

CURRICULUM VITAE

A. Personal Information

Name	William Eric Barlow, PhD
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B. Education

Undergraduate	Western Washington University BA, Psychology, 1974
Graduate	University of Toronto MA, Psychology, 1976 University of Washington MS, Biostatistics, 1982 PhD, Biostatistics, 1986 (Dissertation advisor: Ross Prentice, PhD)
Honors and Awards	Outstanding Teaching Award School of Public Health 1996 School of Public Health Training Grant, 1980-1981 Cardiovascular Training Grant, 1981-1982, 1984-1986

C. Professional Background

Current Position

Senior Biostatistician
Cancer Research and Biostatistics
Seattle, WA
February 2003- present

Scientific Investigator
Center for Health Studies, Group Health Cooperative
Seattle, WA
June 1989 - present (6/89-6/92 Assistant; 7/92-6/99 Associate)

Research Professor
Dept. of Biostatistics
University of Washington
Seattle, WA
October 1989 – present (10/89-6/92 Affiliate Assistant Prof;
7/92-6/93 Affiliate Associate Prof; 7/93-6/99 Research Associate Prof)

Past Positions (in reverse chronological order)

Adjunct Research Associate Professor and Director of the Biometry Module
Dept. of Ophthalmology
University of Washington
1990-98

Visiting Professor, Biostatistics Dept
Limburgs University, Diepenbeek Belgium
March 1995 - June 1995

Assistant Professor and Co-Director of the Biometry Program,
Division of Biometry, Preventive Medicine,
University of Southern California, Los Angeles CA
March 1986 - May 1989

Director, Biometry Module, Doheny Eye Institute
Los Angeles, CA
May 1988 - May 1989

Research Fellow
Department of Epidemiology and Statistics
Radiation Effects Research Foundation, Hiroshima, Japan,
October 1982 - May 1984

Instructor of Psychology
University of Toronto, Scarborough College,
1977-79; 1975-76

D. University Activities

Teaching Experience

Biostatistics Dept., Limburgs University, Belgium

Survival Analysis (95)

Biostatistics Dept., University of Washington

Biost 521: Experimental Design (91, 05)

Biost 512: Medical Biometry II (93, 94, 95, 00, 01, 02, 04)

Biost 536: Categorical Data Analysis for Epidemiologists (95, 97, 98, 01, 07)

Biost 537: Survival Analysis for Epidemiologists (98, 03, 06)

Division of Biometry, University of Southern California

Advanced Statistical Computing (86), Student Consulting (86),

Clinical Trials Design (87), and Experimental Design (88, 89)

Psychology Dept., University of Toronto

Taught introductory statistics and conducted laboratories, 75-79

Research Supervision

Biostatistics Department, University of Washington

Chairman, MS Theses (completed):

L. Ichikawa, Random effects and generalized estimating equations approaches to growth curve analysis, March 95

C. Chin, An evaluation of mammography participation and a randomized intervention to improve utilization, Dec 97

J. Guo, Medical care costs of metastatic breast cancer and costs in the last year of life, August 98

C. Yoshida, An alternative to Cook's distance for measuring overall influence in the linear model, August 00

C. Chi, Factors explaining radiologist variability in mammography performance – Nov 2003

Committee member, PhD (completed):

R. Jones (Biostat), M. Kulich (Biostat), C. Chen (Epidemiology), C. Dionne (Epidem), E. Jacobs (Epidem), J Simpson (Epidem), D Buist (Epidem), E O'Meara (Epidem), J. Weiss (Epidem), M. Jackson (Epidem)

Division of Biometry, University of Southern California

Chairman, MS Theses:

C. Hackett, Randomization Tests for Repeated Measures Analyses, 1989

M.Y. Lai, A Comparison of Vitrectomized to Non-Vitrectomized Proliferative Vitreoretinopathy Patients and Comparison of Methods for Calculating a Stratified Kappa Statistic, 1989

S.P. Fanchiang, Assessing Goodness-of-Fit in the Cox Model by Residual Analysis, 1988

W.H. Sun, Bootstrapped Confidence Intervals for the Linear Relative Risk Cox Model, 1987

Co-Chairman, PhD Dissertation (with Stanley Azen, PhD):

D. Bradley, Estimating Relative Risks with Cubic Smoothing Splines, 1989

E. Society Memberships:

American Statistical Association

Biometric Society (Western North American Region)

F. Research Activities:

Listing of Past Grants:

Statistical Coordinating Center for the Breast Cancer Surveillance Consortium
National Cancer Institute
PI: William Barlow, PhD

Case-Cohort Study of Mammography and Breast Cancer
National Cancer Institute
PI: William Barlow, PhD

Risk of Future Breast Cancer among Biopsied Women
National Cancer Institute
PI: William Barlow, PhD

Major Areas of Research Interest

Case-cohort analysis
Exact tests for agreement
Screening evaluation
Costs of disease

G. Service Activities:**G.1. Group Health:**

Group Health Cooperative Human Subjects Review Board (1991-2000)
 Group Health Committee on Evaluation of Medical Technology (1992-1996)
 Center for Health Studies Biostatistician Search (Chair, 1994-95)

G.2. Univ. Of Washington:

Dept. of Biostatistics Faculty Search Committee (1989-1992, 2002-2005)
 Dept. of Biostatistics First Year Theory Exam Committee (1994, 2003)
 Dept. of Biostatistics Admissions Committee (1996-1998, 2006)
 Dept. of Biostatistics EPTEC (Teaching) Committee (1998-2002, 2006)
 Dept. of Biostatistics Student Award Committee (1998-2002)
 Dept. of Biostatistics Dr. Benedetti's Promotion Committee - Chair (2002)

G.3. National:

Member, Institute of Medicine Committee to Review the Safety and Efficacy of the Anthrax Vaccine, (2000-2002)
 Chair, Data Safety and Monitoring Committee, Pediatric Ophthalmology Trials, National Eye Institute sponsored clinical trials (1997-2005)
 Chair, Data Safety and Monitoring Committee, Ethiopia Trachoma Monitoring Study (TANA), National Eye Institute sponsored clinical trials (2005-)
 Member, Data Safety and Monitoring Committee, Multicenter Uveitis Steroid Treatment Trial. (National Eye Institute sponsored clinical trial) (2005-)
 Member, Data Safety and Monitoring Committee, Herpetic Eye Disease Trial. (National Eye Institute sponsored clinical trial) (1988-1996)
 Ad Hoc Grant Review: National Institutes of Health (1989, 1996, 1998, 2002, 2005, 2006); Department of Defense (2002-2005)
 NIH charter reviewer, HSOD section (2007-2010)
 American Statist. Assoc. Committee on Scientific Freedom & Human Rights (1995-97)
 American Statistical Association Joint Meeting Advisory Committee (1998-2000)
 American Statistical Association Health Policy Section Treasurer (2002-2003)
 American Statistical Association JSM 2004 Program Committee (2003-2004)
 American Statistical Association JSM 2008 Program Committee (2007-2008)
 Reviewer: JASA, Ophthalmology, Biometrics, Annals of Internal Medicine, JNCI, J Clinical Epidemiol, Medical Care, Statistics in Medicine, J Clinical Oncology

BIBLIOGRAPHY

Publications

1. Slamecka NJ, **Barlow W**. The role of surface and semantic features in word repetition effects. *J Verb Learning Behav*, 18:617-627, 1979.
2. **Barlow WE**, Feigl P. Analyzing binomial data with a nonzero baseline using GLIM, *Computational Statistics and Data Analysis*, 3:201-204, 1985.
3. **Barlow WE**. General relative risk models in stratified epidemiologic studies. *App Stat* 34:246-257, 1985.
4. Liggett PE, Lean JS, **Barlow WE**, Ryan SJ. Intraoperative argon endo-photocoagulation for recurrent vitreous hemorrhage after vitrectomy for diabetic retinopathy, *Am J Ophthalmol* 103: 146-149, 1987.
5. **Barlow WE**, Prentice, RL. Residuals for relative risk regression models, *Biometrika* 75: 65-74, 1988.
6. Minckler DS, Heuer DK, Hasty B, Baerveldt G, Cutting RC, **Barlow WE**. Clinical experience with the single-plate Molteno implant in complicated glaucomas, *Ophthalmology*, 95: 1181-1188, 1988.
7. **Barlow WE**, Sun WH. Bootstrapped confidence intervals for linear relative risk models, *Stat Med*, 8: 927-935, 1989.
8. Trousdale MD, **Barlow WE**, McGuigan LJB. Assessment of diclofenac on herpes keratitis in rabbit eyes, *Arch Ophthalmol*, 107: 1664-1666, 1989.
9. **Barlow WE**, Azen SP, and The Silicone Study Group. The effect of therapeutic treatment crossovers on the power of a clinical trial, *Control Clin Trials*, 11: 314-326, 1990.
10. Liggett PE, Pince KJ, **Barlow W**, Ragen M., Ryan SJ. Ocular trauma in an urban population: Review of 1132 cases, *Ophthalmology*, 97: 581-584, 1990.
11. Treiman GS, Yellin AE, Weaver FA, **Barlow WE**, Treiman RL, Gaspar MR. An effective treatment protocol for intraarterial drug injection, *J Vasc Surg*, 12:456-466, 1990.
12. Liggett PE, Gauderman WJ, Moreira CM, **Barlow W**, Green RL, Ryan SJ. Pars plana vitrectomy for acute retinal detachment in penetrating ocular injuries, *Arch Ophthalmol*, 108:1724-1728, 1990.
13. **Barlow WE**, Lai M, Azen SP. A comparison of methods for computing a stratified kappa, *Stat Med*, 10:1465-1472, 1991.
14. Azen SP, Boone DC, **Barlow W**, Walonker AF, McCuen B, Anderson MM, Lean JS, Stern WS, Ryan SJ and The Silicone Study Group. Methods, statistical features and baseline results of a standardized, multicentered ophthalmologic surgical trial: The Silicone Study, *Control Clin Trials*, 12:438-455, 1991.
15. Gauderman WJ, **Barlow WE**. Sample size calculations for ophthalmic studies, *Arch Ophthalmol*, 110:690-692, 1992.

16. Von Korff M, Deyo RA, Cherkin D, **Barlow W**. Back pain in primary care: Outcomes at 1 year, *Spine*, 18:855-862, 1993.
17. Treiman GS, Yellin AE, Weaver FA, Wang S, Ghalambor N, **Barlow W**, Snyder B, Pentecost MJ. Examination of the patient with a knee dislocation. The case for selective arteriography, *Arch Surg*, 127:1056-62, 1992.
18. Treiman GS, Jenkins JM, Edwards WH Sr, **Barlow W**, Edwards WH Jr, Martin RS 3d, Mulherin JL Jr. The evolving surgical management of recurrent carotid stenosis. *J Vasc Surg*, 16:354-362, 1992.
19. Stone JL, **Barlow WE**, Humayun MS, de Juan E Jr, Milam AH. Morphometric analysis of macular photoreceptors and ganglion cells in retinas with retinitis pigmentosa. *Arch Ophthalmol*, 110:1634-1639, 1992.
20. Curry SJ, Taplin SH, **Barlow WE**, Anderman C, McBride C. A randomized trial of the impact of risk assessment and feedback on participation in mammography screening, *Prev Med* 22:350-360, 1993.
21. Simon GE, VonKorff M, Wagner EH, **Barlow W**. Patterns of antidepressant use in community practice, *Gen Hosp Psychiatry*, 15:399-408, 1993.
22. Bush T, Cherkin D, **Barlow W**. The impact of physician attitudes on patient satisfaction with care for low back pain. *Arch Fam Med*, 2:301-305, 1993.
23. Von Korff M, **Barlow W**, Cherkin D, Deyo RA. Effects of practice style in managing back pain. *Ann Intern Med*, 121:187-195, 1994.
24. **Barlow WE**. Robust variance estimation for the case-cohort design, *Biometrics*, 50:1064-1072, 1994.
25. Thompson RS, **Barlow W**, Taplin SH, Grothaus L, Immanuel V, Salazar A, Wagner EH. A population-based case-cohort evaluation of the efficacy of mammography screening for breast cancer. *Am J Epidemiol*, 140:889-901, 1994.
26. Duerksen KM, **Barlow WE**, Stasior OG. Fused eyelids in premature infants. *Ophthal Plast Reconstr Surg*, 10:234-240, 1994.
27. Kinyoun JL, Zamber RW, Lawrence BS, **Barlow WE**, Arnold AM. Photocoagulation treatment for clinically significant radiation macular edema. *Br J Ophthalmol*, 79:144-149, 1995.
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39. Kinyoun JL, Lawrence BS, **Barlow WE**. Proliferative radiation retinopathy. Arch Ophthalmol, 114:1097-1100, 1996.
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41. Keech PM, Ichikawa L, and **Barlow W**. Prevalence of contact lens complications. Optometry Today, 24-27, 1996.
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- Chrvala CA, Key CR, Poplack SP, Worden JK, Kessler LG, Breast Cancer Surveillance Consortium: a national mammography screening and outcomes database. Am J Roentgenol. 169:1001-1008, 1997.
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 51. Scholes D, LaCroix AZ, Ott SM, Ichikawa LE, **Barlow WE**. Bone mineral density in young women using depot medroxyprogesterone acetate for contraception. Obstet Gynecol, 93:233-238, 1999.
 52. Potosky AL, Merrill RM, Riley GF, Taplin SH, **Barlow W**, Fireman BH, Lubitz JD. Prostate cancer treatment and 10-year survival among group/staff HMO and fee-for-service medicare patients. Health Serv Res, 34:525-546, 1999.
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 56. Tu S-P, Taplin SH, **Barlow WE**, and Boyko EJ. Breast cancer screening by Asian-American women in a managed care environment. Am J Prev Med, 17:55-61, 1999.
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 58. **Barlow W**, Ichikawa L, Rosner D, Izumi S. Analysis of case-cohort designs. J Clin Epidemiol, 52:1165-1172, 1999.
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66. Thompson RS, Rivara FP, Thompson DC, **Barlow WE**, Sugg NK, Maiuro RD, Rubanowice DM. Identification and management of domestic violence: a randomized trial. Am J Prev Med. 19:253-63, 2000.
67. Ott SM, Scholes D, LaCroix AZ, Ichikawa LE, Yoshida CK, **Barlow WE**. Effects of contraceptive use on biochemical markers in young women. J Clin Endocrinol Metab, 86:179-85, 2001.
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92. Miglioretti DL, Rutter CM, Geller BM, Cutter G, **Barlow WE**, Rosenberg R, Weaver DL, Taplin SH, Ballard-Barbash R, Carney PA, Yankaskas BC, Kerlikowske K. Effect of breast augmentation on the accuracy of mammography and cancer characteristics. *JAMA*, 291:442-50, 2004.

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97. Taplin SH, Ichikawa L, Yood MU, Manos MM, Geiger AM, Weinmann S, Gilbert J, Mouchawar J, Leyden WA, Altaras R, Beverly RK, Casso D, Westbrook EO, Bischoff K, Zapka JG, **Barlow WE**. Reason for late-stage breast cancer: absence of screening or detection, or breakdown in follow-up? *J Natl Cancer Inst*. 2004; 96:1518-27.
98. **Barlow WE**, Chi C, Carney PA, Taplin SH, D'Orsi C, Cutter G, Hendrick RE, Elmore, JG. Accuracy of screening mammography interpretation by characteristics of radiologists. *J Nat Cancer Inst*, 2004; 96: 1840-1850.
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