

## Steven A. Lewis

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### Objective:

To work as a Biostatistician who collaborates with clinicians and/or principal investigators on biomedical research studies.

### Education:

University of Cincinnati (UC) – MS in Statistics, JUN 2002

- ❖ Mathematical Statistics, Linear Models, Multivariate Methods, Experimental Design, Survival Analysis, Bayesian Analysis, Epidemiology, Statistical Consulting.

The Ohio State University (OSU) – BS in Statistics, JUN 1984

- ❖ Probability and Statistics, Regression Analysis, Categorical Data Analysis, Non-parametric Statistics, Survey Sampling, Statistical Programming.

### Relevant Work Experience:

Case Western Reserve University (CASE) at MetroHealth Medical Center, Cleveland OH – Biostatistician, DEC 2004 to Present

- ❖ Collaborates with physicians and Principal Investigators. Consults concerning analysis and study design.
- ❖ Provides sample size and power calculations for studies.
- ❖ Performs statistical analyses for abstracts, manuscripts and grants.
- ❖ Writes or assists in writing method sections of manuscripts and statistical analysis plans (SAPs) for grant proposals.
- ❖ Prepares analysis results for research meetings in the form of tables and graphs.
- ❖ Abstracts relevant information from large public health data sets. E.g.s., Healthcare Cost and Utilization Project (HCUP) and Health and Retirement Study (HRS).
- ❖ Manages in-house study databases (e.g., Advanced Cancer Care Study).
- ❖ Designs data collection instruments using REDCap.
- ❖ Teaches basic statistics and statistical programming courses using SAS, R, and Minitab software.

MedPACE Inc., Cincinnati OH – Statistical Analyst, OCT 2002 to SEP 2004

- ❖ Prepared study tables, listings and graphs agreed upon in statistical analysis plans and protocols for CRO conducting drug trials in the cardiovascular and metabolic fields. Responsible for analysis programming, QC programming, derived dataset creation, and data cleaning.

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### Areas of Expertise

Generalized Linear Models, Categorical Data Analysis, Survival Analysis, Multivariate Methods, Sample Size/Power Determination, Large Database Management, Statistical Programming, and Statistical Graphics.

### Areas of Application

Gastroenterology, Nephrology, Rheumatology, Cardiology, Oncology, Diabetes, Gerontology, Physical and Rehabilitation Medicine, Infectious Diseases.

### Software Use:

#### Statistical Analysis

- ❖ SAS 9.4, R with Rstudio, STATA 11, Minitab 17
- ❖ Mplus, MedCalc

#### Power/Sample Size

- ❖ PASS 13, PROC POWER/GLMPOWER (SAS)

#### Online Surveys and Databases

- ❖ REDCap, Explorys

#### Data Import / Export

- ❖ StatTransfer 10

### Career Development – Statistical Methods:

- ❖ Examining the Health and Retirement Study (2014)
- ❖ An Arboretum of Graphics – M. B. Rao (2013)
- ❖ Applied Longitudinal Analysis – Garrett Fitzmaurice (2008)
- ❖ Regression Modeling Strategies – Frank Harrell, Jr. (2007)
- ❖ Causal Inference in Experimental and Observational Studies – Donald B. Rubin (2006)
- ❖ Survival Analysis: Statistical Methods for Censored and Truncated Data – Melvin L. Moeschberger (2005)

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### Career Development – Statistical Programming:

#### SAS Certified Professional (2008)

- ❖ SAS Certified Base Programmer for SAS9
- ❖ SAS Certified Advanced Programmer for SAS9



#### SAS Institute Training

- ❖ SAS Programming III: Advanced Techniques & Efficiencies (2007)
- ❖ SQL Processing with SAS (2005)
- ❖ SAS Macro Language (2003)

### Teaching Experience:

#### Introduction to Clinical Research – Co-Instructor

- ❖ CASE Summer Semester: 2010 to present.

#### R Programming – Instructor

- ❖ CASE Summer Semester: 2009 to present.

#### SAS Programming – Instructor

- ❖ CASE Fall Semester: 2006 to 2008.

#### R Supplement – Statistics Tutorials – Online Instructor

- ❖ CASE: Webinars and materials made available in December 2012.
- ❖ [http://www.chrp.org/CRSP\\_SUPPLEMENT/CRSP\\_SUPPLEMENT.zip](http://www.chrp.org/CRSP_SUPPLEMENT/CRSP_SUPPLEMENT.zip)

#### Large Database Management – Lab Assistant. Prepared solutions to exercises and acted as substitute during instructor's absence. Used HCUP data.

- ❖ CASE Winter Semester: 2005 to 2007

### Awards/Honors:

The study, titled "Trends in Rehabilitation Therapist Workforce in Underserved Areas 1980 – 2000," was selected for the Electrode Store Best Paper Presentation at Association of Academic Physiatrists (AAP) Annual Meeting. It examined the supply of physical, occupational, and speech therapists in rural and medically underserved areas in the United States.

### Professional Organizations:

#### American Statistical Association (ASA)

- ❖ Chapter Affiliation: Cleveland, OH
- ❖ Sections: Biometrics and Statistical Consulting

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### Select Peer-Reviewed Publications:

1. Abdallah , J, Maradey-Romero C, **Lewis SA**, Perzynski A, Fass R. The relationship between length of Barrett's esophagus mucosa and body mass index. *Alimentary Pharmacology & Therapeutics*. 2014 October DOI: 10.1111/apt.12998.
2. Gunzler D, Perzynski A, Morris N, Bermel R, Lewis SA, Miller D. Disentangling Multiple Sclerosis and Depression: An Adjusted Depression Screening Score for Patient-Centered Care. *Journal of Behavioral Medicine*. 2014 June; DOI 10.1007/s10865-014-9574-5.
3. Bolen S, Chandar A, Falck-Ytter C, Tyler C, Perzynski A, Gertz A, Sage P, Lewis SA, Cobabe M, Ye Y, Menegay M, Windish D. Effectiveness and safety of patient activation interventions for adults with type 2 diabetes: systematic review, meta-analysis, and metaregression. *Journal of General Internal Medicine*. 2014 April; DOI: 10.1007/s11606-014-2855-4.
4. Kaufman ES, Lewis SA, Leo P, Aswath G, Ziv O, Fendelander L. Microvolt-level T-wave alternans determination using the spectral method in patients with QT prolongation: value of adjusting the T-wave window. *J Electrocardiol*. 2012 Nov-Dec; 45(6):758-63.
5. Curfman AL, Reljanovic SM, McNelis KM, Dong TT, Lewis SA, Jackson LW, Cromer BA. Premature Thelarche in Infants and Toddlers: Prevalence, Natural History and Environmental Determinants. *J Pediatr Adolesc Gynecol*. 2011 Dec; 24 (6):338-41 22099730
6. Wilson RD, Lewis SA, Dicianno BE. Targeted Preventive Care May Be Needed for Adults with Congenital Spine Anomalies. *Physical Medicine and Rehabilitation*; Vol. 3, 730-738, August 2011.
7. Sudano JJ, Perzynski A, Love TE, Lewis SA, Murray PM, Huber GM, Ruo B, Baker DW. Measuring Disparities: Bias in the Short Form-36v2 Among Spanish-speaking Medical Patients. *Med Care* 2011; 49 (5): 480-488.
8. Wilson RD, Lewis SA, Murray PK. Trends in Rehabilitation Therapist Workforce in Underserved Areas 1980 to 2000. *J of Rural Health* 2009;25 (1):26-32.
9. Rose JH, Bowman KF, Radziewicz R, Lewis SA, O'Toole EE, Predictors of Engagement in a Coping and Communication Support Intervention for Older Patients with Advanced Cancer. *J American Geriatrics Society* 2009; 57: S296-S299.
10. O'Toole EO, Step MM, Engelhardt K, Lewis SA, Rose JH, The Role of Primary Care Physicians in Advanced Cancer Care: Perspectives of Older Patients and their Oncologists. *J American Geriatrics Society* 2009; 57: S265-S268.
11. Stevens T, Conwell DL, Zuccaro, Jr. G, Lewis SA, Love T. The Efficiency of Endoscopic Pancreatic Function Testing Is Optimized Using Duodenal Aspirates at 30 and 45 Minutes After Intravenous Secretin. *Am J Gastroenterol* 2007;102:297-301.

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References:

- ❖ Available upon request