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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

Professor of Medicine, School of Medicine, Case Western Reserve University, 2012-present. (Primary).

Professor of Epidemiology & Biostatistics, School of Medicine, Case Western Reserve U., 2012-present.

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

Chief Data Scientist, Better Health Partnership, 2017-present.

Track Leader, Health Care Analytics MS Program in Biostatistics, Department of Epidemiology & Biostatistics, Case Western Reserve U., 2015-present.

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

Prior Appointments

Director, Data Center, Better Health Partnership (née Better Health Greater Cleveland), 2007-2016.

Associate Professor of Medicine, School of Medicine, Case Western Reserve U., 2007-2012.

Associate Professor of Epidemiology & Biostatistics, School of Medicine, CWRU, 2009-2012.

Assistant Professor of Medicine, School of Medicine, CWRU, 2001-2007.

Assistant Professor of Operations, Weatherhead School of Management, CWRU, 1994-2007.

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

Honors and Awards

1. Selected by American Statistical Association's Travelling Course Committee to give six Short Courses to ASA Chapters (Northeastern Illinois, Pittsburgh, Cleveland, Central Arkansas, South Carolina and Georgia) on Propensity Score Methods in 2015-16.
2. Nominated for John S. Diekhoff Award for Distinguished Graduate Student Teaching, CWRU, 2015.
3. Fellow, American Statistical Association, 2013.
4. Co-Author of 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.

This article was selected by the Editorial Board of the 2012 *IMIA Yearbook of Medical Informatics* as one of the best articles in medical informatics published in 2011.

This article was also cited as part of the American Medical Informatics Association's Informatics 2011 Year in Review: <http://faculty.washington.edu/dmasys/YearInReview/2011index.html>

5. Scholarship in Teaching Award, Case Western Reserve University School of Medicine, 2005, 2009 and 2010.
6. Bellport High School *Wall of Fame*, Brookhaven, New York, 2010.
7. Outstanding Reviewer Award, *Journal of Educational & Behavioral Statistics*, 2009.
8. Lead author of **Love TE** Cebul RD Einstadter D Jain AK Miller H Harris CM Greco PJ Husak SS Dawson NV Electronic medical record-assisted design of a cluster-randomized trial to improve diabetes care and outcomes. *J Gen Internal Med* 2008, 23: 383-391.
This article was cited as part of the American Medical Informatics Association's Informatics 2008 Year in Review: <http://faculty.washington.edu/dmasys/YearInReview/2008index.html>
9. 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.
10. Best Educational Contribution Award, Case Western Reserve University School of Medicine, 2004.
11. 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.
12. Finalist, Outstanding Teaching Award, Weatherhead School of Management, 1999.
13. J. Parker Bursk Prize for Outstanding Graduate Student, Department of Statistics, The Wharton School, University of Pennsylvania, 1994.
14. 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.

Editor, *Health Services & Outcomes Research Methodology*, 2009-2014.

Guest Editor (with A. James O'Malley), Special Double Issue of *Health Services & Outcomes Research Methodology* about the 9th International Conference on Health Policy Statistics, 12: 2-3, June 2012.

American Statistical Association

Member, ASA Health Policy Statistics Section Nominating Committee, 2013-present.
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.
Student Awards Competition Review Panel, ASA Health Policy Statistics Section, 2008-2013.

International Conference on Health Policy Statistics

Co-Chair (with A. James O'Malley), Ninth ICHPS (October 2011), Cleveland, OH, 2010-2011.
Obtained **R13 grant HS 020773-01** in conference funding from AHRQ (\$39,100)
Advisory Board, Eleventh ICHPS (October 2015), Providence, RI, 2014-2015.
Chair, Selection Committee, Health Policy Investigator Awards, 2011.
Scientific Program Committee, Tenth ICHPS (October 2013), Chicago, IL, 2012-2013.
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.

NIH Study Sections and Grants Review

Chair, NIH / NIDCR Special Emphasis Panel / Scientific Review Group 2013/05 ZDE1 JR (11) 1:
Small Research Grants for Oral Health Data Analysis and Statistical Methodology Development (R03).
6 cycles, 2013-2015.
Chair, NIH / NIDCR Special Emphasis Panel / Scientific Review Group (R03 applications: PAR12-120
and PAR10-041), October 2012.
NIH Review Panel Member for NCCAM Clinical Studies R34 applications (ZAT1 PK 28), 2013.
NIH Common Fund Health Care Systems Collaboratory Coordinating Center (U54; RFA RM11-021),
June 2012.
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 Partnership, formerly Better Health Greater Cleveland (sponsored in part [2007-2015] by the Robert Wood Johnson Foundation)

Chief Data Scientist, 2017-.

Data Director, 2007-2016.

Chair or Co-Chair, Information Management Committee, 2007-2016.

Leadership Team and Research Committee, 2007-present.

Executive Team, 2007-2016.

National COPTR (Childhood Obesity Prevention & Treatment Research) Consortium

Design and Analysis Working Group, 2011-present. Vice Chair, 2012.

Public Health Collaboratives and HIP-C (Healthy Improvement Partnership - Cuyahoga)

HIP-C Public Health and Clinical Care Committee, 2013-present.

HIP-C Measurement and Evaluation Advisory Group, 2013-present.

Healthy Cleveland, Healthy Cuyahoga Community Health Data Source Steering Committee Member, 2013-present. healthdataportal.org

Community Health Status Assessment Subcommittee, Health Improvement Planning Project, 2010-2013.

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.

Subject Matter Expert

Patient-Centered Medical Home Learning Resource Development, *Cuyahoga Community College HHS / Office of the National Coordinator for Health Information Technology Expansion Grant*, 2012-2013.

Statistical Judge

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

Intel International Science & Engineering Fair, 2003.

Referee / Reviewer

Referee for over 140 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*, *Annals of Applied Statistics*, *BMC Medical Research Methodology*, *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 more than two dozen 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, 2007-2015.

Reviewer, CTSC Annual Pilot Program, 2014-2015.

Clinical and Translational Curriculum Working Group, 2008-2010.

Center for Health Care Research & Policy

Director, Biostatistics & Evaluation Unit, 2001-present.

Chair, Doctoral Faculty Search, 2014.

Chair, Biostatistics & Epidemiology Faculty Search, 2010-11. (Hired Douglas Gunzler, Ph.D.)

Chair, Biostatistics Faculty Search Committee, 2004-06. (Hired Rhoderick Machekano, Ph.D.)

Chair, Data Security & Management Committee, 2005.

Chair, Statistical Programmer/Analyst Search Committee, 2004-05. (Hired Steven Lewis, M.B.A., M.S.)

Case Western Reserve University School of Medicine

Department of Epidemiology & Biostatistics, Track Leader, M.S. in Biostatistics - Health Care Analytics Program, 2014-present.

Department of Epidemiology & Biostatistics, Member, Mentoring Committee for Nathan Morris, Ph.D., Senior Instructor, 2015-16.

Department of Epidemiology & Biostatistics, Member, Faculty Search Committee for Division Chair in Health Care Organization, Outcomes and Policy, 2012-2013.

Appointments, Promotions & Tenure Committee, MetroHealth, 2009-2012.

MetroHealth System Clinical Research Unit, Scientific Review Committee, 2011-2012.

Lepow Day Review Committee for Medical & Graduate Student Research, 2006-2008; 2013-.

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

Neurological Outcomes Center, University Hospitals / Case Medical Center

Neurological Outcomes Center Advisory Board, 2009-present.

Data Safety and Monitoring Board

Improving Outcomes for Individuals with Serious Mental Illness and Diabetes: Targeted Training in Illness Management (TTIM), 2012-2016.

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

Active Courses Directed, Developed and Taught

EPBI 432: *Statistical Methods in Biological and Medical Sciences - 2*. Core course in Department of Epidemiology & Biostatistics. 40 contact hours, 2015-present.

Materials available at <https://sites.google.com/a/case.edu/love-432/>

EPBI 431: *Statistical Methods in Biological and Medical Sciences - 1*. Core course in Department of Epidemiology & Biostatistics. 40 contact hours, 2014-present.

Materials available at <https://sites.google.com/a/case.edu/love-431/>

CRSP 500 / EPBI 500: *Observational Studies*. Clinical Research Scholars Program (CRSP) elective course, M.S. elective in Department of Epidemiology & Biostatistics: 40 contact hours, 2003-2014, 2016-present. (Next: Spring 2016)

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

Other School of Medicine Courses and Lectures

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

CRSP 401: *Introduction to Clinical Research*. Instructor and Developer of *Statistical Thinking for Clinical Research* Material: 12-20 hours, 2001-2013.

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

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

Guest Lecture on "Presenting Effectively with Data" CRSP 413: *Communication in Clinical Research Seminar*. Annual. 2013-present.

Guest Lecture on "Presenting Statistical Information in a Hurry" CRSP 413: *Communication in Clinical Research Seminar*. 2013.

Guest Lecture on "Visualizing Data - Why Should Data Miners Have All The Fun?" KL2 Scholars in Clinical Research. 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 Reserve₂ 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.

HSMC 410: *The American Healthcare Landscape and Statistics for Health Care Managers*. Co-taught with S. Rose. Summer 2014 MSM-Healthcare program at the Weatherhead School of Management: 15 contact hours, 2014-2015.

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**, "Using Propensity Scores to Effectively Design and Analyze Observational Studies." Full-day travelling course, sponsored by American Statistical Association.
 - (a) American Statistical Association Northeast Illinois Chapter, Glenview, IL May 29, 2015.
 - (b) American Statistical Association Pittsburgh Chapter, Pittsburgh, PA October 11, 2015.

- (c) American Statistical Association Cleveland Chapter, Cleveland, OH October 19, 2015.
 - (d) American Statistical Association Central Arkansas Chapter, Little Rock, AR October 23, 2015.
 - (e) American Statistical Association South Carolina Chapter, Charleston, SC November 6, 2015.
 - (f) American Statistical Association Georgia Chapter, Atlanta, GA January 30, 2016.
2. **Love TE**, "Designing an Observational Study with the Propensity Score." 10th International Conference on Health Policy Statistics, Chicago, October 2013.
 3. **Love TE**, "Using Propensity Scores to Design and Analyze Observational Studies." Invited Workshop at the "Innovations in Design, Analysis, and Dissemination: Frontiers in Biostatistical Methods" co-sponsored by the Department of Biostatistics (University of Kansas), the Kansas-Western Missouri Chapter of ASA, and Cerner Corporation, April 2013.
 4. **Love TE**, "Designing Observational Studies to Avoid Being Misled." Army Conference on Applied Statistics, Monterey, CA, October 2012.
 5. **Love TE**, "Propensity Scores: Design and Analysis." Full-Day Short Course at Medtronic, Inc., Minneapolis, October 2012.
 6. **Love TE**, "Comparative Effectiveness using Observational Studies." Invited Short Course at the 35th Annual Midwest Biopharmaceutical Statistics Workshop, May 2012.
 7. Cebul RD, Einstadter DE **Love TE**, "Applications of Census-Based Estimates in Public and Member's Only Reporting." Aligning Forces for Quality Special Interest Group Webinar Series, 2012.
 8. Cebul RD Einstadter DE **Love TE**, "Using Census Data to Measure Patient Socio-Economic Status." Aligning Forces for Quality Webinar, 2011.
 9. **Love TE** "Propensity Score Analysis." Full-day seminar in HSR Methods: AcademyHealth Annual Research Meeting, Boston, 2010.
 10. **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.
 11. **Love TE**, Dawson NV, Cebul RD "Cluster-Randomized Trials in Health Policy Research." Workshop at the 8th ICHPS, Washington, DC, 2010.
 12. **Love TE** "Effective Use of Propensity Scores." Society of Hospital Medicine's Annual Meeting, Chicago, 2009.
 13. **Love TE** "Reducing the Impact of Selection Bias with Propensity Scores." Workshop at the 7th ICHPS, Philadelphia, PA, 2008.
 14. Cebul RD, Dawson NV, **Love TE** "Cluster-Randomized Trials in Health Policy Research." Workshop at the 7th ICHPS, Philadelphia, PA, 2008.
 15. **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.
 16. 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.*
 17. **Love TE** "Strategies for Using Propensity Scores Well." Workshop at the 6th ICHPS (then called ICHPR), Boston, 2005.

18. 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.*
19. **Love TE** "Propensity Scores: Helping Non-Statisticians Get The Message." Chair and Presenter, Luncheon Roundtable, Joint Statistical Meetings, Toronto. 2004.
20. **Love TE** "Discussing and Displaying the Effectiveness of Causal Models for Observational Studies." Chair and Presenter, Luncheon Roundtable, Joint Statistical Meetings, San Francisco, 2003.
21. **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** "Better Health Partnership: An Update for Community Scholars," Center for Reducing Health Disparities, November 2016.
2. Cebul RD, Einstadter DE **Love TE**, "Using Census Data to Measure Patient Socio-Economic Status." Better Health *Greater Cleveland* presentation, 2011.
3. **Love TE**, Ganem J, Struble J "What Students Need to be Scientifically and Quantitatively Literate" Panel. Ohio Mathematics and Science Coalition Meeting, Columbus, 2010.
4. **Love TE** "Statistical Thinking, Literacy and Effective Teaching." Ohio Mathematics and Science Coalition Quantitative Literacy Conference, Columbus, 2009.
5. **Love TE** "Using Propensity Scores Effectively to Deal with Selection Bias: A Follow-Up." American Statistical Association, Cleveland Chapter Fall Workshop, 2008.
6. **Love TE** "What People Thinking about Quality Improvement Should Know About Propensity Methods." American Society for Quality, Elyria-Lorain Chapter, 2005.
7. **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.
8. **Love TE** "Using Propensity Scores Effectively." American Statistical Association, Cleveland Chapter Fall Workshop, 2004.
9. **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 (Active) Trainees

1. [David Ngendahimana, M.S.](#) Ph. D. Dissertation Advisor, "Design and Sensitivity of Observational Studies." Department of Epidemiology & Biostatistics, CWRU, 2016-present.
2. [Joseph \(JT\) Tanenbaum](#) Member, Sponsor Team, MD/PhD Program, 2015-present. JT is the Principal Investigator of an F30 grant from NHLBI entitled "Association of Health Care Delivery and Payment Innovations with Avoidable Cardiovascular Hospitalizations" for 2017-2020.

3. [Briana S. Walker](#), Member, M.S. Thesis Committee, "Rethinking Document Classification: A Pilot for the Application of Text Mining Techniques to enhance Standardized Assessment Protocols for Critical Care Medical Team Transfer of Care" Department of Systems Biology and Bioinformatics, CWRU, 2016-present.

Recent Trainees

4. [Gustavo Heresi-Davila MD, M.S.](#) Career Mentor / Faculty Advisor / MS Thesis Advisor, "Choice of Initial Oral Therapy for Pulmonary Arterial Hypertension, Age and Long-Term Survival: A Propensity Score Analysis." Clinical Research Scholars Program (CRSP), 2011-2017. Current Position: Medical Director of the Pulmonary Thromboendarectomy Program in the Department of Pulmonary and Critical Care Medicine, The Cleveland Clinic.
5. [Carrie Hersh, DO](#) M.S. Thesis Committee Member, "Efficacy and Tolerability of Two Approved Oral Medications for Multiple Sclerosis." Clinical Research Scholars Program (CRSP), 2014-2016. Current Position: The Cleveland Clinic Neurology Institute Lou Ruvo Center for Brain Health.
6. [Joe Zein MD](#) Career Mentor / Faculty Advisor, "The distinctive role of age and asthma duration on asthma severity." Clinical Research Scholars Program (CRSP), 2013-2015. Current Position: The Cleveland Clinic, Pulmonary Disease Physician.
7. [Recai Aktay MD, MPH](#) Member, M.P.H. Thesis Committee, "Association between Cigarette Smoking and Outcomes of Lung Cancer Screening: Does Smoking Matter Beyond 30 Pack-Years?" Department of Epidemiology & Biostatistics, 2013-2014. Current Position: Postdoctoral Fellow, Stanford University School of Medicine.
8. [Matthew Bunte MD, M.S.](#) Member, M.S. Thesis Committee, "Correlation of Ankle-Brachial Index and Toe-Brachial Index with Infragenicular Arterial Patency in Critical Limb Ischemia." Clinical Research Scholars Program (CRSP), 2013-2014. Current Position: Chief Fellow in Interventional Cardiology, The Cleveland Clinic.
9. [Nicholas Schiltz Ph.D.](#) Dissertation Committee Member, "Access and Outcomes from Epilepsy Surgery among Medicaid Enrollees." Department of Epidemiology & Biostatistics, 2011-2013. Current Position: Instructor: CWRU Dept of Epidemiology & Biostatistics.
10. [Marta Keleva MD, M.S.](#) Career Mentor / Faculty Advisor, M.S. Thesis Committee, "Hospitalization Prior to Surgery and Risk for Postoperative Infectious Complications." Clinical Research Scholars Program (CRSP), 2012-2013. Current Position: Staff, The Cleveland Clinic, Department of Cardiothoracic Anesthesiology.
11. [Marijan Koprivanac MD, M.S.](#) Career Mentor / Faculty Advisor, M.S. Thesis Committee, "Value of Robotically Assisted Surgery for Mitral Valve Disease." Clinical Research Scholars Program (CRSP), 2012-2013. Current Position: Staff, The Cleveland Clinic, Department of Thoracic and Cardiovascular Surgery.
12. [Megan Hyland MD, M.S.](#) Career Mentor / Faculty Advisor, M.S. Thesis Committee, "Impact of Race on use of Disease-Modifying Therapy in Multiple Sclerosis." Clinical Research Scholars Program (CRSP), 2010-2012. Current Position: Assistant Professor, Department of Neurology - Neuroimmunology, University of Rochester Medical Center.
13. [Jared Conley MPH](#) M.D./Ph.D. Program, Independent Study Course in Propensity Methods and Observational Studies for Comparing Patient Populations in the EHR Setting, Fall 2011. Current Position: Resident, Harvard Emergency Medicine Program.

14. [Angela Tagliaferri M.S.](#) Research Mentor, M.S. Thesis Committee, "Risk Factors for Contact Lens Papillary Conjunctivitis associated with Silicone Hydrogel Continuous Contact Lens Wear." Department of Epidemiology & Biostatistics, 2011-2012.
15. [Bennie Jeng MD](#) Chair, M.S. Thesis Committee, "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, 2010-2012. Now at University of California, San Francisco.
16. [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.
17. [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.
18. [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.
19. [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.
20. [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: Pulmonary and Critical Care Consultants, Inc., Dayton, OH.
21. [Lars Petersen MD, Ph.D.](#) Primary Care Track Summer Research Project Lead, "Adaptive Stroke Impact Assessment."
Current Position: Associate Professor of Family and Community Medicine, Department of Family Medicine, University of Kentucky.
22. [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.
23. [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.
24. [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: Consultant, Case Western Reserve University.
25. [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: Curtis L. Carlson Professor in Supply Chain and Operations, Carlson School of Management, University of Minnesota.

External Mentor

[Ann-Catherin \(Annie\) N. Simpson](#), Ph.D., Assistant Professor, Department of Healthcare Leadership and Management, Medical University of South Carolina. Mentor on propensity score methods as part of the John R. Raymond Mentoring Fellowship. 2014-2015.

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

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.

The *Better Health Partnership* has supported between 15% and 40% of my effort since 2007, of late through a series of local foundation grants (including the St. Luke's Foundation, the Cleveland Foundation, the Mt. Sinai Foundation and the Sisters of Charity Foundation) and service agreements with many of the organizational partners and provider partners listed at [this link](#).

Role (Founding) Director, Data Center: 2007 - 2016. Chief Data Scientist: 2017-present.

Completed Projects

Robert Wood Johnson Foundation (Cebul, PI) [05/01/13 - 04/30/15]

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 Center; Chair, Information Management Committee

KRR0244990A1 (Davis, PI) [09/17/07 - 05/31/16]

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, 2007-09, 2010-15.

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 Center; Co-Chair, Information Management Committee

Robert Wood Johnson Foundation (Cebul, PI) [07/01/12 - 06/30/13]

Red Carpet Care for Patients in Greatest Need: The Greater Cleveland Super-Utilizer Project

Goals Better Health Greater Cleveland proposes a multi-payer Red Carpet Care program for those in greatest need, incorporating "Super User" clinics within level 3 NCQA recognized Patient-Centered Medical Home community practices of the MetroHealth System.

Role Director, Data Center; Co-Investigator

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 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.

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.

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.

Selected Statistical Consulting Projects

Evaluation of the WaterHealth Initiative in India, International Finance Corporation, World Bank Group, 2012.

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 U.. Survey design. 2003-2004.

Publications

Peer-Reviewed Articles Published or In Press: *Mentees in blue*

To Appear; Accepted for Publication

1. **Zein J Love TE** Erzurum SE Asthma is Associated with a Lower Risk of Sepsis and Sepsis-Related Mortality *Amer J Resp Crit Care Medicine - Blue*, to appear.

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2. Lam PH Dooley DJ Inampudi C Arundel C Fonarow GC Butler J Wu WC Blackman MR Anker MS Deedwania P White M Prabhu SD Morgan CJ **Love TE** Aronow WS Allman RM Ahmed A Lack of evidence of lower 30-day all-cause readmission in Medicare beneficiaries with heart failure and reduced ejection fraction discharged on spironolactone. *Int J Cardiol*, 2017 Jan 15, 227: 462-466. doi:10.1016/j.ijcard.2016.11.006 [PMID: 27866868]

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3. Arundel C Lam PH Khosla R Blackman MR Fonarow GC Morgan C Zeng Q Fletcher RD Butler J Wu WC Deedwania P **Love TE** White M Aronow WS Anker SD Allman RM Ahmed A Association of 30-Day All-Cause Readmission with Long-Term Outcomes in Hospitalized Older Medicare Beneficiaries with Heart Failure. *Am J Med*, 2016 Nov; 129(11):1178-1184. doi:10.1016/j.amjmed.2016.06.018 [PMID: 27401949]
4. **Hersh CM Love TE** Cohn S Hara-Cleaver C Bermel RA Fox RJ Cohen JA Ontaneda D Comparative efficacy and discontinuation of dimethyl fumarate and fingolimod in clinical practice at 12-month follow-up. *Mult Scler Relat Disord*, 2016 Nov, 10:44-52. doi:10.1016/j.msard.2016.08.002 [PMID: 27919497] Editor's Choice Article for November 2016.
5. Ontaneda D **Love TE** Propensity methods for multiple sclerosis: The devil is in the details. *Mult Scler* 2016 Sep, 22(10): 1248-1249. doi:10.1177/1352458516660390 [PMID: 27411702]
6. Sanam K Bhatia V Bajaj NS Gaba S Morgan CJ Fonarow GC Butler J Deedwania P Prabhu SD Wu WC White M **Love TE** Aronow WS Fletcher RD Allman RM Ahmed A Renin-Angiotensin System Inhibition and Lower 30-Day All-Cause Readmission in Medicare Beneficiaries with Heart Failure. *Am J Med* 2016 Oct, 129(10): 1067-73. doi:10.1016/j.amjmed.2016.05.008 [PMID: 27262781]
7. **Schiltz NK** Kaiboriboon K Koroukian SM Singer ME **Love TE** Long-term reduction of health care costs and utilization after epilepsy surgery. *Epilepsia* 2016 Feb, 57(2): 316-24. doi:10.1111/epi.13280 [PMID: 26693701]

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8. Bhatia V Bajaj N Sanam K Hashim T Morgan CJ Prabhu SD Fonarow GC Deedwania P Butler J Carson P **Love TE** Kheirbek R Aronow W Anker SD Waagstein F Fletcher R Allman RM Ahmed A. Beta-blocker use and 30-day all-cause readmission in Medicare beneficiaries with systolic heart failure. *Amer J Medicine*, 2015 Jul, 128(7): 715-21. doi:10.1016/j.amjmed.2014.11.036 [PMID: 25554369]

9. Busch RM Love TE Jehi LE Ferguson L Yardi R Najm IM Bingaman W Gonzalez-Martinez J Effect of invasive EEG monitoring on cognitive outcome after left temporal lobe epilepsy surgery. *Neurology*, 2015 Oct 27; 85(17): 1475-81.
doi: 10.1212/WNL.0000000000002066 [PMID: 26408491]
10. Cebul RD, Love TE, Einstadter D, Petrusis AS, Corlett JR. MetroHealth Care Plus: Effects Of A Prepared Safety Net On Quality Of Care In A Medicaid Expansion Population. *Health Aff (Millwood)* 2015 Jul 1, 34(7): 1121-30.
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[PMID: 25852080]
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18. Ahmed A Bourge RC Fonarow GC Patel K Morgan CJ Fleg JL Avan IB Love TE Yancy CW Deedwania P van Veldhuisen DJ Filippatos GS Anker SD Allman RM Digoxin use and lower 30-day all-cause

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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.

Non-Peer-Reviewed Articles and Essays

Better Health Partnership, formerly Better Health Greater Cleveland (2008-). Contributor for 18 Executive Summaries, Community Health Checkup Reports, Reports to the Community and Website Materials.

<http://www.betterhealthpartnership.org>

Love TE Better Health Partnership (2007-). Data Briefs for Reports 1-18.

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1. Diabetes Care and Outcomes, 2007-present
2. High Blood Pressure Control and Care, 2009-present
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4. *Better Health* and the Nation: Comparing NCQA/HEDIS Results
5. Population Health Measures and Trends in Greater Cleveland, 2009-present
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8. Depression and Chronic Disease in Northeast Ohio
9. Patient Experience: Listening to the Patient's Voice

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.

Love TE Nonparametric Statistics. *Encyclopedia of Business*, Gale Research, 1996.

Love TE Teaching, reading and doing statistical proofs. American Statistical Association 1995 Proceedings of the Section on Statistical Education, 199-204.

Recent Research Presentations

National / International Meetings

1. **Love TE** "Reporting Health Disparities Broadly using Electronic Health Records Data", Institute for Health Technology Transformation's Health IT Summit, Cleveland OH April 2016.
2. **Love TE**, "Balance Reduction for Observational Studies using Propensity Scores.", Invited Session, American Statistical Association Biopharmaceutical Section Industry Statistics Workshop, Washington, DC, September 2015.
3. **Love TE**, "The Better Health Partnership: Making Northeast Ohio a Healthier Place to Live and a Better Place to do Business", VHA Center for Applied Healthcare Studies Population Health Learning Opportunities Webinar, August 2015.
4. **Love TE**, roundtable leader, "Using Electronic Health Records to Enhance Health Policy Research", Seattle, WA. Joint Statistical Meetings, August 2015.
5. **Love TE**, panelist. "Driving Quality Improvement", Robert Wood Johnson Foundation Align Summit on Increasing Value in Health Care, Washington, DC. November 2014.
6. **Love TE**. "Catalyzing Better Health in Greater Cleveland through Performance Measurement, Public Reporting and Thoughtful Analytics", Mathematica Center on Health Care Effectiveness, October 2014.
7. **Love TE**. "Using Data to Act on and Understand Disparities in Health and Health Care at Better Health Greater Cleveland", Greater Detroit Area Health Council Race, Ethnicity and Primary Language Committee, October 2014.
8. Petrusis AS, **Love TE**. "Using Electronic Health Records to Target Care", Maine Quality Counts Webinar, September 2014.
9. **Love TE**, panelist. "Identifying and Reducing Disparities in Health Care: Lessons Learned from the Robert Wood Johnson Foundation", National Webinar, July 2014.
10. **Love TE**. "Effective Despite Expectations: Service vs. Collaboration", Panel on "Teaching through Collaboration: Lessons from Clinical and Translational Science for Biostatisticians and Teachers of Statistics in the Health Sciences." *Joint Statistical Meetings*, August 2013.
11. **Love TE**, Discussant, "New Developments in Propensity Score Analysis." *American Public Health Association*, October 2012.
12. **Love TE** Making Public Performance Reporting Meaningful and Useful: Large Observational Studies of the Role of Electronic Health Records in Chronic Disease Care. *Joint Statistical Meetings*, August 2012.

13. **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.
14. **Love TE** Statistical Considerations and Methods for Observational Studies and Comparative Effectiveness Research. Genentech, San Francisco, CA, December 2010.
15. **Love TE** Observational Research Studies - A General Session. Genentech, San Francisco, CA, December 2010.
16. **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.
17. **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.
18. 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.
19. 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.
20. **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.
21. **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.
22. **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.
23. 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.
24. 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.
25. Wolf AW **Love TE** "Item Response Theory and The Assessment of Psychotherapy Outcome" American Psychological Association, Washington, DC, August 2005.
26. Wolf AW **Love TE** "Item Response Theory and The Assessment of Psychotherapy Outcome" North American Society for Psychotherapy Research, Montreal, Canada, June 2005.
27. **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.
28. **Love TE** "Adaptive Assessment of Stroke Impact," Section on Health Policy Statistics, *Joint Statistical Meetings*, August 2003.

29. **Love TE** "Explaining Post-Propensity Score Covariate Balance." International Biometric Society, Eastern North American Region Meeting, April 2003.
30. **Love TE** "Displaying Covariate Balance after Adjustment for Selection Bias," Section on Health Policy Statistics, *Joint Statistical Meetings*, August 2002.
31. **Love TE** "Quality Improvement and Propensity Models," Institute for Operations Research & the Management Sciences (INFORMS) Meeting, Miami, November 2001.
32. **Love TE** Moderator and Convenor, "Special Plenary Session in Memory of David Hildebrand," 15th MSMESB Conference, Syracuse University, June 2000.

Regional Meetings

33. **Love TE** "Better Health at 10: Celebrating Your Achievements, 18th Report to the Community" The City Club of Cleveland, Cleveland OH February 2017.
34. **Love TE** "Better Health's 17th Report to the Community" Wolstein Research Building, CWRU, June 2016.
35. **Love TE** "Better Health Partnership and the VA in Northeast Ohio" VA PACT retreat, Wade Park Campus, Cleveland, June 2016.
36. **Love TE** and the staff of Better Health Partnership "Better Health Partnership and its work improving health care, health and costs in Northeast Ohio" IHI Delegation Presentation, May 2016.
37. **Love TE** "Better Health Partnership Update: What We Can Learn from the Data", Better Health Partnership's 18th Learning Collaborative Summit, April 2016.
38. Cebul RD **Love TE** Solov D "Updates and Discoveries: 15th Community Health Checkup" Wolstein Building, CWRU, June 2015.

Interviewed "Improving Diabetes, High Blood Pressure in Northeast Ohio", June 18, 2015.

<http://www.ideastream.org/news/improving-diabetes-high-blood-pressure-northeast-ohio>

39. **Love TE** "Leading the Path to Change", Better Health Greater Cleveland Learning Collaborative Summit, April 2015.
40. Cebul RD **Love TE** Solov D. "Better Care, *Better Health*, Lower Costs: 14th Community Health Checkup" The City Club of Cleveland, January 2015.
41. **Love TE**. "What We're Learning about Inequities in Health and Health Care: The Data", Better Health Greater Cleveland Learning Collaborative Summit, September 2014.
42. **Love TE**. "What Do The Data Say? 13th Community Health Checkup" Better Health Greater Cleveland 13th Community Health Checkup, Dively Center, Weatherhead School of Management, July 2014.
43. Cebul RD **Love TE** Solov D. "*Better Health* in a new era: 12th Community Health Checkup" The City Club of Cleveland, February 2014.
44. **Love TE** "Better Health *Greater Cleveland* - Data and Insights to Drive Better Health Care for Everyone." Ohio Practice-Based Research Festival 2.0: The Growing Intersection of Primary Care and Public Health, December 2013.

45. Cebul RD **Love TE** "*Better Health's* 11th Community Health Checkup: Shortening the Path to High-Value, Patient-Centered Care." Readyng the Health Care Workforce for Transformation Conference, July 2013.
46. **Love TE** "'Bright Spots' - Celebrating and Learning About Achievement and Improvement" Better Health *Greater Cleveland Learning Collaborative Summit*, March 2013.
47. **Love TE** "Using the Better Health *Greater Cleveland Members Site*" Better Health *Greater Cleveland Learning Collaborative Summit*, September 2012.
48. **Love TE** "Diving into the Data: Building New Tools to Visualize and Learn from Your Results" Better Health *Greater Cleveland Learning Collaborative Summit*, March 2011.
49. **Love TE** "Not Your Father's Statistics: What Dermatologists need to know about Modern Clinical Research Methods" Cleveland Dermatological Society, November 2010.
50. **Love TE** "Statistical Thinking and Quantitative Literacy" Ohio Mathematics and Science Coalition Quantitative Literacy Conference, Columbus, October 2009.
51. **Love TE** "Why Data Analysis and Statistical Thinking Matters" National Council of Teachers of Mathematics Regional Meeting, Cleveland, October 2008.
52. Bailit JL **Love TE** "Building Risk-Adjustment Models for the Assessment of Obstetrical Quality" Cleveland Chapter, American Statistical Association, December 2007.
53. **Love TE** Linderman KW "Economic and Statistical Concerns in the Design of Multivariate Control Charts" Elyria/Lorain Chapter, American Society for Quality, May 2005.
54. Wolf AW **Love TE** Kraus D Castonguay L "Item Response Theory and Psychotherapy Outcome" Ohio Society for Psychotherapy Research, Toledo, Ohio, April 2005.
55. **Love TE** "Why Statistical Thinking Matters," Invited Address for the Greater Cleveland Council of Teachers of Mathematics Annual Awards Banquet, May 2004.
56. **Love TE** "Educating Business Students and Quality: Lessons from the MSMESB Conferences," American Society for Quality, Elyria/Lorain Chapter, November 2001.
57. **Love TE** "Education, Quality and Making Statistics More Effective in Schools and Business," American Society for Quality, Cleveland Chapter, May 2001.
58. **Love TE** "Statistics Education and the MSMESB Conferences," American Statistical Association, Cleveland Chapter, March 2001.

Case Western Reserve University & Affiliates

59. Cebul RD **Love TE** Einstadter D "Measuring and Documenting Change in Disparities", Center for Health Care Research & Policy, November 2016.
60. **Love TE**, "The Better Health Partnership: Transforming Care of Chronic Illness in Northeast Ohio." Cleveland Clinic Medicine Institute Health Services Research Seminar Series, July 2015.
61. **Love TE** "Better Health Greater Cleveland and Health Policy Research." Department of Epidemiology and Biostatistics Seminar, November 2014.
62. **Love TE** "Visualizing Data to improve Health Research and Care." MetroHealth Medical Center Department of Medicine Grand Rounds, September 2010.

63. **Love TE** "Effective Design in Health Care Evaluation: Getting Statisticians More Deeply Involved in Interdisciplinary, Collaborative Work." Department of Statistics Colloquium. November 2007.
64. **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.
65. **Love TE** "Cluster Randomized Trials of EMR-Catalyzed Decision Support: Part II. Analytic and Strategic Concerns." Center for Health Care Research & Policy, Sept. 2006.
66. **Love TE** "Evidence in medical trials - What can we learn from data?" Division of Rheumatology, University Hospitals Health System, September 2006.
67. **Love TE** "A Statistician's Adventures in Public Health Research: Balance and Design" Department of Statistics, Case Western Reserve University, March 2006.
68. **Love TE** "Must We Be Misled By Observational Studies?" MetroHealth Medical Center Department of Medicine Grand Rounds, May 2005.
69. **Love TE** "Item Response Theory, Adaptive Assessment, and Health Services Research" Louis Stokes Cleveland VA Medical Center, November 2004.
70. Peterson L **Love TE** Katzan I Husak SA Cebul RD "Computer Based Stroke Impact Assessment." MetroHealth Medical Center Research Days, September 2003.
71. **Love TE** Litaker D "Hierarchical Modeling." Methods Seminar Series, Center for Health Care Research & Policy, CWRU-MetroHealth, August 2002.
72. **Love TE** "Item Response Models and Health Services Research." Methods Seminar Series, Center for Health Care Research & Policy, CWRU-MetroHealth, July 2002.
73. **Love TE** "Propensity Scores for Selection Bias Adjustment in Observational Studies," Department of Operations, Weatherhead School of Management, March 2002.

Last updated: March 18, 2017