

CURRICULUM VITAE

Andrea Jean Cook

Updated: October 8, 2015

1. BIOGRAPHICAL INFORMATION:

Andrea J. Cook, Ph.D.
Associate Investigator
Biostatistics Unit, Group Health Research Institute
1730 Minor Avenue, Suite 1600
Seattle, WA 98101-1448
Phone: (206)287-4257
Fax: (206)287-4710
Email: cook.aj@ghc.org
Affiliate Associate Professor
Dept. of Biostatistics, University of Washington

2. EDUCATION:

University of Washington, Seattle, WA

B.S. in Applied Computational Mathematical Sciences *Graduation:* June 2001
· Minor: Mathematics
· Cum Laude

Harvard University, Boston, MA

M.S. in Biostatistics *Graduation:* June 2003
Ph.D. in Biostatistics *Graduation:* June 2005
· Dissertation Topic:
Spatial Cluster Detection for discrete, survival, and longitudinal outcomes
· Advisor: Dr. Yi Li

3. LICENSURE:

Not applicable

4. PROFESSIONAL POSITIONS:

Exchange Research Assistant Karolinska Institute, Stockholm, Sweden	Jun 2003 to Aug 2003
Research Assistant Dept of Biostatistics, Harvard School of Public Health, Boston, MA	Sep 2003 to Jun 2005
Research Scientist III Department of Biostatistics, University of Washington, Seattle, WA	Jul 2005 to May 2006
Assistant Investigator Biostatistics Unit, Group Health Research Institute, Seattle, WA	May 2006 to Apr 2012
Affiliate Assistant Professor Department of Biostatistics, University of Washington, Seattle, WA	Jan 2007 to Jun 2013
Associate Investigator Biostatistics Unit, Group Health Research Institute, Seattle, WA	May 2012 to Present
Affiliate Associate Professor Department of Biostatistics, University of Washington, Seattle, WA	Jul 2013 to Present

5. HONORS, AWARDS, and SCHOLARSHIPS:

Deans List, Every quarter attended at Univ. of Wash., 1998-2001
Annual Deans List, Every year attended at Univ. of Wash., 1999-2001
VIGRE Grant Recipient, Univ. of Wash., 2000
Golden Key National Honor Society, 2000 and 2001
Cum Laude, Univ. of Wash., 2001
NIH Traineeship in Environmental Health, Harvard Univ., 2001-2003

Distinction in Teaching Award, Harvard Univ., 2002 and 2003
 ENAR Student Paper Award 2005
 JSM Environmental Student Paper Award runner-up 2005
 NIH Travel Award, ENAR Young Investigators Meeting, Washington DC, 2007
 Faculty Mentoring Award, GHRI 2013

6. OTHER PROFESSIONAL ACTIVITIES

National Committee Member:

Protocol Review Committee, Resuscitation Outcomes Consortium, 2006-2008.
 WNAR Representative at Large, 2010-2012.
 Conference Co-Organizer, Seattle Symposium on Health Care Data Analytics, 2014.

Referee for:

Biometrics
 Biostatistics
 Communication in Statistics
 Statistics in Medicine
 Critical Care
 International Journal of Health Geographics
 Journal of the National Cancer Institute (JNCI)
 Preventing Chronic Disease
 Vaccine

Memberships:

American Statistical Association (ASA)
 International Biometric Society WNAR
 International Biometric Society ENAR
 International Society for Clinical Biostatisticians (ISCB)
 Drug Information Association (DIA)

Conference Session Organizer:

WNAR 2010: Statistical Methods for Vaccine Safety
 MSPW 2010: Postmarketing drug surveillance
 Seattle Symposium Health Care Data Analytics 2014

Conference Session Chairs:

ENAR 2009 and 2010
 Seattle Symposium Health Care Data Analytics 2014

7. BIBLIOGRAPHY:

a) Peer-reviewed research articles

1. **Cook, A.J.**, Gold, D.R., and Li, Y. (2007) Spatial Cluster Detection for Censored Outcome Data. *Biometrics* 63(2): 540-549.
2. Brasel, K.J., Bulger, E., **Cook, A.J.**, Morrison, L.J. Newgard, C.D., Tisherman, S.A., Kerby, J.D., Coimbra, R., Hata, J.S., Hoyt, D.B. and the ROC Investigators. (2008) Hypertonic resuscitation: Design and implementation of a prehospital intervention trial. *J Am Coll Surg* 206(2): 220-232.
3. Rea, T.D., **Cook, A.J.**, and Hallstrom, A. (2008) CPR during ischemia and reperfusion: a model for survival benefits. *Resuscitation* 77(1): 6-9.
4. Green, B.B., Ralston, J.D., Fishman, P.A., Catz, S.L., **Cook, A.**, Carlson, J., Tyll, L., Carrell, D., and Thompson, R.S. (2008) Electronic Communications and Home Blood Pressure Monitoring (e-BP) study: Design, delivery, and evaluation framework. *Contemp Clin Trials* 29(3): 376-395.
5. Green B.B., **Cook, A.J.**, Ralston, J.D., Fishman, P.A., Catz, S.L., Carlson, J., Tyll, L., Carrell, D., Larson, E.B., and Thompson, R.S. (2008) Effectiveness of home blood pressure monitoring, Web communication, and pharmacist care on hypertension control: a randomized controlled trial. *JAMA* 299(24): 2857-2867.
6. Stiell, I.G., Callaway, C., Davis, D., Terndrup, T., Powell, J., **Cook, A.**, Kudenchuk, P.J., Daya, M., Kerber, R., Idris, A., Morrison, L.J., Aufderheide, T., and the ROC investigators. (2008) Resuscitation Outcomes Consortium (ROC) PRIMED Cardiac Arrest Trial Methods Part 2: Rationale and Methodology for "Analyze Later vs. Analyze Early" protocol. *Resuscitation* 28(2): 186-195.

7. Bulger, E.M., Schmidt, T.A., **Cook, A.J.**, Brasel, K.J., Griffiths, D.E., Kudenchuk, P., Davis, D., Bardarson, B., Idris, A.H., Aufderheide, T.P., and the ROC Investigators. (2009) The Random Digit Dialing Survey as a Tool for Community Consultation for Research involving the Emergency Medicine Exception from Informed Consent. *Ann Emerg Med* 53(3): 341-350.
8. Carney, P.A., Kettler, M., **Cook, A.J.**, Geller, B.M., Karliner, L., Miglioretti, D.L., Aiello Bowles, E., Buist, D.S., Gallagher, T., and Elmore, J.G. (2009) An assessment of the likelihood, frequency, and content of communication between radiologists and women receiving screening and diagnostic mammography. *Acad Radiol* 16(9):1056-1063.
9. **Cook, A.J.**, Gold, D.R., and Li, Yi. (2009) Spatial Cluster Detection for Repeatedly Measured Outcomes while Accounting for Residential History. *Biom J* 51(5):801-818.
10. Cherkin, D.C., Sherman, K.J., Kahn, J., Erro, J.H., Deyo, R.A., Haneuse, S.J., and **Cook, A.J.** (2009) Effectiveness of focused structural massage and relaxation massage for chronic low back pain: Protocol for a randomized clinical trial. *Trials* 10(1):96.
11. Gallagher T.H., **Cook, A.J.**, Brenner, J., Carney, P.A., Miglioretti, D.L., Geller, B., Kerlikowske, K., Onega, T., Rosenburg, R.D., Yankaskas, B., Lehman, C.D., and Elmore, J.G. (2009) Disclosing harmful mammography errors to patients. *Radiology* 253(2):443-452.
12. Rea, T.D., **Cook, A.J.**, Stiell, I.G., Powell, J., Bigham, B., Callaway, C.W., Aufderheide, T.P., Morrison, L., Terndrup, T.E., Beaudoin, T., Wittwer, L., Davis, D., Idris, A., Nichol, G. and Resuscitation Outcomes Consortium Investigators. (2010) Predicting Survival following Out-of-hospital Cardiac Arrest: Role of the Utstein Data Elements. *Ann Emerg Med* 55(3): 249-257.
13. Sherman, K.J., Cherkin, D.C., **Cook, A.J.**, Hawkes, R.J., Deyo, R.A., Wellman, R., and Khalsa, P.S. (2010) Comparison of yoga versus stretching for chronic low back pain: protocol for the Yoga Exercise Self-care (YES) trial. *Trials* 11(1): 36.
14. Sherman, K.J., Ludman, E.J., **Cook, A.J.**, Hawkes, R.J., Roy-Byrne, P.P., Bentley, S., Brooks, M.Z. and Cherkin, D.C. (2010) Effectiveness of therapeutic massage for generalized anxiety disorder: a randomized controlled trial. *Depress Anxiety* 27(5)441-450.
15. Grow, H.M., **Cook, A.J.**, Arterburn, D.E., Saelens, B.E., Drewnowski, A., and Lozano, P. (2010) Child Obesity associated with social disadvantage of children's neighborhoods. *Soc Sci Med* 71(3):584-591.
16. Kerlikowske, K., **Cook, A.J.**, Buist, D.S., Cummings, S.R., Vachon, C., Vacek, P., and Miglioretti, D.L. Breast Cancer Risk by Breast Density, Menopause, and Postmenopausal Hormone Therapy Use. (2010) *J Clin Oncol* 28(24):3830-3837.
17. **Cook, A.J.**, Li, Yi, Arterburn, D., and Tiwari, R.C. (2010) Spatial cluster detection for weighted outcomes using cumulative geographic residuals. *Biometrics* 66(3):783-792.
18. **Cook, A.J.**, Elmore, J.G., Miglioretti, D.L., Sickles, E.A., Aiello Bowles, E.J., Cutter, G.R., and Carney, P.A. (2010) Decreased accuracy in interpretation of community-based screening mammography for women with multiple clinical risk factors. *J Clin Epidemiol* 63(4): 441-451.
19. Li, L., Kulldorff, M., Nelson, J.C., and **Cook, A.J.** (2011) A propensity score-enhanced sequential analytic method for comparative drug safety surveillance *Stat in Bioscience* epub: doi:10.1007/s12561-011-9034-5.
20. Carney, P.A., Geller, B.M., Sickles, E.A., Miglioretti, D.L., Aiello Bowles, E.J., Abraham, L., Feig, S.A., Brown, D., **Cook, A.J.**, Yankaskas, B.C., and Elmore, J.G. (2011) Feasibility and Satisfaction Associated with Using a Tailored Web-based Intervention for Recalibrating Radiologists Thresholds for Conducting Additional Work-up. *Acad Radiol* 18(3):369-376.
21. Green, B.B., Anderson, M.L., Ralston, J.D., Catz, S., Fishman, P.A., and **Cook, A.J.** (2011) Patient Ability and Willingness to Participate in a Web-Based Intervention to Improve Hypertension Control. *J Med Internet Res* 13(1):e1.
22. Carney, P.A., Aiello Bowles, E.J., Sickles, E.A., Miglioretti, D.L., Geller, B.M., Feig, S.A., Jackson, S., Brown, D., **Cook, A.**, Yankaskas, B.C., Miglioretti, D.L., and Elmore, J.G. (2011) Using a Tailored Web-based Intervention to Set Goals to Reduce Unnecessary Recall. *Acad Radiol* 18(4):495-503.
23. Moudon, A.V., **Cook, A.J.**, Ulmer, J., Hurvitz, P.M., Drewnowski, A. (2011) A neighborhood wealth metric for use in health studies. *Am J Prev Med* 41(1):88-97.

24. Cherkin, D.C., Sherman, K.J., Kahn, J., Wellman, R., **Cook, A.J.**, Johnson, E., Erro, J., Delaney, K., and Deyo, R.A. (2011) A Comparison of the Effects of Two Types of Massage and Usual Care on Chronic Back Pain: A Randomized, Controlled Trial. *Ann Intern Med* 155(1):1-9.
25. Onega, T., **Cook, A.**, Kirilin, B., Shi, X., Alford-Teaster, J., Tuzzio, L., and Buist, D.S. (2011) The Influence of Travel Time on Breast Cancer Characteristics, Receipt of Primary Therapy, and Surveillance Mammography. *Breast Cancer Res Treat* 129(1):269-275.
26. Aggarwal, A., Monsivais, P., **Cook, A.J.**, and Drewnowski, A. (2011) Does Diet Cost Mediate the Relation Between Socioeconomic Position and Diet Quality? *Eur J of Clin Nutr* 65:1059-1066.
27. Fishman, P.A., Anderson, M., **Cook, A.J.**, Larson, E.B., Ralston, J.D., Catz, S.L., Carlson, J., and Green, B.B. (2011) Accuracy of blood pressure measurements reported in an electronic medical record during routine primary care visits. *J Clin Hypertens* 13(11):821-828.
28. Sherman, K.J., Cherkin, D.C., Wellman, R.D., **Cook, A.J.**, Hawkes, R.J., Delaney, K., and Deyo, R.A. (2011) A Randomized Trial Comparing Yoga, Stretching, and a Self-care Book for Chronic Low Back Pain *Arch Intern Med* 171(22):2019-2026.
29. **Cook, A.J.**, Wellman, R.D., Tiwari, R.C., Li, L., Heckbert, S., Marsh, T., Heagerty, P., and Nelson, J.C. (2012) Statistical approaches to group sequential monitoring of postmarket safety surveillance data: Current state of the art for use in the mini-sentinel pilot. *Pharmacoepidemiol Drug Saf* 21 Suppl:72-81.
30. Nelson, J.C., **Cook, A.J.**, Yu, O., Dominguez, C., Zhao, S., Greene, S.K., Fireman, B.H., Jacobsen, S.J., Weintraub, E.S., and Jackson, L.A. (2012) Challenges in the design and analysis of sequentially monitored postmarket safety surveillance evaluations using electronic observational health care data. *Pharmacoepidemiol Drug Saf* 21 Suppl: 62-71.
31. Carney, P.A., **Cook, A.J.**, Miglioretti, D.L. Feig, S.A., Bowles, E.A., Geller, B.M., Kerlikowske, K., Kettler, M., Onega, T., and Elmore, J.G. (2012) Use of Clinical History in the Interpretation of Screening Mammography in Community-Based Settings, *J Clin Epidemiol* 65(2):219-230.
32. Jackson, S.L., **Cook, A.J.**, Miglioretti, D.L., Carney, P.A., Geller, B.M., Onega, T., Rosenberg, R.D., Brenner, R.J., and Elmore, J.G. (2012) Are radiologists' goals for mammography accuracy consistent with published recommendations? *Acad Radiol* 19(3):289-295
33. Green, B.B., Anderson, M.L., **Cook, A.J.**, Catz, S., Fishman, P.A., McClure, J.B., and Reid, R. (2012) Using body mass index data in the electronic health record to calculate cardiovascular risk. *Am J Prev Med* 42(4):342-347.
34. Carney, P.A., Abraham, L., **Cook, A.**, Feig, S.A., Sickles, E.A., Miglioretti, D.L., Geller, B.M., Yankaskas, B.C., and Elmore, J.G. (2012) Impact of an Educational Intervention Designed to Reduce Unnecessary Recall During Screening Mammography, *Acad Radiol* 19: 1114-1120.
35. **Cook, A.J.**, Elmore, J.G., Zhu, W., Jackson, S.L., Carney, P.A., Flowers, C., Onega, T., Geller, B., Rosenberg, R.D., and Miglioretti, D.L. (2012) Mammographic interpretation: Radiologists' ability to accurately estimate their performance and compare it with that of their peers. *Am J Roentgenol* 199(3): 695-702.
36. Sherman, K.J., **Cook, A.J.**, Kahn, J.R., Hawkes, R.J., Wellman, R.D., and Cherkin, D.C. (2012) Dosing study of massage for chronic neck pain: protocol for the Dose Response Evaluation and Analysis of Massage [DREAM] trial. *BMC Complement Altern Med* 12(1):158.
37. Zhao, S.*, **Cook, A.**, Jackson, L., and Nelson, J. (2012) Statistical performance of group sequential methods for post-licensure medical product safety surveillance: a simulation study. *Stat Interface* 5:381-390.
38. **Cook, A.J.**, Gold, D.R., and Li, Y. (2013) Spatial Cluster Detection for Longitudinal Outcomes using Administrative Regions. *Commun Stat Theory Methods* 42(12):2105-2117.
39. Nelson, J.C., Yu, O., Dominguez-Islas, C.P., **Cook, A.J.**, Peterson, D., Greene, S.K., Yih, W.K., Daley, M.F., Jacobsen, S.J., Klein, N.P., Weintraub, E.S., Broder, K.R., and Jackson, L.A. (2013) Adapting group sequential methods to observational post-licensure safety surveillance: Results of a pentavalent combination DTaP-IPV-Hib vaccine safety study. *Am J Epidemiol* 177(2):131-141.

40. Sherman, K.J., Wellman, R.D., **Cook, A.J.**, Cherkin, D.C., and Ceballos, R.M. (2013) Mediators of yoga and stretching for chronic low back pain. *Evid Based Complement Alternat Med* 2013:130818.
 41. Green, B.B., Anderson, M.L., Ralston, J.D., Catz, S.L., and **Cook, A.J.**. (2013) Blood pressure 1 year after completion of web-based pharmacist care. *JAMA Internal Medicine* 173(13):1250-1252.
 42. Fishman, P.A., **Cook, A.J.**, Anderson, M.L., Ralston, J.D., Catz, S.L., Carrell, D., Carlson, J., and Green, B.B. (2013) Improving BP control through electronic communications: an economic evaluation. *AJMC* 19(9):709:716.
 43. Aggarwal, A., Monsivais, P., **Cook, A.J.**, and Drewnowski, A. (2014) Positive attitude towards healthy eating predicts higher diet quality at all cost levels of supermarkets *J Acad Nutr Diet* 114(2):266-272.
 44. Ralston, J.D., **Cook, A.J.**, Anderson, M.L., Catz, S.L., Fishman, P.A., Carlson, J., Johnson, R., and Green, B.B. (2014) Home blood pressure monitoring, secure electronic messaging and medication intensification for improving hypertension control: A Mediation Analysis. *Applied Clinical Informatics* 5(1):232-248.
 45. Sherman, K.J., **Cook, A.J.**, Wellman, R.D., Hawkes, R.,J., Kahn, J.R., Deyo, R.A., and Cherkin, D.C. (2014) Five-Week Outcomes from a Dosing Trial of Therapeutic Massage for Chronic Neck Pain *Ann Fam Med* 12(2):112-120.
 46. Green, B.B., Anderson, M.L., **Cook, A.J.**, Catz, S, Fishman, P.A. McClure, J.B. and Reid, R.J. (2014) e-Care for Heart Wellness: A Feasibility Trial to Decrease Blood Pressure and Cardiovascular Risk. *AM J Prev Med* 46(4):368-377.
 47. Aggarwal, A., **Cook, A.J.**, Jiao, J., Sequin, R.A., Vernez Moudon, A., Hurvitz, P.M. and Drewnowski, A. (2014) Access to supermarkets and fruit and vegetable consumption. *Am J Public Health* 104(5):917-923.
 48. Cherkin, D.C., Sherman, K.J., Balderson, B.H., Turner, J.A., **Cook, A.J.**, Stoelb, B., Herman, P.M., Deyo, R.A., and Hawkes, R.J. (2014) Comparison of complementary and alternative medicine with conventional mind-body therapies for chronic back pain: protocol for the Mind-body Approaches to Pain (MAP) randomized controlled trial. *Trials* 15:211.
 49. Huang, R., Moudon, A.V., **Cook, A.J.**, and Drewnowski, A. (2014) The spatial clustering of obesity: does the built environment matter? *J Hum Nutr Diet* epub: doi:10.1111/jhn.12279
 50. **Cook, A.J.**, Wellman, R.D., Nelson, J.C., Jackson, L.A., and Tiwari, R.C. (2015) Group sequential method for observational data using generalized estimating equations: Application Vaccine Safety Datalink (VSD). *JRSS-C* 64(2):319-338.
 51. Rosenberg, D., **Cook, A.**, Gell, N., Lozano, P., Grothaus, L., and Arterburn, D. (2015) Relationships between sitting time and health indicators, costs, and utilization in older adults. *Preventive Medicine Reports* 2: 247-249.
 52. Stratton, K.G.*, **Cook, A.J.**, Jackson, L.A., and Nelson, J.C. (2015) Simulation study comparing exposure matching with regression adjustment in an observational safety setting with group sequential monitoring. *Stat Med* 34(7): 1117-33.
 53. Nelson, J.C., **Cook, A.J.**, Yu, O., Zhao, S., Jackson, L.A., and Psaty, B.M. (2015) Methods for observational post-licensure medical product safety surveillance. *Stat Methods Med Res* 24(2): 177-193.
 54. **Cook, A.J.**, Wellman, R.D., Cherkin, D.C., Kahn, J.R., and Sherman, K.J. (2015) Randomized clinical trial assessing if additional massage treatments for chronic neck pain improve 12 and 26 week outcomes. *Spine J* 15: 2206-2215.
- * indicates student supervised by Cook

b) Other Peer-reviewed Scholarly Publications:

1. **Cook, A.J.** and Li, Y. (2008) Rejoinder to: Spatial Cluster Detection for Censored Outcome Data, *Biometrics* 64(4): 1289-1292.

c) Books and book chapters:

Not applicable

d) Other Non-peer-reviewed scholarly publications:

1. **Cook, A.J.**, Wellman, R.D., Tiwari, R.C., Li, L., Heckbert, S., Marsh, T., Heagerty, P., and Nelson, J.C. (2011) Mini-Sentinel Methods Development: Statistical approaches for group sequential monitoring of postmarketing safety surveillance data: Overview and simulation evaluation of methods applicable to the Mini-Sentinel surveillance project, *FDA's Sentinel Initiative: Project Report*.
2. **Cook, A.J.**, Wellman, R.D., Marsh, T., Tiwari, R.C., Nguyen, M.D., Russek-Cohen, E., Jiang, Z., and Nelson, J.C. (2012) Mini-Sentinel Methods Development: Statistical Methods for Estimating Causal Risk Differences in the Distributed Data Setting for Postmarket Safety Outcomes, *FDA's Sentinel Initiative: Project Report*.
3. **Cook, A.J.**, Wellman, R.D., Shoaibi, A., Tiwari, R.C., Boudreau, D., Goonesekera, S., Marsh, T.L., and Nelson, J.C. (2013) Mini-Sentinel Methods Development: Feasibility of New Mini-Sentinel Group Sequential Monitoring Methods in a Distributed Setting - Implementation in Practice, *FDA's Sentinel Initiative: Project Report*.
4. Xu, S., Shetterly, S., **Cook, A.J.**, Raebel, M.A., Goonesekera, S., Shoaibi, A., Frimpong, E. Roy, J., Fireman, B., and McEvoy, B. (2014) Mini-Sentinel Methods Development: Statistical Methods for Improving Confounder Adjustment for Emergent Treatment Comparison, *FDA's Sentinel Initiative: Project Report*.
5. **Cook, A.J.**, Wellman, R.D., Shoaibi, A., Tiwari, R.C., Boudreau, D., Goonesekera, S., Marsh, T.L., and Nelson, J.C. (2015) Mini-Sentinel Methods Development: Safety Signaling Methods for Survival Outcomes to Control for Confounding in the MSDD, *FDA's Sentinel Initiative: Project Report* .

e) Submitted Manuscripts:

1. Xu, S., Shetterly, S., **Cook, A.J.**, Raebel, M.A., Goonesekera, S., Shoaibi, A., Roy, J., Fireman, B. Comparison of confounder adjustment methods for the safety of emerging treatment with group sequential monitoring.
2. Wellman, R.D., **Cook, A.J.**, Cherkin, D.C., and Sherman, K.J. What is the Optimal Dose of Therapeutic Massage for Chronic Neck Pain?.
3. Drewnowski, A., Aggarwal, A., **Cook, A.**, Stewart, O., and Moudon, A.V. Gaps in federal measure of diet quality by geographic location: Seattle Obesity Study (SOS).
4. Nelson, J.C., Wellman, R., Yu, O., **Cook, A.J.**, Maro, J., Oullet-Hellstrom, R., Boudreau, D., Floyd, J., Heckbert, S., Pinheiro, S., Reichman, M., and Shoaibi, A. A synthesis of current surveillance planning methods for the sequential monitoring of drug and vaccine adverse effects using electronic health care data.
5. Cherkin, D.C., Sherman, K.J., Balderson, B.H., **Cook, A.J.**, Anderson, M.L., Hawkes, R.J., Hansen, K.E., and Turner, J.A. Mindfulness-Based Stress Reduction, Cognitive-Behavioral Therapy, and Usual Care for Chronic Low Back Pain: A Randomized Controlled Trial.

8. PATENTS AND OTHER INTELLECTUAL PROPERTY:

Not Applicable

9. FUNDING HISTORY:**a) Funded Projects**

1. Resuscitation Outcomes Consortium (ROC) Data Coordinating Center (5U01HL077863-04), PI: Emerson, NHLBI, Co-Investigator, 0.20 - 1.00 FTE, 07/01/2005-04/30/2009.
2. Understanding Variability in Community Mammography (5R01CA107623-06), PI: Elmore, NCI, Co-Investigator, 0.10 - 0.20 FTE, 05/01/2006-04/30/2010.
3. Electronic Communications and Home B.P. Monitoring (5R01HL075263-04), PI: Green, NHLBI, Co-Investigator, 0.20 FTE, 05/1/2006-05/31/2008.

4. Effect of Massage on Chronic Low Back Pain (5R01AT001927-04), PI: Cherkin, NCCAM, Co-Investigator, 0.10 - 0.15 FTE, 09/30/2005-08/31/2010.
5. A Partly Conditional Survival Approach for Modeling the Time-Varying Association Between Breast Density and Breast Cancer Risk (263-MQ-612311), PI: Miglioretti, NCI, Co-Investigator, 0.20 FTE, 09/20/2006-09/19/2007.
6. Therapeutic Massage for Generalized Anxiety Disorder (5R21AT002560-03), PI: Sherman, NCCAM, Co-Investigator, 0.05 FTE, 09/30/2006-08/31/2009.
7. Effect of Yoga Versus Stretching on Chronic Back Pain (5U01AT003208-03), PI: Sherman, NCCAM, Co-Investigator, 0.05-0.20 FTE, 09/30/2006-08/31/2010.
8. Food Environment, Diet Quality, and Disparities in Obesity (1R01DK076608-01A1), PI: Drewnowski, NIDDK, Co-Investigator, 0.20 FTE, 03/01/2008-02/28/2010.
9. Development of a Versatile Geospatial Database within the CRN - CRN Pilot: Cancer Research Network Across Health Care Systems (5U19CA079689-10), PI: Wagner, NCI, Project Principal Investigator, 0.10 FTE, 05/01/2008-04/30/2009.
10. Review of Statistical Methods for Post-Marketing Medical Product Safety (HHSF223200S31324P), PI: Nelson, FDA, Co-Investigator, 0.10 FTE, 09/19/2008-03/18/2009.
11. Training doctors to disclose unanticipated outcomes to patients: Randomized Trial (R01HS16506-01), PI: Gallagher, AHRQ, Co-Investigator, 0.05-0.15 FTE, 09/30/2008-09/29/2013.
12. Prospective Drug Safety Surveillance using Sequential Analytic Methods: Two Approaches for Confounding Adjustment (LI09OMOP1), PI: Li, Foundation for NIH, Site PI, 0.20 FTE, 09/01/2009-08/31/2010.
13. Dosing Study of Massage for Neck Pain (1R01AT004411-01A2), PI: Sherman, NCCAM, Co-Investigator, 0.10-0.30 FTE, 6/1/2009-2/28/2013.
14. e-COMPARE: Comparing Pharmacist and Health Educator Web-based Care for Metabolic Syndrome (1RC1HL100590-01), PI: Green, NHLBI, Co-Investigator, 0.05 FTE, 09/30/2009-07/31/2011.
15. Long-Term Outcomes and Costs of Web-Based Hypertension Care (2R01HL075263-05), PI: Green, NHLBI, Co-Investigator, 0.05 FTE, 12/01/2009-11/30/2013.
16. Efforts to Develop the Sentinel Initiative: Sequential Testing Methods Development, PI: Platt, FDA (Mini-Sentinel Task Order), Task Order PI, 0.30 FTE, 02/01/2010-02/28/2011.
17. Food Environment, Diet Quality, and Disparities in Obesity II (R210086001), PI: Drewnowski, NIDDK, Co-Investigator, 0.10-0.30 FTE, 04/15/2011-02/29/2016.
18. Enhancing current sequential analytic techniques to improve causal inference, PI: Platt, FDA (Mini-Sentinel Task Order), Task Order PI, 0.30 FTE, 03/01/2011-01/31/2012.
19. Comparison of CAM and Conventional Mind-Body Therapies for Chronic Back Pain (R01AT006226), PI: Cherkin, NCCAM, Co-Investigator, 0.05-0.15 FTE, 08/01/2011-05/31/2015.
20. New Sequential Methods in the Distributed Data Setting, PI: Platt, FDA (Mini-Sentinel Task Order), Task Order PI, 0.30 FTE, 06/01/2012-05/31/2013.
21. Health Care Systems Research Collaboratory - Coordinating Center, PI: Califf, NCCAM, Co-Investigator, 0.15 FTE, 09/30/2012-08/31/2017.
22. FDA Sentinel Emergent Treatment Task Order, PI: Platt, FDA (Mini-Sentinel Task Order), Co-Investigator, 0.10 FTE, 09/01/2012-12/31/2013.
23. MATCH, PI: Cherkin, PCORI, Co-Investigator, 0.05 FTE, 12/2012-11/2016.
24. Safety Signaling Methods for Survival Outcomes to Control for Confounding, PI: Platt, FDA (Mini-Sentinel Task Order), Task Order PI, 0.30 FTE, 09/01/2013-01/31/2015.
25. Comparison of safety signaling methods for survival outcomes to control for confounding in the MSDD, PI: Platt, FDA (Mini-Sentinel Task Order), Task Order PI, 0.30 FTE, 05/01/2015-11/31/2016.

b) Pending Applications

1. Methods for Causal Inference in a Distributed Data Network, PI: Cook, PCORI, Principle Investigator, 0.30 FTE, 12/1/2015-11/30/2018.

10. CONFERENCES and SYMPOSIUMS:

1. “Detecting Spatial Clustering in Matched Case-Control Studies”, Harvard Environmental Statistics Symposium, Sheffield, MA (Nov. 2004)
2. * “Detecting Spatial Clustering for Binary and Failure Time Outcomes”, Group Health Research Institute Seminar, Seattle, WA (Feb. 2005)
3. * “Detecting Spatial Clustering for Binary and Failure Time Outcomes”, University of Washington, Department of Biostatistics Seminar, Seattle, WA (Feb. 2005)
4. * “Detecting Spatial Clustering for Binary and Failure Time Outcomes”, Oregon State University, Department of Public Health Seminar, Corvallis, OR (Mar. 2005)
5. “Detecting Spatial Clustering in Matched Case-Control Studies”, ENAR Student Awards Session, Austin, TX (March 2005)
6. “Detecting Spatial Clustering for Matched Case-Control Studies”, JSM Environmental Student Awards Session, Minneapolis, MN (Aug. 2005)
7. * “Spatial Cluster Detection for Repeated Measures Outcomes”, University of Washington, Department of Biostatistics Seminar, Seattle, WA (Nov. 2006)
8. “Spatial Cluster Detection for Repeated Measures Outcomes”, JSM, Salt Lake City, UT (Aug. 2007)
9. “Spatial Cluster Detection for Repeated Measures Outcomes”, ENAR, Crystal City, VA (Mar. 2008)
10. “Spatial Cluster Detection for Weighted Outcomes using Cumulative Geographic Residuals”, ENAR, San Antonio, TX (Mar. 2009)
11. * “Spatial Cluster detection for Censored Outcomes”, International Conference on Financial Statistics and Financial Econometrics - Nonparametric Modeling and Its Application, Session: Censored Data Analysis with High Dimensional Covariates, Chengdu, China (Jul. 2009)
12. “Methods for Post-marketing vaccine safety surveillance: The Vaccine Datalink experience”, Group Health Research Institute Seminar, Seattle, WA (Oct. 2008)
13. * “Incorporating confounder adjustment into methods for monitoring post-licensure vaccine safety”, Pediatric Academic Society Meeting, Session: Statistical Advances for the Evaluation of Childhood Vaccines, Baltimore, MD (May 2009)
14. “Group Sequential Methods for Observational data Incorporating Confounding through Estimating Equations with application in Post-Marketing Vaccine/Drug Surveillance”, University of Washington, Department of Biostatistics Seminar, Seattle, WA (Mar. 2010)
15. “Group Sequential Methods for Observational data Incorporating Confounding through Estimating Equations with application in Post-Marketing Vaccine/Drug Surveillance”, ENAR, New Orleans, LA (Mar. 2010)
16. * “Group Sequential Methods for Observational data Incorporating Confounding through Estimating Equations with application in Post-Marketing Vaccine/Drug Surveillance”, MSPW, Session: Post-marketing drug safety, Ball State University, Muncie, IN (May 2010)
17. * “Group Sequential Methods for Observational data Incorporating Confounding through Estimating Equations with application in Post-Marketing Vaccine/Drug Surveillance”, WNAR, Session: Statistical Methods for Vaccine Safety, Seattle, WA (Jun. 2010)
18. * “Sequential Monitoring Task Order: Group Sequential Methods for Observational data Incorporating Confounding through Estimating Equations”, FDA Mini-sentinel webinar (Jun. 2010)
19. “Comparison of statistical approaches for Group Sequential Monitoring: simulation results and recommendations”, VSD Annual Meeting, Portland, OR (Apr. 2011)
20. * “Comparison of statistical approaches for Group Sequential Monitoring: simulation results and recommendations”, FDA Mini-Sentinel Webinar (May 2011)
21. “Challenges in Conducting Sequentially Monitored Medical Product Safety Studies Using Electronic Health Care Utilization Data”, ISPE, Chicago, IL (Aug. 2011)

22. *"Group Sequential Methods for Observational data Incorporating Confounding through Estimating Equations with application in Post-Marketing Vaccine/Drug Surveillance", ISCB, Ottawa, ON, Canada (Aug. 2011)
23. "Group Sequential Methods: Phase II", VSD Annual Meeting, Denver, CO (Mar. 2012)
24. *"Summary of Mini-Sentinel PRISM task order for Estimating Risk Differences in the Distributed Data Setting for Postmarket Safety Outcomes", FDA Mini-Sentinel Webinar (May 2012)
25. *"Method for Estimating Risk Differences in the Distributed Data Setting for Postmarket Safety Outcomes", FDA Mini-Sentinel Annual Meeting (Feb 2013)
26. *"Methodological Challenges for Sequential Medical Product Safety Surveillance using Observational Healthcare Data", ENAR, Baltimore, MD (Mar 2014)
27. *"New Sequential Methods in a Distributed Data Setting applied to Mini-Sentinel Data", FDA Mini-Sentinel Webinar (Apr 2014)
28. *"Adapting Sequential Methods for Active Medical Product Safety Surveillance in a Distributed Health Care Database Setting", Seattle Symposium on Health Care Data Analytics, Seattle, WA (Sep. 2014)
29. *"Methods for using EHR data to conduct Active Safety Surveillance Studies of New Medical Products", Duke Clinical Research Institute Seminar Series, Durham, NC (Oct. 2014)
30. "Comparison of Different Sequential Methods Using the MMRV Example", VSD Annual Meeting, Atlanta, GA (Nov. 2014)
31. *"Safety Signaling Methods for Survival Outcomes to Control for Confounding", FDA Mini-Sentinel Webinar (Feb 2015)
32. "Potential Efficiency of Cluster Randomization with Crossover", WNAR, Flagstaff, AZ (June 2006)
33. *"Statistical issues in designing unblinded randomized controlled studies for non-pharmaceutical therapy focusing on massage and yoga interventions for neck and back pain", JSM, Miami, FL (Aug. 2011)
34. "Web-based Team Care to Improve Hypertension Control the e-BP* study and BEYOND: Long-term Results", GHRI Seminar Series, Seattle, WA (Oct. 2013)
35. *"Improving Pragmatic Clinical Trials: Lessons Learned from the NIH Collaboratory Biostatistics Core", University of Penn 8th Annual Conference on Statistical Issues in Clinical Trials, Philadelphia, PA (Apr. 2015)
36. "Improving Pragmatic Clinical Trials: Lessons Learned from the NIH Collaboratory Biostatistics Core", NIH Collaboratory Grand Rounds Webinar (Jun. 2015)
37. *"The role of health care data analytics in health policy decision-making", JSM Speaker Lunch Session, Seattle, WA (Aug. 2015)

Like presentations grouped; * indicates invited presentation

11. PROFESSIONALLY-RELATED COMMUNITY SERVICE:

Science Club for Girls, Cambridge MA, Spring 2004, Mentor-Scientist for K-1st Graders.

12. TEACHING HISTORY:

Teaching Assistant

Sept. 2001 to Dec. 2004

Dept. of Biostatistics, Harvard University

Courses:

- Spatial Statistics (R and ArcGIS), Fall 2004
- Applied Longitudinal Analysis (SAS), Fall 2003 and 2004
- Regression and ANOVA (STATA), Spring 2003 and 2004
- Basics in Statistical Inference, Fall 2001 and 2002

Guest Lecturer

Nov. 2007

Dept. of Health Services, University of Washington

Course:

- Advanced Health Services Research Methods I

13. ADVISING and FORMAL MENTORING:

- a) PhD Dissertation, chair
 - Xu Shi, Dept. of Biostatistics, Univ. of Washington, Exp Grad.: Jun 2017.
- b) Masters Theses, chair
 - Kelly Stratton, Dept. of Biostatistics, Univ. of Washington, Grad.: Aug 2012.
- c) Mentored Scientists and Postdocs
 - H. Molly Grow MD, Fellow, Seattle Childrens Hospital, Fall 2006 to Fall 2008
 - Anju Aggarwal PhD, Research Associate, Dept. of Nutrition, Univ of Washington, Fall 2007 to Summer 2010
 - Rebecca Seguin PhD, Postdoc, Women's Health post-doctoral fellow, Fall 2009 to Spring 2011
 - Rebecca Seguin PhD, K01 Award Recipient, Advisory board member, Fall 2012 to Present
 - Dori Rosenberg PhD, K01 Award Recipient, Mentorship committee member, Fall 2014 to Present
- d) MS and PhD Committees in non-chair roles:
 - PhD Committee:
 - Colleen Sitlani, Dept. of Biostatistics, Univ. of Washington, Grad.: June 2011.
- e) Other Mentoring
 - Research Assistants
 - Paramita Saha, Fall 2005 to Spring 2006
 - Colleen Sitlani, Fall 2006 to Fall 2007
 - Siobhan Everson-Stewart, Fall 2006 to Spring 2008
 - Shanshan Zhao, Fall 2007 to Fall 2009
 - Kelly Stratton, Fall 2010 to Summer 2012
 - Xu Shi, Spring 2015 to Present
 - Biostatistician Supervisor
 - Melissa Anderson MS, Jan. 2009 Oct. 2014
 - Robert Wellman MS, Oct. 2009 to Present
 - Onchee Yu MS, Oct. 2014 to Present
- f) Academic Advising

14. OTHER PERTINENT INFORMATION AS NEEDED:

Not Applicable