

## **LISA ANN KALTENBACH, M.S.**

*Lisa.Kaltenbach@vanderbilt.edu*

Department of Biostatistics

Campus: S-2323 MCN, Mail: 1161 21<sup>st</sup> Ave South

Nashville, TN 37232-2158

Phone: (615)343-2276, Fax:: (615) 343-4924

### **EDUCATION**

#### **Clemson University** Clemson, SC

Masters of Science, May 2005

Major: Mathematical Sciences with a focus on Statistics

*Master's Project*, Do low-quality embryos alter pregnancy rate in an Assisted Reproductive Technology (ART) program?

#### **Baldwin-Wallace College** Berea, OH

Bachelor of Science, May 2003

Major: Mathematics, Education, Certified grades 7-12

### **COMPUTER SKILLS**

**Operating systems:** Linux, Windows, and UNIX.

**Statistical Software:** Stata, SAS, R, SPSS, Statistix, Matlab, and ITSM.

**Other software:** LaTeX, Beamer, Microsoft Word, Excel, Power Point, Blackboard.

### **WORK EXPERIENCE**

*Biostatistician II*, 10/06-6/07, 10/07-present

**Vanderbilt University** Nashville, TN

#### **Research**

- Key functions performed: collaborated on data integrity, analysis, presentation, and publication of numerous research projects.
  - Assisted in design of questionnaires and procedures to collect, maintain, and verify data.
  - Utilize computer software to perform planned analyses and to create graphs.
    - Descriptive statistics, linear regression, logistic regression, survival analyses, Poisson regression, marginal predictions, bootstrapping, analysis of missing data, imputations, adjusted proportions, sensitivity analysis, propensity scores, risk score, simulations, and probability weighted survey data.
  - Assist with methodological research related to propensity scores and risk score adjustment.

#### **Teaching**

##### **Masters of Public Health Program, Preventive Medicine**

- Participated in writing and revision of protocols for MPH theses, by providing sample size/power calculations and justifications, and statistical analysis plans.
- Generate, share, and explain Stata code to assist MPH students with thesis and coursework.
- September 2008: *Assistant Teacher/Tutor*, Biostatistics I for MPH.

- Led weekly tutorials applying skills taught throughout week.
- Graded homework and tests.
- Tutored students daily.

### **Emphasis Program**

#### *Biostatistics Information Sessions*

- Co-presented five one-hour lectures to medical students covering various research-related topics, 1/07- 4/07.

#### *Biostatistician, 6/07-9/07*

#### **Cleveland Clinic** Cleveland, OH

- Utilize computer software to perform analyses and to create graphs for various heart research projects.

#### *Biostatistician II, 8/05- 9/06*

#### **Wake Forest University** Winston-Salem, NC

- Write statistical computer programs and review computer output for consistency and quality; analyze data and prepare tables for interim and final reports, including grant proposals, Data Safety Monitoring Board (DSMB), and conference calls.
- Utilized SAS to manage, clean, transform data sets, build models, employ Generalized Estimating Equations (GEE), longitudinal data analysis, factor analysis, regression.
- Participated in Steering Committee meeting in Charlotte, NC for multicenter clinical trial, February 2006.
- Consulting work with Orthopedic Surgeon.

#### *Intern, 8/02-5/03*

#### **Greenville Memorial Hospital** Greenville, SC

- Used SPSS, SAS, Matlab, and Excel to perform a profile analysis, Chi-squared tests, logistic regression, GEE.
- Collaborated with doctors to analyze data from 337 cycles of Assisted Reproduction Technology procedures on about 300 patients.

#### *Teacher of Record, MthSc 101: Essential Mathematics for the Informed Society, Fall 2004, Spring 2005*

#### **Clemson University** Clemson, SC

- Taught essential topics in Graph Theory, Financial Mathematics, Probability, and Statistics.

#### *Teacher Assistant, MthSc 103: Elementary Functions*

#### **Clemson University** Clemson, SC

- Taught lab section of 20 students.

#### *Student Teacher, Algebra II/Trig, Geometry Honors, Fundamentals of Algebra I, Spring 2003*

#### **Midpark High School** Middleburg Heights, OH

- Taught lessons, created and graded homework, quizzes, tests, and projects.

#### *Mathematics Methods, Algebra II, Fall 2002*

## **Berea High School Berea, OH**

*Instructor*, Summer 2003, Summer 2004, and Summer 2005.

### **Barbara Byrd Bennett Program Berea, OH**

- Developed and taught lessons on general topics required for the Ohio Graduation test in Mathematics.
- Team taught high school students in a three hour daily course.

## **PRESENTATIONS**

### **Department of Biostatistics, Vanderbilt University**

#### ***Biostatistics Department Weekly Seminar Series***

- May 2009: Poisson Regression: Let me count the uses!

#### ***Journal Club for MS Biostatisticians***

- April 2009: Interrupted Time Series Analysis.

#### ***Continuing Education for MS Biostatisticians***

- November 2008: Poisson Regression: Let me count the uses!
- June 2007: Intro to Epidemiology.

### **CRC Research Skills Workshop, Vanderbilt University**

- February 2009: Introduction to Stata.
- January 2009: How to Use Poisson Methods.
- August 2008: Part 2: How to Use Generalized Estimating Equations.
- August 2008: Part 1: How to Use Generalized Estimating Equations.
- April 2008: How to Use Propensity Score Analysis.
- May 2007: How to Begin Using Stata.

### **Biostatistics Seminar Series, Wake Forest University**

- February 2006: Marginal Models: Generalized Estimating Equations.

## **SERVICE**

- Serve as member of the Recognition and Rewards committee.
- Serve as member of the MS Search committee in recruiting new candidates, phone and in-person interviews, and reference checks.
- Founder and Chair of Biostatistics Department Continuous Quality Improvement Project: *Fun Committee Chair*
  - Organize and execute fun surprises for department quarterly meetings.
  - Plan and arrange department events with a tight budget: farewell parties, wedding showers, promotions, holiday events, to celebrate department success, welcoming new members.

## **CONTINUING EDUCATION**

### **Courses**

- Epidemiology II, Wayne Ray. Master of Public Health Course 2007, Vanderbilt University, Nashville, Tennessee.
- Regression Modeling Strategies, Frank E. Harrell, Jr. Department of Biostatistics Short Course 2008, Vanderbilt University, Nashville, Tennessee.

- Competing Risks Short Course, ENAR 2008.
- Statistical Computing Using R (with Graphics) ENAR 2008.

#### **Regularly attend**

- Weekly meeting for MS-level statisticians.
- Weekly department seminar.

### **MEMBERSHIPS**

- ENAR, ASA.

### **HONORS**

- 2003 Kappa Mu Epsilon Honor Society.
- 2002 Dr. E.S. Loomis Mathematics Prize.
- 2003 Charles & Elsie Little Scholarship.
- 2000-2003 Alpha Phi Sorority.
- 2005 Clemson University Award for Excellence in Teaching.

### **PUBLICATIONS**

- **Kaltenbach, L**, H. L. Higdon III, H. F. Senter, and W. R. Boone. 2005. *Do low-quality embryos alter pregnancy rate in an Assisted Reproductive Technology (ART) program?*. Bulletin of the South Carolina Academy of Science Meetings. Volume LXVII:86 (Abstr.).
- Pahor, M. et.al. Effects of a physical activity intervention on measures of physical performance: results of the Lifestyle Interventions and Independence for Elders pilot (LIFE-P) study. *Journal of Gerontology: Medical Sciences* 2006; 61A: 1157-1165.
- Arbogast PG, **Kaltenbach L**, Ding H, Ray WA. Adjustment of multiple cardiovascular risk factors with a summary risk score. *Epidemiology* 2008; 19: 30-7.
- Roumie CL, Mitchel EF, **Kaltenbach L**, Arbogast PG, Gideon P, Griffin MR. Non Aspirin NSAIDs, Cyclo-Oxygenase 2 Inhibitors and the Risk for Stroke. *Stroke* 2008; 39(7): 2037-45.
- Cooper WO, Hernandez-Diaz S, Arbogast PG, Dudley J, Dyer S, Gideon P, Hall K, **Kaltenbach L**, Ray WA. Antibiotics potentially used in response to bioterrorism and the risk of major congenital malformations. *Paediatric and Perinatal Epidemiology* 2008; 23: 18-28.
- Cotton BA, Glass NE, **Kaltenbach LA**, Arbogast PG. The Impact of Beta-Blocker on Anemia after Traumatic Brain Injury. Quick-shot Mini Oral presentation, AAS 2009.
- Song E, Reboussin BA, Long Foley K, **Kaltenbach L**, Wagoner K, Wolfson M. Selected Community Characteristics and Underage Drinking. *Substance Use Misuse* 2009; 44(2):179-94.
- Roumie CL, Choma NN, **Kaltenbach L**, Mitchel EF, Arbogast PG, Griffin MR. Non Aspirin NSAIDs, Cyclo-Oxygenase 2 Inhibitors and the Risk for Cardiovascular Events. *Pharmacoepidemiology and Drug Safety*.
- Arbogast PG, **Kaltenbach L**, Ray WA. Performance of Disease Risk Scores, Propensity Scores, and Traditional Multivariable Regression in the Presence of Multiple Confounders. *American Journal of Epidemiology*.

- Presentation at the South Carolina Academy of Science Annual Meeting, March 2005. *Do low-quality embryos alter pregnancy rate in an Assisted Reproductive Technology (ART) program?*
- Presentation at the South Carolina American Statistical Association Meeting, April 2005.
- Poster Presentation at American Society for Reproductive Medicine (ASRM), September 2005. *Can one bad apple spoil the whole bunch? A retrospective analysis of pregnancy rates as impacted by transferring embryos of poor quality with good quality embryos.*
- Poster Presentation at (RSA): “Defining High-Risk Drinking: Combining Frequency, Quantity, Time Frame and Subjective Perception”, June 2006.

### **SUBMITTED FOR PUBLICATION OR IN REVISION:**

- Choma, NN, Griffin MR, Huang RL, Mitchel EF, **Kaltenbach LA**, Gideon P, Dyer S, Roumie CL. Validation of ICD-9 Code 410 to Identify Hospitalizations for Incident Acute Myocardial Infarction.
- Roumie CL, Greevy R, Wallston KA, Elasy TA, **Kaltenbach L**, Kotter, K, Dittus RS, Speroff T. Self reported patient centered care and activation level predicts medication adherence and blood pressure control among veterans with hypertension.
- Fiske CT, Griffin MR, Holt E, Warkentin J, **Kaltenbach L**, Arbogast PG, Sterling TR. Race and sex differences in the Risk of Extrapulmonary Tuberculosis.
- Williams DJ, Arbogast PG, Dudley JA, **Kaltenbach LA**, Cooper WO. Trends in Antidepressant Prescribing for US children and Adolescents: Effects of Regulatory Warnings.
- Ngo T, Dummer JS, Talbot TR, **Kaltenbach LA**, Arbogast PG, Wright JK, Geevarghese S, Miller GG. Effect of Differing Anti-microbial prophylaxis regimens on surgical site infections following liver transplantation.
- Warren MD, Arbogast PG, Dudley JA, **Kaltenbach LA**, Ray WA, Wang WC, Cooper WO. Early Initiation of Antibiotic Prophylaxis for Infants with Sickle Cell Disease.