bouts of Measurements in the Framework of Generalized Estimating Equations”, Cincinnati Children’s Hospital Medical Center, Cincinnati, Ohio.
- November 19, 2004 “Analysis of Repeated Bouts of Measurements in the Framework of Generalized Estimating Equations”, Department of Mathematics and Statistics, Georgia State University, Atlanta, GA.
- January 22, 2005 “Analysis of Dichotomous Outcomes Using Quasi-Least Squares”, Department of Mathematics and Statistics, Oregon State University, Corvallis, OR.
- March 9, 2006 “A Generalized Estimating Equation Analysis of a Clinical Trial to Compare Venlafaxine with Lithium in the Treatment of Major Depressive Episode”, Cincinnati Children’s Hospital Medical Center, Cincinnati, Ohio.
- September 29, 2006 “Improved Generalized Estimating Equation Analysis via Application of Quasi-Least Squares”, Department of Biostatistics, Virginia Commonwealth University, Richmond, Virginia.
- November 10, 2006 “Improved Generalized Estimating Equation Analysis via Application of Quasi-Least Squares”, Department of Statistics, George Washington University, Washington D.C.
- March, 2007 “On the impact and likelihood of a violation of bounds for the correlation in GEE analyses of binary data from longitudinal trials and what we can do to address this problem”, Eastern North Atlantic Region of the International Biometric Society 2007 Annual Meeting

Organizing Roles in Scientific Meetings: None

Bibliography

Research Publications, peer-reviewed (print or other media):

1. Morrow AL, **Shults J**, Pickering J. Criteria for publication of case reports. J Pediatr 122: 991-2, 1993.

2. Werner EJ, Broxson EH, Tucker, EL, Giroux DS, **Shults J**, Abshire TC. Prevalence of von Willebrand disease in children: a multi-ethnic study. *J Pediatr* 123: 893-8, 1993.
3. Bhisitkul DM, Morrow AL, Vinik AI, **Shults J**, Layland JC, Rohn R. Prevalence of stress hyperglycemia among patients attending a pediatric emergency department. *J Pediatr* 124: 547-51, 1994.
4. Bhisitkul DM, Vinik AI, Morrow AL, She J-X, **Shults J**, Powers AC, Maclaren NK. Prediabetic markers in children with stress hyperglycemia. *Arch Pediatr Adolesc Med* 150: 936-41, 1996.
5. **Shults J**, Chaganty NR. Analysis of serially correlated data using quasi-least squares. *Biometrics* 54: 1622-1630, 1998.
6. Newburg DS, Peterson JA, Ruiz-Palacios GM, Matson DO, Morrow AL, **Shults J**, Guerrero ML, Chaturvedi P, Newburg SO, Scallan CD, Taylor MR, Ceriani RL, Pickering LK. Role of human-milk lactadherin in protection against symptomatic rotavirus infection. *Lancet* 351: 1160-1164, 1998.
7. Chaganty, NR, **Shults J**. On eliminating the asymptotic bias in the quasi-least squares estimate of the correlation parameter. *Journal of Statistical Planning and Inference* 76: 145-161, 1999.
8. Morrow AL, Guerrero ML, **Shults J**, Calva JJ, Morrow RC, Bravo J, Butterfoss FD, Lutter C. Efficacy of home-based peer counseling to promote exclusive breastfeeding: a randomized controlled trial. *Lancet* 353(9160): 1226-1231, 1999.
9. Velazquez FR, Matson DO, Guerrero ML, **Shults J**, Calva JJ, Morrow AL, Glass RI, Pickering LK, Ruiz-Palacios GM. Serum antibody as a marker of protection against natural rotavirus infection and disease. *Journal of Infectious Diseases* 182(6): 1602-1609, 2000.
10. Isaacman DJ, **Shults J**, Gross TK, Davis PH, Harper M. Predictors of bacteremia in febrile children 3 to 36 months of age. *Pediatrics* 106(5): 977-982, 2000.
11. **Shults J**. Modeling the correlation structure of data that have multiple levels of association. *Communications in Statistics: Theory and Methods* 29(5-6): 1005-1015, 2000.
12. Kelly CS, Morrow AL, **Shults J**, Nakas N, Strobe GL, Adelman RD. Outcomes evaluation of a comprehensive intervention program for asthmatic children enrolled in Medicaid. *Pediatrics* 105(5): 1029-1035, 2000.
13. Karlowicz MG, Giannone PJ, Pestian J, Morrow AL, **Shults, J**. Does candidemia predict threshold retinopathy of prematurity in extremely low birth weight (=1000g) neonates? *Pediatrics* 105(5): 1036-1040, 2000.
14. Medoff-Cooper B, McGrath JM, **Shults J**. Feeding Patterns of Full Term and Preterm Infants at Forty Weeks Post-Conceptional Age. *Developmental and Behavioral Pediatrics* 23(4): 231-236, 2002.
15. **Shults J**, Morrow A. Use of quasi-least squares to adjust for two levels of correlation. *Biometrics* 58: 521-530, September, 2002.
16. Hughes MB, **Shults J**, McGrath J., Medoff-Cooper B. Temperament characteristics of premature infants in the first year of life. *J. Dev. Behav. Pediatr.* 23(6): 430-435, 2002.
17. Keane A, Houldin A, Allison P, Jepson C, **Shults J**, Nuamah I, Brennan A, Lowery B, McCorkle R. Factors Associated with Distress in Urban Residential Fire Survivors. *Journal of Nursing Scholarship* 34(1): 11-17, 2002.
18. Naik DN, Khattree R, **Shults J**. A note on likelihood based inference for AR(1)

- and MA(1) processes under certain robust alternatives to multivariate normality. *Journal of Statistical Theory and Applications*, 1(1): 57-62, 2002.
19. Kwiatkowski JL, Hunter JV, Smith-Whitley K, Katz M, **Shults J**, Ohene-Frempong K. Transcranial Doppler ultrasonography in siblings with sickle cell disease. *British Journal of Haematology* 121(6): 932-937, 2003.
  20. Richmond TS, Kauder DK, Hinkle J, **Shults J**. Early predictors of long-term disability after injury. *American Journal of Critical Care* 12(3): 197-205, 2003.
  21. Brewer-Smyth K, Wolbert Burgess A, **Shults J**. Neurologic and Neuroendocrine Correlates of Violent Criminal Behavior of Female Prison Inmates. *Biological Psychiatry* 55(1): 21-31, 2004.
  22. Amsterdam JD, **Shults J**, Brunswick DJ, Hundert M. Short-Term Fluoxetine monotherapy for bipolar type II or bipolar NOS major depression- low manic switch rate. *Bipolar Disorders* 6(1): 75-81, 2004.
  23. Lipman TH, Hench KD, Benyi T, Delaune J, Gilluly KA, Johnson L, Johnson MG, McKnight-Menci H, Shorkey D, **Shults J**, Waite FL, Weber C. A multicentre randomized controlled trial of an intervention to improve the accuracy of linear growth measurement. *Archives of Disease in Childhood*. 89(4): 342-346, 2004.
  24. Leonard MB, **Shults J**, Elliott D, Stallings VA, Zemel BS. Interpretation of whole body DXA in the assessment of cortical bone health in children: Validation with peripheral QCT. *Bone* 34(6): 1044-1052, 2004.
  25. Leonard MB, **Shults J**, Wilson BA, Tershakovec A, Zemel BS. Obesity during childhood and adolescence augments bone mass and bone dimensions. *American Journal of Clinical Nutrition* 80(2): 514-523, 2004.
  26. Leonard MB, Feldman HI, **Shults J**, Zemel, BS, Foster BJ, Stallings VA. Long-term, high-dose glucocorticoids and bone mineral content in childhood glucocorticoid-sensitive nephritic syndrome. *New England Journal of Medicine* 351(9): 868-875, 2004.
  27. **Shults J**, Whitt M, Kumanyika S. Analysis of data with multiple sources of correlation in the framework of generalized estimating equations. *Stat Med* 23: 3209-3226, 2004.
  28. Penning T, Shen YM, Mick R, **Shults J**, Field J. Polycyclic Aromatic Hydrocarbon 0-Quinones Mutate p53 in Human Lung Adenocarcinoma (A549) cells. *Polycycl Aromat Comp*. 24: 583-596, 2004.
  29. Foster B, **Shults J**, Zemel B, Leonard M. Interactions between growth and body composition in children treated with high-dose chronic glucocorticoids. *Am J Clin Nutr*. 80(5): 1334-1341, 2004.
  30. Burnham J, **Shults J**, Semeao E, Foster B, Stallings V, Leonard M. Whole Body Bone Mineral Content in Pediatric Crohn Disease: Dissecting the Effect of Altered Growth, Body Composition, and Pubertal Development. *J. Bone Miner. Res* 19(12): 1961-1968, 2004.
  31. Weng FL, **Shults J**, Herskovitz RM, Zemel BS, Leonard MB. Vitamin D insufficiency in steroid-sensitive nephrotic syndrome in remission. *Pediatr Nephrol*. 20(1): 56-63, 2005.
  32. Kumanyika SK, **Shults J**, Fassbender J, Whitt MC, Brake V, Kallan MJ, Iqbal N, Bowman MA. Outpatient weight management in African Americans: The healthy eating and lifestyle program (HELP) study. *Prev Med*. 41(2): 488-502, 2005.
  33. O'Neill KL, **Shults J**, Stallings VA, Stettler N. Child-feeding practices in children with Down Syndrome and their siblings. *J Pediatr* 146(2): 234-238, 2005.

34. Hope AA, Kumanyika SK, Whitt MC, **Shults J**. Obesity-related comorbidities in obese African Americans in an outpatient weight loss program. *Obes Res.* 13(4): 772-779, 2005.
35. Veronese ML, Sun W, Giantonio B, Berlin J, **Shults J**, Davis L, Haller DG, O'Dwery PJ. A phase II trial of gefitinib with 5-fluorouracil, leucovorin, and irinotecan in patients with colorectal cancer. *Br J Cancer.* 92(10): 1846-1849, 2005.
36. Petit MA, Beck TJ, **Shults J**, Zemel BS, Foster BJ, Leonard MB. Proximal femur bone geometry is approximately adapted to lean mass in overweight children and adolescents. *Bone* 36(3): 568-576, 2005.
37. Newberg AB, Amsterdam JD, Wintering N, Ploessl K, Swanson RL, **Shults J**, Alavi A. 123I-ADAM binding to serotonin transporters in patients with major depression and healthy controls: a preliminary study. *J Nucl Med.* 46(6): 973-977, 2005.
38. Amsterdam JD, **Shults J**. Comparison of fluoxetine, olanzapine, and combined fluoxetine plus olanzapine initial therapy of bipolar type I and type II major depression--lack of manic induction. *J. Affect Disord.* 87(1): 121-130, 2005.
39. Burnham JM, **Shults J**, Semeao E, Foster BJ, Zemel BS, Stallings VA, Leonard MB. Body-composition alterations consistent with cachexia in children and young adults with Crohn disease. *Am J Clin Nutr.* 82(2): 413-420, 2005.
40. Amsterdam JD, **Shults J**. Fluoxetine monotherapy of bipolar type II and bipolar NOS major depression: a double-blind, placebo substitution, continuation study. *Int Clin Psychopharmacol.* 20(5): 257-264, 2005.
41. Amsterdam JD, Rutherford N, **Shults J**. Therapeutic challenge: Antidepressant monotherapy of major depressive episodes in bipolar II disorder. *Psychiatr Ann.* 35(12): 981-988, 2005.
42. Amsterdam JD, **Shults J**. MAOI efficacy and safety in advanced stage treatment-resistant depression--a retrospective study. *J Affect Disord.* 89(1-3): 183-188, 2005.
43. Veronese ML, Algazy K, Bearn L, Eaby B, Alavi J, Evans T, Stevenson JP, **Shults J**. Gefitinib in patients with advanced non-small cell lung cancer (NSCLC): the expanded access protocol experience at the University of Pennsylvania. *Cancer Invest.* 23(4): 296-302, 2005.
44. Hench KD, **Shults J**, Benyi T, Clow C, Delaune J, Gilluly K, Johnson L, Johnson M, Rossiter K, McKnight-Menci H, Shorkey D, Waite F, Weber C, Lipman TH. Effect of educational preparation on the accuracy of linear growth measurement in pediatric primary care practices: results of a multicenter nursing study. *J Pediatr Nurs.* 20(2): 64-74, 2005.
45. **Shults J.**, Mazurick C., Landis R. Analysis of repeated bouts of measurements in the framework of generalized estimating equations. *Stat Med*, 25(23): 4114-4128, 2006.
46. Burnham S., **Shults J**, Weinstein R, Lewis JD, Leonard MB. Childhood-Onset Arthritis is Associated with an Elevated Risk of Fracture: A Population-Based Study Using the General Practice Research Database. *Ann Rheum Dis.* 65(8): 1074-9, 2006.
47. Foster BJ, **Shults J**, Zemel BS, Leonard MB. Risk factors for glucocorticoid-induced obesity in children with steroid-sensitive nephritic syndrome. *Pediatr Nephrol.* 21(7): 973-980, 2006.

48. Fassbender JE, Whitt-Glover MC, **Shults J**, Kallan M, Kumanyika SK. Changes in physical activity in African American participants and family or friend co-participants in response to weight loss counseling. *Med Sci Sports Exerc.* May, 2006 (in press).
49. Anderson CA, Kumanyika SK, **Shults J**, Kallan MJ, Gans KM, Risica PM. Assessing change in dietary fat behavior in a weight loss program for African Americans: A potential short method. *J Am Diet Assoc*, 2006 (in press).
50. Leonard MB, **Shults J**, Zemel BS. DXA estimates of vertebral volumetric bone mineral density in children: Potential advantages of paired posteroanterior and lateral scans. *J Clin Denistom* 9(3): 265-273, 2006.
51. Tu X, Zhang J, Kowalski J, **Shults J**, Feng C, Tang W. Power Analysis for Longitudinal Study Designs with Missing Data. *Stat Med*, 2006 (in press).
52. Gorelick MH, Alessandrini EA, Cronan K, Shults J. Revised Pediatric Emergency Assessment Tool (RePEAT): A Severity Index for Pediatric Emergency Care Academic Emergency Medicine. *Ac Emer Med*, 2006 (in press).

Research Publications, peer – reviewed reviews

None.

Contributions to peer-reviewed clinical research publications, participation cited but not by authorship:

1. Chaganty, NR. An alternative approach to the analysis of longitudinal data via generalized estimating equations. *Journal of Statistical Planning and Inference* 63:39-54, 1997.

Research Publications, non-peer reviewed and under review. (All working papers listed below are also under review.):

1. Sun, W., **Shults, J.** and Leonard M. Use of Unbiased Estimating Equations to Estimate Correlation in Generalized Estimating Equation Analysis of Longitudinal Trials. (January 2006). *UPenn Biostatistics Working Papers. UPenn Biostatistics Working Paper Series.* Working Paper 4.  
<http://www.biostatsresearch.com/upennbiostat/papers/art4>
2. **Shults, J.**, Sun, W., Tu, X., and Amsterdam, J. On The Violation of Bounds For The Correlation In Generalized Estimating Equation Analyses Or Binary Data From Longitudinal Trials. (February 2006). *UPenn Biostatistics Working Papers. UPenn Biostatistics Working Paper Series.* Working Paper 8.  
<http://www.biostatsresearch.com/upennbiostat/papers/art8>
3. **Shults, J.**, Ratcliffe, S.J. and Leonard, M. Improved generalized estimating equation analysis via xtqls for implementation of quasi-least squares in Stata. (September 2006). *UPenn Biostatistics Working Papers. UPenn Biostatistics Working Paper Series.* Working Paper 13.  
<http://www.biostatsresearch.com/upennbiostat/papers/art13>
4. Ratcliffe S, **Shults J.** (2006) GEEQBOX: A Matlab toolbox for generalized estimating equations and quasi-least squares. 2006 (Under review).
5. Magge S.N., O'Neill K.L., **Shults J.**, Stallings V.A., and Stettler, N. Leptin levels among pre-pubertal children with Down Syndrome compared to their siblings. (under review.)
6. Thayu M, **Shults J**, Burhnam JM, Baldassano RN, Zemel BS, Burnham JM,

- Leonard MB. Gender Differences in Body Composition Deficits at Diagnosis in Children and Adolescents with Crohn Disease. 2006 (under review).
7. Weng FL, **Shults J**, Leonard MB, Stallings VA, Zemel BS. Risk Factors for Vitamin D Deficiency and Insufficiency in Otherwise Healthy Children (under review.)
  8. Burnham J, **Shults J**. Alterations in proximal femur geometry in children treated with glucocorticoids for Crohn Disease or nephritic syndrome: impact of the underlying disease. 2006 (under review).
  9. Medoff-Cooper B, **Shults J**, Kaplan J. Early feeding behavior of pre-term infants as a predictor of developmental outcomes. 2006 (under review)
  10. Gennaro S, Raftery N, Campbell D, Shults J. Cervical and vaginal cytokine determinants in pregnant women: methodological issues. 2006 (under review)

Research Publications, in preparation:

1. **Shults J.**, Chaganty N.R., Chen J., Qin L, and Kumanyika, S. Comparison of high versus low social support in a weight loss intervention for African-Americans: a quasi-least squares analysis with familial correlation structure.
2. **Shults J.**, Ratcliffe S. Software in Stata and Matlab for analysis of data with multiple sources of correlation.
3. Bellamy S., **Shults, J.** Quasi-least squares in group-randomized trials: a tutorial.

Abstracts: (List only the past 3 years.)

1. Burnham JM, **Shults J**, Sargent S, Cron R, Finkel T, Sherry D, Zemel BS, Leonard MB. Juvenile Rheumatoid Arthritis is Associated with Decreased Trabecular Density, Cortical Dimensions and Bone Strength. *Arthritis Rheum* 48: 3626-7, 2003.
2. Foster B, **Shults J**, Zemel BS, Leonard MB. Wasting is not a feature of childhood chronic kidney disease. *J Am Soc Neph* 15:589A, 2004.
3. Burnham JM, **Shults J**, Semeao E, Petit MA, Beck TJ, Zemel BS, Leonard MB. Altered geometry of the proximal femur reduces cortical bone strength in pediatric Crohn disease. *J Bone Miner Res* 19(Suppl 1):187, 2004.
4. Amsterdam, J.D., **Shults, J.**: MAOI efficacy in advanced resistant depression (ARD). (Abstract) Society of Biological Psychiatry 59<sup>th</sup> Annual Meeting, New York, NY, May 1, 2004.
5. **Shults, J.**, Mazurick, C., Landis, R. Implementation of a complex correlation structure appropriate for repeated bouts of measurements in a longitudinal study. Eastern North Atlantic Region of the International Biometric Society (ENAR) Spring Meeting. March, 2004.
6. **Shults, J.**, Amsterdam, J.D.: Low manic switch rate during SSRI treatment of Bipolar major depression. (Abstract) 157<sup>th</sup> Annual Meeting of the American Psychiatric Association, New York, NY, May 4, 2004.
7. Amsterdam, J.D., **Shults, J.**: Antidepressant monotherapy of Bipolar type II major depressive episode. (Abstract) 157<sup>th</sup> Annual Meeting of the American Psychiatric Association, New York, NY, May 4, 2004.

8. Richmond, T.S., Sease, K.L., Kauder, D., Gracias, V., Ackerson, T, Robinson, K., **Shults, J.**, Sites, F.D., Amsterdam, J.D., Hollander, J.E.: Functional profiles of ED patients sustaining minor injury. (Abstract). Society of Academic Emergency Medicine Annual Meeting, Orlando, FL, May 15, 2004.
9. Richmond, T.S., Kauder, D., **Shults, J.**, Hollander, D.E., Gracias, V., Robinson, K., Ackerson, T., Sites, F.D., Amsterdam, J.D.: Psychiatric profiles of individuals sustaining minor injury. (Abstract). 7th World Injury Conference, Vienna, Austria, June 15, 2004.
10. Amsterdam, J.D., **Shults, J.**: Fluoxetine monotherapy of Bipolar II major depression - low manic switch rate. (Abstract), NCDEU 44<sup>th</sup> Annual Meeting, Phoenix, AZ, June 3, 2004.
11. Anderson CA, Kumanyika SK, **Shults J**, Kallan M. Developing a brief tool for assessing eating behavior change in weight management studies in African Americans. Presented at the 44<sup>th</sup> Annual Conference on Cardiovascular Epidemiology and Prevention, San Francisco, CA, March 2004. *Circulation* 2004;109 (6): 67
12. Foster G, Sherman S, Mclaughlin J, **Shults J**, Kumanyika S, Nachmani J. A Randomized Trial of a School-Based Obesity Prevention Program, presented at the North American Society for the Study of Obesity, Las Vegas. *Obesity Research* 2004;12: A-8.
13. Stettler N, Berkowitz RI, Cronquist JL, Wadden TA, **Shults J**, Zemel BS, Leonard MB. Deficit in Cortical Bone Mineral Accretion during Successful Weight Loss in Obese Adolescents. *Obesity Research* (in press) 2005.
14. Pradhan M, **Shults J**, Baluarte HJ, Jones A, Leonard MB. Obesity and Hypertension in Pediatric Kidney Transplant Recipients. *J Am Soc Nephrol* 16:706A, 2005.
15. Foster B, **Shults J**, Foerster D, Zemel B, Leonard MB. Changes in Body Composition Following Pediatric Renal Transplantation. *J Am Soc Nephrol* 16:707A, 2005.
16. Richmond TS, Ackerson T, Gracias V, Robinson K, Amsterdam JD, Hollander J, **Shults J**, Kauder D. Psychiatric disorders & injury: Effects on short term disability. Denver Injury Conference, Denver, CO, May 3, 2005.
17. Sun W, **Shults J**. Comparison of Wang-Carey Estimation Versus Quasi-least Squares. ENAR Spring Meetings, March 2005.
18. **Shults J**, Sun, W. Adjusted quasi-least squares for valid analysis of correlated binary data. ENAR Spring Meetings, March 2005.
19. Burnham JM, **Shults J**, Close AP, Zemel BS, Leonard MB. The functional muscle-bone unit in juvenile rheumatoid arthritis. Third International Conference on Children's Bone Health, Sorrento, Italy, May, 2005.
20. Sun W, Shults J. Comparison of Wang-Carey Estimation Versus Quasi-least Squares. Joint Statistical Meetings of the American Statistical Association. August, 2005.

21. **Shults J**, Sun W. Adjusted quasi-least squares for valid analysis of correlated binary data. Joint Statistical Meetings of the American Statistical Association. August, 2005.
22. Huang SH, O'Neill KL, Auerbach SB, Kumanyika SK, **Shults J**, Stallings VA, Beech BM, Stettler N. Factors Associated With Reported Nutrition Counseling by Pediatric Primary Care Providers. Presented at Clinical Nutrition Week, American Society for Parenteral and Enteral Nutrition (A.S.P.E.N.) Dallas, TX, February 2006.
23. Amsterdam JD, Rutherford NC, **Shults J**. Safety and efficacy of SSRI therapy in patients with co-morbid major depression and chronic fatigue syndrome. (Abstract) 36<sup>th</sup> Annual Meeting of the Association of Behavioral Sciences Medical Education (ABASME), Annapolis, MD, October 19-22, 2006.
24. Amsterdam JD, Rutherford NC, **Shults J**, Schwartz S. Safety and efficacy of s-citalopram therapy in patients with co-morbid major depression and diabetes mellitus. (Abstract) 36<sup>th</sup> Annual Meeting of the Association of Behavioral Sciences & Medical Education (ABASME), Annapolis, MD, October 19-22, 2006.
25. Richmond TD, Kauder D, Amsterdam JD, Ackerson TH, Robinson K, Gracias V, **Shults S**, Hollander JE. Psychiatric disorders in patients presenting with injury to an urban emergency department. (Abstract) 36<sup>th</sup> Annual Meeting of the Association of Behavioral Sciences & Medical Education (ABASME), Annapolis, MD, October 19-22, 2006.

Editorials, Reviews, Chapters, including participation in committee reports (print or other media):

1. **Shults J**. Book Review of "Models for Discrete Longitudinal Data", by G. Molenberghs and G. Verbeke, 2005". J Biopharm Stat, 16 (3): 395-398, 2006.
2. **Shults J**. Book Review of "Applied Mixed Models in Medicine, Second Edition, by H. Brown and R. Prescott, 2006". J Biopharm Stat. Issue 4, 2007 (in press).

Books: None

Alternative Media: None

Patents: None