

# Thomas E. Love, Ph.D.

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## Personal

Born on February 14, 1967. United States Citizen. Married, two children.

## Education

Ph.D. Statistics, The Wharton School, University of Pennsylvania, 1994.

M.S. Statistics, The Wharton School, University of Pennsylvania, 1992.

M.S. Mathematics Education, Teachers College, Columbia University, 1990.

M.A. Mathematics Education, Teachers College, Columbia University, 1989.

A.B. Mathematics, Columbia College, Columbia University, 1988.

## Professional Appointments

Associate Professor of Medicine, School of Medicine, Case Western Reserve University, 2007-present (Primary).

Associate Professor of Epidemiology & Biostatistics, School of Medicine, Case Western Reserve University, 2009-present.

Director, Biostatistics & Evaluation Unit, Center for Health Care Research & Policy, Case Western Reserve University at MetroHealth Medical Center, 2001-present.

Bioscientific-B Medical Staff, Department of Medicine, The MetroHealth System, 2010-present.

Assistant Professor of Medicine, Case Western Reserve University, 2001-2007.

Assistant Professor of Operations, Weatherhead School of Management, Case Western Reserve University, 1994-2007.

Lecturer, Department of Statistics, The Wharton School, University of Pennsylvania, 1995.

## Honors and Awards

Scholarship in Teaching Award, Case Western Reserve University School of Medicine, 2005, 2009 and 2010.

Bellport High School *Wall of Fame*, Brookhaven, New York, 2010.

Outstanding Reviewer Award, *Journal of Educational & Behavioral Statistics*, 2009.

Outstanding Short Course (with RD Cebul and NV Dawson), "Methods for Cluster-Randomized Trials of Real-Time Decision Support," Society for Medical Decision Making 28th Annual Meeting, 2006.

Best Educational Contribution Award, Case Western Reserve University School of Medicine, 2004.

Outstanding Short Course (with RD Cebul and NV Dawson), "Reducing Bias in Decision Models: Propensity Scores," Society for Medical Decision Making 25th Annual Meeting, 2003.

Finalist, Outstanding Teaching Award, Weatherhead School of Management, 1999.

J. Parker Bursk Prize for Outstanding Graduate Student, Department of Statistics, The Wharton School, University of Pennsylvania, 1994.

Donald S. Murray Prize for Excellence in Teaching, Department of Statistics, The Wharton School, University of Pennsylvania, 1991.

## Professional Service: National, International and Regional

### *Journal Editor*

Associate Editor, *The American Statistician*, 2005-present.

Associate Editor, *Health Services & Outcomes Research Methodology*, 2009-present.

### *American Statistical Association*

Chair, ASA Health Policy Statistics Section, 2010. (Chair-Elect 2009; Past Chair 2011.)

Secretary, ASA Health Policy Statistics Section, 2006-2007.

Vice President, ASA Cleveland Chapter, 2005-2008.

Nominating Committee, ASA Council of Chapters, 2006.

### *International Conference on Health Policy Statistics*

Co-Chair, Ninth ICHPS (October 2011), Cleveland, OH, 2010-2011.

Chair, Selection Committee, Health Policy Investigator Awards, 2011.

Scientific Program Committee, Eighth ICHPS (January 2010), Washington, DC, 2008-2010.

Selection Committee, Inaugural Health Policy Investigator Awards, 2009.

Scientific Program Committee, Seventh ICHPS (January 2008), Philadelphia, PA, 2006-2008.

### *Study Section / Grants Review*

NIH / HSOD Study Section (Temporary Member), June 2010.

NIH / NCCAM Special Study Section in response to RFA-AT-08-002, June 2008.

Discovery Grant Reviewer, National Sciences & Engineering Research Council of Canada, 2006.

### *Additional NIH Service*

NIH / NCCAM Presenter and Member, Synthesis Group, Workshop on Complexity and CAM, 2007.

### *Better Health Greater Cleveland (sponsored in part by the Robert Wood Johnson Foundation)*

Director, Data Management Center and Analytic Team, 2007-present.

Co-Chair, Information Management Committee, 2007-present.

Leadership Team, Consumer Engagement and Research Committees, 2007-present.

### *National COPTR (Childhood Obesity Prevention & Treatment Research) Consortium*

Design and Analysis Working Group, 2011-present.

### *Cuyahoga County Public Health Collaborative*

Community Health Status Assessment Subcommittee, Health Improvement Planning Project, 2010-present.

Assessment Team, "Setting Health Priorities in Greater Cleveland", 2009.

### *Making Statistics More Effective in Schools and Business [MSMESB]*

Co-Chair and Organizer, MSMESB Conference, San Francisco, CA, 2003.

Member, MSMESB Leadership Group, 2001-2007.

Web Editor & Planning Committee Member, MSMESB, 1994-2007.

### *Statistical Judge*

Northeastern Ohio Science & Engineering Fair, 2002, 2004-2009.

Intel International Science & Engineering Fair, 2003.

### *Referee / Reviewer*

Referee for 109 original manuscripts, plus revisions, for statistical, medical and educational journals, including *The American Statistician*, *JASA*, *Statistics in Medicine*, *Science*, *JAMA*, *J of Statistics Education*, *J of Educational & Behavioral Statistics*, *Health Services & Outcomes Research Methodology*, *Circulation*, *Communications in Statistics: Simulation & Computation*, *J of Nephrology*, *Medical Decision Making*, *Medical Care*, *Psychometrika*, *Pharmacoepidemiology & Drug Safety*, *Pharmaceutical Statistics*, *Future Science*, *Operations Research*, and *INFORMS Transactions on Education*.

Reviewer for 24 statistical and biostatistical texts, software and related projects for various enterprises, including ITP/Duxbury Press, Prentice-Hall, Wiley, and Addison-Wesley.

## Professional Service: Case Western Reserve University & Affiliates

### *Clinical Translational Science Consortium*

Co-Director, Biostatistics, Evaluation and Research Design (BERD) Core, 2007-.

Clinical and Translational Curriculum Working Group, 2008-2010.

### *Center for Health Care Research & Policy*

Director, Biostatistics & Evaluation Unit, 2001-present.

Chair, Biostatistics & Epidemiology Faculty Search Committee, 2010-2011. (Hired Douglas Gunzler, Ph.D.)

Chair, Biostatistics Faculty Search Committee, 2004-2006. (Hired Rhoderick Machekano, Ph.D.)

Chair, Data Security & Management Committee, 2005.

Chair, Statistical Programmer/Analyst Search Committee, 2004-5. (Hired Steven Lewis, M.B.A., M.S.)

### *Case Western Reserve University School of Medicine*

Appointments, Promotions & Tenure Committee, MetroHealth, 2009-present.

Lepow Day Review Committee for Medical & Graduate Student Research, 2006-2008.

Judge, Trainee Poster Presentations, MetroHealth Research Festival, 2006.

### *MetroHealth System Clinical Research Unit*

Scientific Review Committee, 2011-present.

### *Neurological Outcomes Center, University Hospitals / Case Medical Center*

Neurological Outcomes Center Advisory Board, 2009-present.

### *Weatherhead School of Management*

Faculty Council, 1998-1999.

Chair, Task Force on "The Classroom Experience," 1999-2000.

Information Systems Services and Research Committees, 1994-2001.

Department of Operations: Admissions, Financial Aid, Seminar & Waiver Committees, 1994-2001.

## Teaching

### Courses Taught at Case Western Reserve University

#### *Case Western Reserve University School of Medicine*

##### *Courses Directed, Developed and Taught*

CRSP 500 / EPBI 500: *Observational Studies*. Clinical Research Scholars Program (CRSP) elective course, M.S. elective in Department of Epidemiology & Biostatistics: 40 (contact) hours, 2003-present.

Most recent course evaluations (Spring 2010): median 8 for course, 9 for instructor on 1 (poor) to 9 (excellent) scale: 4/4 students responding. (Spring 2011): median 9 for course, 9 for instructor: 9/12 students responding.

Spring 2011 Materials available at <https://sites.google.com/a/case.edu/love-500/home>

CRSP 403: *Biostatistics for Clinical Research*. CRSP core course: 40 hours, 2003-2009.

Most recent course evaluations (Fall 2009): median 8 for course and 8.5 for instructor on 1 (poor) to 9 (excellent) scale: 6/6 students responding.

##### *Other School of Medicine Courses and Lectures*

CRSP 401: *Introduction to Clinical Research*. Instructor and Developer of *Statistical Thinking for Clinical Research* Material: 12-20 hours, 2001-present.

Summer 2011 Statistics Materials available at <https://sites.google.com/a/case.edu/love-crsp401/>

Workshop on *Statistics for Medical Students entering the Research Block*, Case School of Medicine: 2 hours, May 2011.

Materials available at <https://sites.google.com/a/case.edu/statworkshop/>

Video stream available at <https://casemed.case.edu/videos/Year110/LV105121118.htm>

Guest Lecture on "Visualizing Data - Why Should Data Miners Have All The Fun?" KL2 Scholars in Clinical Research: 1.5 hours, 2011.

Guest Lecture on "Propensity Score Methods: A Gentle Introduction" EPBI 483: *Causal Analysis*. 1.5 hours, 2009.

Instructor and Developer of Statistical Material, "Becoming a Doctor" (Block 1) of the Western Reserve<sub>2</sub> Curriculum. 6 hours, 2006.

Guest Lecture on "Survey Analysis" as part of Introduction to the Practice of Research, Primary Care Track Flexible Type A Elective. 2 hours, 2004.

#### *Weatherhead School of Management*

##### *Courses Directed, Developed and Taught*

MBA Math Camp: Pre-Term Program in Statistics and Mathematics. 40 hours, 1997-2001.

MBAC 414: *Statistics for Managers*. Core first-year full-time MBA course. 40 hours, 1997-2000.

OPRE 404: *Data Analysis*. Elective course for MBA, M.S., Ph.D., and advanced undergraduates. Modules on *Survey & Experimental Data* and *Time series Modeling & Forecasting* 40 hours, 1995-2001.

OPRE 428: *Statistical Methods for Operations Research Applications*. Required M.S./Ph.D. course. 40 hours, 1997-2000.

OPRE 528: *Experimental Design*. Ph.D. elective course. 40 hours, 1995.

OPRE 529: *Time Series Analysis*. Ph.D. elective course. 40 hours, 1996.

### *Other Courses Taught at Case Western Reserve University*

QUMM 403: *Managerial Statistics*. Instructor, Core MBA Course. 40 hours, 1994-1997.

OPRE 490: *Statistics in Operations*. Instructor, M.S./Ph.D. Elective Course. 40 hours, 2000.

EPOM 409: *Engineering Processes Capstone Course*, Guest Lecture on Statistics, Quality & Experimental Design. Undergraduate capstone. 3 hours, 1997-2004.

UNIV 400: Teaching Assistant Training Program, Guest Lecturer. 4 hours, 2001-2003.

## Recent National and International Teaching Activities

1. **Love TE** "Propensity Score Analysis." Full-day seminar in HSR Methods: AcademyHealth Annual Research Meeting, Boston, 2010.
2. **Love TE** "Reducing the Impact of Selection Bias with Propensity Scores." Workshop at the 8th International Conference on Health Policy Statistics (ICHPS), Washington, DC, 2010.
3. **Love TE**, Dawson NV, Cebul RD "Cluster-Randomized Trials in Health Policy Research." Workshop at the 8th ICHPS, Washington, DC, 2010.
4. **Love TE** "Effective Use of Propensity Scores." Society of Hospital Medicine's Annual Meeting, Chicago, 2009.
5. **Love TE** "Reducing the Impact of Selection Bias with Propensity Scores." Workshop at the 7th ICHPS, Philadelphia, PA, 2008.
6. Cebul RD, Dawson NV, **Love TE** "Cluster-Randomized Trials in Health Policy Research." Workshop at the 7th ICHPS, Philadelphia, PA, 2008.
7. **Love TE**, Cebul RD, Dawson NV "Reducing Bias in Decision Models: Propensity Methods." Course Director, Society for Medical Decision Making Annual Meeting Short Course, Boston, 2006.
8. Cebul RD, Dawson NV, **Love TE** "Methods for Cluster-Randomized Trials of Real-Time Decision Support." Society for Medical Decision Making Annual Meeting Short Course, Boston, 2006. *Award for Outstanding Short Course*.
9. **Love TE** "Strategies for Using Propensity Scores Well." Workshop at the 6th ICHPS (then called ICHPR), Boston, 2005.
10. Cebul RD, Dawson NV, **Love TE** "Reducing Bias in Decision Models: Propensity Methods." Society for Medical Decision Making Annual Meeting Short Courses. 2001-2004. *Award for Outstanding Short Course, 2003*.
11. **Love TE** "Propensity Scores: Helping Non-Statisticians Get The Message." Chair and Presenter, Luncheon Roundtable, Joint Statistical Meetings, Toronto. 2004.
12. **Love TE** "Discussing and Displaying the Effectiveness of Causal Models for Observational Studies." Chair and Presenter, Luncheon Roundtable, Joint Statistical Meetings, San Francisco, 2003.
13. **Love TE**, Hinrichs C, Konrath T, workshop leaders. "We've Preached to the Choir: Now What?" 17th Making Statistics More Effective in Schools and Business Conference, University of Georgia, 2002.

## Recent Regional Teaching Activities

1. **Love TE**, Ganem J, Struble J "What Students Need to be Scientifically and Quantitatively Literate" Panel. Ohio Mathematics and Science Coalition Meeting, Columbus, 2010.
2. **Love TE** "Statistical Thinking, Literacy and Effective Teaching." Ohio Mathematics and Science Coalition Quantitative Literacy Conference, Columbus, 2009.
3. **Love TE** "Using Propensity Scores Effectively to Deal with Selection Bias: A Follow-Up." American Statistical Association, Cleveland Chapter Fall Workshop, 2008.
4. **Love TE** "What People Thinking about Quality Improvement Should Know About Propensity Methods." American Society for Quality, Elyria-Lorain Chapter, 2005.
5. **Love TE** "Data Analysis and Statistical Thinking." Data Symposium for Administrators: Linking it All Together: Center for Mathematics & Science Education, Teaching & Technology (CMSETT), John Carroll University, 2004.
6. **Love TE** "Using Propensity Scores Effectively." American Statistical Association, Cleveland Chapter Fall Workshop, 2004.
7. **Love TE** "Propensity Scores: What do they do, How should I use them and Why should I care?" American Statistical Association, Cleveland Chapter, 2003.

## Trainees at Case Western Reserve University

### *Current Trainees*

1. *Megan Hyland MD* Career Mentor / Faculty Advisor, Clinical Research Scholars Program (CRSP), 2010-present.
2. *Bennie Jeng MD* M.S. Thesis Committee Member, "A randomized, double-mask, placebo-controlled, dose-response, phase 2, study of the safety and efficacy of Thymosin Beta 4 in the treatment of diabetic patients' corneal wounds resulting from epithelial debridement during vitrectomy." CRSP, 2010-present.
3. *Irene L. Katzan MD* Ph.D. Dissertation Committee Member, "Community-Based Stroke Care and Outcomes in Northeast Ohio." Department of Epidemiology & Biostatistics, 2005-present.
4. *Angela Tagliaferri M.S.* Research Mentor, M.S. Thesis Committee Member, "Risk Factors for Contact Lens Papillary Conjunctivitis associated with Silicone Hydrogel Continuous Contact Lens Wear." Department of Epidemiology & Biostatistics, 2011-present.

### *Recent Trainees*

5. *Atul A. Khasnis MD, M.S.* Chair, M.S. Thesis Committee, "A Cost-Effectiveness Analysis of Weekly Complete Blood Count Monitoring for Leukopenia in patients with Granulomatosis and Polyangiitis (GPA) on Cyclophosphamide." Career Mentor / Faculty Advisor, CRSP, 2009-2011.  
Current Position: Fellow, Center for Vasculitis Care and Research, Cleveland Clinic.
6. *Linda Cummings MD, M.S.* M.S. Thesis Committee, "Laparoscopic vs. Open Colectomy - A Propensity Score Analysis." CRSP, 2006-2007.  
Current Position: Assistant Professor of Gastroenterology, Case Western Reserve University School of Medicine.

7. *John Carey MD, M.S.* M.S. Thesis Committee, "Defining Z-Scores in Clinical Densitometry." CRSP, 2005-2006.  
Current Position: Department of Rheumatology, Merlin Park University Hospital, Galway, Ireland.
8. *Thomas Stern MD, M.S.* M.S. Thesis Committee, "Computer Decision Support for the Treatment of Asthma." CRSP, 2005-2006.  
Current Position: Pulmonary, Critical Care and Sleep Medicine, Department of Internal Medicine, Carolinas Medical Center.
9. *Harriet Kayanja MD, Ph.D.* Ph.D. Dissertation Committee, "Effectiveness of Short Course Zidovudine vs. Nevirapine for Prevention of Mother-To-Child Transmission of HIV in Uganda: A Propensity Score Application." Department of Epidemiology & Biostatistics, 2004-2005.  
Current Position: Department of Internal Medicine, University Hospitals of Cleveland.
10. *Lars Petersen MD, Ph.D.* Primary Care Track Summer Research Project Lead, "Adaptive Stroke Impact Assessment."  
Current Position: Department of Family Medicine, Medical University of South Carolina.
11. *Robert J. Fox MD, M.S.* M.S. Thesis Committee, "The Short-Term Effects of Intravenous Methylprednisolone on Brain MRI Measures in Multiple Sclerosis." CRSP, 2002-2003.  
Current Position: Medical Director, Department of Neurology, Mellon Center for Multiple Sclerosis Treatment and Research, Cleveland Clinic.
12. *Tina Rodrigue MD, M.S.* M.S. Thesis Committee, "Prediction of Functional Outcome after ICH." CRSP, 2002-2003.  
Current Position: Staff Neurosurgeon, Naval Medical Center, Portsmouth, VA.
13. *David Litaker, MD, Ph.D.* Ph.D. Dissertation Committee, "Regional Variation in Health Systems Resources and Access to Health Care in Ohio." Department of Epidemiology & Biostatistics.  
Current Position: Associate Professor of Medicine, Epidemiology & Biostatistics, Case Western Reserve University.
14. *Kevin Linderman, Ph.D.* Co-Chair, Ph.D. Dissertation Committee, "Economic, Statistical and Managerial Considerations in the Design of Multivariate Control Charts." Department of Operations Research & Operations Management, Case Western Reserve University.  
Current Position: Associate Professor, Carlsson School of Management, University of Minnesota.

## Courses Taught at University of Pennsylvania

### *The Wharton School, Department of Statistics*

STAT 111: *Statistics for Behavioral Scientists, I.* Required course for undergraduates majoring in behavioral sciences. 40 hours, 1994-1995.

STAT 112: *Statistics for Behavioral Scientists, II.* Required course for undergraduates majoring in behavioral sciences. 40 hours, 1991-1994.

STAT 431: *Mathematical Statistics.* Elective course for undergraduates. 40 hours, 1993.

## Secondary School Teaching

Teacher, Department of Mathematics, Hunter College High School, New York, New York. 1988.

Student Teaching, Barnard College Education Program, Columbia University. 1987-1988.

## Research Support

### Active Projects

**Robert Wood Johnson Foundation** (Cebul, PI) [05/01/11 - 04/30/13]

*Aligning Forces for Quality 3.0: Better Health Greater Cleveland*

*Goals* Competing renewal of RWJF support for Greater Cleveland's Aligning Forces for Quality initiative that will expand the program's measurement, reporting and improvement activities for ambulatory care of chronic conditions (diabetes, heart failure, hypertension) to include important utilization metrics and payment reform activities.

*Role* Director, Data Management Center; Co-Chair, Information Management Committee

**1U01HL103622** (Cuttler, Moore and Borawski, Co-PI) [07/01/10 - 06/30/17]

*COPTR: Targeting Obesity and Blood Pressure in Urban Youth*

*Goals* Childhood obesity, often associated with elevated blood pressure, causes morbidity and may cause early death. This research (a) assesses three behavioral approaches to treating obesity and reducing blood pressure in urban youth and (b) examines the influence of the school-community environment on the interventions' impact.

*Role* Co-Investigator, Lead Biostatistician.

**R01 HS 20919-01** (Sudano, PI) [09/01/11 - 08/31/15]

*AHRQ: Open Source Health Risk Assessment for Primary Care*

*Goals* To develop and implement a computerized, multi-platform health risk assessment tool for routine use in primary care settings.

*Role* Co-Investigator.

**KRR0244990A1** (Davis, PI) [09/17/07 - 05/31/12]

*NIH: Clinical and Translational Science Award (CTSA)*

*Goals* The Cleveland CTSA establishes a novel and academic home to train leaders for the nation's multidisciplinary clinical and translational sciences workforce.

*Role* Co-Director, Biostatistics, Epidemiology & Research Design (BERD) Core.

**RC2-MD004760** (Clochesy, PI) [09/30/09 - 09/29/11]

*NIH: Electronic Self-Management Resource Training to Reduce Health Disparities (eSMART-HD)*

*Goals* The e-SMART avatar-based simulation intervention helps medically and socially disenfranchised people negotiate care and self-manage their chronic illness more effectively.

*Role* Biostatistician, Co-Investigator.

**RFA-DP07-70501SUPP09** (Katzan, PI) [09/01/09 - 08/31/12]

*CDC: Ohio Paul Coverdell Stroke Registry*

*Goals* Pilot a 30-day follow-up process for stroke patients hospitalized in six of the 26 hospitals participating in the Ohio Coverdell Registry to determine what factors related to the Registry associate with improved post-stroke outcomes.

*Role* Biostatistician.

### Completed Projects

**Robert Wood Johnson Foundation** (Cebul, PI) [05/01/08 - 04/30/11]

*Aligning Forces for Quality: The Regional Project - Better Health Greater Cleveland*

*Goals* Region-wide measurement, reporting and improvement of ambulatory care for chronic conditions (diabetes, heart failure, hypertension.)

*Role* Director, Data Management Center; Co-Chair, Information Management Committee

**1R01 HS 15123-01** (Cebul, PI) [10/01/04 - 09/30/07]

*PHS/NHHS/AHRQ: Trial of Decision Support to Improve Diabetes Outcomes [DIG-IT]*

*Goals* 2-year cluster-randomized trial of adult diabetics across two health systems using the same EMR system. We compare effects of our interventions on primary outcomes (quality of care/patient safety, and utilization), adjusting for baseline prognostic differences and clustering; estimate intervention effects in pre-specified sub-groups; describe features of patients and PCPs associated with different types and levels of intervention adoption; and describe unintended consequences.

*Role* Co-Investigator.

**Medicaid Technical Assistance and Policy program [MEDTAPP]** (Cebul, PI) [07/01/08 - 06/30/11]

*State of Ohio Safety Net Consortium to Improve Diabetes Care and Outcomes*

*Goals* A community-wide investigation of regional safety-net practices designed to activate diabetes patients and improve their care and outcomes.

*Role* Biostatistician, Lead Analyst.

**WellPoint Foundation** (Cebul, PI) [01/01/09 - 12/31/10]

*Center for Community Solutions - Better Health Greater Cleveland*

*Goals* Obtain and analyze chronic illness data of Northeast Ohio populations at the practice level.

*Role* Biostatistician, Director, Analytic Team.

**R03 HS 13412-01** (Murray, PI) [09/30/02 - 09/29/04]

*AHRQ: Outcomes of the Nursing Home Prospective Payment System*

*Goals* Describe, detail and evaluate the changes in provision of rehabilitation services to newly admitted nursing home patients following the implementation of the Nursing Home (NH) Prospective Payment System (PPS.)

*Role* Biostatistician.

**PA R03 040 HS-014352** (Bailit, PI) [09/30/05 - 09/29/07]

*AHRQ: Determinants of Intrapartum Obstetrical Quality*

*Goals* To understand the elements of hospital structure and of obstetrical processes of care that influence intrapartum quality of care.

*Role* Biostatistician.

**2T32 HS 00059-11** (Rimm and Cebul, Co-PI) [07/01/03 - 06/30/08]

*AHRQ: Training Program in Health Services Research*

*Role* Faculty.

**1R01 CA H102828-03** (Rose, PI) [09/01/03 - 08/31/08]

*NIH/NCI: Coping and Communication Support for Advanced Cancer Patients*

*Goals* A randomized trial of coping and communication support for middle-aged and older patients with incurable late-stage cancer.

*Role* Faculty.

**IIR 03-255-1** (Rose, PI) [06/01/04 - 11/30/08]

*VA HSR&D Merit Review: Aging & Family Outcomes in Supportive Care of Advanced Cancer Patients*

*Goals* To expand a coping and communication support intervention study to address family caregiver needs and to examine outcomes for family caregivers of middle-aged and older late-stage cancer patients during advanced cancer and end-of-life care and in bereavement.

*Role* Co-Investigator.

**1R01 AG-022459** (Sudano, PI) [06/01/05 - 05/31/08]

*NIH/NIA: Subjective/Objective Health Measures by Race/Ethnicity*

*Goals* Examine the correspondence between subjective measures and a performance-based index of physical functioning among several diverse racial/ethnic groups.

*Role* Co-Investigator.

**1K23 NS-45003-01** (Katzan, PI) [02/01/03 - 01/31/10]

NIH/NINDS: *Predictors and Outcomes of Pneumonia after Stroke*

*Goals* For the candidate to learn methodologies related to assessing and analyzing stroke management in the community setting.

*Role* Consultant.

**1R01 HL 085561-01** (Ahmed, PI) [07/01/06 - 06/30/10]

*Heart Failure, Chronic Kidney Disease, and Renin-Angiotensin System Inhibition*

*Goals* To determine (using propensity score methods) if renin-angiotensin system inhibition is associated with reduction of mortality and morbidity in heart failure patients with chronic kidney disease.

*Role* Consultant.

**K07 CA-096705** (Koroukian, PI) [09/01/03 - 08/31/08]

NIH/NCI: *Cancer-Related Disparities in the Elderly Population*

*Goals* Compare cancer-related outcomes (stage of diagnosis, treatment, and follow-up care) among individuals 65 or older diagnosed with breast, prostate, or colorectal cancer, using linked Ohio Cancer Incidence Surveillance System, Medicare, and Medicaid files.

*Role* Co-Mentor.

### *Pending Grant Applications*

Bolen S, PI. *21st century house calls: Linking practices to communities to understand trends in diabetes outcomes*. R21 submitted to NIDDK. My Role: Co-Investigator.

Douglas S, PI. *Reducing readmission days for Chronically Critically Ill: The ASK intervention*. R01 submitted to NINR. My Role: Co-Investigator.

Sudano J, PI. *Cognitive ability, personality and health literacy*. R01 submitted to NCMHD and NHLBI. My Role: Co-Investigator.

Trapl E, PI. *Impact of the social and build environment on childhood obesity*. R01 ancillary study linked to COPTR Project submitted to NHLBI. My Role: Mentor.

Wilson R, PI. *Care transition challenges and post-stroke rehabilitation*. R01 submitted to NIH. My Role: Co-Investigator, Biostatistician.

### Selected Statistical Consulting Projects

Louisiana State University (LA-STEM Program) Baton Rouge, LA. Propensity methodology, 2008-2009.

RM Consulting International, Chicago, IL. Propensity methodology & Regression modeling strategies, 2002-2008.

Office of Research & Technology Management, Case Western Reserve University. Survey design. 2003-2004.

Cleveland Zoological Society. Information technology and survey-related consulting. 1998-2001.

Invacare Corp., Elyria, OH. Prediction model development. 1997.

Weatherhead School of Management Alumni Association. Survey design. 1996-1997.

## Publications

### Peer-Reviewed Articles Published or In Press

#### In Press

1. Cebul RD **Love TE** Jain AK Hebert CJ Electronic Health Records and Quality of Diabetes Care. *New England Journal of Medicine* 2011, 365, 825-833. To appear September 1, 2011.
2. Guichard JL Desai RV Ahmed MI Mujib M Feller MA Ekundayo OJ Fonarow GC Bittner V Aban IB White M Aronow WS **Love TE** Bakris GL Zieman SJ Ahmed A Isolated diastolic hypotension and incident heart failure in older adults. *Hypertension* 2011, In press, selected for editorial commentary.
3. Roy B Pawar PP Desai RV Mujib M Zhang Y Feller MA Ovalle F Aban IB **Love TE** Iskandrian AE Fonarow GC Deedwania P Ahmed A A Propensity-Matched Study of the Association of Diabetes Mellitus with Incident Heart Failure and Mortality among Community-Dwelling Older Adults. *Amer J Cardiology* 2011, In press.  
doi:10.1016/j.amjcard.2011.07.046
4. Williams BR Zhang Y Sawyer PL Mujib M Jones LG Feller MA Ekundayo OJ Aban IB **Love TE** Lott A Ahmed A Intrinsic association of widowhood with mortality in community-dwelling older women and men: Findings from a prospective propensity-matched population study. *J of Gerontology: Medical Sciences (J Gerontol A Biol Sci Med Sci)* 2011, In press.  
doi:10.1093/gerona/g1r144
5. Zhang Y Fonarow GC Sanders PW Farahmand F Allman RM Aban IB **Love TE** Levesque R Kilgore ML Ahmed A A Propensity-Matched Study of the Comparative Effectiveness of Angiotensin Receptor Blockers versus Angiotensin-Converting Enzyme Inhibitors in Heart Failure Patients Age  $\geq$  65 Years. *Amer J Cardiology* 2011, In press.  
doi:10.1016/j.amjcard.2011.06.066

#### 2011

6. Adamopoulos C Meyer P Karatzidou K Ovalle F White M Aban IB **Love TE** Deedwania P Anker SD Ahmed A Absence of obesity paradox in patients with chronic heart failure and diabetes mellitus: A propensity-matched study. *European J of Heart Failure* 2011, 13: 200-206.  
doi:10.1093/eurjhf/hfq159
7. Ahmed MI Lainščak M Mujib M **Love TE** Aban IB Pina IL Aronow WS Bittner V Ahmed A Gender-related dissociation in outcomes in chronic heart failure: Reduced mortality but similar hospitalization in women. *Int J Cardiology* 2011, 148: 36-42.  
doi:10.1016/j.ijcard.2009.10.019
8. Banach M Bhatia V Feller MA Mujib M Desai RV Ahmed MI Guichard J Aban IB **Love TE** Aronow WS White M Deedwania P Fonarow G Ahmed A Relation of Baseline Systolic Blood Pressure and Long-Term Outcomes in Ambulatory Patients with Chronic Mild to Moderate Heart Failure. *Amer J Cardiology* 2011, 107: 1208-1214.  
doi:10.1016/j.amjcard.2010.12.020
9. Bowling CB Feller MA Mujib M Pawar PP Zhang Y Ekundayo OJ Aban IB **Love TE** Sanders PW Anker SD Fonarow GC Ahmed A. Relationship between Stage of Kidney Disease and Incident Heart Failure in Older Adults. *Amer J of Nephrology* 2011, 34: 135-141.  
doi:10.1159/000328905

10. Deedwaina PC Ahmed MI Feller MA Aban IB **Love TE** Pitt B Ahmed A Impact of diabetes mellitus on outcomes in patients with acute myocardial infarction and systolic heart failure. *European J of Heart Failure* 2011, 13: 551-559.  
doi:10.1093/eurjhf/hfr009
11. Filippatos GS Ahmed MI Gladden JD Mujib M Aban IB **Love TE** Sanders PW Pitt B Anker SD Ahmed A Hyperuricemia, chronic kidney disease, and outcomes in heart failure: Potential mechanistic insights from epidemiological data. *European Heart J* 2011, 32: 712-720.  
doi:10.1093/eurheartj/ehq473
12. Filippatos GS Desai RV Ahmed MI Fonarow GC **Love TE** Aban IB Iskandrian A Konstam MA Ahmed A Hypoalbuminemia and incident heart failure in older adults. *European J of Heart Failure* 2011, available online.  
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72. **Love TE** Distractor selection ratios. *Psychometrika* 1997, 62: 51-62.

### Book Chapters

Cebul RD Dawson NV **Love TE** Cluster randomized trials in health care research. *The Textbook of Clinical Trials*, 2nd Ed. 2006, D Machin S Day S Green, eds., Wiley, Chapter 36.

### Letters To The Editor

O'Connor A **Love TE** Propensity scores and observational research. *Am J Medicine* 2006, 119: e15-e16.

### Non-Peer-Reviewed Articles and Essays

Better Health Greater Cleveland (2008-). Contributor for Executive Summaries, Community Health Checkup Reports and Website Materials.  
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**Love TE** Compromises and success stories in a project-driven second course. American Statistical Association 1996 Proceedings of the Section on Statistical Education, 117-122.

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### Selected Manuscripts Submitted, Under Revision or In Preparation

1. Ahmed A Allman RM Aban IB Sanders PW Dell'Italia LJ Arnett DK **Love TE** Rich MW Bakris GL Renin-angiotensin system inhibition and mortality reduction in hospitalized elderly diastolic heart failure patients with chronic kidney disease. *Under Submission*.
2. Ahmed A Ekundayo OJ Arnett D Sanders PW Aban IB **Love TE** Filippatos G Anker SD Lloyd-Jones DM Bakris G Mujib MU Dell'Italia LJ. High serum uric acid and increased risk of new-onset heart failure in community dwelling older adults. *Under Submission*.
3. Ahmed A Fonarow GC Zhang Y Sanders PW Arnett DK Feller MA **Love TE** Aban IB Levesque R Ekundayo OJ Dell'Italia LJ Bakris GL Allman RM Rich MW Renin-angiotensin inhibition in systolic heart failure and chronic kidney disease. *Under Submission*.
4. Bowling B Fonarow GC Zhang Y Feller MA Sui X Blair S Alagiakrishnan K Aban IB **Love TE** Allman R Ahmed A Impairment of instrumental activities of daily living and incident heart failure in community-dwelling older adults. *Under Submission*.
5. Cebul RD **Love TE** Dawson NV Einstadter DE Greco PJ Husak SS Roach MJ Votruba ME Electronic Medical Record-Catalyzed Clinical Decision Support to Improve Diabetes Care. *In Preparation*.

6. Deedwania P Pawar PP Zhang Y Mujib M Feller MA Ovalle F Desai RV Ahmed M Aban IB **Love TE** Fonarow GC Ahmed A Relationship between prediabetes and incident heart failure in older adults: A predictor but not an independent risk factor. *Under Submission.*
7. Kaelber DC Foster W Gilder J **Love TE** Jain AK Patient characteristics associated with Venous Thromboembolic Events (VTEs) - A Cohort Study using Pooled Electronic Health Record (EHR) Data. *Under Submission.*
8. Ritchie CS Ekundayo OJ Zhang Y Lainščak M Adamopoulos C Banach M Aban IB **Love TE** Aronow WS Deedwania P Ahmed A Chronic obstructive pulmonary disease and outcomes in community-dwelling older adults: A propensity-matched prospective population-based study. *Under Submission.*
9. Roy B Desai R Ahmed MI Mujib M Guichard J Jones LG Feller M Aban IB **Love TE** Ahmed A Warfarin and outcomes in patients  $\geq 70$  with atrial fibrillation. *Under Submission.*
10. Sudano JJ Ruo B **Love TE** Huber G Thompson JA Lewis SA Perzynski A Murray PK Baker DW Racial-ethnic differences in self-reports of physical functioning and general health: A focus on the contribution of performance-based measures of physical functioning. *Under Submission.*
11. Votruba ME Cebul RD Einstadter DE Husak SS Dawson NV Roach MJ **Love TE** P4P and the Uninsured: The Case of Poor Glycemic Control. *In Preparation.*
12. Votruba ME **Love TE** Cebul RD The Rough Incentives in Threshold-Based P4P. *In preparation.*
13. Zhang Y Kilgore ML Mujib M Arora T Aban IB Feller MA Desai RV Ekundayo OJ **Love TE** Allman RM Fonarow GC Ahmed A Design and Rationale of the Study of Neurohormonal Blockade and Outcomes in Diastolic Heart Failure using OPTIMIZE-HF Registry linked to Medicare Data. *Under Submission.*

## Recent Research Presentations

### *National / International Meetings*

1. **Love TE** Discussant, "What is the big deal about balance? Assessment and implications of group equivalence when using propensity scores." *Joint Statistical Meetings*, August 2011.
2. **Love TE** Statistical Considerations and Methods for Observational Studies and Comparative Effectiveness Research. Genentech, San Francisco, CA, December 2010.
3. **Love TE** Observational Research Studies - A General Session. Genentech, San Francisco, CA, December 2010.
4. **Love TE** Must we be misled by observational studies? University of Alabama / Birmingham Center for Aging and Birmingham/Atlanta VA GRECC. Birmingham, AL, May 2008.
5. **Love TE** Reducing the Impact of Selection Bias with Propensity Scores. Data Analysis Seminar Series at University of Alabama Center for Aging and Birmingham/Atlanta VA GRECC. Birmingham, AL, May 2008.
6. Stukel TA D'Agostino Jr RB Small D (**Love TE** Chair, Discussant and Organizer) Assessing Causation in Observational Studies: Propensity Scores and Instrumental Variables. Invited session at the 7th ICHPS, Philadelphia, PA. January 2008.

7. Ahmed A Adamopoulos C Sui X **Love TE** Potassium supplement use may increase hospitalization without affecting mortality in chronic heart failure: Implications for use of aldosterone antagonists to maintain potassium balance in chronic heart failure. Abstract Oral Session, American Heart Association Scientific Sessions. Orlando, November 2007.
8. **Love TE** Cebul RD Einstadter D Dawson NV Results of designing to balance a cluster-randomized trial of EMR-based clinical decision support for diabetes. Abstract Oral Presentation, Society for Medical Decision Making Meeting. Pittsburgh, PA. October 2007.
9. **Love TE** Balance and Design using Propensity Scores for Public Health Research. NCCAM Workshop on "Applying Principles from Complex Systems to Studying the Efficacy of CAM Therapies" Washington DC, October 2007.
10. **Love TE** Discussant, "Making Statistics Effective" at Invited Session on "Recent Outreach from the American Statistical Association to the General Public." *Joint Statistical Meetings*, August 2007.
11. Murray PK **Love TE** Propensity adjusted outcomes of the nursing home prospective payment system (PPS). Presented at the State of the Science Symposium on Post Acute Care Rehabilitation: Setting a Research Agenda and Developing an Evidence Base for Practice and Public Policy, Washington DC, February 2007.
12. Katzan I Thomas CL Murray PK **Love TE** Dawson NV Frequency and predictors of readmission in the first year after stroke. 31st International Stroke Conference, Kissimmee FL, February 2006.
13. Wolf AW **Love TE** "Item Response Theory and The Assessment of Psychotherapy Outcome" American Psychological Association, Washington, DC, August 2005.
14. Wolf AW **Love TE** "Item Response Theory and The Assessment of Psychotherapy Outcome" North American Society for Psychotherapy Research, Montreal, Canada, June 2005.
15. **Love TE** Dawson NV Thomas CL Cebul RD "A Cautionary Tale: Instrumental Variable Validation and Covariate Balance," Section on Health Policy Statistics Topic Contributed Session on "Causal Inference in Health Services Research: Taking Account of Hidden Bias," *Joint Statistical Meetings*, August 2004.
16. **Love TE** "Adaptive Assessment of Stroke Impact," Section on Health Policy Statistics, *Joint Statistical Meetings*, August 2003.
17. **Love TE** "Explaining Post-Propensity Score Covariate Balance." International Biometric Society, Eastern North American Region Meeting, April 2003.
18. **Love TE** "Displaying Covariate Balance after Adjustment for Selection Bias," Section on Health Policy Statistics, *Joint Statistical Meetings*, August 2002.
19. **Love TE** "Quality Improvement and Propensity Models," Institute for Operations Research & the Management Sciences (INFORMS) Meeting, Miami, November 2001.
20. **Love TE** Moderator and Convenor, "Special Plenary Session in Memory of David Hildebrand," 15th MSMESB Conference, Syracuse University, June 2000.

### *Regional Meetings*

21. **Love TE** "Diving into the Data: Building New Tools to Visualize and Learn from Your Results" Better Health *Greater Cleveland Learning Collaborative*, March 2011.

22. **Love TE** "Not Your Father's Statistics: What Dermatologists need to know about Modern Clinical Research Methods" Cleveland Dermatological Society, November 2010.
23. **Love TE** "Statistical Thinking and Quantitative Literacy" Ohio Mathematics and Science Coalition Quantitative Literacy Conference, Columbus, October 2009.
24. **Love TE** "Why Data Analysis and Statistical Thinking Matters" National Council of Teachers of Mathematics Regional Meeting, Cleveland, October 2008.
25. **Bailit JL Love TE** "Building Risk-Adjustment Models for the Assessment of Obstetrical Quality" Cleveland Chapter, American Statistical Association, December 2007.
26. **Love TE Linderman KW** "Economic and Statistical Concerns in the Design of Multivariate Control Charts" Elyria/Lorain Chapter, American Society for Quality, May 2005.
27. **Wolf AW Love TE Kraus D Castonguay L** "Item Response Theory and Psychotherapy Outcome" Ohio Society for Psychotherapy Research, Toledo, Ohio, April 2005.
28. **Love TE** "Why Statistical Thinking Matters," Invited Address for the Greater Cleveland Council of Teachers of Mathematics Annual Awards Banquet, May 2004.
29. **Love TE** "Educating Business Students and Quality: Lessons from the MSMESB Conferences," American Society for Quality, Elyria/Lorain Chapter, November 2001.
30. **Love TE** "Education, Quality and Making Statistics More Effective in Schools and Business," American Society for Quality, Cleveland Chapter, May 2001.
31. **Love TE** "Statistics Education and the MSMESB Conferences," American Statistical Association, Cleveland Chapter, March 2001.

#### *Case Western Reserve University & Affiliates*

32. **Love TE** "Visualizing Data to improve Health Research and Care." MetroHealth Medical Center Department of Medicine Grand Rounds, September 2010.
33. **Love TE** "Effective Design in Health Care Evaluation: Getting Statisticians More Deeply Involved in Interdisciplinary, Collaborative Work." Department of Statistics Colloquium. November 2007.
34. **Love TE** "Designing a Cluster-Randomized Trial of EMR-Catalyzed Clinical Decision Support: DIG-IT and Beyond" Department of Epidemiology and Biostatistics Seminar Series, January 2007.
35. **Love TE** "Cluster Randomized Trials of EMR-Catalyzed Decision Support: Part II. Analytic and Strategic Concerns." Center for Health Care Research & Policy, Sept. 2006.
36. **Love TE** "Evidence in medical trials - What can we learn from data?" Division of Rheumatology, University Hospitals Health System, September 2006.
37. **Love TE** "A Statistician's Adventures in Public Health Research: Balance and Design" Department of Statistics, Case Western Reserve University, March 2006.
38. **Love TE** "Must We Be Misled By Observational Studies?" MetroHealth Medical Center Department of Medicine Grand Rounds, May 2005.
39. **Love TE** "Item Response Theory, Adaptive Assessment, and Health Services Research" Louis Stokes Cleveland VA Medical Center, November 2004.

40. Peterson L **Love TE** Katzan I Husak SA Cebul RD "Computer Based Stroke Impact Assessment." MetroHealth Medical Center Research Days, September 2003.
41. **Love TE** Litaker D "Hierarchical Modeling." Methods Seminar Series, Center for Health Care Research & Policy, CWRU-MetroHealth, August 2002.
42. **Love TE** "Item Response Models and Health Services Research." Methods Seminar Series, Center for Health Care Research & Policy, CWRU-MetroHealth, July 2002.
43. **Love TE** "Propensity Scores for Selection Bias Adjustment in Observational Studies," Department of Operations, Weatherhead School of Management, March 2002.
44. **Love TE** "Smoking, Stephen Jay Gould and Convertibles: Statistical Graphics for Data Presentation and Analysis," Center for Health Care Research & Policy, January 2002.
45. **Love TE** "Improving Logistic Regression Analysis: Diagnostics and Model Selection," Center for Health Care Research & Policy Methods Seminar Series, August 2001.

Last updated: August 31, 2011  
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