
CURRICULUM VITAE

KIMBERLY A. DUKES, PH.D.

CURRENT POSITION

Position: President and CEO
Company: DM-STAT, Inc
One Salem Street
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(781) 395-4523

EDUCATION

Spring 2002	Mathematics/Statistics	Ph.D.	Boston University
May 1989	Mathematics/Statistics	M.A.	Boston University
May 1986	Mathematics Education	B.S.	Boston University
May 1986	Physical Education	B.S.	Boston University

COMPUTER LANGUAGES/SOFTWARE

Proficient in: SAS, S-PLUS, n-Query and Microsoft

Developed a proprietary web-based electronic data capture system that tracks the lifecycle of participants, specimens and other related media.

REGULATORY EXPERIENCE

IRB submissions, data safety monitoring committees, Pre-IDE, 510(k), NDA and PMA submissions.

HONORS AND SPECIAL AWARDS

Full scholarship teaching fellowship, Boston University Mathematics Department, 1988-1989, Spring 1994, Fall 1995.

Full scholarship research assistant, University Hospital, 1987-1988.

Full scholarship for participation on the Division I women's basketball team, Boston University athletic Department, 1982-1986.

School of Education Student Athlete Award, Boston University, 1986.

PROFESSIONAL ORGANIZATIONS

Member, American Statistical Association

Member, Boston Chapter of the American Statistical Association

Member, SAS Users Group

Member, DIA

MAJOR RESEARCH INTERESTS

Longitudinal Data Analysis Methods
 Analysis of Randomized Clinical Trials
 Factor Analysis and Battery Reduction
 Structural Equation Modeling
 Questionnaire Development and Psychometric Testing
 Study Design and Protocol Development
 Epidemiologic Methods
 Data Safety Monitoring

RESEARCH EXPERIENCE

- 2009 - Present Principal Investigator, National Institute of Child Health and Human Development for the Perinatal Research Branch (N01-HD-2-3342). The long term goal of these protocols is to gather information that will lead to improved understanding of maternal-fetal anatomy, physiology and pathology. DM-STAT serves as a data coordinating center.
- 2009 - 2011 Principal Investigator, DOD USAMRAA – W81XWH-08-1-0230. Post Traumatic Stress Disorder (PTSD) and Traumatic Brain Injury Research Program study's primary goal is to develop and test the effectiveness of a family-based intervention designed to mitigate the adverse impact of PTSD in soldiers returning from Operation Iraqi Freedom (OIF) and their spouses/partners and young children (ages 0-5 year). The primary outcome of interest is quality of the soldier parent-child relationship.
- 2009 - 2011 DMC Biostatistician, Data Safety Monitoring Reports for "Protocol Fx1b-201: The Effects of Fx-1006A on Transthyretin Stabilization and Clinical Outcome Measures in Patients with V122I or Wild-Type TTR Amyloid Cardiomyopathy", FoldRx Pharmaceuticals, Inc.
- 2009 - 2010 Project Lead, University of California – San Francisco. DM-STAT designed and implemented Electronic Data Capture System for pathology specimens and related media.
- 2008 - 2010 Project Lead, FoldRx Pharmaceuticals, Inc. "Protocol Fx1b-201: The Effects of Fx-1006A on Transthyretin Stabilization and Clinical Outcome Measures in Patients with V122I or Wild-Type TTR Amyloid Cardiomyopathy". DM-STAT performed statistical analyses for an orphan drug NDA.
- 2008 - 2010 Project Lead, FoldRx Pharmaceuticals, Inc. "Protocol Fx1a-201: The effects of FX-1006A on transthyretin stabilization and clinical outcome measures in patients with non-v30m transthyretin amyloidosis". DM-STAT performed statistical analyses for an orphan drug NDA.
- 2008 - 2010 Project Lead, FoldRx Pharmaceuticals, Inc. "Protocol Fx1a-OS-001: Cross-Sectional Study of the Correlation between Disease Stage and Clinical Outcomes as Measured by the NIS-LL and Norfolk QOL-DN in Patients with Transthyretin-Associated Amyloidosis with Polyneuropathy (ATTR-PN)". DM-STAT performed data management and statistical analyses for an orphan drug NDA.
- 2007 - 2010 Principal Investigator, National Institute on Alcohol Abuse and Alcoholism: "Fetal Alcohol Spectrum Disorders (FASD) in Early Childhood"(1R21AA016747-01). DM-STAT provides data management and performs statistical analyses.

- 2007 - 2008 Project Lead, Living Microsystems. DM-STAT provided Project Management, Data Management, and Statistical Consulting Services for a blinded, prospective, single arm, multi-center study to evaluate the performance of a non-invasive Trisomy 21 diagnostic test for a subsequent PMA filing.
- 2007 - 2009 Principal Investigator of Contract, National Institute on Alcohol Abuse and Alcoholism "Impact of Alcohol Use on HIV Infection - In the United States and Russia"(1K24AA015674-01A1). DM-STAT provided data management and performed statistical analyses.
- 2006 - 2009 Project Lead, Reprosourc. "Utility of screening women for fertility". DM-STAT provided data management and performed statistical analyses for a PMA.
- 2008 Project Lead, The Regents of The University of California "Coached Care for Diabetes Project" (487610-59511). DM-STAT, designed and implemented an electronic participant tracking and data capture system.
- 2007 - 2008 Principal Investigator, National Institute of Child Health and Human Development "Isolating Fetal Cells from Maternal Blood." DM-STAT served as the data coordinating center.
- 2004 - 2008 Principal Investigator, Maternal Fetal Medicine Foundation "Nuchal Translucency Education and Quality Review Program". DM-STAT served as the data coordinating center.
- 2003 - Present Principal Investigator, National Institute of Child Health and Human Development. "Prenatal Alcohol in Sudden Infant Death Syndrome and Stillbirth (PASS) Network" (9 U01 HD055154-04). DM-STAT serves as the data coordinating center.
- 2003 - Present Principal Investigator, National Institute of Child Health and Human Development Collaborative Programs of Excellence in Autism (CPEA)/Studies to Advance Autism Research and Treatment (STAART) Networks "CPEA/STAART Data Coordinating Center", (1U01 HD045023-01). DM-STAT serves as the data coordinating center.
- 2002 - 2003 Principal Investigator, National Institute of Child Health and Human Development "Supplemental Study to "First and Second Trimester Evaluation of Risk for Fetal Aneuploidy (FaSTER) Trial: Nuchal Translucency and the Risk of Congenital Heart Disease". DM-STAT served as the data coordinating center.
- 2000 - 2007 Principal Investigator, National Institute on Alcohol Abuse and Alcoholism (5R01AA12617). "Hospital-Based Brief Intervention for Alcohol Problems". DM-STAT provided data management and performed statistical analyses.
- 2000 - 2005 Principal Investigator, National Institute on Alcohol Abuse and Alcoholism (5R01AA13216). "Clinical Impact of HCV in HIV Substance Abusers". DM-STAT provided data management and performed statistical analyses.
- 1999 - 2003 Principal Investigator, National Institute of Child Health and Human Development (HD38652-01). "First and Second Trimester Evaluation of Risk for Fetal Aneuploidy (FaSTER)". DM-STAT served as the data coordinating center.
- 1997 - 2004 Principal Investigator, National Institute on Alcohol Abuse and Alcoholism (AA11785-01). "Medication Adherence in Alcohol-Abusing HIV Patients". DM-STAT provided data management and performed statistical analyses.
- 1997 - 1998 Statistician, "The MEDSTAT Quality Catalyst™ Program". DM-STAT provided statistical analyses that compared quality of care and satisfaction with health plans.

- 1997 - 1998 Statistician, "Consumer Assessment Health Plans Project". DM-STAT provided statistical analyses that compared quality of care and satisfaction with health plans.
- 1995 - 2004 Principal Investigator, National Institute of Child Health and Human Development (NICHD-CRMC-92-15) "Fetal Cell Isolation Study". DM-STAT served as the data coordinating center.
- 1995 - 1997 Principal Investigator, HSR&D Field Program ENRM VA Medical Center (SDR93-101). "Health Related Quality of Life in Female Veterans". DM-STAT provided data management and performed statistical analyses.
- 1995 - 1997 Principal Investigator, Quality Support Services New England Medical Center, Boston MA, "Patient Satisfaction with Hospital Care". DM-STAT provided data management and performed statistical analyses.
- 1995 - 1996 Principal Investigator, Academic Medical Center Consortium, Rochester, NY. "Quality Measurement and Management Initiative Coronary Revascularization". DM-STAT provided data management and statistical analyses.
- 1991 - 1996 Statistician/Division Data Manager for The Primary Care Outcomes Research Institute, New England Medical Center, Boston MA.
- Supervised all data management and statistical programming activities.
 - Developed, implemented, and coordinated all standard operating procedures.
 - Aided in the development of study design and statistical analysis plans.
- 1990 - 1991 Statistician/Programmer for New England Research Institute, Watertown MA.
- Provided data management support and performed statistical analysis for longitudinal cohort studies
 - Documented findings and aided in manuscript development
- 1989 - 1990 Statistician/Programmer for Quintiles, Inc., Cambridge MA.
- Provided data management and generated statistical reports for Phase I, II and III clinical trials for various therapeutics.
- 1987 - 1989 Systems Analyst for The Health Care Research Unit, University Hospital, located in Boston MA.
- Provided data management and performed statistical analysis.
 - Primary contact for beta test site of PM-DRG grouper and worked with Blue Cross-Blue Shield and the RAND Corporation implementing PM-DRG payment weights.
 - Worked extensively with HCFA tapes.

ACADEMIC APPOINTMENT

- 2007 - Present Adjunct Assistant Professor of Biostatistics, Boston University School of Public Health.
- 1995 - 1996 Instructor, Metropolitan College, Boston University (Taught Introductory Applied Statistics I to non-mathematics majors).

CONSULTING EXPERIENCE

- 2012 - Present Senior Statistician, study design and statistical expertise to validate prenatal diagnostic methodology, CellScape Corporation
- 2011 - Present Statistical reviewer, for the Journal of the American Heart Association.
- 2011 - Present Senior Statistician, statistical analysis for Clinical Trail Data, New Health Sciences.
- 2009 - Present Senior Statistician, for the Data Monitoring Committee for a study on the effects of Fx-1006A on transthyretin stabilization and clinical outcome measures in patients with V122I or wild-type TTR amyloid cardiomyopathy, FoldRx Pharmaceuticals, Inc.

- 2009 - Present Senior Statistician, for protocols and subsequent manuscripts regarding sedation for pediatric CT and MRI Imaging, Children's Hospital Boston.
- 2009 Senior Statistician, developed the study protocol, Case Report Forms, and Consent Forms for a blinded, prospective, single arm, multi-center study to evaluate the performance of a non-invasive Trisomy 21 diagnostic test for a subsequent PMA filing, Artemis Health Inc.
- 2009 Senior Statistician for a 510(k) filing for an automatic cell-location scoring device, Medica Corporation.
- 2009 Senior Statistician for a randomized clinical trial of patients undergoing a urogynecologic surgery, University of Massachusetts Medical School Department of Obstetrics & Gynecology.
- 2008 Senior Statistician developed the study protocol for a 510(k) study of the TiVaMed Vaginal Remodeling System (TVRS) in the Treatment of Vaginal Laxity, TiVaMed, Inc.
- 2007 - 2009 Senior Statistician for a two-stage prospective observational cohort study in scleroderma patients to evaluate screening tests and the incidence of pulmonary arterial hypertension and pulmonary hypertension, Outcome Sciences, Inc.
- 2006 - 2007 Senior Statistician for two clinical trials (1) A prospective, randomized, controlled assessment of once-daily controlled release COREG CR vs twice-daily COREG immediate release on measures of compliance and quality of life in patients with heart failure and left ventricular systolic dysfunction, and (2) A multi-center, randomized, double-blind, placebo-controlled study to evaluate the effect of single oral Tolvaptan tablets on hemodynamic parameters in subjects with heart failure, Cardiovascular Clinical Studies.
- 2006 Lead Auditor, Leerink, Swann & Company. Provided an audit of a software product developed by Eclipsys that imported clinical data into a data warehouse.
- 2004 - 2006 Statistician for various device trials and subsequent 510(k) submissions, Clinivation.
- 2003 Statistician for an asthma trial that evaluated potency of medication, Sepracor, Marlborough, MA.
- 2002 - 2003 Lead Systems and Integration Design Expert, Denver Health Hospital Authority. Developed specifications for data warehouse for the obstetrics and gynecology department.
- 2002 - 2003 Lead Statistician, "Hospital Benchmarking Analysis" with SunClinical Data, a subsidiary of the Eclipsys Corporation.
- 2000 - 2001 Statistician, for a 510(k) filing utilizing Mosaic Technologies Hybriscan System, Capital Management Consulting.
- 2000 - 2004 Statistician, Performed analysis evaluated medical errors in the emergency department, Dynamics Research Institute.
- 2000 Statistical Consultant, Dissertation, "Melanoma Intervention" via website, Marilyn Arnold.

- 2000 Statistical Consultant, Dissertation, "African American Sexual Beliefs and Behaviors", Tracey Lewis.
- 1995 - 1996 Statistical Consultant, New England Medical Center, "Assessing Patient Outcomes after Cataract Surgery," Thomas Hedges, MD.
- 1995 - 1996 Statistical Consultant, Department of Public Health, Iowa, "A State-Based Comparison of Income Inequality and Black and White Infant Mortality in the United States," Edward Schor, MD.
- 1994 Statistical Consultant, Dissertation, "Comparing Family Functioning in Traditional versus Non-Traditional Families," Marcia Krasnow.

PUBLICATIONS

1. Hallett V, Lecavalier L, Sukhodolsky DG, Cipriano N, Aman MG, McCracken JT, McDougle CJ, Tierney E, King BH, Hollander E, Sikich L, Bregman J, Anagnostou E, Donnelly C, Katsoyich L, **Dukes K**, Vitiello B, Gadow K, Scahill L; "Exploring the Manifestations of Anxiety in Children with Autism Spectrum Disorders." *J Autism Dev Disord* (2013) Feb 12. PubMed PMID: 23400347
2. Odendaal HJ, Elliott A, Kinney HC, Human M, Gaspar D, Petersen D, Randall B, Dempers J; Prenatal Alcohol and SIDS and Stillbirth (PASS) Network. "Consent for autopsy research for unexpected death in early life." *Obstet Gynecol* 117(1). (2011):167-71.
3. Dempers J, Sens MA, Wade SA, Kinney HC, Odendaal HJ, Wright CA; PASS Network. "Progressive primary pulmonary tuberculosis presenting as the sudden unexpected death in infancy: a case report." *Forensic Sci Int*. 206(1-3). (2011): 27-30.
4. Scahill L, McCracken JT, Bearss K, Robinson F, Hollander E, King B, Bregman J, Sikich L, **Dukes K**, Sullivan L, Anagnostou E, Donnelly C, Kim YS, Ritz L, Hirtz D, Wagner A. "Design and Subject Characteristics in the Federally-Funded Citalopram Trial in Children with Pervasive Developmental Disorders." *J Autism Dev Disord*. (2011) Jun 11. [Epub ahead of print]. PMID: 21667200
5. D'Alton ME, Cleary-Golman J, Lambert-Messerlian G, Ball RH, Nyberg DA, Comstock CH, Bukowski R, Berkowitz RL, Dar P, Dugoff L, Craigo SD, Timor IE, Carr SR, Wolfe HM, **Dukes K**, Canick JA, Malone FD (2009): "Maintaining quality assurance for sonographic nuchal translucency measurement: lessons from the FASTER Trial." *Ultrasound Obstet Gynecol*. 2009 Feb; 33(2): 142-6. PubMed PMID: 19173241.
6. Bertholet N, **Dukes K**, Horton NJ, Palfai TP, Pedley A, Saitz R. "Factor structure of the SOCRATES questionnaire in hospitalized medical patients." *Addict Behav*. (2009) Jun-Jul;34(6-7):568-72. Epub 2009 Mar 24. PubMed PMID: 19395177; PubMed Central PMCID: PMC2683890.
7. Saitz R, Palfai TP, Cheng DM, Horton NJ, **Dukes K**, Kraemer KL, Roberts MS, Guerriero RT, Samet JH. "Some medical inpatients with unhealthy alcohol use may benefit from brief intervention." *J Stud Alcohol Drugs*. (2009) May;70(3):426-35. PubMed PMID: 19371494; PubMed Central PMCID: PMC2670748.
8. King BH, Hollander E, Sikich L, McCracken JT, Scahill L, Bregman JD, Donnelly CL, Anagnostou E, **Dukes K**, Sullivan L, Hirtz D, Wagner A, Ritz L; STAART Psychopharmacology Network. "Lack of efficacy of citalopram in children with autism spectrum disorders and high levels of repetitive behavior: citalopram ineffective in children with autism." *Arch Gen Psychiatry*. (2009) Jun;66(6):583-90.
9. **Dukes KA**, Sullivan LM (2007). A review of basic biostatistics. *In Evaluating Techniques in Biochemical Research*, D. Zuk, ed. (Cambridge, MA: Cell press).

10. Saitz R, Palfai TP, Cheng DM, Horton NJ, Freedner N, **Dukes K**, Kraemer KL, Roberts MS, Guerriero RT, Samet JH. "Brief intervention for medical inpatients with unhealthy alcohol use: a randomized, controlled trial." *Ann Intern Med.* (2007) Feb 6;146(3):167-76. PubMed PMID: 17283347.
11. Eddleman KA, Malone FD, Sullivan L, **Dukes K**, Berkowitz RL, Kharbutli Y, et al. (2006): "Pregnancy loss rates after midtrimester amniocentesis." *Obstet Gynecol*, 108(5):1067-72.
12. Lumley MA, Zamerowski ST, Jackson L, **Dukes KA**, Sullivan LM, (2006): "Psychosocial Correlates of Pregnant Women's Attitudes Toward Prenatal Maternal Serum Screening and Invasive Diagnostic Testing: Beyond Traditional Risk Status." *Genetic Testing*, Vol. 10, Issue 2.
13. Malone FD, Canick JA, Ball RH, Nyberg DA, Comstock CH, Bukowski R, Berkowitz RL, Gross SJ, Dugoff L, Craigo SD, Timor-Tritsch IE, Carr SR, Wolfe HM, **Dukes KA**, Bianchi DW, Rudnicka AR, Hakshaw AK, Lambert-Messerlian G, Wald NJ, D'Alton ME. (2005): "A Comparison of First Trimester Screening, Second Trimester Screening, and the Combination of Both for Evaluation of Risk for Down Syndrome." *New England Journal of Medicine*, 353:2001-2011.
14. Malone FD, Ball RH, Nyberg DA, Comstock CH, Saade GR, Berkowitz RL, Gross SJ, Dugoff L, Craigo SD, Timor-Tritsch EL, Carr SR, Wolfe HM, **Dukes KA**, Canick JA, Bianchi DW, D'Alton ME, (2005): "First-Trimester Septated Cystic Hygroma. Prevalence, Natural History and Pediatric Outcome." *Obstetrics & Gynecology*. Vol. 106; 288-294.
15. Samet JH, Horton NJ, Meli S, **Dukes K**, Tripps T, Sullivan L, Freedberg KA. "A randomized controlled trial to enhance antiretroviral therapy adherence in patients with a history of alcohol problems." *Antivir Ther.* (2005);10(1):83-93. PubMed PMID: 15751766.
16. Johnson KL, **Dukes KA**, Vidaver J, LeShane ES, Ramirez I, Weber WD, Bischoff FZ, Hahn S, Sharma A, Dang DX, Hire LH, Bianchi DW, Simpson JL, Holzgreve W, Elias S, Klinger KW (2004): "Interlaboratory comparison of fetal DNA detection from common maternal plasma samples using real-time PCR." *Clinical Chemistry* 50(3) (2004): 516-521.
17. **Dukes KA**, Sullivan LM, Lewis D, Johnson KL, Bianchi DW, Simpson JL, Holzgreve W, Hahn S, Bischoff FZ, Jackson LG (2004): "The effect of the elapsed time between blood draw and processing on the recovery of fetal cells from maternal blood." *J Soc Gynecol Investig.* (2004) Apr;11(3):154-65.
18. Palepu A, Horton NJ, Tibbetts N, **Dukes K**, Meli S, Samet JH. "Substance abuse treatment and emergency department utilization among a cohort of HIV-infected persons with alcohol problems." 25 (2003): 37-42.
19. Morey JC, Simon R, Jay GD, Wears RL, Salisbury M, **Dukes KA**, Berns SD. (2002): "Error reduction and performance improvement in the emergency department through formal teamwork training: evaluation results of the MedTeams project". *Health Services Research.* (2002) Dec; 37(6):1553-81.
20. Wilson IB, **Dukes KA**, Greenfield S, Kaplan SH, Hillman B (2001): "Patients' role in the use of radiology testing for common office practice complaints." *Archives of Internal Medicine*, 161:256-263.
21. Zamerowski ST, Lumley MA, Arreola RA, **Dukes KA**, Sullivan LM (2001): "Women undergoing invasive diagnostic testing have favorable attitudes towards testing for chromosomal abnormalities via analysis of fetal cells in maternal blood." *The Official Journal of the American College of Medical Genetics*, 3(4):301-9.
22. Zamerowski ST, Lumley MA, Arreola RA, **Dukes K**, Sullivan L. "Favorable attitudes toward testing for chromosomal abnormalities via analysis of fetal cells in maternal blood". *Genet Med.* (2001) Jul-Aug;3(4):301-9.
23. Bianchi DW, Simpson JL, Jackson LG, Evans MI, Elias S, Holzgreve W, Sullivan LM, de la Cruz F, **DM-STAT, Inc.** on behalf of the NICHD Fetal Cell Study (NIFTY) Group. "Fetal cells in maternal blood: NIFTY clinical trial interim analysis." Letter to the Editor: *Prenat Diagn* 19 (1999): 994-995.

24. Stier DM, Greenfield S, Lubeck DP, **Dukes K**, Flanders SC, Henning JM, Weir AB, Kaplan SH (1999): "Quantifying Comorbidity in a Disease-Specific Cohort: The adaptation of the total illness burden index to prostate cancer." *Urology*. 54:424-429.
25. Sullivan LM, **Dukes KA** & Losina E (1999): Tutorial In Biostatistics: "An introduction to hierarchical linear modeling." *Statistics in Medicine* Vol 18(7), 855-888, 1999.
26. Zamerowski S, Lumley M, Arreola RA, **Dukes K**, Khan A, Sullivan L. "The psychosocial impact on high-risk pregnant women of a noninvasive prenatal diagnostic test". *Fetal Diagn Ther.* (1999) Mar-Apr;14(2):125-6.
27. Silliman RA, **Dukes KA**, Sullivan LM, Kaplan SH (1998): "Breast cancer care in older women: Sources of information, social support and emotional health outcomes." *Cancer*, August 15, 1998, Vol 83, No. 4: 706-711.
28. Meigs JB, Singer DE, Sullivan LM, **Dukes KA**, D'Agostino RA, Nathan DM, et. al. (1997): "Metabolic control and cardiovascular prevalent disease in non-insulin dependent diabetes mellitus (NIDDM): The NIDDM patient outcomes research team." *The American Journal of Medicine*, Vol. 102: 38-47.
29. Silliman RA, Bhatti S, Khan A, **Dukes KA**, Sullivan LM. "The care of older persons with Diabetes Mellitus: Families and primary care physicians." *Journal of the American Gerontology Society* 44(11) (1996): 1314-1321.
30. Kaplan SH, Sullivan LM, **Dukes KA**, Phillips CF, Kelch RP, Schaller JG October (1996): "Sex differences in academic advancement: Results of a national study of academic pediatricians." *New England Journal of Medicine*, 335 (17) 1282-1289.
31. Kaplan SH, Sullivan LM, **Dukes KA**, Khan A, Wilson IB, Wagner E, Shea J, Schwartz S, Greenfield S. "Underestimating the hassle factor. Using disease-specific vs. general health status measures to evaluate medical care." *International Journal for Quality in Health Care*, Volume 8, Number 4, August (1996), pp. 412-413(2).
32. **Dukes, KA**. "Issues in health policy research: Questionnaire design, data collection and management, Scale Construction and Testing." *Health Policy Review Newsletter, American Statistical Association Section on Health Policy* 1(1) (1995).
33. Eckman ME, Greenfield S, Mackey WC, Wong JB, Kaplan SH, Sullivan LM, **Dukes KA**, Pauker SG (1995): "Foot infections in diabetic patients: Decision and cost-effective analysis." *Journal of the American Medical Association*, Vol. 273(9), 712-720.
34. Greenfield S, Sullivan LM, **Dukes KA**, Silliman R, D'Agostino RB, Kaplan SH (1995): "Development and testing of a new measure of case mix for use in office practice." *Medical Care*, Vol. 33(4), AS47-AS55.
35. Sullivan LM, **Dukes KA**, Harris L, Dittus RS, Greenfield S, Kaplan SH. "A comparison of various methods of collecting self-reported health outcomes data among low income and minority patients." *Medical Care* 33(4) (1995): AS183-AS194.
36. Greenfield S, Sullivan LM, Silliman RA, **Dukes KA**, Kaplan SH. "Principles and practice of case-mix adjustment: Applications to end stage renal disease." *American Journal of Kidney Diseases* 24(2) (1994): 298-307.
37. Milner PF, Kraus AP, Sebes JI, Sleeper LA, **Dukes KA**, et al. "Osteonecrosis of the humeral head in sickle cell disease." *Clinical Orthopaedics and Related Research* 289 (1993): 136-143.
38. D'Agostino RB, **Dukes KA**, Massaro JM, and Zhang Z. "Data/variable reduction by principal components, battery reduction and variable clustering." *Proceedings of the Fifth Annual Conference of the Northeast SAS Users Group* (1991): 464-474.

39. Milner PF, Kraus AP, Sebes JI, Sleeper LA, **Dukes KA**, et al (1991): "Sickle cell disease as a cause of osteonecrosis of the femoral head." *New England Journal of Medicine* 325 (1991): 1476-1481. *Note: Same article appeared in *Yearbook of Pediatrics* (1991) and *Annual Review of Hematology* (1991).

BOOK CHAPTERS

1. **Dukes KA**. Cronbach's Alpha in Encyclopedia of Biostatistics, Section 13, Multivariate Analysis. John Wiley & Sons, Ltd. Sussex, England, 1998.
2. **Dukes KA**. Gram-Schmidt Process in Encyclopedia of Biostatistics, Section 13, Multivariate Analysis. John Wiley & Sons, Ltd. Sussex, England, 1998.
3. **Dukes KA**. Likert Scale in Encyclopedia of Biostatistics, Section 13, Multivariate Analysis. John Wiley & Sons, Ltd. Sussex, England, 1998.
4. Kaplan SH, Sullivan LM, Spetter DS, **Dukes KA**, Khan A, Greenfield S (1996): "Gender and patterns of physician-patient communication in" Falik M and Collins KS (co-eds) The Commonwealth Fund Survey, Women's Health and Care-Seeking Behavior, Johns Hopkins University Press, Baltimore, MD, Chapter 3:76-95.

PRESENTATIONS/ABSTRACTS

1. Malone FD, Ball RH, Nyberg DA, Comstock CH, Saade G, Berkowitz RL, Gross SJ, Dugoff L, Craigo SD, Timor-Tritsch IE, Carr SR, Wolfe HM, **Dukes K**, Canick JA, Bianchi DW, D'Alton ME. "First Trimester Septated Cystic Hygroma – Prevalence, Natural History, and Pediatric Outcome". *Obstetrics & Gynecology*, 106;288-294, (2005).
2. Fergal D. Malone, Nicholas J. Wald, Jacob A. Canick, Robert H. Ball, David A. Nyberg, Christine H. Comstock, Radek Bukowski, Richard L. Berkowitz, Susan J. Gross, Lorraine Dugoff, Sabrina D. Craigo, Ilan E. Timor, Stephen R. Carr, Honor M. Wolfe, **Kimberly A. Dukes**, Diana W. Bianchi, Alicja Rudnicka, Allan Hackshaw, Geralyn Lambert-Messerlian, Mary E. D'Alton. First- and Second-Trimester Evaluation of Risk (FASTER) Trial: Principal results of the NJCHD Multicenter Down Syndrome Screening Study". Abstract presented at the 24th Annual meeting of Society for Maternal-Fetal Medicine (SMFM). February (2004).
3. Bianchi DW, Simpson JL, Jackson LG, Elias S, Holzgreve W, Evans MI, **Dukes KA**, Sullivan LM, Klinger KW, Bischoff FZ, Hahn S, Johnson KL, Lewis D, Wapner RJ, de la Cruz F. (2002): "Fetal gender and aneuploidy detection using fetal cells in maternal blood: analysis of NIFTY I data." *Prenat Diagn*, Vol. 22: 609-15.
4. Kaplan SH, **Dukes KA**, Sullivan LM, Tripp TJ, Greenfield S. "Is passivity a risk factor for poor health outcomes?" *J Gen Int Med* (1996): 11(Supp 1):76.
5. Greenfield S, Sullivan LM, **Dukes KA**, D'Agostino R, Dittus R, Wagner E, Kaplan SH. "Estimating the Impact of Total Illness Burden on Patient Outcomes Among Patients with Non-Insulin Dependent Diabetes: A Comparison of Three Co-Morbidity Measures". *J Gen Int Med* (1995); 10(Apr Supp):67.
6. Invited Short Course. "Scaling and Questionnaire Design." Presented at the International Conference on Health Policy Research, American Statistical Association. December (1995). Boston, Massachusetts.
7. Invited Speaker. "Data Management" Presented at the New England Healthcare Assembly, Outcomes Management Certificate Program. April (1995). Boston, Massachusetts.
8. Special Contributed Session. "Primary Data Collection and Data Management in a Population of Chronically Ill, Community Dwelling, Type II diabetics," **KA Dukes**. Presented at the 154th Annual Meeting of the American Statistical Association. August (1994). Toronto, Canada.

9. **KA Dukes**, SH Kaplan, LM Sullivan, RA Silliman, S Greenfield, RB D'Agostino, E Wagner. "The Differential Effect of Physicians' Egalitarian Decision -Making Style on Health Outcomes of Women with Type II Diabetes." Contributed paper presented at the 17th Annual Meeting of the Society of General Internal Medicine April (1994). Washington, DC.
10. Sullivan LM, **Dukes KA**, Harris L, Dittus RS, Greenfield S, Kaplan SH. "A comparison of various methods of collecting self-reported health outcomes data among low income and minority patients." Presented at the Conference on Measuring the Effects of Medical Treatments, sponsored by the Agency for Health Care Policy and Research. April (1994). Minneapolis, MN.
11. LM Sullivan, SH Kaplan, **KA Dukes**, RB D'Agostino, RA Silliman, S Greenfield, L Harris, R Dittus. "The effects of income vs ethnicity on health habits and health status of Type II diabetics". Presented at the 17th Annual Meeting of the Society of General Internal Medicine. April (1994). Washington, DC.
12. D'Agostino RB, **Dukes KA**, Massaro JM, and Zhang Z. "Data/Variable Reduction by Principal Components, Battery Reduction and Variable Clustering," Contributed paper presented at the Fifth Annual Conference of the Northeast SAS Users Group. October (1992). Baltimore, MD.

TRAININGS

Protecting Human Research Participants. Presented by NIH. 04/24/13, 04/16/12, 04/18/11, 04/02/10, 04/23/09, 4/04/2008, 4/09/2007, and 12/05/2005.

SOP's For SAS Programming: Tools for 21 CFR Part 11 Compliance. Joshua Sharlin, PhD, Sharlin Consulting (January, 2006).

Testing SAS: A Key to Part 11 Compliance. Joshua Sharlin, PhD, Sharlin Consulting (March, 2006).

Computerized Systems Used in Clinical Investigations: FDA's Most Recent Guidance on Part 11 Regulations. Joshua Sharlin, PhD, Sharlin Consulting (June, 2007).