

Last Revised: *May 10, 2019*

CURRICULUM VITAE

NAME: Stewart John Anderson
BUSINESS ADDRESS: 7119 Public Health, 130 Desoto St, Pittsburgh, PA 15261
Phone: (412) 624-3026
Fax: (412) 624-2183
E-mail: sja@pitt.edu

EDUCATION AND TRAINING

Undergraduate

Bachelor of Arts, Mathematics
University of Colorado
Boulder, CO, 1978

Graduate

Master of Arts, Mathematics
University of Kansas
Lawrence, KS, 1981

Doctor of Philosophy, Biometrics (Minor in Physiology)
University of Colorado Health Sciences Center
Denver, CO, 1987

APPOINTMENTS AND POSITIONS

Academic

- 2006-present Professor of Biostatistics. University of Pittsburgh Graduate School of Public Health.
- 2014-present Professor, Clinical and Translational Science Institute. University of Pittsburgh
- 1997 - 2006 Associate Professor of Biostatistics. University of Pittsburgh Graduate School of Public Health. Tenure granted in the Department of Biostatistics, September, 1997.
- 1989 - 1997 Assistant Professor of Biostatistics. University of Pittsburgh Graduate School of Public Health.
- 1983 - 1987 Teaching Assistant for graduate level courses including applied and mathematical statistics. University of Colorado Health Sciences Center and University of Colorado at Denver.
- 1982 - 1983 Instructor of Mathematics. Calculus and algebra. Denver Community College North and Red Rocks Community College.
- 1979 - 1981 Assistant Instructor. University of Kansas. Taught classes in calculus, probability, and algebra to undergraduate students.

Non-Academic

- 1989-Present Senior Statistician. National Surgical Adjuvant Breast and Bowel Project. Provide statistical support in the design and analysis of clinical trials for breast and bowel cancers. Consult with physicians and other staff members in writing grants, statistical and numerical aspects of basic research. Over the years, have been the primary statistician for nine protocols involving over 10,000 patients. Designed two other protocols. Directed risk assessment system for NSABP Breast Cancer Prevention Trial and primary statistician for the Bone Mineral Density substudy of the BCPT. NSABP director of the Data Monitoring Committee meetings, 2000-present.
- 1987 - 1989 Senior Statistician. Ciba-Geigy Corp. Provided statistical support to one or more sub-divisions of the Research Department by participating in the design and analysis of both clinical and pre-clinical experiments, by collaborating on basic research projects and serving as a trainer and/or consultant to scientists at all organizational levels.
- 1983 - 1987 Scientific Programmer. University of Colorado School of Medicine. Maintained faculty and medical school admissions data bases and provided statistical analyses.

MEMBERSHIP IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

- Member of the Steering Committee of a World Clinical Trialists' Collaborative Group in Breast Cancer. Invited participant in Early Breast Clinical Trialists' Collaborative Group meetings, Oxford, England, September 1995, September 2000, September 2005, September 2006, June and September 2010. Elected to steering committee, September 2010.
- Member of the American Statistical Association
- Member of the Biometric Society (Eastern North American Region)
- Member of the American Public Health Association
- Member of the American Society of Clinical Oncology, 2000-present
- Member of the Society for Clinical Trials

PROFESSIONAL ACTIVITIES

1. Teaching

a. Courses Taught

<u>Year</u>	<u>Term</u>	<u>Course</u>	<u>Credits</u>	<u># Students</u>	<u>% Taught</u>
1989	Fall	BIOST 241*	2	120	100
1990	Winter**	BIOST 242*	2	68	100
	Spring**	BIOST 290	1	12	100
	Fall	BIOST 2041	2	86	100
	Fall	BIOST 2025	1	20	100
1991	Spring	BIOST 2042	2	43	100
	Spring	BIOST 2025	1	23	100
	Summer	BIOST 2049	3	21	50
	Fall	BIOST 2041	2	77	100
	Fall	BIOST 2025	1	20	100
1992	Spring	BIOST 2042	2	48	100
	Spring	BIOST 2025	1	21	100
	Fall	BIOST 2041	2	102	100
	Fall	BIOST 2025	1	20	25
1993	Spring	BIOST 2042	2	60	100
	Spring	BIOST 2025	1	25	50
	Fall	BIOST 2041	2	107	100
1994	Spring	BIOST 2042	2	67	100
	Fall	BIOST 2041	2	98	100
1995	Spring	BIOST 2042	2	56	100
	Fall	BIOST 2041	2	99	100
	Fall	BIOST 2025	1	1	100
1996	Spring	BIOST 2042	2	53	100
	Fall	BIOST 2041	2	72	100
1997	Spring	BIOST 2042	2	58	100
	Fall	BIOST 2041	2	88	100
1998	Spring	BIOST 2042	2	53	100
1999	Spring	BIOST 2042	2	55	100
	Fall	BIOST 2052	3	14	100
2000	Spring	BIOST 2042	2	64	100
		BIOST 2090	3	15	15
2001	Spring	BIOST 2042	3	90	100
		BIOST 2090	3	6	15
	Fall	BIOST 2052	3	6	100
2002	Spring	BIOST 2042	3	57	100
		BIOST 2090	3	6	15
2003	Spring	BIOST 2075	3	8	100
		BIOST 2090	3	11	15
	Fall	BIOST 2052	3	12	100
2004	Spring	BIOST 2090	3	7	15
2005	Spring	BIOST 2096	3	18	100
		BIOST 2062	3	16	15
	Fall	BIOST 2052	3	18	100
2006	Summer	BIOST 2041	3	63	100
2007	Spring	BIOST 2096	3	14	100
2008	Fall	BIOST 2052	3	14	100
2009	Fall	BIOST 2096	3	25	100
2010	Fall	BIOST 2052	3	25	100
2011	Spring	BIOST 2086	3	24	50
	Fall	BIOST 2096	3	19	100
2012	Fall	BIOST 2052	3	8	100
2013	Fall	BIOST 2096	3	10	100
2015	Spring	BIOST 2042	3	125	100
2016	Spring	BIOST 2042	3	81	100
2017	Spring	BIOST 2052	3	6	100
	Fall	BIOST 2096	3	9	100
2019	Spring	BIOST 2052	3	6	100

Descriptions of Courses Taught

BIOST 241, 2041 Introduction to Statistical Methods 1

A survey course in applied statistics taught to first year graduate students in biostatistics, public health and to postgraduate medical fellows. Covers descriptive statistics, probability (axioms, counting, conditional probability, Bayes' theorem, normal, uniform, binomial and Poisson distributions), estimation and confidence intervals, one sample and two sample hypothesis testing for normally distributed data and for proportions, general introduction to one-way ANOVA, contingency tables, simple linear regression, correlation, and statistical packages (Minitab, SAS). Texts used: Rosner, Fundamentals of Biostatistics, 7th ed., 2010 and Milton JS and Tsokos J, Statistical Methods in the Biological & Health Sciences, 3rd ed., 1998. Also, extensive class notes distributed.

BIOST 242, 2042 Introduction to Statistical Methods 2

The second part of the sequence in biostatistics (complements BIOST 2041). Covers nonparametric methods, multiple linear regression, odds ratio, relative risk, logistic regression, Mantel-Haenszel procedure, methods in survival analysis (Kaplan-Meier, life table analyses), multiple comparisons procedures, general linear contrast, multi-way ANOVA (general fixed effects model, factorial design, interactions, randomized blocks, random effects models, repeated measures) and analysis of covariance. Texts used: Rosner, Fundamental of Biostatistics, 7th ed., 2010 and Daniel and Cross Biostatistics, 10th edition, 2013. Other books used were: Fisher and van Belle Biostatistics: A Methodology for the Health Sciences, 1993; Selvin, Practical Biostatistical Methods, 1995 and Hassard, Understanding Biostatistics, 1st edition, 1991. Also, *extensive class notes distributed via Pitt CourseWeb*.

BIOST 2049 Applied Regression Analysis

A course in linear regression taught to graduate students in biostatistics, statistics and engineering. Covered matrix approach to regression, estimation theory, nonlinear models, discriminant analysis and regression diagnostics. Text used: Draper and Smith, Applied Regression Analysis, 2nd ed., 1981.

BIOST 2052 Multivariate Analysis

This course covers advanced topics in multivariate analysis including the multivariate normal distribution, estimation of the mean vector and the covariance matrix, distributions and uses of simple, partial and multiple correlation coefficients, the generalized T^2 statistic, the distribution of the sample generalized variance, multivariate analysis of variance and applications of multivariate methods to repeated measures analysis, principle components analysis, factor analysis, discriminant analysis and logistic regression. The course ends with discussions and examples of James-Stein estimation, modern classification methods (K-means, regression trees and regularization). The emphasis in the beginning of the course is on theory. Later, applications and computational methods are emphasized. Students are required to prepare a project on an application area which requires them to summarize and reproduce results from the literature. Texts used or referred to in the course include Anderson An Introduction to Multivariate Statistical Analysis, 2nd edition, 1984; Mardia, K.V., Kent, J.J. and Bibby, J.M. Multivariate Analysis, Academic Press, 1979; Khattree, R. and Naik, D.N. Applied Multivariate Statistics with SAS Software, 2nd edition, SAS Institute, Inc, Cary, NC, 1999; Hastie T., Tibsharani, R. and Friedman, J. The Elements of Statistical Learning: Data Mining, Inference, and Prediction, 2nd edition, Springer, 2013 and Efron, B. and Hastie, T. Computer Age Statistical Inference: Algorithms, Evidence, and Data Science, Cambridge Univ. Press, 2016. In addition to the texts, extensive class notes are distributed by the instructor.

BIOST 2096 (formerly BIOST 2075) Numerical Methods in Biostatistics

I initiated this course in our department in 2003. The purpose of the course is to familiarize the student with a wide range of numerical methods which are useful in biostatistical research. Selected computational techniques used in statistical research will be covered in the course. Some background will be provided to facilitate understanding of a few numerical algorithms widely used in statistics. The following topics are covered: recurrence relations, power series and asymptotic expansions, generating pseudo-random deviates, basic simulation methodology, use of antithetic variables, importance sampling, solutions of nonlinear equations, Newton's method, vector and matrix norms, linear regression and matrix inversion, other topics in multivariate analysis, splines, finite-state Markov chains, Hastings-Metropolis algorithms and Gibbs sampling.

The goal of this course is for the student to gain knowledge useful in understanding and developing

statistical methodology. Upon completion of this course, the student should have a clear understanding of how to conceptualize and implement computer simulations useful for doing statistical or other quantitative research. The primary texts used for this course are Lange, Numerical Analysis for Statisticians, 2nd ed., Springer-Verlag, 2010 and Ross, Simulation, 5th ed., Academic Press, 2013. Extensive class notes are distributed. Students should have had one year of courses in mathematical statistics and some experience with at least one computer language (e.g., Fortran, C, Pascal or Basic) and some knowledge of one or more of the following statistical packages: R, SAS, S-plus, Stata, Matlab, Mathematica.

BIOST 2062 (formerly BIOST 2090) Clinical Trials: Methods and Practice

This course covers fundamental concepts in the design and conduct of modern clinical trials utilizing Course Web, an internet instructional program, for presentation of lectures and other information in conjunction with twice weekly class sessions to present in greater depth real world applications and case studies. Topics include: experimental designs for safety and efficacy trials, quantitative methods for design, interim monitoring, and analysis of randomized comparative clinical trials including crossover, factorial and equivalence designs. Ethical, organizational, and practical considerations of design and conduct of single and multicenter studies are integrated in lectures and case studies. The course also covers international guidelines on statistical considerations for drug development, guidelines adopted for publication of trials in major medical journals, and recommended approaches for meta-analyses. This was a *team taught* course.

BIOST 2086 Applied Mixed Models Analysis

Mixed model analysis provides an approach to modeling which allows one to relax the usual independence assumptions and take into account complicated data structures. In this course all types of mixed models are incorporated into a general framework and the practical implications of their use are considered. Topics include normal mixed models, generalized mixed models, and mixed models for categorical data, repeated measures data analysis and cross-over trials with mixed models. SAS, Stata and R software for fitting mixed models are discussed. Text used: Brown, H and Prescott, R. Applied Mixed Models in Medicine, 2nd edition, 2006. Also, extensive class notes distributed.

BIOST 290 Special topics (Topics in Nonlinear Regression)

Special topics course in nonlinear regression taught to graduate students in biostatistics. Parameter estimation techniques, inference theory, properties of various nonlinear models, and special sections on smoothing splines and compartmental modeling were covered. Text used: Seber and Wild, Nonlinear Regression, 1989.

BIOST 2021, BIOST 3010 and FTDR 0000

Special topics courses for Masters' and Ph.D. level graduate students in biostatistics, respectively.

b. Other Teaching

- | | |
|-----------|--|
| 1996-2000 | Guest lectures in BIOST 2049 on nonlinear regression |
| 2001 | Three guest lectures in BIOST 2054 on repeated measures analyses |

c. Graduate Student Dissertations and Theses Chaired by Me (My Primary Advisees)

Doctoral students

1. Joanne Beer, **Ph.D.**, Dept of Biostatistics (co-advisor with Rob Krafty) – Graduated August 2018. Dissertation: “Predicting clinical variables from neuroimages with fused sparse group lasso”
2. John Pleis, **Ph.D.** – Graduated August 2018. Dissertation: “Mixtures of discrete and continuous variables: considerations for dimension reduction”
3. Abraham Apfel, **Ph.D.** – Graduated June 2017. Dissertation: “Stability analysis of sparse K-means”
4. Andrew Potter, **Ph.D.** – Graduated April 2017. Dissertation: “Multiscale multivariate functional principal component analysis with an application to multivariate longitudinal cardiac signals”
5. Jia-Yuh (Lily) Chen, **Ph.D.** – Graduated June 2016. Dissertation: “Joint modeling of bivariate longitudinal and survival data in spouse pairs”
6. Beth Zamoni, **Ph.D.** – Graduated April 2015. Dissertation: “Twisted survival: identifying surrogate endpoints for mortality using QTWIST and conditional disease free survival”
7. Xiaoxue Li, **Ph.D.** – Graduated December 2014. Dissertation: “Time-varying coefficient gap time models for Ecological Momentary Assessment data”.

8. Yun Ling, **Ph.D.** – Graduated April 2014. Dissertation: “Influential observation detection for multilevel multivariate growth curve models”
9. Ji-in Choi, **Ph.D.** – Graduated August 2012. Dissertation: “Prediction in the Joint Modeling of Mixed Types of Multivariate Longitudinal Outcomes and a Time-to-Event Outcome”
10. Yoko Tanaka, **Ph.D.** – Graduated December 2010. Dissertation: "An adaptive two-stage dose-response design method for establishing proof of concept in drug development"
11. Folefac Atem, **Ph.D.** – Graduated August 2010. Dissertation: “Rationale for choosing an explicit correlation structure in a multilevel analysis with bivariate outcomes”
12. Xing Yuan, **Ph.D.** – Graduated December 2009. Dissertation: “A meta-analytic framework for combining incomparable Cox proportional hazard models caused by omitting important covariates”. Winner best dissertation in Department of Biostatistics.
13. Meredith (Lotz) Wallace, **Ph.D.** – Graduated August 2009. Dissertation: “Modeling missing covariate data and temporal features of time-dependent covariates in tree-structured survival analysis”
14. Fiona Callaghan, **Ph.D.** (Co-chaired with Joyce Chang) – Graduated April 2008. Dissertation: “Classification trees for survival data with competing risks”
15. L. Scott Dean, **Ph.D.** – Graduated April 2007. Dissertation: “A method for detecting optimal splits over time in survival analysis using tree-structured models ”
16. Jia Li, **Ph.D.** – Graduated August 2006. Dissertation: “A strategy for stepwise regression procedures in survival analysis with missing covariates”
17. Feng-shou Ko, **Ph.D.** – Graduated August 2006. Dissertation: “Identification and assessment of longitudinal biomarkers using frailty models in survival analysis”
18. Michael B. McHenry, **Ph.D.** – Graduated June 2004. Dissertation: “New estimation approaches in survival analysis with Aalen’s additive risk model”. Winner of two ASA student travel awards.
19. Mary Kelley, **Ph.D.** – Graduated December 2003. Dissertation: “Zero inflation in ordinal data: applications of a mixture model”
20. Maria K. Mor, **Ph.D.** – Graduated April 2003. Dissertation: “A Bayesian group sequential approach for multiple endpoints”
21. Yanming Yin, **Ph.D.** – Graduated April 2002. Dissertation: “Tree-structured modeling for interval-censored survival data”
22. Wei Tian, **Ph.D.** - Graduated June, 1999. Dissertation: “Markov chain models for analyzing multivariate repeated categorical data with incomplete observations”
23. Sang Ahnn, **Ph.D.** – Graduated December 1994. Dissertation: "Sample size determination for comparing more than two survival distributions".
24. Lingshi Tan, **Ph.D.** – Graduated April 1993. Dissertation: "A multivariate growth curve model with random effects and CAR(1) errors", winner of a 1994 Biometrics Society (ENAR) student travel award

Masters Students

25. Natalie (Natasha) Sumetsky, **M.S.**, Dept. of Biostatistics – Graduated August 2017. Thesis: “Spatiotemporal modeling of opioid abuse and dependence outcomes using Bayesian hierarchical methods”
26. Megan Marron, **M.S.** – Graduated December 2014. Thesis: “Cross-validation in group-based trajectory modeling when assuming a censored normal model”
27. Jeff Borrebach, **M.S.** – Graduated April 2013. Thesis: “Comparisons between the Kaplan-Meier complement and the cumulative incidence for survival prediction in the presence of competing events”
28. Shuting Yang, **M.S.** – Graduated April 2012. Thesis: “The effects of overstratification on the stratified log rank test for survival analysis”
29. Eun-Jin Kim, **M.S.** – Graduated December 2011. Thesis: “Estimating the survival distribution for right-censored data with delayed ascertainment”
30. Amy Perkins, **M.S.** – Graduated August 2010. Thesis: “Prediction accuracy of SNP epistasis models generated by multifactor dimensionality reduction and penalized logistic regression”
31. Irina Karpova, **M.S.** – Graduated April 2006. Thesis: “Simulation of meta-analysis for assessing the impact of study variability on parameter estimates for survival data”.
32. Weimin Gao, **M.S.** – Graduated December 2003. Thesis: “Statistical properties of tree-structured models for survival data”
33. Michael B. McHenry, **M.S.** – Graduated April 2001. Thesis: “Analytic approach to the additive model for survival data using splines”
34. Michael Young, **M.S.** – Graduated December, 1996. Thesis: “Serial correlation of heart rate and cardiac output as a statistical model after cardiac resuscitation”

35. Penny Whiteman, **M.S.** – Graduated December 1996. Thesis: “Evaluation of power for time to event outcomes in complex clinical trials”
36. Mary Kelley, **M.S.** – Graduated December 1995. Thesis: "Autocorrelation in models for longitudinal data: applications to psychiatry research"
37. Lee Ann Boylestein, **M.S.** – Graduated April 1994. Thesis: "Comparison and evaluation of smoothing methods and their applications to toxicological bioassays". Winner of "Best Methodology Award" in presentation of her work at the Allegheny-Erie Regional Society 6th annual meeting.

d. Other Service as a Member on Masters and Doctoral Committees

38. Shu Wang, Ph.D., Dept of Biostatistics – Graduated April 2019
39. Avantika Srivastava, M.S., Dept of Biostatistics – Graduated April 2019
40. Xingyuan Li, Ph.D., Dept of Biostatistics – Graduated April 2019
41. ByungWon Kim, Ph.D., Dept. of Statistics – Graduated August 2018
42. Winston W. H. Eng, M.S, Dept. of Biostatistics – Graduated April 2018
43. Zhaowen Sun, Ph.D. candidate, Dept. of Biostatistics – Graduated: August 2017
44. Judah Abberbock, Ph.D. candidate, Dept. of Biostatistics – Graduated August 2017
45. Brian McGill, Ph.D. candidate, Dept. of Statistics – Graduates August 2017
46. Jenna Carlson, PhD, Dept. of Biostatistics – Graduated April 2017
47. Zhiguang (Caleb) Huo, PhD, Dept. of Biostatistics – Graduated April 2017
48. Jung-Yi Lin, MS, Dept. of Biostatistics – Graduated April 2017
49. Andrew Topp, Ph.D., Dept. of Biostatistics – Graduated: December 2016
50. Rachel Miller, Ph.D., Dept. of Epidemiology – Graduated August 2016
51. Michael Dunbar, Ph.D., Dept. of Psychology – Graduated: April 2016
52. Michael Zeleny, M.S., Dept. of Biostatistics – Graduated: April 2016
53. Xiaotian (Steven) Gao, M.S., Dept. of Biostatistics– Graduated: June 2015
54. Yu-Ting Weng, Ph.D., Dept. of Biostatistics– Graduated December 2014
55. Lei Ye, PhD, Dept of Biostatistics – Graduated December 2014
56. Wenjing Qi, PhD, Dept of Statistics – Graduated August 2014
57. Semhar Obagaber, Ph.D., Dept. of Biostatistics– Graduated: August 2014
58. John Kasckow, M.S., Dept. of Biostatistics – Graduated April 2014
59. Fanyin He, Ph.D., Dept. of Biostatistics – Graduated December 2013
60. Nicholas Soulakis, Ph.D., Dept. of Epidemiology – Graduated August 2012
61. Jeong Youn Lim, Ph.D., Dept of Biostatistics – Graduated December 2011
62. Yenchih (Jesse) Hsu, Ph.D., Dept of Biostatistics – Graduated August 2011
63. Nicholas Christian, Ph.D., Dept of Biostatistics – Graduated August 2011
64. Chang Sook Hong, M.S., Dept of Biostatistics – Graduated April 2011
65. The Minh Luong, Ph.D., Dept of Biostatistics – Graduated December 2010
66. Okan Umit Elci, Dept of Biostatistics – Graduated December 2010
67. Jinhui Ko, Ph.D., Dept. of Biostatistics – Graduated August 2010
68. Nian Song Chok, M.S., Dept of Biostatistics – Graduated June 2010
69. Jia-Yuh Chen, M.S. Dept of Biostatistics – Graduated April 2009
70. Jeff Rohay, Ph.D., Dept of Biostatistics – Graduated December 2009
71. Dana Tudorascu, Ph.D., Dept of Biostatistics – Graduated June 2009
72. Bedda Rosario, Ph.D., Dept. of Biostatistics – Graduated December 2008
73. John Scott, Ph.D., Dept of Biostatistics – Graduated August 2008
74. Antonio Pacheco, Ph.D., Dept of Epidemiology – Graduated August 2008
75. Sangdae Han, Ph.D., Dept of Statistics (Arts & Sciences) – Graduated June 2008
76. Jennifer Lucado, MPH, Dept of Infectious Diseases and Microbiology – Graduated April 2008
77. Xiaojing Wang, Ph.D., Dept. of Epidemiology – Graduated August 2007
78. Qing Xu, Ph.D. , Dept. of Biostatistics – Graduated April 2007
79. Susan Bealko, MPH, Dept. of Environmental & Occ. Health – Graduated April 2007
80. Xiajing Wang, M.S., Dept. of Biostatistics – Graduated April 2007
81. Li Qin, Ph.D., Dept. of Biostatistics – Graduated April 2006
82. Andriy Bandos, Ph.D., Dept. of Biostatistics – Graduated June 2005
83. Qianyu Dang, Ph.D., Dept. of Biostatistics – Graduated June 2004
84. Kris Rupert, Dr.PH., Dept. of Biostatistics – Graduated June 2004
85. Zhewei Zhang, Ph.D., Dept. of Biostatistics – Graduated December 2003
86. Feng-shou Ko, M.S., Dept. of Biostatistics – Graduated April 2004
87. Earle Chambers, Ph.D., Dept. of Epidemiology – Graduated August 2003
88. Zekarias Berhane, Ph.D., Department of Biostatistics – Graduated April 2003
89. Hsiao-Yun (Shawn) Huang, Ph.D., Dept. of Statistics (Art and Sciences) – Graduated April 2003

90. Chad Rittle, M.P.H., Dept. of Environmental & Occ. Health – Graduated April 2003
91. Hsiao-Lan (Jenny) Wei, Ph.D., Department of Biostatistics – Graduated December 2002
92. Zdenek Valenta, Ph.D., Dept of Biostatistics – Graduated April, 2002
93. Wei Li, Ph.D., Dept of Biostatistics – Graduated June, 2002
94. Nancy Schmidt, Ph.D., Dept. of Epidemiology – Graduated April, 2002
95. Lynda Snyder, Ph.D., Dept. of BCHS – Graduated April, 2002
96. Jeffrey G. Schragin, MMPH, Dept. of Epidemiology – Graduated April, 2002
97. Paul Ricci, M.S., Dept. of Biostatistics – Graduated December, 2001
98. William Green, M.M.P.H., Dept of BCHS – Graduated December, 2001
99. Michael Okobia, M.P.H., Dept of Epidemiology – Graduated December, 2001
100. Wei Lang, Ph.D., Dept of Biostatistics – Graduated April, 2000
101. Wei Chen, Ph.D., Dept. of Biostatistics – Graduated April, 2000
102. Steven Koehler, Ph.D., Dept. of Epidemiology – Graduated April, 2000
103. Jiping Wang, M.S., Dept. of Biostatistics – Graduated April, 1999
104. Soh Kim, Ph.D., Department of Epidemiology – Graduated December, 1998
105. Steadman Scott Sankey, Ph.D. Dept. of Biostatistics – Graduated April, 1998
106. Fe-Na Chen, Ph.D., Dept. of Biostatistics – Graduated April, 1998
107. Danit Shahar, Ph.D., Department of Epidemiology – Graduated August, 1997
108. Anthony Robins, Ph.D., Department of Epidemiology – Graduated, April, 1997
109. Eunyoung Lee, Ph.D., Department of Biostatistics – Graduated December, 1996
110. Ed Gregg, Ph.D., Department of Epidemiology – Graduated June, 1996
111. Kimberly Forrest, M.P.H. Department of Biostatistics – Graduated June, 1996
112. Sung-Ryul Yoon, Ph.D., Department of Environmental & Occ. Health – Graduated May, 1996
113. Sergio da Silva, Ph.D., Dept. of Physical Education (Exercise Physiology) – Graduated October, 1995
114. James Dignam, Ph.D., Dept. of Biostatistics – Graduated August, 1994
115. Nancy W. Glynn, Ph.D., Dept. of Epidemiology – Graduated May, 1994
116. Furqon, Ph.D., Dept. of Psychology and Education – Graduated August, 1993
117. Cora Wixey, M.S., Dept. of Biostatistics – Graduated December, 1992
118. Silvia Vignetti, M.S., Dept. of Biostatistics – Graduated August, 1992
119. Alfred Cachetti, Dept. of Biostatistics, M.S. – Graduated June, 1992
120. Molly Vogt, Ph.D., Dept. of Epidemiology – Graduated December, 1991

2. Research and Training

a. Grants and Contracts Received

Principal Investigator

Source AJCC 5/1/06-04/30/07 – 15%

Title: TNM Staging of Breast Cancer: Refinements Using Data from the NSABP

Role on Project: Co-Principal Investigator

Source: DTFH61-96-00022 [Sub-contract with CMU] from ATA foundation (5%)

Title: Operational Test of Fatigue Management Technologies

Annual Cost of Project: \$35,127 [01/01/00-12/31/00]

Role on Project: Principal investigator on sub-contract. Oversee graduate student (Changyu Shen); consult with co-investigator.

Co-investigator

Source: NIH - 5-U10-CA69974 (PI – Costantino) – 25%

Title: Clinical Oncology Program Biostatistical Center

Annual Direct Costs: \$3,761,448 (6/1/07 -5/31/ 12)

Role on Project: Senior Statistician: Support the statistical and data management centers for the NSABP in four major work

Components: collection and management of data, processing of submitted data forms, execution of quality control and audit, design monitoring, and analysis of the prevention trials.

Source: NIH – 5U10-CA069651 (PI – Costantino) – 55%

Title: Biostatistical Center for the NSABP

Annual Direct Cost: \$2,540,761 (2/06 – 1/12)

Role on Project: Senior Statistician: Collaborations with clinical colleagues to design, implement, and manage breast and colorectal clinical trials and analysis and publication of the results of these trials.

Source: NIH – P30MH090333 - 01A1 (PI -Reynolds) – 25% [sub-contract]

Advanced Center in Interventions and Services Research in Late-Life Mood Depression Prevention

Annual Direct Cost: \$1,165,314 (4/1/11 – 3/31/16)

Role on Project: Principle investigator of Research Design and Biostatistics Unit; Co-principle investigator of Dynamic Individualized Prediction of Depression Onset project.

Source: NIH – 1R01 MH090250 01A1(PI – Lotrich) – 5% [sub-contract]

Vulnerability to Major Depression: the Role of Delta Sleep in Patients Receiving Interferon-Alpha

Annual Direct Cost: \$249,988 (7/1/10 - 6/30/15)

Role on project: Statistical consultant

Source: NIH – 1R01 MH084921 01A2 (PI – Gildengers) – 2% [sub-contract]

The Effect of Bipolar Disorder and Its Co-Morbidities on Cognition in Older Adults

Annual Direct Cost: \$225,000 (1/1/10-12/31/14)

b. Invited Lectureships and Major Seminars Related to Your Research

Anderson SJ. Monitoring Endpoints and Disseminating Information in Cancer Clinical Trials: Some Issues and Challenges. Presented by me at *The Society of Clinical Trials*, New Orleans, LA, May 24, 2004.

Fisher ER and Anderson S. Long-term Pathologic and Clinical Predictors of Survival and IBTR following Lumpectomy with or without local breast irradiation (NSABP Protocol B-06). Invited talk. Jointly presented at the *Conference on Prognostic Factors and Staging in Cancer Management: Contributions of Artificial Neural Networks and Other Statistical Methods*, Arlington, VA, September 27, 1999.

Anderson SJ. Global monitoring of prevention trials: the Breast Cancer Prevention Trial (BCPT) experience. [Invited talk] Presented by me at the *1997 American College of Epidemiology meeting*, Boston, MA, September, 1997.

Anderson SJ. Ipsilateral breast tumor recurrence in relation to distant disease on NSABP Protocol B-06. Presented by me at *An Appraisal of Clinical Research for the Treatment of Early Breast Cancer: A National Cancer Institute Workshop*, Bethesda, MD, November 15, 1994.

PUBLICATIONS

1. Peer Reviewed (Published or In Press)

1. Beer JC, Aizenstein HJ, Anderson SJ and Krafty RT. Incorporating prior information with fused sparse group lasso: application to prediction of clinical measures from neuroimages. *Biometrics*. Accepted April 17, 2019.
2. Karp JF, Zhang J, Wahed AS, Anderson S, Dew MA, Fitzgerald K, Weiner DK, Albert S, Gildengers A, Butters M, Reynolds CF. Improving patient reported outcomes and preventing depression and anxiety in older adults with knee osteoarthritis: results of a sequenced multiple assignment randomized trial (SMART) study. *American Journal of Geriatric Psychiatry*. Accepted March 28, 2019.
3. Albert SM, King J, Anderson S, Dew MA, Zhang J, Stahl ST, Karp JF, Gildengers AG, Butters MA, Reynolds CF III. Depression agency-based collaborative (Dep-ABC): effect of problem solving therapy on risk of common mental disorders in older adults with home care needs. *American Journal of Geriatric Psychiatry*. Accepted January 7, 2019.
4. Dias A, Azariah F, Sequeira M, Krishna R, Morse J, Cohen A, Cuijpers P, Anderson S, Patel V and Reynolds CF III. Adaptation of problem-solving therapy for primary care to prevent late-life depression in Goa, India: the ‘DIL’ intervention To appear in *Global Health Action*, 2019.
5. Abberbock J[§], Anderson SJ, Rastogi P and Tang G. Assessment of effect size and power for survival analysis through a binary surrogate endpoint in clinical trials. *Statistics in Medicine*, **38(3)**, 301-314, February 10, 2019.
6. Tudorascu D[§], Anderson SJ, Minhas D, Yu Z, Comer D, Laymon C, Snitz B, Lopresti B, Price J, Mathis C, Aizenstein HJ, Klunk W, Handen BL, Christian BT, Cohen AD. Comparison of longitudinal A β in nondemented elderly and Down syndrome. *Neurobiology of Aging*, (**73**), 171-176, 2019.
7. Dias A, Azariah F, Anderson SJ, Sequeira M, Cohen A, Morse J, Cuijpers P, Patel V, Reynolds CF III. Preventing the onset of major depression in older adults: a randomized controlled trial using problem solving therapy delivered by lay health counsellors in Goa, India. *JAMA Psychiatry*, **76(1)**, 13-20, January 1, 2019.
8. Jayasekera J, Li Y, Schechter CB, Jagsi R, Song J, White J, Luta G, Chapman JW, Feuer EJ, Zellars RC, Stout N, Julian TB, Whelan T, Huang X, Shelley Hwang E, Hopkins JO, Sparano JA, Anderson SJ, Fyles AW, Gray R, Sauerbrei W, Mandelblatt J, Berry DA; CISNET-BOLD Collaborative Group. Effects of Radiotherapy in Early-Stage, Low-Recurrence Risk, Hormone-Sensitive Breast Cancer. *J Natl Cancer Inst*. 110(12), 1370-1379.

[§] Advisee

^{§§} Primary advisee

[‡] Corresponding author

9. Valachis A, Mamounas EP, Mittendorf EA, Hayashi N, Ishitobi M, Natoli C, Fitzal F, Rubio IT, Tiezzi DG, Shin HC, Anderson SJ, Hunt KK, Matsuda N, Ohsumi S, Totomi A, Nilsson C. Risk factors for locoregional disease recurrence after breast-conserving therapy in patients with breast cancer treated with neoadjuvant chemotherapy: an international collaboration and individual patient meta-analysis. *Cancer*, **124(14)**, 2923-2930, July 15, 2018.
10. Miller RG[§], Anderson SJ, Costacou T, Sekikawa A and Orchard Hemoglobin A1c and cardiovascular disease incidence in type 1 diabetes: an application of joint modeling of longitudinal and time-to-event data in the Pittsburgh epidemiology of diabetes complications (EDC) study. *The American Journal of Epidemiology*, **187(7)**, July 2018.
11. Wapnir IL, Price KN, Anderson SJ, Robidoux A, et al. Efficacy of chemotherapy for ER-negative and ER-positive isolated locoregional recurrence of breast cancer: final analysis of the CALOR trial, *Journal of Clinical Oncology* **36(11)**, 1073-1079, April 10, 2018.
12. Reynolds CF III, Dias A, Cohen A, Morse J, Anderson SJ, Cuijpers P and Patel V. Preventing late-life depression: lessons in intervention development from Goa, India. *Innovations in Aging* **1(3)**, January 24, 2018. PMID: PMC6243671
13. Robbins-Welty G, Stahl S, Zhang J, Anderson S, Schenker Y, Shear MK, Simon NM, Zisook S, Skritskaya N, Mauro C, Lebowitz BD and Reynolds CF III. Medical comorbidity in complicated grief: results from the HEAL collaborative trial. To appear in *Journal of Psychiatric Research*, 2018.
14. McGale P, Dodwell D, Gray R, Mannu G, Peto R, Taylor C, Wang Y, Wang Z, Clarke M, Davies C, R Bradley R, Braybrooke J, Pan H, Lohrisch C, Gianni L, Anderson S, Pritchard KI, Bergh J, von Minckwitz, G. Long-term outcomes for neoadjuvant versus adjuvant chemotherapy in early breast cancer: meta-analysis of individual patient data from ten randomised trials. *The Lancet*, 19, 27-39, January 2018.
15. Ling Y^{§§}, Anderson SJ[‡], Bilonick RA, Wollstein G and Schuman JS. Influence Diagnostics for Multivariate Growth Curve Models. *Journal of Statistical Research*, **51(1)**, 1-16, 2017.
16. He F[§], Mazumdar S, Tang G, Bhatia T, Anderson SJ, Dew MA, Krafty R, Nimgaonkar V, Deshpande S, Hall M and Reynolds CF III. Nonparametric MANOVA approaches for non-normal multivariate outcomes with missing values. *Communications in Statistics, Theory and Methods*. **46(14)**, 7188-7200, 2017.
17. Dias A, Azariah F, Cohen A, Anderson SJ, Morse J, Cuijpers P, Sequeira M, Gaude V, Soares S, Patel V, Reynolds CF III. Intervention development for the indicated prevention of depression in later life: The "DIL" protocol in Goa, India. *Controlled Clinical Trials Communications*, **6**, 131-139, 2017.
18. Taylor C, Correa C, Duane FK, Aznar MC, Anderson SJ, Bergh J, Dodwell D, Ewertz M, Gray R, Jagsi R, Pierce L, Pritchard KI, Swain S, Wang Z, Wang Y, Whelan T, Peto R, and McGale P (for the EBCTCG). Estimating the risks of breast cancer radiotherapy: evidence from modern radiation doses to the lungs and heart and from previous randomized trials. *Journal of Clinical Oncology*, **35 (15)**, 1641-1649, May 20, 2017.
19. Miller RG, Mahajan HD, Costacou T, Anderson SJ, Sekikawa A, Orchard TJ. A contemporary estimate of total mortality and cardiovascular disease risk in young adults with type 1 diabetes: The Pittsburgh Epidemiology of Diabetes Complications Study. *Diabetes Care*. 2016; 39(12): 2296-2303
20. Wapnir I, Gelber S, Anderson SJ, Mamounas EP, Robidoux A, Martín M, Nortier JWR, Geyer CE Jr, Paterson AHG, Láng, I, Price KN, Coates AS, Gelber RD, Rastogi P, Regan MM, Wolmark N and Aebi S. Poor prognosis after second locoregional recurrences in the CALOR trial. *Ann Surg Oncol*. **24**, 398–406, 2017.
21. Ye L[§], Youk AO, Sereika SM, Anderson SJ and Burke LE. A three-step estimation procedure using local polynomial smoothing for inconsistently sampled longitudinal data. *Statistics in Medicine*, **35**, 3613–3622, 2016.
22. Miller RG[§], Anderson SJ, Costacou T, Sekikawa A, Orchard TJ. Risk Stratification for 25-Year Cardiovascular Disease Incidence in Type 1 Diabetes: Tree-Structured Survival Analysis of the Pittsburgh Epidemiology of Diabetes Complications (EDC) Study. *Diabetes and Vascular Disease Research*, **13(4)**, 250–259, July 2016.
23. Kaneriyia SH, Robbins-Welty GA, Smagula SF, Karp JF, Butters MA, Lenze EJ, Mulsant BH, Blumberger D, Anderson SJ, Dew MA, Lotrich F, Aizenstein HJ, Diniz BS, Reynolds CF: Predictors and Moderators of Remission with Aripiprazole Augmentation in Treatment-Resistant Late-Life Depression. *Journal of the American Medical Association-Psychiatry*, **73(4)**, 329-336, April 1, 2016. PMID: PMC4823175.
24. Cecchini RS, Swain SM, Costantino JP, Rastogi P, Jeong J-H, Anderson SJ, Tang G, Geyer CE Jr, Lembersky BC, Romond EH, Paterson AHG, and Wolmark N. Body mass index at diagnosis and breast cancer survival prognosis in clinical trial populations from NRG oncology/NSABP B-30, B-31, B-34, and B-38. *Cancer Epidemiology Biomarkers and Prevention*, **25(1)**, 51–59, January 2016
25. Albert SM, King J, Dew MA, Begley A, Anderson S, Karp J, Gildengers A, Butters M, and Reynolds CF, III. Design and Recruitment for a Randomized Controlled Trial of Problem-Solving Therapy to Prevent Depression among Older Adults with Need for Supportive Services. *American Journal of Geriatric Psychiatry*, **24(1)**, 94-102, January 1, 2016.
26. Lenze EJ, Mulsant BH, Blumberger DM, Karp JF, Newcomer JW, Anderson SJ, Dew M, Butters M, Stack JA, Begley AE, Reynolds CF. Efficacy, safety, and tolerability of augmentation pharmacotherapy with aripiprazole for treatment-resistant depression in late life: a randomized placebo-controlled trial. *The Lancet*, **386**, 2404-2412, December 12, 2015.
27. Marron MM^{§§}, Anderson SJ, Garrity J, Reynolds CF III and Lotrich FE. Association of baseline sleep quality with trajectories of depressive symptoms in patients undergoing interferon treatment. *Psychosomatic Medicine*, **77(8)**, 911-920, 2015.

28. Smagula SF, Butters MA, Anderson SJ, Lenze EJ, Dew MA, Mulsant BH, Lotrich FE, Aizenstein H, Reynolds CF III. Antidepressant response trajectories and associated clinical prognostic factors among older adults. *JAMA Psychiatry*. **72(10)**, 1021-1028, 2015. doi:10.1001/jamapsychiatry.2015.1324
29. Coleman R, Powles T, Paterson A, Gnant MD, Anderson S, Diel I, Gralow J, van Minckwitz G, Moebus V, Bergh J, Pritchard KI, Bliss J, Cameron D, Evans D, Pan H, Peto R, Bradley R and Gray R. (writing committee). Adjuvant bisphosphonate treatment in early breast cancer: meta-analyses of individual patient data from randomised trials. *The Lancet* **386**, 1353–61, October 3, 2015.
30. Gildengers AG, Butters MA, Aizenstein HJ, Marron MM, Emmanuel J, Anderson SJ, Weissfeld LA, Becker JT, Lopez O, Mulsant BH and Reynolds CF III. Longer lithium exposure is associated with better white matter integrity in older adults with bipolar disorder. *Bipolar Disorders*, **17(3)**, 248-256, May 2015.
31. Troy WC and Anderson SJ. Exploring the role of the host-tumor interactions in tumor growth and regression. *Quarterly of Applied Mathematics*, **73(1)**, 131-161, 2015. Online ISSN 1552-4485; Print ISSN 0033-569X.
32. Kasckow J, Morse J, Begley A, Anderson S, Bensasi S, Thomas S, Quinn S, Reynolds CF III. Treatment of post-traumatic stress disorder symptoms in emotionally distressed individuals. *Psychiatry Research*, **220**, 370–375, December 15, 2014. PMID: PMC4253016.
33. Albert S, Bear-Lehman J, Anderson SJ. Declines in mobility and changes in performance in the instrumental activities of daily living among mildly disabled community-dwelling older adults. *J Gerontol A Biol Sci Med Sci*, **70(1)**, 71-77, 2015. doi: 10.1093/gerona/glu088. Epub 2014 Jun 21. PMID: 24952575 PMC Journal – In Process.
34. Shiffman S, Dunbar MS, Kirchner TR, Li X, Tindle HA, Anderson SJ, Scholl SM, Ferguson SG. Cue reactivity in converted and native intermittent smokers. *Nicotine Tob Res.*, **17(1)**, 119-123, Jan 2015. doi: 10.1093/ntr/ntu147. Epub 2014 Aug 28. PubMed PMID: 25168030; PubMed Central PMCID: PMC4351401.
35. Koenig AM, DeLozier IJ, Zmuda MD, Marron MM^{§§}, Begley AE, Anderson SJ, Reynolds CF 3rd, Arnold SE, Becker JT, Butters MA. Neuropsychological functioning in the acute and remitted States of late-life depression. *J Alzheimers Dis*. **45(1)**, 175-185, 2015. doi: 10.3233/JAD-148006. PubMed PMID: 25471193.
36. Shiffman, S., Dunbar, M. S., Li, X., Scholl, S. M., Tindle, H. A., Anderson, S. J., & Ferguson, S. G. (in press). Craving in intermittent and daily smokers during ad libitum smoking. *Nicotine and Tobacco Research*, 2014.
37. Rodakowski J, Skidmore ER, Anderson SJ, Begley A, Jensen MP, Buhule OD, Bonginer ML. Additive effect of age on disability for individuals with spinal cord injuries. *Arch Phys Med Rehabil*. **95(6)**, 1076-1082, June 2014. PMID: 24530841; PMCID: PMC4037449
38. Reynolds CF III, Thomas SB, Morse JQ, Anderson SJ, Albert SM, Dew MA, Begley AE, Karp JF, Gildengers A, Butters MA, Stack JA, Kasckow J, Miller MD, Quinn SC. Early Intervention to Preempt Major Depression in Older Black and White Adults. *Psychiatric Services*, **65**, 765–773, 2014, PMID: 24632760, PMCID: PMC4050338.
39. Diniz BS, Reynolds CF III, Begley A, Dew MA, Anderson SJ, Lotrich F, Erickson KI, Lopez O, Aizenstein H, Sibille EL, Butters MA: Brain-derived neurotrophic factor levels in late-life depression and comorbid mild cognitive impairment: a longitudinal study. *Psychiatric Research*. **49**, 96 – 101, Feb 2014. PMID: 24290367
40. Aebi S, Gelber S, Anderson SJ, Láng I, Robidoux A, Martín M, Nortier JWR, Paterson AHG, Rimawi MF, Cañada JMB, Thürlimann B, Murray E, Mamounas EP, Geyer CE Jr, Price KN, Coates AS, Gelber RD, Rastogi P, Norman Wolmark N and Wapnir IL. Chemotherapy for isolated locoregional recurrence of breast cancer (CALOR): a randomised trial. *Lancet Oncology*, **15**, 156–163, Feb 2014. PMID: 24439313; PMCID: PMC3982874
41. Shiffman S., Dunbar MS., Li X^{§§}, Scholl SM, Tindle H A, Anderson SJ and Ferguson S G. Smoking patterns and stimulus control in intermittent and daily smokers. (in press) *PLoS One*, **9(3)**, 2014. PMID: 24599056
42. Choi J-I^{§§}, Anderson SJ, Richards TJ and Thompson WK. Prediction of transplant-free survival in idiopathic pulmonary fibrosis patients using joint models for event times and mixed multivariate longitudinal data. *Journal of Applied Statistics*, **41(10)**, 2192–2205, Jan 2014. PMID:25214700 PMCID:PMC4157686.
43. Siziopikou KP, Anderson SJ, Cobleigh MA, Julian TB, Arthur DW, Zheng P, Mamounas EP, Pajon ER, Behrens RJ, Eakle JF, Leasure NC, Atkins JN, Polikoff JA, Seay TE, McCaskill-Stevens WJ, Rabinovitch R, Costantino JP, Wolmark N. Preliminary results of centralized HER2 testing in ductal carcinoma in situ (DCIS): NSABP B-43. *Breast Cancer Res Treat*. **142(2)**, 415-421, Nov 2013. PMID: 24202240.
44. Gildengers AG, Chisholm D, Anderson SJ, Begley, A, Holm M, Rogers J, Reynolds CF, Mulsant BH: Two year course of cognitive and IADL function in older adults with bipolar disorder: evidence for neuroprogression? *Psychol Med*. **43(4)**, 801-811, April 2013 PMID: 22846332; PMCID: PMC3593938.
45. Kopec JA, Colangelo LH, Land SR, Julian TB, Anderson SJ, Krag DN, Ashikaga T, Costantino JP, Wolmark N and Ganz PA. Relationship between Arm Morbidity and Patient-Reported Outcomes Following Surgery in Women with Node-Negative Breast Cancer: NSABP Protocol B-32. *J Support Oncol.*, **11(1)**, 22-30, March 2013. PMID: 22951047
46. Shiffman S, Dunbar M, Kirchner T, Li X^{§§}, Tindle H, Anderson S and Scholl S. Smoker reactivity to cues: effects on craving and on smoking behavior. *Abnormal Psychology*, **122(1)**, 264-280, Feb 2013. PMID: 22708884.
47. Shiffman S, Dunbar MS, Kirchner TR, Li X^{§§}, Tindle HA, Anderson SJ, Scholl SM and Ferguson SG. Cue reactivity in non-daily smokers: effects on craving and on smoking behavior. *Psychopharmacology*, **226(2)**, 321-333, Mar 2013. PMID: 23142992. Digital Object Identifier (DOI) 10.1007/s00213-012-2909-4
48. Franchetti Y^{§§}, Anderson SJ and Sampson AR. An adaptive two-stage dose-response design method for establishing proof of concept. *Journal of Biopharmaceutical Statistics*, **23(5)**, 1124-1154, 2013. PMID: 23957520; PMCID: PMC4073119.

49. Mamounas EP, Anderson SJ, Dignam JJ[§], Bear HD, Julian TB, Geyer CE, Jr, Taghian A, Wickerham DL, and Wolmark N. Predictors of loco-regional recurrence following neoadjuvant chemotherapy: results from combined analysis of NSABP B-18 and B-27. *Journal of Clinical Oncology*, **30(32)**, 3960 – 3966, Nov 10, 2012.
50. Paterson AHG, Anderson SJ, Lembersky BC, Fehrenbacher L, Falkson CI, King KM, Weir LM, Brufsky AM, Dakhil S, Lad T, Baez-Diaz L, Gralow JR, Robidoux A, Perez EA, Zheng P, Geyer CE Jr, Swain SM, Costantino JP, Mamounas EP, Wolmark N. A randomised trial of oral clodronate for the adjuvant treatment of operable breast cancer: Results of NSABP Protocol B-34. *The Lancet Oncology*, **13(7)**, 734–742, July 2012. PMID: 22704583.
51. Allred DC, Anderson SJ, Paik S, Wickerham DL, Nagtegaal ID, Swain SM, Mamounas EP, Julian TB, Geyer CE Jr, Costantino JP, Land SR, and Wolmark N. Adjuvant tamoxifen reduces subsequent breast cancer in women with estrogen receptor-positive DCIS: a study based on NSABP protocol B-24. *J Clin Oncology* **30(12)**, 1268-1273, 2012.
52. Gildengers AG, Butters MA, Chisholm D, Anderson SJ, Begley A, Holm M, Rogers JC, Reynolds CF III, Mulsant BH: Cognition in older adults with bipolar versus major depressive disorder. *Bipolar Disorders* **14(2)**, 198 – 205 2012; PMID 22420595.
53. Wallace, MEL^{§§}, Anderson, SJ, and Mazumdar, S. Incorporating temporal features of repeatedly measured covariates into tree-structured survival models. *Biometrical Journal*, **54(2)**, 181–196, 2012.
54. Wapnir I and Anderson S. Comment on classification of ipsilateral breast tumor recurrences after breast conservation therapy can predict prognosis and facilitate treatment planning. Yi et al *Ann Surg* 253:572, 2011. *Breast Disease Quarterly*, **22(4)**, 425-426, 2011.
55. Wapnir IL, Dignam JJ[§], Fisher B, Mamounas EP, Anderson SJ, Julian TB, Land SR, Margolese RG, Swain SM, Costantino JP and Wolmark N. Long-term outcomes of invasive ipsilateral breast tumor recurrences after lumpectomy in NSABP B-17 and B-24 randomized clinical trials for DCIS. *J National Cancer Institute*, 103: 1-11, 2011. Online pre-print March 11, 2011, <http://jnci.oxfordjournals.org/cgi/content/abstract/djr027> .
56. Atem FD^{§§}, Sharma RK and Anderson SJ. Fitting bivariate multilevel models to assess long-term changes in body mass index and cigarette smoking. *Journal of Applied Statistics*, **38(9)**, 1819-1831, 2011. Epub 2010 Nov 9, <http://www.informaworld.com/10.1080/02664763.2010.529880>
57. Tang G, Shak S, Paik S, Anderson SJ, Costantino J, Geyer CE Jr, Mamounas EP, Wickerham DL, and Wolmark N. Comparison of the prognostic and predictive utilities of the 21-gene recurrence score assay and Adjuvant! for women with node-negative, ER-positive breast cancer: results from NSABP B-14 and NSABP B-20. *Breast Cancer Research and Treatment*, **127(1)**, 133-42 May 2011. Epub 2011 Jan 11. PMID: 21221771
58. Reynolds CF III, Butters MA, Lopez O, Pollock BG, Dew MA, Mulsant BH, Lenze EJ, Holm M, Rogers JC, Mazumdar, S, Houck PR, Begley A, Anderson SJ, Karp JF, Miller MD, Whyte EM, Stack J, Gildengers A, Szanto K, Bensasi S, Kaufer DI, Kamboh I and DeKosky ST. Maintenance Treatment of Depression in Old Age: A Randomized, Double-blind, Placebo-Controlled Evaluation of the Efficacy and Safety of Donepezil Combined With Antidepressant Pharmacotherapy. *Archives of General Psychiatry*, **68(1)**, 51–60, Jan 2011.
59. Weaver DL, Ashikaga T, Krag DN, Skelly JM, Anderson SJ, Harlow SP, Julian TB, Mamounas EP, Wolmark N. Effect of occult metastases on survival in node-negative breast cancer. *New England Journal of Medicine*, 364(5), 412-421, February 3, 2011, EPUB January 20, 2011, <http://www.nejm.org/doi/full/10.1056/NEJMoa1008108>. PMID: 21247310.
60. Yuan, X^{§§} and Anderson, S. Meta-analysis methodology for combining treatment effects from Cox proportional hazard models with different covariate adjustments. *Biometrical Journal*, **52(4)**, 519–537, 2010.
61. Wallace, MEL^{§§}, Anderson, SJ and Mazumdar, S. A stochastic multiple imputation algorithm for missing covariate data in tree-structured survival analysis. *Statistics in Medicine*, **29(29)**, 3004–3016, 2010.
62. Krag DN, Anderson SJ, Julian TB, Brown AM, Harlow SP, Costantino JP, Ashikaga T, Weaver DL, Mamounas EP, Jalovec LM, Frazier TG, Noyes RD, Robidoux A, Scarth HMC and Wolmark N. Sentinel-lymph-node resection compared with conventional axillary-lymph-node dissection in clinically node-negative patients with breast cancer: overall survival findings from the NSABP B-32 randomised phase 3 trial. *The Lancet Oncology*, **11(10)**, 927–933, October 2010. PMID: 20863759.
63. Land, SR, Kopec, JA, Julian, TB, Brown, AM, Anderson, SJ, Krag, DN, Christian, NJ, Costantino, JP, Wolmark and Ganz, PA. Patient-reported outcomes in sentinel-node negative adjuvant breast cancer patients receiving sentinel-node biopsy or axillary dissection: National Surgical Adjuvant Breast and Bowel Project (NSABP) Phase III Protocol B-32. *Journal of Clinical Oncology*, **28(25)**, 3929-3936, September 1, 2010.
64. Ashikaga T, Krag DN, Land SR, Julian TB, Anderson SJ, Brown AM, Skelly JM, Harlow SP, Weaver, DL, Mamounas, EP, Costantino JP and Wolmark N. Morbidity results from the NSABP B-32 trial comparing sentinel lymph node dissection versus axillary dissection. *Journal of Surgical Oncology*, **102(2)**, 111–118, 1 August 2010.
65. Chu D, Gildengers AG, Houck, PR, Anderson SJ, Mulsant BH, Reynolds, CF and Kupfer DF. Does Age at Onset Have Clinical Significance in Older Adults with Bipolar Disorder? *International Journal of Geriatric Psychiatry*, 2010.
66. Fisher B and Anderson SJ. The breast cancer alternative hypothesis: is there evidence to justify replacing it? *Journal of Clinical Oncology* 28(3), 366-374, January 20, 2010. PMID: 20008611.
67. Anderson S, Wapnir I, Dignam JJ[§], Fisher B, Mamounas EP, Jeong J-H, Geyer CE, Wickerham DL, Costantino JP, and Wolmark N. Prognosis after IBTR and locoregional recurrences in patients treated by breast conserving surgery in five NSABP node-negative protocols. *Journal of Clinical Oncology* **27(15)**, 2466-2473, 2009. Published online ahead of print on April 6, 2009 as 10.1200/JCO.2008.19.8424. PMID: 19349544.

68. Wang X[§], Kammerer CM, Anderson SJ, Lu J, and Feingold E. A comparison of principle component analysis and factor analysis strategies for uncovering pleiotropic factors. *Genetic Epidemiology* **33**, 325-331, 2009.
69. Dignam JJ[§], Dukic V, Anderson SJ, Mamounas EP, Wickerham DL, Wolmark N. Hazard of recurrence and adjuvant treatment effects over time in lymph node-negative breast cancer. *Breast Cancer Research and Treatment*, **116**, 595–602, August 2009 (published online 10-2-08).
70. Wapnir, IL, Aebi, S, Gelber S, Anderson SJ, Lang I, Robidoux, A, Mamounas, EP and Wolmark, N. Progress on BIG 1-02/IBCSG 27-02/NSABP B-37, a prospective randomized trial evaluating chemotherapy after local therapy for isolated locoregional recurrences of breast cancer. *Annals of Surgical Oncology* **15(11)**, 3227-3231, 2008. PMID: 18784962.
71. Kelley, M^{§§} and Anderson, S. Zero inflation in ordinal data: incorporating susceptibility to response through the use of a mixture model. *Statistics in Medicine*, 27, 3674-3688, 15 August 2008.
72. Wapnir IL, Aebi S, Geyer CE, Zahrieh D, Gelber RD, Anderson SJ, Robidoux A, Bernhard J, Maibach R, Castiglione-Gertsch M, Coates AS, Piccart MJ, Clemons MJ, Costantino JP and Wolmark, N. A randomized clinical trial of adjuvant chemotherapy for radically resected locoregional relapse of breast cancer: IBCSG 27-02, BIG 1-02, AND NSABP B-37. *Clinical Breast Cancer*, **8(3)**, 287-292, June 2008. PMID: 18650162.
73. Rastogi P, Anderson S, Bear H, Geyer C, Kahlenberg M, Robidoux A, Margolese R, Hoehn JL, Vogel V, Dakhil S, Tamkus D, King K, Pajon E, Wright M, Robert J, Mamounas E, Wolmark N. Preoperative Chemotherapy: Updates of National Surgical Adjuvant Breast and Bowel Project (NSABP) Protocols B-18 and B-27. *Journal of Clinical Oncology*, **28(5)**, 778-785, February 10, 2008 (correction published 5/6/2008).
74. Krag DN, Anderson SJ, Julian, TB, Brown, AM, Harlow, SP, Ashikaga, T, Weaver, DL, Miller BJ, Jalovec, LM, Frazier, TG, Noyes, RD, Robidoux, A, Scarth, HMC, Mammolito, DM, McCready, DR, Mamounas, EP, Costantino, JP, Wolmark, N. Initial Technical Outcomes of NSABP B-32, a Randomized Phase III Trial to Compare Sentinel Node Resection to Conventional Axillary Dissection in Clinically Node-Negative Breast Cancer Patients. *Lancet Oncology*. **8**, 881-888, 2007. PM ID: 17851130.
75. Fisher B. and Anderson S. Local therapy and survival in breast cancer. *New England Journal of Medicine* (correspondence). **357(10)**, 1051, September 6, 2007.
76. Dang Q[§], Mazumdar S, Anderson SJ, Houck PR and Reynolds CF. Using trajectories from a bivariate growth curve as predictors in a Cox regression model. *Statistics in Medicine*, **26**, 800-811, 2007.
77. Anderson S. Some thoughts on the reporting of adverse events in phase II cancer clinical trials. *Journal of Clinical Oncology*, **24(24)**, 3821-3822, August 20, 2006.
78. Soran A, Nesbitt L, Mamounas EP, Lembersky B, Bryant J, Anderson S, Brown A and Passarelo, M. Centralized medical monitoring in phase III clinical trials: the National Breast and Bowel Project (NSABP) experience. *Clinical Trials*, **3**, 478-485, 2006. PMID: 17060221.
79. Bear HD, Anderson S, Smith RE, Geyer CE Mamounas EP, Fisher B, Brown AM, Robidoux A, Margolese R, Kahlenberg MS, Paik S, Soran A, Wickerham I, DL, and Wolmark N. A Trial Testing the Effect of Adding Sequential Preoperative or Postoperative Docetaxel (Taxotere) to Preoperative Doxorubicin and Cyclophosphamide (AC) for Operable Breast Cancer: Results from National Surgical Adjuvant Breast and Bowel Project (NSABP) Protocol B-27. *Journal of Clinical Oncology*, **24(13)**, 2019–2027, May 1, 2006.
80. Wapnir IL, Anderson S, Mamounas EP, Geyer CE, Jeong J-H, Tan-Chiu E, Fisher B, and Wolmark N. Prognosis after IBTR and Locoregional Recurrences in Five NSABP Node-Positive Adjuvant Breast Cancer Trials. *Journal of Clinical Oncology*, **24(13)**, 2028–2037, May 1, 2006. PM ID: 16648502.
81. Dang Q[§], Anderson S, Tan L^{§§} and Mazumdar S. Modeling unequally spaced bivariate growth curve data using a Kalman filter approach. *Communications in Statistics, Theory and Methods*, **34(8)**, 1821-1831, 2005.
82. Mor, MK^{§§} and Anderson, S. A Bayesian group sequential approach for multiple endpoints. *Sequential Analysis*, **24**, 1-18, 2005.
83. Mamounas EP, Brown A, Anderson S, Smith R, Julian T, Miller B, Bear HD, Caldwell CB, Walker AP, Mikkelsen WM, Stauffer JS, Robidoux A, Theoret H, Soran A, Fisher B, Wickerham DL, and Wolmark N. Sentinel Node Biopsy After Neoadjuvant Chemotherapy in Breast Cancer: Results From National Surgical Adjuvant Breast and Bowel Project Protocol B-27. *Journal of Clinical Oncology*, **22(21)**, 2694-2702, April 20, 2005.
84. Fisher ER, Anderson S, Dean^{§§} S, Dabbs D, Fisher B, Siderits, R, Pritchard, J, Pereira, T, Geyer, C, and Wolmark, N. Solving the dilemma of the immunohistochemical and other methods used for scoring ER and PR receptors in patients with invasive breast cancer. *Cancer*, 103(1): 164-173, January 1, 2005.
85. Fisher, B, Jeong, J-H, Anderson, S, Wolmark, N. Treatment of Axillary Lymph Node-Negative, Estrogen Receptor-Negative Breast Cancer: Updated Findings from National Surgical Adjuvant Breast and Bowel Project Clinical Trials. *The Journal of the National Cancer Institute*, **96(24)**, 1823-1831, December 15, 2004.
86. Taghian A, Jeong JH, Mamounas E, Anderson S, Bryant J, Deutsch M and Wolmark N. Patterns of Locoregional Failure in Patients with Operable Breast Cancer Treated by Mastectomy and Adjuvant Chemotherapy with or Without Tamoxifen and Without Radiotherapy: Results from Five National Surgical Adjuvant Breast and Bowel Project Randomized Clinical Trials. *Journal of Clinical Oncology*, **22(21)**, 4247-4254, November 1, 2004.
87. Smith, RE, Anderson, SJ, Lembersky, BC, Brown, A and Mamounas, EP. Phase II trial of a doxorubicin and docetaxel doublet for locally advanced and metastatic breast cancer: results from NSABP trial BP-57. *Clinical Breast Cancer*, **5**, 208-215, 2004.
88. Land SR, Kopec JA, Yothers G, Anderson S, Day R, Tang G, Ganz PA, Fisher B and Wolmark N. Health-related quality of life in axillary node-negative, estrogen receptor-negative breast cancer patients undergoing AC versus

- CMF chemotherapy: findings from the National Surgical Adjuvant Breast and Bowel Project B-23. *Breast Cancer Research and Treatment*, **86**, 153-164, 2004.
89. Fisher B, Jeong JH, Bryant J, Anderson S, Dignam J and Wolmark N. Treatment of lymph node-negative, estrogen receptor-positive breast cancer: long-term findings from National Surgical Adjuvant Breast and Bowel Project clinical trials. *The Lancet*, **364**, 858-868, 2004.
 90. Bear, HD, Anderson, S, Brown, A, Smith R, Mamounas, EP, Fisher B, Margolese, R, Theoret, H, Soran, A, Wickerham, DL and Wolmark, N The Effect on Tumor Response of Adding Sequential Preoperative Docetaxel (Taxotere) to Preoperative Doxorubicin and Cyclophosphamide (AC): Preliminary Results from National Surgical Adjuvant Breast and Bowel Project (NSABP) Protocol B-27. *Journal of Clinical Oncology*, **21(22)**, 4165-4174, 2003.
 91. Smith, RE, Bryant, J, DeCillis A, and Anderson, S. Acute myeloid leukemia and myelodysplastic syndrome following doxorubicin-cyclophosphamide adjuvant therapy for operable breast cancer: The NSABP experience. *Journal of Clinical Oncology*, **21(7)**, 1195-1204, 2003.
 92. Fisher, B, Anderson, S and Bryant, J. Breast-conserving surgery for breast cancer: the authors reply. *The New England Journal of Medicine*, **348(7)**, 659-660, 2003.
 93. Smith RE, Anderson SJ, Brown A, Scholnik AP, Desai AM, Kardinal CG, Lembersky BC, and Mamounas EP. Phase II trial of a doxorubicin, docetaxel, and cyclophosphamide triplet for locally advanced and metastatic breast cancer: results from NSABP trial BP-58. *Clinical Breast Cancer* **3(5)**, 333-340, 2002.
 94. Landsittel D, Singh, H, Arena, VC and Anderson, SJ. Null distribution of the likelihood ratio statistic for feed-forward neural networks. *The Journal of Modern Applied Statistical Methods*, **1(2)**, 333-342, 2002.
 95. Fisher B, Anderson S, Bryant J, Margolese RG, Deutsch J, Fisher ER, Jeong J-H. and Wolmark N. Twenty-year follow-up of a randomized trial comparing total mastectomy, lumpectomy, and lumpectomy followed by irradiation for the treatment of invasive breast cancer. *The New England Journal of Medicine*, **347(16)**, 1233-1241, 2002.
 96. Fisher B, Anderson S and Bryant J. Radical and simple mastectomy: the authors reply. *The New England Journal of Medicine*, **347(26)**, 2171, 2002.
 97. Fisher, B., Jeong, J.H., Anderson, S., Bryant, J., Fisher, E.R. and Wolmark, N. Twenty-five-year follow-up of a randomized trial comparing radical mastectomy, and total mastectomy followed by irradiation. *The New England Journal of Medicine*, **347(8)**, 567-575, 2002.
 98. Farrington, D.P., Loeber, R., Yin, Y., and Anderson, S. Are within-individual causes of delinquency the same as between-individual causes? *Criminal Behaviour and Mental Health*, **12**, 53-68, 2002.
 99. Landsittel, D., Singh, H., Arena, V.C. and Anderson, S.J. A Comment on Fay, M.P. (2002) "Measuring a Binary Response's Range of Influence in Logistic Regression", *The American Statistician*, **56**, 5-9. *The American Statistician*, **56(4)**, 337-338, 2002.
 100. Fisher, B., Jeong, J.H., Dignam, J., Anderson, S., Mamounas, E., Wickerham, D.L. and Wolmark, N. Findings from recent National Surgical Adjuvant Breast and Bowel Project adjuvant studies in stage one breast cancer. *Journal of the National Cancer Institute Monographs*, **30**, 62-66, 2001.
 101. Fisher, E.R., Anderson, S., Tan-Chiu, E., Fisher, B., Eaton, L. and Wolmark, N. Fifteen year prognostic discriminants for invasive breast cancer: NSABP Protocol B-06. *Cancer*, **91(8)**, 1679-1687, 2001.
 102. Fisher, B., Anderson, S., Tan-Chiu, E., Wolmark, N., Wickerham, D.L., Fisher, E.R., Dimitrov, N.V., Atkins, J.N., Abramson, N., Merajver, Sofia, Romond, E.H., Kardinal, C.G., Shibata, H.R., Margolese, R.G. and Farrar, W.B. Tamoxifen and chemotherapy for axillary node negative, estrogen receptor-negative breast cancer: findings from the National Surgical Breast and Bowel Project B-23. *Journal of Clinical Oncology*, **93(4)**, 931-942, 2001.
 103. Fisher B, Dignam J, Tan-Chiu E, Anderson S, Fisher E and Wolmark, N. Prognosis and treatment of patients with breast tumors of ≥ 1 cm and negative axillary nodes. *Journal of the National Cancer Institute*, **93(2)**, 112-120, 2001.
 104. Tian W^{§§} and Anderson SJ. Markov chain models for multivariate repeated binary data analysis. *Communications in Statistics, Simulation and Computation*, **29(4)**, 1001-1020, 2000.
 105. Loeber, R., Drinkwater, M., Yin, Y^{§§}, Anderson, S. and Schmidt, L.C. Stability of family interaction from ages 6 to 18. *Journal of Abnormal Psychology*, **28(4)**, 353-369, 2000.
 106. Fisher, B., Anderson, S., Decillis, D., Dimitrov, N., James N. Atkins, J.N. Fehrenbacher, L., Henry P.H., Romond, E.H., Lanier, K.S., Davila, E., Kardinal, C.G., Laufman, L., Pierce, H.I., Abramson, N. Keller, A.M., Hamm, J.T., Wickerham, D.L., Begovic, M., Tan-Chiu, E. Tian, W. Wolmark, N. Further evaluation of intensified and increased total dose of cyclophosphamide for the treatment of primary breast cancer: findings from National Surgical Adjuvant Breast and Bowel Project B-25. *Journal of Clinical Oncology*, **17(5)**, 3374-3388, 1999.
 107. Smith R, Brown A, Mamounas EP, Anderson SJ, Lembersky BC, et al. A randomized trial of 3-hour vs 24-hour infusion of high-dose paclitaxel in patients with metastatic or locally advanced breast cancer: National Surgical Adjuvant Breast and Bowel Project Protocol B-26. *Journal of Clinical Oncology*, **17(11)**, 3403-3411, 1999.
 108. Costantino JP, Gail MH, Pee D, Anderson S, Redmond CK., Benichou J and Wieand HS. Validation studies for models to project the risk of invasive breast cancer and total breast cancer incidence. *The Journal of the National Cancer Institute*, **91(18)**, 1541-1548, 1999.

109. Gregg, EW[§], Kriska, AM, Salamone, LM, Wolf, RL, Roberts, MM, Ferrell, RE, Anderson, S.J., Kuller, LH, Cauley, JA. Correlates of quantitative ultrasound in a population of pre- and peri-menopausal women. *Osteoporosis International*, **10**, 416-424, 1999.
110. Ahnn S^{§§} and Anderson S. Sample size determination in complex clinical trials comparing more than two groups for survival endpoints. *Statistics in Medicine*, **17**, 2525-2534, 1998.
111. Chen, T.T., Simon, R., Korn, E.L., Anderson, S., Lindblad, A.S., Wieand, H.S., Douglas, H.O., Fisher, B., Hamilton, J., Friedman, M. Investigation of disease-free survival as a surrogate for survival in cancer clinical trials. *Comm. Stat A*, **27**, 1363-1378, 1998.
112. Fisher, B., Anderson, S., Wickerham, D.L., Decillis, A., Dimitrov, N., Mamounas, E., Wolmark, N., Pugh, R., Atkins, J.N., Meyers, F.J., Abramson, N., Wolter, J., Bornstein, R.S., Levy, L., Romond, E.H., Caggiano, V., Grimaldi, M., Jochimsen, P. and Deckers, P. Increased intensification and increased total dose of cyclophosphamide in a doxorubicin-cyclophosphamide regimen for the treatment of primary breast cancer: findings from NSABP B-22. *Journal of Clinical Oncology*, **15(5)**, 1858-1869, 1997.
113. Gregg, EW[§], Kriska, AM, Salamone, L.M., Roberts, M.M., Anderson, S.J., Ferrell, R.E., Kuller, LH, Cauley, JA. The epidemiology of quantitative ultrasound: a review of the relationships with bone mass, osteoporosis and fracture risk. *Osteoporosis International*, **7**, 89-99, 1997.
114. Anderson, S., Fisher, B. and Wieand, H.S. A comment on the rates of ipsilateral breast tumor recurrence (IBTR) on NSABP Protocol B-06 (Correspondence). *World Journal of Surgery*, **20(4)**, 514-515, May 1996.
115. Redmond, C, Costantino, J., and Anderson, S. Statistical concepts and biomedical research. *Urologic Oncology*, **2**, 166-170, 1996.
116. Fisher B, Anderson S, Redmond C. Surgery for early breast cancer. *The New England Journal of Medicine*, **334**, 987-988, 1996.
117. Fisher, B., Anderson, S., Redmond, C., Wolmark, N., Wickerham, D.L., and Cronin, W. Reanalysis and results after twelve years of follow-up in of a randomized clinical trial comparing total mastectomy to lumpectomy with and without irradiation in the treatment of breast cancer. *The New England Journal of Medicine*, **333**, 1456-1461, 1995.
118. Glynn NW[§], Meilahn EN, Charron M, Anderson SJ, Kuller LH and Cauley JA. Determinants of bone mineral density in older men. *Journal of Bone Mineral Research*, **10(11)**, 1769-1777, 1995.
119. Boylstein LA^{§§}, Anderson SJ, Thompson RD, Alarie Y. Characterization of the effects of an airborne mixture of chemicals on the respiratory tract and smoothing polynomial spline analysis of the data. *Archives of Toxicology*, **69**, 579-589, 1995.
120. Anderson S, Costantino J, Brown A, Bryant J, Cronin W, Dignam J, Jones J, Rockette H and Wieand HS. Response to Breast Cancer Trials on Trial: A Case of Conflicting Ethical Interests. *Cancer*, 1294-1295, 1995.
121. Ahnn, S^{§§} and Anderson SJ. Sample size calculations for comparing k survival distributions. *Statistics in Medicine*, **14**, 2273-2282, 1995.
122. Dignam J[§], Weissfeld LA and Anderson SJ. Methods for bounding the marginal survival distribution. *Statistics in Medicine*, **14**, 1985-1998, 1995.
123. Anderson SJ and Jones RH. Smoothing splines for longitudinal data. *Statistics in Medicine*, **14**, 1235-1248, 1995.
124. Mamounas, E.P., Anderson, S.J., Wickerham, D.L., Clarke, R. Stoller, R., Ham J.T., Stewart J.A., Bear, H.B., Glass, A.G., Bornstein, R., and Fisher, B. Efficacy of RHu-CSF and RHu GM-CSF in permitting the administration of higher doses cyclophosphamide in a doxorubicin-cyclophosphamide combination: An NSABP pilot study in patients with metastatic or high-risk primary breast cancer. *The American Journal of Clinical Oncology* **17(5)**, 374-381, 1994.
125. Fisher, B. and Anderson, S. Conservative surgery for the management of invasive and noninvasive carcinoma of the breast: NSABP trials. National Surgical Adjuvant Breast and Bowel Project. *World Journal of Surgery*, **18(1)**, 63-69, 1994.
126. Fisher, E.R., Anderson, S.J., Redmond, C. and Fisher, B. Pathological findings from the National Surgical Adjuvant Breast Project. *Cancer* **71(8)**, 2507-2514, 1993.
127. Vogt M[§], McKenna M, Anderson SJ, Wolfson SK, Kuller LH. The relationship between ankle arm index and mortality in older men and women. *Journal of the American Geriatric Society* **41**, 523-530, 1993.
128. Fisher, E.R., Anderson, S.J., Redmond, C. and Fisher, B. Ipsilateral breast tumor recurrence following lumpectomy and irradiation: pathological findings from NSABP Protocol B-06. *Seminars in Surgical Oncology*, **8**, 161-166, 1992.
129. Fisher, B., Wickerham, D.L., Deutsch, M., Anderson, S.J., Redmond, C., Fisher, E.R. Breast tumor recurrence following lumpectomy with and without breast irradiation: an overview of recent NSABP findings. *Seminars in Surgical Oncology*, **8**, 153-160, 1992.
130. Fisher, B., Anderson, S., Fisher, E., Redmond, C., et al. The significance of breast tumor recurrence following lumpectomy for the treatment of breast cancer: findings from NSABP B-06. *The Lancet*, **338**,

- 327-331, 1991.
131. Fisher ER, Leeming, R, Anderson, SJ, Redmond C and Fisher, B. Conservative management of intraductal carcinoma (DCIS) of the breast. *Journal of Surgical Oncology*, **47**, 139-147, 1991.
 132. Anderson SJ, Jones RH, and Swanson GD. Smoothing polynomial splines for bivariate data. *SIAM Journal of Scientific and Statistical Computing* **11(4)**, 749-766, 1990.
 133. Sherrill DL, Anderson SJ and Swanson GD. Using smoothing splines for detecting ventilatory threshold. *Medicine and Science in Sports and Exercise* **22(5)**, 684-689, 1990.
 134. Wade TD, Anderson SJ, Bondy J, Ramadevi VA, Jones RH, and Swanson, GD. Using smoothing splines to make inference about metabolic CO₂ production. *Computers and Biomedical Research* **21**, 16-26, 1988.
 135. Peterson VM, Murphy JR, Haddix T, Anderson SJ, and Bartle EJ. Identification of novel prognostic indicators in burned patients. *The Journal of Trauma* **28(5)**, 632-637, 1988.
 136. Anderson, SJ, Hughson RL, Sherrill DL, and Swanson GD. Determination of the "anaerobic threshold". *Journal of Applied Physiology* **60**, 2135-2137, 1986.
 137. Wallner S, Vaurin R, Murphy J, Anderson S., and Peterson V. The haematopoietic response to burning: studies in an animal model. *Burns* **10**, 236-251, 1984.

2. Books and Book Chapters

BOOK

Anderson, SJ. *Biostatistics: A Computing Approach*, Taylor & Francis Group, LLC, Boca Raton, FL, 2011. ISBN 978-1-58488-834-5.

BOOK CHAPTERS

1. Anderson SJ. Longitudinal study designs. To appear in *Handbook of Research Methods in Health Social Sciences*, Pranee Liamputtong, editor, Springer-Verlag, 2018.
2. Thompson, WK, Anderson, SJ and Choi, J-I. Clinical prediction models. In *Late-Life Mood Disorders*, Oxford University Press, 2012
3. Costantino JP, Anderson S, Yothers G. Statistical design and analysis of phase III clinical trials. Chapter 37 in *Kuerer's Breast Surgical Oncology Mamounas EP Ed*, McGraw-Hill, New York, NY, 2010.
4. Anderson, SJ and Swanson, GD. A respiratory controller structure: implications of Comroe's clogging theory. In *Abstracts Julius H. Comroe Memorial Symposium*, Philadelphia, Pennsylvania, 1987.

3. Published Proceedings

1. Yin Y^{§§}, Anderson SJ. Nonparametric tree-structured modeling for interval-censored survival data. *American Statistical Association Proceedings of the Biopharmaceutical Section*, New York, NY. August, 2002.
2. Yin Y^{§§}, Anderson SJ. Exponential tree-structured modeling for interval-censored survival data. *American Statistical Association Proceedings of the Biopharmaceutical Section*, Atlanta, GA. August, 2001.
3. Boylstein LA^{§§}, Anderson SJ, Alarie Y. Comparison of smoothing methods when applied to respiratory data collected in mice exposed to an aerosolized machining fluid. *American Statistical Association Proceedings of the Biopharmaceutical Section*, Toronto, ON, August, 1994.
4. Anderson SJ, Meng C, and Nelson DE. Use of smoothing polynomial splines in inverse prediction. *American Statistical Association Proceedings of the Biopharmaceutical Section*, Washington, D.C., Aug 6-10, 1989, 166-170.
5. Nelson DE, Meng C., and Anderson SJ. A New Approach to Estimating the pA_2 in Drug-Receptor Studies. *American Statistical Association 1989 Proceedings of the Biopharmaceutical Section*, Washington, D.C., August 6-10, 1989, 199-204.
6. Anderson SJ, Sherrill DL, Jones RH, and Swanson GD. Estimation of anaerobic threshold during exercise stress testing. *Rocky Mountain One Day Conference on Medical Applications of Statistics* **II**, 76-81, 1984.

4. Invited Articles

1. Fisher B, Anderson S, Decillis A and Dimitrov N. Further evaluation of intensified and increased total dose of cyclophosphamide for the treatment of primary breast cancer: findings from National Surgical Adjuvant Breast and Bowel Project B-25. *Journal of Clinical Oncology, Classic Papers and Current Comment* **5(4)**,

703-718, 2001.

- Fisher, B., Anderson, S., Wickerham, D.L., Decillis, A., Dimitrov, N., Mamounas, E., Wolmark, N., Pugh, R., Atkins, J.N., Meyers, F.J., Abramson, N., Wolter, J., Bornstein, R.S., Levy, L., Romond, E.H., Caggiano, V., Grimaldi, M., Jochimsen, P. and Deckers, P. Increased intensification and increased total dose of cyclophosphamide in a doxorubicin-cyclophosphamide regimen for the treatment of primary breast cancer: findings from NSABP B-22. *Journal of Clinical Oncology, Classic Papers and Current Comment* **5(4)**, 669-681, 2001.

5. Review Articles

Fisher B and Anderson S. Lumpectomy for the treatment of breast cancer: a brief commentary. *Advances in Oncology: Controversies in Breast Cancer*. 2000.

Anderson SJ. Longitudinal Research Design. *To appear in The SAGE Encyclopedia of Abnormal and Clinical Psychology*.

Anderson SJ. Intent-to-Treat. *To appear in The SAGE Encyclopedia of Abnormal and Clinical Psychology*

6. Published Abstracts

Wapnir I, Price KN, **Anderson SJ**, Mamounas EP, Robidoux A, Martín M, Nortier JWR, et al. Poor prognosis after second locoregional recurrences in the CALOR trial. *Abstract 513, ASCO Meetings, Chicago IL, June 2-6, 2017*.

Potter AN^{§§}, Anderson SJ, Teuteberg JJ, Kormos RL, and Holtz JE. Log Files from the HVAD: What can daily and long-term changes in flow tell us about patients? International Society for Heart and Lung Transplantation (ISHLT), Washington DC, April 27-30, 2016.

Potter AN^{§§} and Anderson SJ. Multivariate multiscale functional data analysis. *ENAR Spring Meetings, Austin TX* March 6-9, 2016.

He F[§], Mazumdar S, Tang G, Anderson SJ. Nonparametric MANOVA approaches for non-normal multivariate outcomes with missing values. Biometric Society (ENAR), Baltimore, MD, Mar 16 – 19, 2014.

Julian TB, Anderson SJ, Krag DN, Weaver DL, Costantino JP, Ashikaga T, Harlow SP, Mamounas EP, Wolmark N. 10-yr follow-up results of occult detected sentinel node disease: NSABP B-32, a randomized phase III clinical trial to compare sentinel node resection (SNR) to conventional axillary dissection (AD) in clinically node-negative breast cancer patients. *Cancer Res.*; 73(24 Suppl): Abstr. S2-05, Dec 15, 2013.

Coleman R, Gnant M, Paterson A, Powles T, von Minckwitz G, Pritchard K, Bergh J, Bliss J, Gralow J, Anderson S, Evans V, Pan H, Bradley R, Davies C, Gray R, On Behalf of the Early Breast Cancer Trialists' Collaborative Group (EBCTCG)'s Bisphosphonate Working Group. Effects of bisphosphonate treatment on recurrence and cause-specific mortality in women with early breast cancer: A meta-analysis of individual patient data from randomised trials. *Cancer Res.*; 73(24 Suppl): Abstr. S4-07, Dec 15, 2013.

Cobleigh MA, Anderson SJ, Julian TB, Siziopikou KP, Arthur DW, Rabinovitch R, Zheng P, Mamounas EP, Wolmark N. NSABP B-43: A phase III clinical trial to compare trastuzumab (T) given concurrently with radiation therapy (RT) to RT alone for women with HER2+ DCIS resected by lumpectomy (Lx). *Cancer Res.*; 73(24 Suppl): Abstr. OT2-3-02, Dec 15, 2013.

Cecchini RS, Swain SM, Costantino JP, Rastogi P, Jeong J-H, Anderson SJ, Tang G, Geyer CE, Lembersky BC, Romond EH, Paterson AHG, Wolmark N. Body mass index at diagnosis and breast cancer survival prognosis among clinical trial populations: Results from NSABP B-30, B-31, B-34, and B-38. *Cancer Res.*; 73(24 Suppl): Abstr. PD2-1, Dec 15, 2013.

Julian TB, Anderson SJ, Krag DN, Harlow SP, Costantino JP, Ashikaga T, Weaver D, Mamounas EP, Wolmark N. NSABP Protocol B-32: A Randomized, Phase III Clinical Trial to Compare Sentinel Node Resection to Axillary Dissection in Clinically Node-Negative Breast Cancer Patients - A 10-year update. Presented at: ASCO; 2013 May 31-Jun 4; Chicago, IL. *Chosen as one of the "Best of ASCO" presentations*.

Cobleigh MA, Anderson SJ, Julian TB, Siziopikou KP, Arthur DW, Rabinovitch R, Zheng P, Mamounas EP, Wolmark N. NSABP B-43: A Phase III Clinical Trial Comparing Trastuzumab Given Concurrently with Radiation Therapy to Radiation Alone for Women with HER2-Positive DCIS Resected by Lumpectomy. Poster presented at: Annual meeting, American Society of Clinical Oncology (ASCO); 2013 May 31-Jun 4; Chicago, IL.

Ling Y^{§§}, Anderson SJ, Bilonick RA, Wollstein C. Detection of outliers and influential points in multivariate longitudinal

models. *Biometric society, Eastern North American Region* 2013; Orlando, FL, Mar 10-13, 2013.

Ling Y^{§§}, Anderson SJ. Detection of outliers and influential points in multivariate longitudinal models. Presented at: 2013 Midwest Biopharmaceutical Statistics Workshop; 2013 May 20-22; Ball State University, Muncie, Indiana.A,

Aebi S, Gelber S, Láng I, Anderson SJ, Robidoux A, Martín M, Nortier JWR, Mamounas EP, Geyer CE Jr, Maibach R, Gelber RD, Wolmark N, Wapnir I. Chemotherapy prolongs survival for isolated local or regional recurrence of breast cancer: The CALOR Trial (Chemotherapy as Adjuvant for Locally Recurrent Breast Cancer; IBCSG 27-02, NSABP B-37, BIG 1-02). *Cancer Res.*; 72(24 Suppl): Abstr. S3-2, Dec 15, 2012.

Cobleigh M, Anderson SJ, Julian TB, Siziopikou KP, Arthur DW, Rabinovitch R, Zheng P, Mamounas EP, Wolmark N. NSABP B-43: A phase III clinical trial to compare trastuzumab given concurrently with radiation therapy to RT alone for women with HER2+ DCIS resected by lumpectomy. Ongoing trials poster. *Cancer Res.* 2012 Dec 15;72(24 Suppl): Abstr. OT1-02-01.

Li X^{§§}, Anderson SJ, Shiffman S. Clustering-imputation application on partially observed ecological momentary data - a novel application to identify clusters in stochastic events process. *Joint Statistical Meetings* San Diego, CA, July 28 - August 2, 2012.

Paterson AHG, Anderson SJ, Lembersky BC, Fehrenbacher L, Falkson CI, King KM, Weir LM, Brufsky AM, Dakhil S, Lad T, Baez-Diaz L, Gralow JR, Robidoux A, Perez EA, Zheng P, Geyer CE, Swain SM, Costantino JP, Mamounas EP, Wolmark N. NSABP protocol B-34: A clinical trial comparing adjuvant clodronate vs. placebo in early stage breast cancer patients receiving systemic chemotherapy and/or tamoxifen or no therapy—final analysis. *Abstract S2-3, San Antonio Breast Cancer Symposium Dec 6-10, 2011; Cancer Res* 71(24 Suppl) December 15, 2011.

Julian TB, Anderson SJ, Cobleigh MA, Siziopikou KP, Arthur DW, Zheng P, Mamounas EP, Pajon ER, Behrens RJ, Chu L, Leasure NC, Atkins JN, Polikoff J, Seay TE, McCaskill-Stevens W, Rabinovitch R, Wolmark N. A phase III clinical trial comparing trastuzumab given concurrently with radiation therapy to radiation therapy (rt) alone for women with HER2-positive DCIS resected by lumpectomy: NSABP B-43. *Abstract OT1-02-05, San Antonio Breast Cancer Symposium Dec 6-10, 2011; Cancer Res* 71(24 Suppl) December 15, 2011.

Shen K, Tang G, Kim C, Pogue-Geile K, Anderson SJ, Costantino JP, Bear HD, Song N, Tian C, Gabrin MJ, Zhang Y, Geyer, Jr CE, Wolmark N. A genomic predictor developed from breast cancer cell lines predicts both disease-free survival and overall survival in breast cancer patients treated with doxorubicin and cyclophosphamide: a collaborative project of the NSABP and Precision Therapeutics, *Abstract P1-06-15, San Antonio Breast Cancer Symposium Dec 6-10, 2011; Cancer Res* 71(24 Suppl) December 15, 2011.

Siziopikou K, Cobleigh M, Anderson SJ, Julian TB, Arthur DW, Zheng P, Mamounas EP, Pajon ER, Behrens RJ, Bury MJ, Chu L, Leasure NC, Atkins JN, Polikoff J, Seay TE, McCaskill-Stevens W, Paik S, Rabinovitch R, Wolmark N. Preliminary Results of Centralized HER-2 Testing in DCIS of the breast: NSABP B-43. *Abstract #588, 2011 ASCO Annual Meeting Proceedings*, Chicago, IL, June 4–8, 2011.

Shen K, Tang G, Costantino JP, Anderson SJ, Kim C, Pogue-Geile K, Song N, Gabrin MJ, Geyer CE, Wolmark N. Multigene Predictors developed on breast cancer cell lines to predict patient chemotherapy response: a validation study on the NSABP B-27 Trial. *Abstract #1029, 2011 ASCO Annual Meeting Proceedings*, Chicago, IL, June 4–8, 2011.

Julian TB, Anderson SJ, Golesorkhi N, Fourchotte V, Mamounas EP and Wolmark N. Prospective Outcomes for Patients with Micro-metastases and Macro-metastases in Sentinel Nodes: NSABP B-32 Sentinel Node Trial, *Abstract S5-1, 33rd Annual San Antonio Breast Cancer Symposium*, San Antonio, TX, December 8-12, 2010.

Krag D, Anderson S, Julian TB, Brown A, Harlow S, Costantino J, Ashikaga T, Weaver D, Mamounas E, Wolmark N. Primary outcome results of NSABP B-32, a randomized phase III clinical trial to compare sentinel node resection (SNR) to conventional axillary dissection (AD) in clinically node-negative breast cancer patients. *ASCO*, Chicago, IL, June 4–8, 2010.

Tanaka, Y^{§§}, Anderson, S and Sampson AR. A two-stage dose-response adaptive design method for establishing proof of concept. *Biometric Society, ENAR 2010 Spring Meeting*, Session 26, New Orleans, LA, March 21–24, 2010.

Atem, FD^{§§} and Anderson S. Rationale for choosing explicit correlation structure in a multilevel analysis with bivariate outcomes. *Biometric Society, ENAR 2010 Spring Meeting*, Session 111, New Orleans, LA, March 21–24, 2010.

Lotz, MJ^{§§}, Anderson, SJ and Mazumdar, S. Incorporating rate of change into tree structured models with time varying covariates. *Biometric Society, ENAR 2009 Spring Meeting*, Session 92, San Antonio, TX, March 15–18, 2009.

Yuan, X^{§§} and Anderson, SJ. A meta-analytic framework for combining incomparable cox proportional hazard models caused by omitting important covariates. *Biometric Society, ENAR 2009 Spring Meeting*, Session 104, San Antonio, TX, March 15–18, 2009.

Ko F-S^{§§} and Anderson SJ, Assessing the Effectiveness of Potential Longitudinal Biomarkers in Multivariate Survival Analysis. *Biometric Society, ENAR 2006 Spring Meeting*, Session 51, Tampa, FL, March 28, 2006.

Li, J^{§§} and Anderson S. Multiple Imputation in Survival Analysis with Incomplete Covariates. *Biometric Society, ENAR 2006 Spring Meeting*, Session 64, Tampa, FL, March 28, 2006.

- Julian TB, Anderson S, Brown A, Bear H, Krag D, Harlow S, Ashikaga T, Weaver D, Miller B, Jalovec L, Frazier T, Dirk-Noyes R, Robidoux A, Scarth H, Mammolito D, McCready D, Mamounas EP, Costantino J, Bryant J, and Wolmark N. Continued Technical Results of NSABP B-32: Does a Positive Sentinel Node Biopsy Require an Axillary Dissection? *San Antonio Breast Cancer Symposium*, Abstract # 20, San Antonio, TX, December 9, 2005.
- Wapnir I., Anderson S., Mamounas E., Geyer C., Jeong J-H, Costantino J., Fisher, B., Wolmark N. Survival after IBTR in NSABP node negative protocols B-13, B-14, B-19, B-20 and B-23. Abstract #517, *Journal of Clinical Oncology*, **23(16S)**, 41st meeting of the *American Society of Clinical Oncology*, Orlando, FL, May 13-17, 2005.
- Dang Q[§], Mazumdar S, and Anderson SJ. Using Trajectories from a Bivariate Growth Curve of Covariates in a Cox Model Analysis. *Biometrics Society ENAR 2005 Spring Meeting*, Austin, TX. March 20-March 23, 2005.
- Bear HD, Anderson S, Smith RE, Robidoux A, Kahlenberg MS, Margolese RG, Dakhil SR, Pajon ER, Hoehn JL, Mamounas EP, Geyer CE, Julian, Wolmark N. A randomized trial comparing preoperative (preop) doxorubicin/cyclophosphamide (AC) to preop AC followed by preop docetaxel (T) and to preop AC followed by postoperative (postop) T in patients (pts) with operable carcinoma of the breast: results of NSABP *San Antonio Breast Cancer Symposium, Presentation #26*, December 10, 2004.
- Mor, MK^{§§} and Anderson S. A Bayesian Sequential Procedure for Multiple Treatment Outcomes. *Biometrics Society ENAR Annual Meeting*, Tampa, FL. March 30-April 2, 2003.
- Yin, Y^{§§}, Anderson, S.J. Nonparametric tree-structured modeling for interval-censored survival data. *American Statistical Association Summer Meetings*, New York, NY. 3877-3882. August, 2002.
- Yin, Y^{§§}, Anderson, S.J. Exponential tree-structured modeling for interval-censored survival data. *American Statistical Association Summer Meetings*, Atlanta, GA. August, 2001.
- Smith, R., Anderson, S., Lembersky, B., Dimitrov, N., Desai, C., Kardinal, C. and Mamounas, E. Phase II Trial Doxorubicin, Docetaxel and Cyclophosphamide Triplet (ATC) for Locally Advanced and Metastatic Breast Cancer: Preliminary Results from NSABP BP-58. *Proceedings of the American Society of Clinical Oncology*, **20**, p. 188, May 2001.
- Ezzeddine, R., Anderson, S., Smith, R., Brown, A. Is tumor response a good marker of treatment efficacy? *Proceedings of the Twenty-second Annual Meeting of the Society for Clinical Trials*, April 2001.
- Fisher, B., Anderson, S., Wolmark, N., Tan-Chiu, E. Chemotherapy With or Without Tamoxifen for Patients with ER Negative Breast Cancer and Negative Nodes: results from NSABP B23. *Proceedings of the American Society of Clinical Oncology*, **19**, p. 72a, May 20 - 23, 2000.
- Wapnir, I., Anderson, S., Tan-Chiu, E., Mamounas, E., Flynn, P., Dakhil, S. Hoehn, J., Seay, D., Wickerham, D., Fisher, B. and Wolmark, N. Ipsilateral Breast Tumor Recurrence (IBTR) and Survival in NSABP Node-Positive Breast Cancer Protocols. *Proceedings of the American Society of Clinical Oncology*, **19**, p. 82a, May 20 - 23, 2000.
- Lembersky, B., Anderson, S., Smith, R., Brown, A., Nesbitt, L., Aikin, J., Fehrenbacher, L., Jochimsen, P., Thirlwell, M., Mamounas, E. Phase II Trial Doxorubicin and Docetaxel for Locally Advanced and Metastatic Breast Cancer: Preliminary Results from NSABP BP-57. *Proceedings of the American Society of Clinical Oncology*, **19**, p. 104a, May 20 - 23, 2000.
- Anderson SJ, Dignam J[§]. Addressing the Concerns of a Skeptic: Design Issues in Randomized Clinical Trials. *Biometrics Society ENAR Annual Meeting*, Atlanta, GA. March 28-30, 1999.
- Decillis, A., Anderson, S., Bryant, J., Wickerham, D.L., Fisher, B. Acute myeloid leukemia (AML) and myelodysplastic syndrome (MDS) on NSABP B-25: an update. *American Society of Clinical Oncology*, May, 1997.
- Whiteman, P^{§§}, Ahnn S^{§§} and Anderson S. Evaluation of sample size estimates for time to event outcomes in complex clinical trials. *Biometrics Society ENAR Annual Meeting*, Memphis, TN. March 23-26, 1997.
- Decillis, A., Anderson, S., Wickerham, D.L., Fisher, B. Acute myeloid leukemia (AML) in NSABP B-25. *American Society of Clinical Oncology*, Los Angeles, CA, May 20-23, 1995.
- Dimitrov, N., Anderson, S., Fisher, B., Redmond, C., Wickerham, D.L., Pugh, R., Spurr, C., Goodnight, Jr. J., Abramson, N., and Wolter, J. Dose intensification and increased total dose of adjuvant chemotherapy for Breast Cancer (BC): Findings from NSABP Protocol B-22. *American Society of Clinical Oncology*, May, 1994.
- Ahnn, S.^{§§} and Anderson, S.J. Sample size calculations for comparing k survival distributions. *1994 Biometrics Society's ENAR spring meeting*, Cleveland, OH.
- Anderson, S.J., Costantino, J., Redmond, C.K., Ahnn S.^{§§} and Fisher, B. Rationale of the risk assessment model for determining participant eligibility for the NSABP Breast Cancer Prevention Trial. Presented by me at the *American Public Health Association's 1993 Annual meeting*, San Francisco, CA, October, 1993.
- Anderson, S.J. and Swanson, G.D. An approach to modelling simultaneous measurements using multivariate splines. *1993 Biometrics Society's ENAR spring meeting*, Philadelphia, PA, March, 1993.
- Dimitrov, N., Stoller, R., Hamm, J., Glass, A., Bear, H., Foster, R, Bornstein, R., Wickerham, D.L., Anderson, S., Mamounas, E., Fisher, B. An NSABP pilot study evaluating GM-CSF and G-CSF used with high-dose chemotherapy. *Proceedings from the American Society*

of *Clinical Oncology*, 12:138 (abstract #352), 1993.

Gollin, S.M., Cen, H., Storto, P.L., Wyman, P., Anderson, S.J., Herberman, M.A., Nalesnik, J., Locker, M.H., and McKnight, J. Consistent nonclonal cytogenetic abnormalities in posttransplant lymphoproliferative disease. *American Journal of Human Genetics*, **47(3 Suppl)**, A7 (1990).

7. Selected Presentations

Anderson S. TNM Staging of Breast Cancer Refinements Using Data from the NSABP: A Brief Progress Report. Presented at the *Annual Meeting of the American Joint Committee on Cancer*, Chicago, IL September 29, 2007

Anderson, S.J. . Monitoring Clinical Trials in Oncology: Some Issues and Challenges. Presented at the *2004 Society for Clinical Trials meeting*, New Orleans, LA, May 24, 2004 (invited).

Mor, MK^{§§} and Anderson S. A Bayesian Sequential Procedure for Multiple Treatment Outcomes. *Biometrics Society ENAR Annual Meeting*, Tampa, FL. Presented by me on April 1, 2003.

Anderson S.J, Dignam J[§]. Addressing the Concerns of a Skeptic: Design Issues in Randomized Clinical Trials. Presented by me at *Biometrics Society ENAR Annual Meeting*, Atlanta, GA. March 30, 1999.

Anderson, S.J., Costantino, J., Redmond, C. and Freedman, L. Global monitoring of prevention trials: the Breast Cancer Prevention Trial (BCPT) experience (invited). Presented by me at the *1997 Society of Clinical Trials meeting*, Boston, MA, July 10, 1997.

Ahnn, S.^{§§} and Anderson, S.J. Sample size calculations for comparing k survival distributions. Presented by me at the *1995 Biometrics Society's ENAR spring meeting*, Birmingham, AL, March 28, 1995.

Anderson, S.J. Ipsilateral breast tumor recurrence in relation to distant disease on NSABP Protocol B-06 (Invited). Presented by me at *An Appraisal of Clinical Research for the Treatment of Early Breast Cancer: A National Cancer Institute Workshop*, Bethesda, MD, November 15, 1994.

Anderson, S.J., Costantino, J., Redmond, C.K., Ahnn S.^{§§} and Fisher, B. Rationale of the risk assessment model for determining participant eligibility for the NSABP Breast Cancer Prevention Trial. Presented by me at the *American Public Health Association's 1993 Annual meeting*, San Francisco, CA, October 26, 1993.

Anderson, S.J. and Swanson, G.D. An approach to modelling simultaneous measurements using multivariate splines. Presented by me at the *1993 Biometrics Society's ENAR spring meeting*, Philadelphia, PA, March 22, 1993.

Anderson, S.J. An approach to modelling simultaneous measurements using multivariate splines. Presented by me at *Carnegie Mellon University*, Pittsburgh, PA, April 29, 1992.

Anderson, S.J. and Jones, R.H. Smoothing splines for longitudinal data. Presented by me at the *1992 Biometrics Society's ENAR spring meeting*, Cincinnati, OH, March 23, 1992.

Anderson, S.J. and Jones, R.H. Smoothing splines for longitudinal data. Presented by me at the *NSF / NBER Time Series Conference*, Pittsburgh, PA, September 28, 1991.

Anderson, S.J., Weissfeld, L.A. Use of a smooth cumulative hazard estimator for model selection in survival analysis. Presented by me at the *1991 Biometrics Society's ENAR spring meeting*, Houston, TX, March 23, 1991.

Anderson, S.J., Meng, C., and Nelson, D.E. Use of Smoothing Polynomial Splines in Inverse Prediction. Presented by me at the *1989 American Statistical Association's summer meeting*, Washington, D.C., August 10, 1989.

8. Non-Print Media

Anderson, S. Class notes for Biostatistics 2096. A web-based set of lectures distributed on the *University of Pittsburgh Department of Biostatistics Web* and *Pitt Course Web*.

Anderson, S. Class notes for Biostatistics 2086. A web-based set of lectures distributed on the *University of Pittsburgh Department of Biostatistics Web* and *University of Pittsburgh Course Web*.

Anderson, S. Class notes for Biostatistics 2052. A web-based set of lectures distributed on the *University of Pittsburgh Department of Biostatistics Web*.

Anderson, S. Class notes for Biostatistics 2042. A web-based set of lectures distributed on the *University of Pittsburgh Course Web*.

9. Other Publications

1. Yin, Y^{§§}, Anderson, SJ. Exponential tree-structured modeling for interval-censored survival data. *Dept. of Biostatistics, University of Pittsburgh, Technical Report - Methods #33*, 2001.
2. Tian W^{§§} and Anderson SJ. Markov chain models for multivariate repeated binary data analysis. *Dept. of Biostatistics, University of Pittsburgh, Technical Report - Methods #30*, 1999.
3. Anderson SJ and Weissfeld LA. Use of a cumulative hazard estimator for analyzing censored data. *Dept. of Biostatistics, University of Pittsburgh, Technical Report - Methods #14*, 1993.
4. Anderson SJ. Applications of smoothing polynomial splines to modelling univariate, bivariate, and growth curve data. *Ph.D. Dissertation*, University of Colorado Health Sciences Center, Denver, Colorado, May, 1987.
5. Anderson SJ. Time series models and forecasts for electrical power demand for utilities in Kansas. *The University of Kansas Center for Research, Inc.*, 1981.
6. Anderson SJ and Heidebrecht, T. Quick-look forecast. *The University of Kansas Center for Research, Inc.*, 1981.

3. Service (Professionally Related)

a. University/Institute of Higher Learning

University:

- Member University Review Board, 1998 - 2005
- Member, Institutional Animal Care and Usage Committee (IACUC), University of Pittsburgh, 2001-present.
- Responsible for Biostatistics section of Department of Bioengineering Ph.D. preliminary exam, 2000-2002.

School:

- Member, Department of Biostatistics Chair Search Committee, 2009
- Past President, GSPH Faculty Senate, 2005-2006
- President, GSPH Faculty Senate, 2004-2005
- President-elect, GSPH Faculty Senate, 2003-2004
- Chair, Planning and Budgetary Policies Committee, 2001-2003
- Member of GSPH Council, 1999-2006
- Member of GSPH Safety Committee, 1990-2002
- Member of GSPH Faculty Advancement Committee, 1997-1999
- Member of GSPH Faculty Senate Executive Committee, 1996-1999
- Member of GSPH Student Performance Committee, 1996-1999
- Chair, Promotion Committee for Sofia Shekhter-Levin to Associate Professor, Department of Genetics, Spring, 1998
- Member, Promotion Committee for Roberta Ness to Associate Professor, Department of Epidemiology, Spring, 1998
- Chair, Biostatistics section of Department of Epidemiology Ph.D. preliminary exam, 1990-2002, 2016
- Reader for Health Services Administration Ph.D. exam, 1991, 1992, 1996

Departmental:

- Chair, PhD admissions committee, 2015 – 2019
- Member of PhD admissions committee and Doctoral Monitoring Committee, 2008 – present
- Chair, departmental faculty search committee, 2007
- Member of Biostatistics Curriculum committee, 1998 – present

- Departmental seminar coordinator, Fall 1990 - Spring 1993
- Responsible for Master's/Ph.D. departmental examination, 1990-1991
- Member of departmental examination committee, 1992-2002

Academic External to University of Pittsburgh:

- Review of portfolio for Dr. Andrzej Kosinski for promotion to Associate Professor with tenure, Department of Biostatistics and Bioinformatics at Duke University Medical Center, June 2013.
- Review of portfolio for Dr. Hilmi K. Kattani for promotion to Professor with tenure, Department of Mathematics, College of Sciences at the Hashemite University, Zarka, Jordan, May 2013

b. Manuscript and Other Document/Publication Review

Reviewed manuscripts for *Journal of the American Statistical Association*, *Biometrics*, *Lifetime Data Analysis*, *Journal of Applied Statistics*, *Journal of the American Public Health Association*, *Journal of Clinical Oncology*, *Journal of Cleft Palate*, and the *Canadian Medical Association Journal*.

Reviewed a textbook, *Fundamentals of Biostatistics*, B. Rosner, 1995 and 2000 editions.

d. Study Sections, Review Panels, and Related Advisory Boards

Member, Steering Committee of Early Breast Cancer Trialists' Collaborative Group. Elected, September 2012.

Member, Data Safety and Monitoring Board, "Four Supports Study, Douglas White, PI, 2013-present.

Member, Data Safety and Monitoring Board CDC-ARRA project, "Falls-Free PA", Steven Albert, PI, 2010-2014

Member, Review panel for grants 1 R01 CA149882-01A1 and 1 R01 CA160225-01, 2011

Member of Data Safety and Monitoring Board for "Prevention of Depression in Older African Americans", (P60 MD000107 PI: Reynolds/Thomas) 2008 – 2010

Member of NCI Correlative Sciences committee, 2009 - 2012

Member, site visit team for the review of the biostatistics section of the Eastern Cooperative Oncology Group (ECOG), 2010

Member, *American Joint Committee on Cancer Breast Cancer Task Force* for the revision of staging Breast Cancer, 2006-2009

Member of NCI Group Tissue Banking Committee, 2004 - 2008.

Member of NIH/NIAMS review committee for R-01 project entitled "Immediate Versus Delayed Wound Closure in Open Fractures", Michael Bosse, PI, May 2003.

Member of Data Safety and Monitoring Board for "Low-Dose Doxycycline Effects on Osteopenic Bone Loss", (R01 DE12872-01A2, Dr. Jeffrey Payne, Principal Investigator, 2001-2007

Member of Institutional Animal Care and Usage Committee, University of Pittsburgh, 2001-present.

Member of Early Breast Cancer Trialists' Collaborative Group (EBCTCG), Oxford, England, 1995 – present

Member of the USAMRDC Breast Cancer Program Peer Review Committee (EPID-1B section), February 14-16, 1994. The committee considered grant proposals for breast cancer research funded by the Department of Defense.

e. Leadership in Professional Organizations and Honorary Societies

- Chapter Representative Pittsburgh Chapter of the American Statistical Association, 2015-2017
- Chair, Information Technology Oversight Committee, Biometric Society, Eastern North American Region, 2002-2004.
- Secretary-Treasurer of the Pittsburgh Chapter of the American Statistical Association, 1992-1995