

Kenneth Paul Kleinman, Sc.D.

Curriculum Vitae

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Education

1988	BA	Sociology/Anthropology	Oberlin College
1994	SM	Biostatistics	Harvard School Of Public Health
1996	ScD	Biostatistics	Harvard School Of Public Health

Postdoctoral Training

1996-1997 **Post-Doctoral Fellow** **Biostatistics** **University of Michigan**

Academic Appointments

1996-1997 **Adjunct Assistant Professor**, Biostatistics, University of Michigan

2000-2001 **Instructor**, Ambulatory Care and Prevention, Harvard Medical School

2001-2006 **Assistant Professor**, Ambulatory Care and Prevention, Harvard Medical School

2006-2015 **Associate Professor**, Ambulatory Care and Prevention/ Population Medicine*, Harvard Medical School

2015- **Associate Professor**, Biostatistics and Epidemiology, University of Massachusetts Amherst

* Department renamed in July 2009

Other Professional Positions

1997-2000 **Associate Research Scientist**, New England Research Institutes

Professional Societies

1992- International Biometrics Society, Member
1992- American Statistical Association, Member
2005- International Society for Disease Surveillance, Member

Honors

1992-1996 **Trainee**, Psychiatric Epidemiology Training Grant, Harvard School
Of Public Health
1996-1997 **Trainee**, Psychiatric Epidemiology Training Grant, U. Of Michigan

Departmental, School, and University Service

2001-2003 **Member**, Senior Faculty Search Committee, Department of Ambulatory
Care and Prevention, Harvard Medical School
2005-2006 **Member**, Search Committee, Department of Ambulatory Care and
Prevention, Harvard Medical School
2008-2009 **Chair**, Search Committee, Department of Ambulatory Care and
Prevention, Harvard Medical School
2007-2008 **Member**, Clinical and Translational Science Award proposal, biostatistics
subcommittee, Harvard University
2011-2015 **Founding Director**, Biostatistics Center, Department of Population
Medicine, Harvard Pilgrim Health Care Institute and Harvard Medical
School
2013-2015 **Director**, Department Grant Review, Department of Population Medicine
2015-2016 **Member**, Search Committee, UMass Amherst SPHHS Department of
Biostatistics and Epidemiology
2016-2017 **Chair**, Search Committee, UMass Amherst SPHHS Department of
Biostatistics and Epidemiology (Successfully recruited primary candidate)
2016-2017 **Member**, Admissions Committee, UMass Amherst SPHHS Department of
Biostatistics and Epidemiology
2015-2016 **Member**, Curriculum Committee, UMass Amherst SPHHS Department of
Biostatistics and Epidemiology
2016-2017 **Chair**, Curriculum Committee, UMass Amherst SPHHS Department of
Biostatistics and Epidemiology
2016-2017 **Member**, Strategic Planning and Evaluation Committee, UMass Amherst
SPHHS
2015- **Initiator and Leader**, Departmental grant development group: discussion
group to help share experience with grant writing

Departmental, School, and University Service (continued)

- 2015- **Initiator and Leader**, Campus-wide statistical interest group: Social meetup to encourage connections for people with common skills in different colleges
- 2017 **Member**, Lecturer/Methodologist Search Committee, Department of Psychological and Brain Sciences, UMass Amherst CNS

Major national service

- 2003-2004 **Member**, CDC Expert Panel on Evaluating Syndromic Surveillance Systems
- 2004-2009 **Member**, Data Safety Monitoring Board, NIH grant AG014376, Spaulding Rehab
- 2005-2008 **Member**, Data Safety Monitoring Board, NIH grant AT000309, UMass Medical School
- 2007 **Program Chair**, 2007 Conference of the International Society for Disease Surveillance, Indianapolis, IN
- 2008-2009 **Member**, Institute of Medicine and National Research Council, Committee on Effectiveness of National Biosurveillance Systems
- 2016- **Member**, Data Safety Monitoring Board, VA Project CSP597

Extra-Institutional Committee Service

- 2000-2004 **Statistical Advisor**, Harvard Pilgrim Health Care IRB
- 2003 **Statistical Advisor**, Boston University Medical School IRB
- 2004-2009 **Member**, Data Safety Monitoring Board, NIH grant AG014376, Spaulding Rehab
- 2005 **Member**, Program Committee, 4th Syndromic Surveillance Conference
- 2006-2007 **Member**, American Statistical Association Expert Panel on Evaluating Surveillance
- 2006-2007 **Member**, Program Committee, Society for Industrial and Applied Mathematics, Data Mining for Pandemic Preparedness 2007, Minneapolis, MN
- 2006-2007 **Member**, Program Committee, National Science Foundation 2007 BioSurveillance Workshop, New Brunswick, NJ
- 2008-2009 **Member**, Institute of Medicine and National Research Council, Committee on Effectiveness of National Biosurveillance Systems

Grant Review Activities

2002-2010	Ad-Hoc Member , NIH Center for Scientific Review Study Section: Health Services Organization and Delivery. 10 Meetings
2003-2011	Member NIH Center for Scientific Review Special Emphasis Panels, (3 Panels).
2004	Ad-Hoc Member , NIH Center for Scientific Review Study Section: Biostatistical Methods and Research Design
2004	Ad-Hoc Member , NIH Center for Scientific Review Study Section: Infectious, Reproductive, Asthma and Pulmonary Conditions,
2006-2015	Member , Departmental Grants Review Committee, Department of Population Medicine, Harvard Medical School and Harvard Pilgrim Health Care
2009	Member , Challenge Grant Review, NIH
2009	Member , ARRA Competing Revision, NIH
2013-2016	Founding standing member , PCORI, Assessment of Prevention, Diagnosis, and Treatment Options, (plus 3 initial rounds). Note: PCORI has since discontinued the standing member program.
2014	Ad-hoc Member , NIH Center for Scientific Review Study Section: Community-Level Health Promotion
2015	Ad-hoc Member , NIH Center for Scientific Review Study Section: Psychosocial, Risk and Disease Prevention
2015-	Standing Member , NIH Center for Scientific Review Study Section: Community Level Health Promotion

Journal service (*year of first review, except as noted*)

1997	Statistics in Medicine
1998	Biometrics
1998	Journal of the American Statistical Association
2000	Journal of Gerontology: Psychological Sciences
2000	The American Journal of Psychiatry
2001	Biomed Central Medicine Journals
2004	IRB: Ethics and Human Research
2004	Epidemiology
2005	American Journal of Epidemiology
2006	Technometrics
2006	Annals of Internal Medicine
2006	Founding co-Editor-in-Chief , Advances in Disease Surveillance
2007	Quality Engineering
2012	Journal of the Royal Statistical Society, Series B

Selected Funded Research

Many investigators seek my counsel and input, so I have received funding on many, many projects, some for relatively small percent effort. Here I include only projects to which I have devoted at least 15% of my effort over a period of a year or more. Sometimes these commitments span several funding sources.

Selected Current funded projects, all exceed \$1,000,000 in total direct costs

	Source/Title	Roles
2017-2020	NIH(NIGMS) Power for Cluster-Randomized Trials: Software, Web app, and Methods (R01 GM121370)	PI
2016-2018	NIH(OD) Common and distinct early environmental influences on cardiometabolic and respiratory health: Mechanisms and methods (ECHO) (UG3 OD023286)	MPI
2000-2022	NIH (NICHD, most recent grant) Pre- and peri-natal predictors of childhood obesity, Project Viva (R01 HD034568)	Co-Investigator
1997-2022	CDC, Epicenters Epicenter IV: Harvard Pilgrim UCI Center for HAI Prevention (U54 CK000484)	Co-Investigator
2015-2020	AHRQ, Protect Trial: Protecting nursing home residents from infections and readmissions (R01 HS024286)	Co-Investigator
2012-2018	AHRQ, National claims-based quality measures for surgical site infections SSI (R18 HS021424)	Co-Investigator

Selected Past funded projects

	Source/Title	Role
2003	CDC/Williamson County and Cities Health District Automated Syndromic Surveillance of Office Visits	Statistician
2002-2004	NIA/NIAMSD (R01)	Statistician
2001-2004	Reducing benzodiazepines and hip fracture in the elderly NIH (R01)	Statistician
2001-2004	Race and long-term diabetes self-management AHRQ (U18)	Statistician
2001-2004	The CERTs Prescribing Safety Program AHRQ (U18)	Statistician
1999-2004	A randomized controlled trial to reduce prescribing errors in hypertension NIH (R01)	Statistician
1998-2004	Reducing Antibiotics for Children (REACH) March of Dimes Foundation	Statistician
1998-2004	Societal factors, stress hormones, and preterm birth NIH (NICHD/R01)	Co-Investigator
2000-2003	Effects of prenatal diet on mother and child CDC	Statistician
2005-2008	Public Health Preparedness and Response to Bioterrorism Focus Area B2-Surveillance and Epidemiology Capacity NIH (LM008707/R21)	PI
	Methods for evaluating bioterrorism surveillance tools	

Selected Funded Research, Past funded projects (continued)

2005	MRSA ICU Project (Epicenter sub)	Statistician
2004-2008	NIH (NHLBI, NIDDK/R01s) Maternal fatty acids, child obesity and asthma immunity	Co-Investigator
2004-2005	CDC (U01) Joint Initiative in Vaccine Economics II	Statistician
2003-2006	NICHD/AHRQ (R01) Communication, Perspectives, & Child Asthma Disparities	Statistician
2003-2006	NIH (NIMH/R01) Predictors of antenatal and postpartum depression	Statistician
2003-2006	NIH Screening and Family History of Colorectal Cancer	Statistician
2003-2005	CDC/Mass. Dept of Public Health Multi-site Surveillance Project	Co-Investigator
2002-2005	Robert Wood Johnson Foundation Rewarding Results	Statistician
2002-2005	March of Dimes The effects of racism on pregnancy and birth outcomes	Statistician
2001-2006	NIH (NHLBI/K24) Patient-oriented research in early life origins of CVD	Statistician
2000-2006	CDC (UR8) National bioterrorism syndromic surveillance demonstration program	Statistician
2000-2005	NIH (NHLBI/R01) Nutrition in pregnancy, birth weight, and childhood asthma	Co-Investigator
2002-2005	NIH (NIDDK/R01) Race and Long-Term Diabetes Self-Management in an HMO	Co-Investigator
2005-2009	CDC (CD000260/P01) Public Health Informatics Center of Excellence	Director of Statistical Core
2006-2010	CDC (PH000032/R01) Data Evaluation for Early Disease Outbreak Detection	PI (2007-2010)
2006-2012	NIH (GM076672/U01) MIDAS Modeling Health Systems Infectious Disease Data	Co-PI (daily leadership, 2007-2010)
2008-2014	NIH REDUCE Trial	Co-Investigator
2011-2015	NIH: PROBIT Breastfeeding RCT	Co-Investigator

Teaching and Training

One reason I left the Department of Population Medicine in 2015 was that it was difficult to find teaching opportunities there. I was able to teach short courses, mostly in the summer, but did not have the dedicated time, in that 100% grant-funded environment, to teach long-format courses during the academic year. In addition, while I did a great deal of informal teaching with epidemiologists, physicians, and health services researchers, it was nearly impossible to attract biostatistics students from the local schools, which have an abundance of faculty and a relative shortage of students. Since moving to the University of Massachusetts, Amherst, I have been able to recruit doctoral students to the program and to my lab, and this has been extremely rewarding, both personally and professionally.

Teaching in courses

2005	Syndromic Surveillance: Why, How, What works. Summer program in Quantitative Sciences, Biostatistics Department, HSPH
2007	Clinical Epidemiology and Public Health (AC511.0) Tutor
2007	Public Health Surveillance (Biostat 287, HSPH)
2007	Clustered data analysis; Harvard/Real Colegio Complutense Summer program for Latin American Scholars
2008	Clustered data analysis; Harvard/Real Colegio Complutense Summer program for Latin American Scholars
2009	1) Regression models, 2) Clustered data analysis; Harvard/Real Colegio Complutense Summer program for Latin American Scholars
2014,2015, 2017	Faculty, OBSSR/NHLBI Summer Institute on Randomized Behavioral Clinical Trials
2016	UMass BIOEPI 740 Mixed Models
2016	UMass BIOEPI 691F Data Analysis with SAS
2017	UMass BIOEPI 740 Mixed Models

Formally Supervised Trainees

2002-2005	Nancy Lin, Post-doctoral fellow, Co-mentor
2006-2009	Anshu Mohllajee, Doctoral Student (Epidemiology), Harvard School of Public Health, Thesis Committee Member
2010-2011	Taliser Avery, MPH Student, Boston University School of Public Health, Thesis Thesis Committee Member
2011	Amy Graves, MS Student (Biostatistics) Harvard School of Public Health, Thesis Committee Chair
2015-2016	Alex Bogdan, MS Student (Biostatistics), UMass SPHHS, Advisor and Thesis committee Chair
2015-2016	Nicole Barron, MS Student (Epidemiology), UMass SPHHS Thesis Committee Member

Formally Supervised Trainees (continued)

2015-	Cristina Huebner Torres, Doctoral Student (Epidemiology), UMass SPHHS, Thesis Committee Member
2015-2017	Katrina Leap, MS Student (Biostatistics), UMass SPHHS, Advisor and Thesis committee Chair
2016-2017	Nana Boeme, MS Student (Epidemiology), UMass SPHHS, Thesis Committee Member
2016-2017	Jon Moyer, MS Student (Biostatistics), UMass SPHHS, Research Supervisor
2017-	Jon Moyer, PhD Student (Biostatistics), UMass SPHHS, Advisor and Thesis committee Chair
2017-	Steve Lauer, Doctoral Student (Biostatistics), UMass SPHHS, Thesis committee Member

K award advising

2000-2012	Matthew Gillman**
2002-2007	Emily Oken*
2004-2014	Tracy Lieu**
2007-2012	Alison Galbraith*
2010-2015	Jonathan Finklestein**
2013-2018	Jason Block*

* *K23 awards; I am/was a statistical advisor to the recipient*

** *K24 awards; I worked with mentees of the recipient on developing statistical expertise*

Scholarly activities

Due to space considerations, I have omitted all posters, abstracts, and similar activities from this document.

Local, regional, national and international invited presentations

Local and regional invited presentations

- 1997 A semi-parametric approach for longitudinal repeated measures, University of Michigan Department of Biostatistics Colloquium Series, February 19, 1997
- 2000 Thinking they're normal when they're not: A practical discussion of the normality assumption in multilevel models, Boston Chapter of the American Statistical Association
- 2003 Syndromic surveillance to detect bioterrorism: Mixed models and other approaches, Harvard School of Public Health
- 2004 Evaluating statistical techniques for bioterrorism surveillance, Harvard School of Public Health
- 2004 Syndromic surveillance: how, why, what works, Smith College, April 5, 2004
- 2006 GEE and GLMM and Empirical Bayes: oh my, Smith College, May 26, 2006
- 2006 Spatial surveillance for public health: motivation and challenges, American Statistical Association Philadelphia Chapter.
- 2007 Clusters and GEE and GLMM, oh my: through a dark and creepy forest. Harvard Pediatric Health Services Research Fellowship Seminar
- 2007 Multiple imputation software for SAS users, New England Statistics Symposium, Storrs CT, April 21, 2007
- 2007 Spatial Surveillance for public health: methods, evaluation, problems, Virginia Bioinformatics Institute at Virginia Tech, November 13, 2007
- 2007 Evaluating spatial surveillance for public health, Institute for Clinical Research and Health Policy Studies, Tufts-New England Medical Center, Boston MA, December 12, 2007
- 2008 Odd risks or risky odds? A discussion of regression for dichotomous outcomes. Harvard Pediatric Health Services Research Fellowship Seminar
- 2009 Risky odds or odd risks? Interpreting models for dichotomous outcomes, School of Public Health and Health Sciences, UMass Amherst, April 3, 2009

Local, regional, national and international invited presentations:

National and international invited presentations

- 1996 A Bayesian framework for Intent-to-Treat analysis with missing data, Eastern North American Region of the International Biometric Society (ENAR) Annual meeting, Richmond, VA, March 1996
- 1997 A semi-parametric approach to GLMM, Eastern North American Region of the International Biometric Society (ENAR) Annual meeting, Memphis, TN, March 1997
- 1998 Sexual activity predicts higher PSA, European Association of Urology Annual Meeting Barcelona, February 1998
- 2000 Non-normal random effects distributions in mixed effects models for longitudinal repeated measures: a simulation study, Eastern North American Region of the International Biometric Society (ENAR) Annual meeting, Chicago, IL, March 2000
- 2000 Directed Double Data Entry: A probabilistic method for determining which forms to re-enter, Society for Clinical Trials, Toronto, April 2000
- 2001 Missing Visits and Missing Variables, Eastern North American Region of the International Biometric Society (ENAR) Annual meeting, Charlotte, NC, March 2001
- 2002 An application of GLMM to bioterrorism surveillance, Eastern North American Region of the International Biometric Society (ENAR) Annual meeting, Arlington, VA, March 2002
- 2003 Biosurveillance for the early detection of terrorism, Eastern North American Region of the International Biometric Society (ENAR) Annual meeting, Tampa, FL, March 31, 2003
- 2003 High- and low-powered alternatives for various cluster detection approaches in the context of syndromic surveillance for bioterrorism, Joint Statistical Meetings, San Francisco, CA, August 3, 2004
- 2003 Surveillance of syndromes: methods of surveillance and intuitive power assessment, International Conference on Health Policy Research, Chicago, October 19, 2003
- 2004 The utility, availability, and use of routine outpatient visits for bioterrorism surveillance, American Academy for the Advancement of Science, Seattle, WA, February 15, 2004
- 2004 Simulating anthrax attacks and evaluating detection techniques, Eastern North American Region of the International Biometric Society (ENAR) Annual meeting, Pittsburgh, PA, March 30, 2004
- 2005 Adaptations, Extensions, and Practical Use of SMART Score Modeling, Public Health Information Network Conference, Atlanta, GA, May 10, 2005
- 2006 Detecting Simple Simulated Anthrax Attacks: Comparison of Cluster Identification Methods via New Assessment Metrics, Eastern North American Region of the International Biometric Society (ENAR) Annual meeting, Tampa, FL, March 31, 2006
- 2006 Metrics for evaluating surveillance, International Biometric Society, Montreal, QC, Canada, July 17, 2006

Local, regional, national and international invited presentations:

National and international invited presentations (continued)

- 2007 Discovering outbreaks in live spatial surveillance: how do methods differ? 11th Biennial CDC and ASTDR Symposium on Statistical Methods, Atlanta GA, April 18 2007
- 2011 MCPOWER: a Flexible Macro Suite for Generating Monte Carlo Power Estimates for Linear, Logistic, and Poisson Regression Models. SAS Global Forum, Las Vegas NV, April 5, 2011
- 2016 The life of a statistician in a medical school. Oberlin College, Oberlin Ohio, October 10, 2016

National and international invited plenary presentations

- 2001 Monitoring ambulatory encounters for possible bioterrorism events, National Academy of Sciences Workshop on Statistical Methods for Monitoring the Safety of Health Products, Washington, DC, December 11, 2001
- 2002 Generalized linear mixed models for biological terrorism surveillance, National Academy of Sciences Workshop on the Mathematical Sciences' Role in Homeland Security, Washington, DC, April 26, 2002
- 2002 Generalized linear mixed models to detect unusual incident clusters of disease, National Syndromic Surveillance Conference, New York, NY, September 23, 2002
- 2005 Evaluating surveillance: systems and methods, Riverside County (CA) Department of Public Health Conference on Mathematical Modeling for 21st Century Public Health Practice, Palm Springs, CA, March 9, 2005
- 2005 Comparing aberration detection systems: metrics for evaluation through simulation, GEOMED Conference, Cambridge, England September 24, 2005
- 2011 Agent based models for evaluating surveillance, GEOMED Conference, Victoria, Canada October 20, 2011
- 2013 Overview of growth models: Longitudinal repeated observations through mixed effects models, International Research Workshop on Analysis of Child Growth Trajectories, Munich, January 2013
- 2013 Growth Models: Adding latent classes, International Research Workshop on Analysis of Child Growth Trajectories, Munich, January 2013
- 2014 Cluster-Randomized Trials, NIH Workshop on Innovative Study Designs and Methods for Developing, Testing, and Implementing Behavioral Interventions to Improve Health, Bethesda MD April 4, 2014
- 2014 Missing data in longitudinal clinical trials, NIH Summer Institute in Behavioral Clinical Trials, Airlie Conference Center, Airlie, VA, July 27, 2014

Local, regional, national and international sessions organized

- 2003 **Session Organizer**, Spatial Surveillance for Incident Clusters and Biological Terrorism, Speakers: Peter Rogerson, Martin Kulldorff, Marcello Pagano, Eastern North American Region of the International Biometric Society (ENAR) Annual meeting, Tampa, FL, March 2003
- 2006 **Session Organizer**, Assessing Spatial Surveillance for Bioterrorism: Simulating Attacks, Speakers: David Buckeridge, James Kaufman, Ken Kleinman, Eastern North American Region of the International Biometric Society (ENAR) Annual meeting, Tampa, FL, March 2006
- 2007 **Program organizer**, Monte Carlo Hypothesis Testing: 50 years anniversary talks Speakers: Martin Kulldorff, Ivair Silva, Marcelo Costa, Allyson Abrams. Harvard School of Public Health, May 2007
- 2007 **Program chair**, International Society of Disease Surveillance annual meeting, Indianapolis, IN, October 2007
- 2013 **Program Co-organizer**, International Research Workshop on Analysis of Child Growth Trajectories, Munich, January 2013

A note on bibliometrics

As of this writing, Google Scholar shows citations to my collected co-authored scientific works totaling more than 20,000 distinct citations, placing me well within the top 100 among those with the keyword “biostatistics” listed as an area of interest. There are 350+ items that are linked to me there, including the more than 230 peer-reviewed books, chapters, and articles described in detail below.

Google scholar also reports my articles’ h-index of 73 and i10-index of 191. These are metrics that help to describe the impact that a scholar’s work has. The i10-index is a simple count of the number of articles with at least 10 citations. A small i10-index can suggest that a scholar mostly publishes papers in very narrowly targeted or poorly circulated journals or to a very small audience in well-read journals. The h-index is a more complex metric, where h is the number of articles with at least h citations. This statistic is designed to correct the raw total number of citations for the impact of one or two often cited papers. A value of 73 on this metric is rather difficult to attain, though the lack of an official Google Scholar API makes this rather difficult to quantify. However, of the scholars with “biostatistics” among their areas of interest, the top 25 have more than 40,000 citations; only 16 have an h-index as high as 73. None of those ranked 101-125 have an h-index so high, though they all have at least 14,000 citations. Parenthetically, of the latter group, of those listing rank, all but one are full professors or senior lecturers.

Peer-reviewed publications

1. Axelrod L, Camuso J, Williams E, **Kleinman K**, Briones E, Schoenfeld D. Effects of a small quantity of omega-3 fatty acids on cardiovascular risk factors in NIDDM. A randomized, prospective, double-blind, controlled study. *Diabetes Care*. 1994;17(1):37-44.
2. **Kleinman KP**, Ibrahim JG, Laird NM. A Bayesian framework for intent-to-treat analysis with missing data. *Biometrics*. 1998;54(1):265-78.
3. **Kleinman KP**, Ibrahim JG. A semiparametric Bayesian approach to the random effects model. *Biometrics*. 1998;54(3):921-38.
4. **Kleinman KP**, Ibrahim JG. A semi-parametric Bayesian approach to generalized linear mixed models. *Stat Med*. 1998;17(22):2579-96.
5. McNaughton-Collins M, **Kleinman KP**, Barry MJ, Meigs JB, Yurgalevitch SY, MacKinlay JB. Prostate-specific antigen (PSA) levels: effect of sexual activity. *The Prostate Journal*. 1999;2:82-87.
6. **Kleinman KP**, MacKinlay JB. Prostate Cancer: How much do we know and how do we know it? *The Aging Male*. 2000;3:115-123.
7. **Kleinman KP**, Feldman HA, Johannes CB, Derby CA, McKinlay JB. A new surrogate variable for erectile dysfunction status in the Massachusetts male aging study. *J Clin Epidemiol*. 2000;53(1):71-8.
8. Johannes CB, Araujo AB, Feldman HA, Derby CA, **Kleinman KP**, McKinlay JB. Incidence of erectile dysfunction in men 40 to 69 years old: longitudinal results from the Massachusetts male aging study. *J Urol*. 2000;163(2):460-3.

Peer-reviewed publications (continued)

9. Feldman HA, Johannes CB, Derby CA, **Kleinman KP**, Mohr BA, Araujo AB, McKinlay JB. Erectile dysfunction and coronary risk factors: prospective results from the Massachusetts male aging study. *Prev Med.* 2000;30(4):328-38.
10. Aytac IA, Araujo AB, Johannes CB, **Kleinman KP**, McKinlay JB. Socioeconomic factors and incidence of erectile dysfunction: findings of the longitudinal Massachusetts Male Aging Study. *Soc Sci Med.* 2000;51(5):771-8.
11. Jobe JB, Smith DM, Ball K, Tennstedt SL, Marsiske M, Willis SL, Rebok GW, Morris JN, Helmers KF, Leveck MD, **Kleinman K**. Active. A cognitive intervention trial to promote independence in older adults. *Controlled Clinical Trials.* 2001;22:453-79.
12. Lazarus R, **Kleinman KP**, Dashevsky I, DeMaria A, Platt R. Using automated medical records for rapid identification of illness syndromes (syndromic surveillance): the example of lower respiratory infection. *BMC Public Health.* 2001;1(1):9.
13. **Kleinman K**. Adaptive double data entry: a probabilistic tool for choosing which forms to reenter. *Controlled Clinical Trials.* 2001;22(1):2-12.
14. Marceau L, **Kleinman K**, Goldstein I, McKinlay J. Does bicycling contribute to the risk of erectile dysfunction? Results from the Massachusetts Male Aging Study (MMAS). *Int J Impot Res.* 2001;13(5):298-302.
15. Lazarus R, **Kleinman K**, Dashevsky I, Adams C, Kludt P, DeMaria A, Platt R. Use of automated ambulatory-care encounter records for detection of acute illness clusters, including potential bioterrorism events. *Emerg Infect Dis.* 2002;8(8):753-60.
16. Lieu TA, Finkelstein JA, Adams MM, Miroshnik IL, Lett SM, Palfrey S, Freed GL, **Kleinman K**, Ray GT, Platt R. Pediatricians' views on financial barriers and values for pneumococcal vaccine for children. *Ambul Pediatr.* 2002;2(5):358-66.
17. Platt R, **Kleinman K**, Thompson K, Dokholyan RS, Livingston JM, Bergman A, Mason JH, Horan TC, Gaynes RP, Solomon SL, Sands KE. Using automated health plan data to assess infection risk from coronary artery bypass surgery. *Emerg Infect Dis.* 2002;8(12):1433-41.
18. Soto CM, **Kleinman KP**, Simon SR. Quality and correlates of medical record documentation in the ambulatory care setting. *BMC Health Serv Res.* 2002;2(1):22.
19. Pereira AG, **Kleinman KP**, Pearson SD. Leaving the practice: effects of primary care physician departure on patient care. *Arch Intern Med.* 2003;163(22):2733-6.
20. Friedman JF, Lee GM, **Kleinman KP**, Finkelstein JA. Acute care and antibiotic seeking for upper respiratory tract infections for children in day care: parental knowledge and day care center policies. *Arch Pediatr Adolesc Med.* 2003;157(4):369-74.
21. Platt R, Bocchino C, Caldwell B, Harmon R, **Kleinman K**, Lazarus R, Nelson AF, Nordin JD, Ritzwoller DP. Syndromic surveillance using minimum transfer of identifiable data: the example of the National Bioterrorism Syndromic Surveillance Demonstration Program. *J Urban Health.* 2003;80(S1):i25-31.
22. Oken E, **Kleinman KP**, Rich-Edwards J, Gillman MW. A nearly continuous measure of birth weight for gestational age using a United States national reference. *BMC Pediatr.* 2003;3(1):6.

Peer-reviewed publications (continued)

23. Oken E, **Kleinman KP**, Berland WE, Simon SR, Rich-Edwards JW, Gillman MW. Decline in fish consumption among pregnant women after a national mercury advisory. *Obstet Gynecol.* 2003;102(2):346-51.
24. Kuzujanakis M, **Kleinman K**, Rifas-Shiman S, Finkelstein JA. Correlates of parental antibiotic knowledge, demand, and reported use. *Ambul Pediatr.* 2003;3(4):203-10.
25. Finkelstein JA, Stille C, Nordin J, Davis R, Raebel MA, Roblin D, Go AS, Smith D, Johnson CC, **Kleinman K**, Chan KA, Platt R. Reduction in antibiotic use among US children, 1996-2000. *Pediatrics.* 2003;112(3 Pt 1):620-7.
26. Finkelstein JA, Huang SS, Daniel J, Rifas-Shiman SL, **Kleinman K**, Goldmann D, Pelton SI, DeMaria A, Platt R. Antibiotic-resistant *Streptococcus pneumoniae* in the heptavalent pneumococcal conjugate vaccine era: predictors of carriage in a multicomunity sample. *Pediatrics.* 2003;112(4):862-9.
27. Weinberg JM, **Kleinman KP**. Good study design and analysis plans as features of ethical research with humans. *IRB: Ethics and Human Research.* 2003;25(5):1-4.
28. Yih WK, Caldwell B, Harmon R, **Kleinman K**, Lazarus R, Nelson A, Nordin J, Rehm B, Richter B, Ritzwoller D, Sherwood E, Platt R. The National Bioterrorism Syndromic Surveillance Demonstration Program. *Morbidity and Mortality Weekly Report.* 2004;53(s):43-46.
29. Smink DS, Finkelstein JA, **Kleinman K**, Fishman SJ. The effect of hospital volume of pediatric appendectomies on the misdiagnosis of appendicitis in children. *Pediatrics.* 2004;113(1 Pt 1):18-23.
30. Huh SY, Rifas-Shiman SL, **Kleinman KP**, Rich-Edwards JW, Lipshultz SE, Gillman MW. Maternal protein intake is not associated with infant blood pressure. *Int J Epidemiol.* 2005 34(2):378-384.
31. Gillman MW, Rich-Edwards JW, Rifas-Shiman SL, Lieberman ES, **Kleinman KP**, Lipshultz SE. Maternal age and other predictors of newborn blood pressure. *J Pediatr.* 2004;144(2):240-245.
32. Prosser LA, Ray GT, O'Brien M, **Kleinman K**, Santoli J, Lieu TA. Preferences and willingness to pay for health States prevented by pneumococcal conjugate vaccine. *Pediatrics.* 2004;113(2):283-90.
33. **Kleinman K**, Lazarus R, Platt R. A generalized linear mixed models approach for detecting incident clusters of disease in small areas, with an application to biological terrorism. *Am J Epidemiol.* 2004;159(3):217-24.
34. **Kleinman K**, Lazarus R, Platt R. Kleinman et Al. Respond to "Surveilling Surveillance". *Am J Epidemiol.* 2004;159(3):228.
35. O'Brien MA, Uyeki TM, Shay DK, Thompson WW, **Kleinman K**, McAdam A, Yu XJ, Platt R, Lieu TA. Incidence of outpatient visits and hospitalizations related to influenza in infants and young children. *Pediatrics.* 2004;113(3 Pt 1):585-93.
36. Moore MM, Rifas-Shiman SL, Rich-Edwards JW, **Kleinman KP**, Camargo CA, Gold DR, Weiss ST, Gillman MW. Perinatal predictors of atopic dermatitis occurring in the first six months of life. *Pediatrics.* 2004;113(3 Pt 1):468-74.

Peer-reviewed publications (continued)

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1. Lawson AB, **Kleinman KP**. Spatial and Syndromic Surveillance for Public Health. London: Wiley; 2005. (**Editor**)
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Professional educational materials or reports, in print or other media

1. **Kleinman K.**, Horton NJ. SAS and R Blog. 2009-2017 (ongoing) (<http://sas-and-r.blogspot.com>)

A blog with application examples in these two key statistical software environments. The intended audience is professional data analysts, students, and faculty. Currently there are approximately 160 such examples. While it is hard to measure use, data from Blogger and Google Analytics suggest approximately 25,000 direct pageviews monthly. The blog is also republished (syndicated) in two significant streams and reaches many unfortunately uncountable viewers weekly via those routes. Data from Google Analytics records that in March 2017, 52% of visitors were in the US or Canada, 26% in Europe or Great Britain, 14% in Asia or the subcontinent, 3% in Oceania, 3% in Latin America and 2% in Africa.