

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Love, Thomas E.		POSITION TITLE Director, Biostatistics and Evaluation Unit	
eRA COMMONS USER NAME		Assistant Professor, Department of Medicine	
		Assistant Professor, Department of Operations	
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Columbia College, Columbia University, New York	A.B.	1988	Mathematics & Education
Teachers College, Columbia University	M. A.	1989	Mathematics Education
Teachers College, Columbia University	M. S.	1990	Mathematics Education
Wharton School, University of Pennsylvania	M. S.	1992	Statistics
Wharton School, University of Pennsylvania	Ph. D.	1994	Statistics

A. Positions and Honors. List in chronological order previous positions, concluding with your present position.

APPOINTMENTS

- 1994-Present Assistant Professor, Department of Operations, Weatherhead School of Management, Case Western Reserve University
- 2001-Present Director, Biostatistics and Evaluation Unit. Center for Health Care Research & Policy, CWRU-MetroHealth Medical Center
- 2001-Present Assistant Professor, Department of Medicine. School of Medicine, Case Western Reserve University.

HONORS

- 1988-1990 Fellowship, Department of Mathematics and Science Education, Teachers College
- 1990-1994 Fellowship, Department of Statistics, The Wharton School
- 1991 Donald S. Murray Prize for Excellence in Teaching, Department of Statistics, The Wharton School, University of Pennsylvania
- 1994 J. Parker Bursk Prize for Outstanding Graduate Student, Department of Statistics, The Wharton School, University of Pennsylvania
- 1998-1999 Finalist for Outstanding Teaching Award, Weatherhead School of Management
- 2003 Outstanding Short Course (with RD Cebul and NV Dawson), Society for Medical Decision Making Annual Meeting for "Reducing Bias in Decision Models: Propensity Analysis"
- 2004 Best Educational Contribution Award, Case Western Reserve University School of Medicine
- 2005 Scholarship in Teaching Award, Case Western Reserve University School of Medicine

SCHOLARLY SERVICE

- 1994- Web Editor, Making Statistics More Effective in Schools and Business [MSMESB]
- 1998- Reviewer: JAMA, Medical Care, Medical Decision Making, Psychometrika, Journal of Statistics Education, Operations Research and other medical and statistical journals
- 2001- (Elected) Leadership Team, MSMESB
- 2003 Keynote Speaker, "Statistical Thinking and Data Awareness", Greater Cleveland Council of Teachers of Mathematics Workshop on Data Analysis and Probability.
- 2003 Co-Chair, MSMESB Conference
- 2003 Statistical Judge, Intel International Science and Engineering Fair, Cleveland
- 2004 "Why Statistical Thinking Matters", Greater Cleveland Council of Teachers of Mathematics.
- 2004- Statistical Judge, Northeast Ohio Science and Engineering Fair
- 2005- Vice President, Cleveland Chapter, American Statistical Association
- 2006-2007 Secretary, Health Policy Statistics Section, American Statistical Association
- 2006- Associate Editor, *The American Statistician*

B. Selected peer-reviewed publications (in chronological order).

SELECTED RECENT RESEARCH PRESENTATIONS

- Love TE** "Using Propensity Scores Effectively" American Statistical Association, Cleveland Chapter, Fall Workshop, October 2004.
- Cebul RD Dawson NV **Love TE**, Instructors, Short Course on "Reducing Bias in Decision Models: Propensity Methods." Society for Medical Decision Making Annual Meeting, Atlanta, October 2004. Also given in 2001-2003 and planned for October 2006. Named 2003 Outstanding Short Course at SMDM.
- Love TE** "Item Response Theory, Adaptive Assessment, and Health Services Research" Louis Stokes Cleveland VA Medical Center, November 2004.
- Wolf AW **Love TE** Kraus D Castonguay L "Item Response Theory and Psychotherapy Outcome" Ohio Society for Psychotherapy Research, Toledo, OH, April 2005.
- Love TE** "Must We Be Misled By Observational Studies?" MetroHealth Medical Center Department of Medicine Grand Rounds, May 2005.
- Love TE** "A Statistician's Adventures in Public Health Research: Balance and Design" Department of Statistics, Case Western Reserve University, March 2006

RECENT AND IN PRESS PUBLICATIONS

- Love TE** (2000) A Different Approach to Project Assessment. *Journal of Statistics Education* 8(1) [Online].
- Linderman K **Love TE** (2000) Economic and Economic-Statistical Designs for MEWMA Control Charts. *Journal of Quality Technology*, 32, 410-417.
- Linderman K **Love TE** (2000) Implementing Economic and Economic-Statistical Designs for MEWMA Control Charts. *Journal of Quality Technology*, 32, 457-463.
- Love TE** Hildebrand DK (2002) Statistics Education and the Making Statistics More Effective in Schools and Business Conferences. *The American Statistician*, 56, 107-112.
- Love TE** Linderman K (2003) A Weibull Process Failure Mechanism for the Economic Design of MEWMA Control Charts. *Journal of Statistical Computation and Simulation*, 73(3), 195-202.
- Bailit JL **Love TE** Mercer B (2004) Rising cesarean rates: Are patients sicker? *American Journal of Obstetrics and Gynecology*, 191(3), 800-803.
- Litaker D Koroukian S **Love TE** (2005) Context and Health Care Access: Looking Beyond the Individual. *Medical Care*, 43: 531-540.
- Litaker D **Love TE** (2005) Health Care Resource Allocation and Individuals' Health Care Needs: Examining the Degree of Fit. *Health Policy*, 73: 183-193.
- Murray PK **Love TE** Dawson NV Thomas CL Cebul RD (2005) Rehabilitation services following the implementation of the nursing home prospective payment system: Differences related to patient and nursing home characteristics. *Medical Care*, 43, 1109-1115.
- Mentari EK DeOreo PB O'Connor AS **Love TE** Ricanati ES Sehgal AR (2005) Changes in Medicare reimbursement and patient-nephrologist visits, quality of care, and health-related quality of life. *American Journal of Kidney Diseases* 46: 621-627.
- Ahmed A Rich MW **Love TE** Lloyd Jones DM Aban IB Colucci WS Adams KF Gheorghiade M (2005) Digoxin and reduction in mortality and hospitalization in heart failure: A comprehensive *post hoc* analysis of the DIG trial. *European Heart Journal* 27: 178-186.
- Bailit JL **Love TE** Dawson NV (2006) Quality of obstetric care and risk-adjusted primary cesarean rates *The American Journal of Obstetrics & Gynecology*, 194: 402-407.
- Ahmed A Husain A **Love TE** Gambassi G Dell'Italia LJ Francis GS Gheorghiade M Allman RM Meleth S Bourge RC (in press) Heart failure, chronic diuretic use, and increase in mortality and hospitalization: An observational study using propensity scores. *European Heart Journal*, 27: 1431-1439.
- Ahmed A **Love TE** Sui X Rich MW (in press) Effects of ACE Inhibitors in systolic heart failure patients with chronic kidney disease: A propensity score analysis. *Journal of Cardiac Failure*, to appear.
- Ahmed A Rich MW Fleg JL Zile MR Young JB Kitzman DW **Love TE** Aronow WB Adams KF Gheorghiade M (in press) Effects of digoxin on morbidity and mortality in diastolic heart failure: The ancillary Digitalis Investigation Group Trial. *Circulation*, to appear.
- Ahmed A Perry GJ Fleg JL **Love TE** Goff DC Kitzman DW (in press) Outcomes in ambulatory chronic systolic and diastolic heart failure: A propensity score analysis. *American Heart Journal*, to appear.

C. Research Support.**RESEARCH SUPPORT - ACTIVE**

1R01 CAH102828-03 Rose (PI) 09/01/03 – 08/31/08

NIH / NCI

Aging and Supportive Care in Advanced Cancer

Overall goals: To perform a randomized trial of coping and communication support for adult patients with incurable late-stage cancer.

Role: Co-Investigator

Merit Review IIR 03-255-1 Rose (PI) 06/01/04 – 11/30/08

VA HSR&D

Aging and Family Outcomes in Supportive Care of Advanced Cancer Patients

Overall goals: The major goal of this project is 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 HS15123-01 Cebul (PI) 09/30/04 – 08/31/07

PHS / NHHS / AHRQ

Trial of Decision Support to Improve Diabetes Outcomes

Overall goals: The investigation is a 2-year cluster-randomized trial of 22 primary care practices, 197 PCPs, and their 13,000 adult diabetics across two health systems experienced in using the same commercial EMR system. Our Aims are to: 1) compare the incremental effects of our interventions on primary outcomes (quality of care/patient safety, and utilization), adjusting as necessary for baseline prognostic differences, adjusting for clustering and using an intention-to-treat analysis; 2) estimate intervention effects in pre-specified sub-groups; 3) describe specific features of patients and PCPs that are associated with different types and levels of adoption of our interventions; and 4) describe general and intervention-specific unintended consequences.

Role: Co-Investigator

Harris (PI) 09/01/04 – 08/31/07

Robert Wood Johnson Foundation

Health E-Technologies Initiative

The Potential of Technology to Improve Chronic Disease Management and Quality of Care

Overall goals: To 1) determine whether a web portal will improve outcomes in diabetic patients; 2) describe the characteristics of patients whose health behavior improves over the study period and who adopt the portal technology; 3) develop and test targeted interventions to increase adoption of the portal technology; and 4) monitor costs associated with the portal and health care resource use.

Role: Co-Investigator, Biostatistician

1K23 NS45003-01 Katzan (PI) 02/01/03 – 01/31/08

NIH / NINDS

Predictors and Outcomes of Pneumonia After Stroke

Overall goals: For the candidate to learn methodologies related to assessing and analyzing stroke management in the community setting.

Role: Collaborator

1R01 AG022459 Sudano (PI) 06/01/05 – 05/31/08

Subjective/Objective Health Measures by Race/Ethnicity

NIH / NIA

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

Role: Co-Investigator

PA R03 040 Bailit (PI) 09/01/05 – 08/31/07
Determinants of Intrapartum Obstetrical Quality
Overall goal: To understand the elements of hospital structure and of obstetrical processes of care that influence intrapartum quality of care.
Role: Biostatistician

Aron (PI) 10/01/05 – 09/30/09
NIH
Diabetes Telemedicine Consultation: A Systems Improvement Intervention
Overall goals: To evaluate and document the processes of outreach consultation through using joint-clinics via teleconferencing (teleconsultation) as an intervention for system improvement in care delivery and management of diabetes at community-based outpatient clinics (CBOCs). This is a cluster randomized trial of patients with diabetes at CBOCs in the Cleveland VAMC system.
Role: Consultant

K07 CA096705 Koroukian (PI) 09/01/03 – 08/31/08
NIH / NCI
Cancer-Related Disparities in the Elderly Population
Overall goal: Compare cancer-related outcomes (stage of diagnosis, treatment, and follow-up care) among individuals 65 years of age or older diagnosed with breast, prostate, or colorectal cancer, using linked Ohio Cancer Incidence Surveillance System, Medicare, and Medicaid files. Comparisons will be aimed at identifying disparities by age, race, comorbidities, socioeconomic status, and Medicaid status.
Role: Co-Mentor

1K23 AG19211-01 Ahmed (PI) 06/01/03 – 05/31/07
NIH / NIA
Heart Failure and Beta-Blocker Use in Older Adults
Overall goal: To determine prevalence and correlates of beta-blocker use in older adults with heart failure, and their association with outcomes.
Role: Consultant

2T32 HS00059-11 Rimm/Cebul (Co-PI) 07/01/03 – 06/30/08
AHRQ
Training Program in Health Services Research
Overall goal: Pre and postdoctoral training in health services research.
Role: Faculty

RESEARCH SUPPORT - COMPLETED

R03 HS13412-01 Murray (PI) 09/30/02 – 09/29/04
AHRQ Outcomes of the Nursing Home
Prospective Payment System
Overall goal: To 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: Statistician