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Peter F. Thall

Curriculum Vitae

Contact Information

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Education

1971	BS, Mathematics	Michigan State University
1973	MS, Statistics	Florida State University
1975	PhD, Statistics and Probability	Florida State University

Professional Experience

Biometry Intern, 1973
Department of Statistics, Biology Division
Oak Ridge National Laboratory
Oak Ridge, Tennessee

Assistant Professor, 1975-1980
Program in Mathematical Sciences
The University of Texas at Dallas
Richardson, Texas

Assistant Professor, 1980-1984
Associate Professor, 1984 -1990
Department of Statistics
George Washington University
Washington, DC

Statistician
The Biostatistics Center, Department of Statistics
George Washington University
Diabetes Control and Complications Trial, 1982
National Cooperative Gallstone Study, 1983

Special Assistant to the Chief, 1986-1987
Biometric Research Branch

Cancer Therapy Evaluation Program
Division of Cancer Treatment
National Cancer Institute, Bethesda, MD

Visiting Lecturer, 1997
Medical and Pharmaceutical Statistics Research Unit
Department of Applied Statistics
University of Reading, United Kingdom

Associate Professor, 1991-1998
Professor, 1998 – 2000
Department of Biomathematics
The University of Texas M.D. Anderson Cancer Center

Professor, 2000 – present
Department of Biostatistics
The University of Texas M.D. Anderson Cancer Center

Adjunct Professor, January 2013 – Present
Department of Statistics, Rice University

Visiting Research Scientist, 2016
INSERM Unit 1138, Data Science and Personalized Medicine
French National Institute for Health and Medical Research
Paris, France

Honors and Awards

All University Competitive Fellow, Florida State University, 1971

Anise J. Sorrell Professor, Endowed Chair, M.D. Anderson Cancer Center, 2004-Present

Fellow, Society for Clinical Trials, 2014

Don Owen Award, San Antonio Chapter, American Statistical Association, 2014

Fellow, American Statistical Association, 2015

Editorial Boards

Associate Editor, *Statistics in Medicine*, 1994-2005

Associate Editor, *Journal of the National Cancer Institute*, 1995-1997

Associate Editor, *Biometrics*, 2003-2008

Associate Editor, *Clinical Trials*, 2003-Present

Associate Editor, *Statistics in Biosciences*, 2008-Present

Associate Editor, *Biometrics*, 2017 - Present

M.D. Anderson Institutional Activities

Search Committee for Chief, Section of Biostatistics and Clinical Biostatistics Center, 1993-1994

Institutional Research Support Committee, 1994-1997

Chair, Mid-Tenure Review Committee for J. Jack Lee, PhD 1995

Achievement Award Subcommittee, Clinical Research Category, 1998

Chair, Biostatistics Department Faculty Recruitment Committee, 1999-2000.

Study Section Review Committee for Clinical, Translational and Population-based Projects, Institutional Research Grants Program, 2002-2008

Multidisciplinary Research Advisory Committee, 2004-2007

Chair, Mid-Tenure Review Committee for Guosheng Yin, PhD, 2006.

Institutional Research Grants Program, 2002-2008

Statistical Computing Committee, Biostatistics Department, 2012 – 2014

Reviewer, Startup Funds Proposal, MDACC Research Administration, January 2013

Mid-Tenure Review Committee for M. Guindani, PhD, 2013

Chair, Mid-Tenure Review Committee for B. Hobbs, PhD, 2014

Multidisciplinary Research Advisory Committee, 2014 – 2017

Mid-Tenure Review Committee for D. Fuentes, PhD, 2016

External Committees and Activities

External Grant Proposal Reviewer, National Cancer Institute, NIH, 1993.

External Advisory Committee, "Growth Control in Multiple Myeloma" (B. Barlogie, P.I.) Myeloma Institute for Research and Therapy, Arkansas Cancer Research Center, 2000-2006.

Data Safety Monitoring Board, "ReoPro Retavase Reperfusion of Stroke Safety Study – Imaging Evaluation" NINDS (S. Warach, P.I.) 2002-2007.

Data Safety Monitoring Board, "An Adaptively Randomized Trial of Gemcitabine 1200 mg/m^2 versus Gemcitabine 900 mg/m^2 + Docetaxel for Unresectable Soft Tissue Sarcoma." Connective Tissue Oncology Society, (R. Maki, P.I.), 2002-2005.

Liposomal Topotecan Advisory Board, GlaxoSmithKline, 2003.

Co-Chair, "Better Clinical Studies", Science–Centric Session, National Cancer Institute, Sarcoma Progress Review Group, Philadelphia, PA, 2003.

External Advisory Board, Head and Neck Cancer SPORE, Winship Cancer Institute, Emory University (D. Shin, PI; F. Khuri, Co-PI), 2006.

External Advisory Board, Epithelial Ovarian Cancer Program Project Grant, Memorial Sloan Kettering Cancer Center (D. Spriggs, PI), 2005 – 2010.

Special Emphasis Panel/Scientific Review Group, National Institute of Neurological Diseases and Stroke, NIH, Washington, D.C., 2007

Data Safety Monitoring Board, "A Phase II Trial of IT-101 for Advanced Ovarian Cancer," Calando Pharmaceuticals, 2008 – 2009.

Special Emphasis Panel/Scientific Review Group 2010/01 ZHL1 CSR-D (F1), National Heart, Lung, and Blood Institute, RFA-HL-10-007: Prematurity and Respiratory Outcomes Program. Bethesda, MD, November 23, 2009.

Data Safety Monitoring Board, "Multi-institutional Trial of Allogeneic Bone Marrow Transplantation for Hematologic Malignancies using HLA-matched Related or Unrelated Donors with Fludarabine and IV Busulfan as Pre-transplant Conditioning followed by Post-transplant Immunosuppression with High Dose Cyclophosphamide," 2010 – 2011.

AML Working Group, Lymphoma Steering Committee, National Cancer Institute, NIH, Bethesda, MD, October 4, 2010

Androgen Receptor Signaling in Prostate Cancer: Translating Biology into Clinical Practice. Invited speaker and participant. Prostate Cancer Task Force, Genitourinary Steering Committee, National Cancer Institute, NIH, Dec 6-7, 2010.

Media Expert, American Statistical Association, 2008 – Present

Program Chair for Section on Bayesian Statistical Science, 2013 Joint Statistical Meetings, American Statistical Association, 2012 - 2013

Member, ENAR Regional Advisory Board, International Biometric Society, 2013 – 2015.

Research Funding

Grants and Contracts (past 3 years)

4P01 CA148600 06 (Shpall) 9/22/2011-8/31/2017 0.6 calendar
NIH/NCI $927,330
Improving Cord Blood Transplantation (Core B-Biostatistics)
Major goals: To provide statistical support for all projects, including related data and computing components. PID4408

4P30CA016672-41 (DePinho) 9/1/1998-6/30/2018 1.2 calendar
NIH/NCI $611,160
Cancer Center Support Grant - Biostatistics Shared Resource (BGR)
Major goals: The overarching goal is to improve the standard of patient care, as researchers and clinicians work to eliminate cancer. The Biostatistics Resource Group provides biostatistical expertise and quantitative research resources in support of all CCSG programs at MDACC. PID848041

710499-80-116532-21 (Orlowski) 9/1/2016-8/31/2017 0.12 calendar
MDACC $530,000
High-Risk Multiple Myeloma Moon Shot Flagship 2
Major goals: Immunologic strategies to achieve minimal residual disease in high-risk multiple myeloma. Fund 116532.

2R01CA061508-21A1 (Shpall) 4/1/2016-3/31/2021 1.2 calendar
NIH/NCI $250,000
Hematopoietic Progenitor Cells - Cord Blood
Major goals: To study the biology and reconstitution potential of hematopoietic progenitors with a major focus on megakaryocte expansion. PID4002

1R01CA211044-01 (Rezvani) 9/1/2016-8/31/2021 0.6 calendar
NIH/NCI $228,750
Off-the-shelf engineered NK cells for the treatment of AML
Major goals: To develop novel cell based therapies to harness the antileukemic potential of NK cells against AML, and to further enhance their effector function by both redefining their specificity and/or enhancing their potency. PID4378

2P50CA140388-06A1 (Logothetis/Thompson) 9/1/2016-8/31/2021 1.11 calendar
NIH/NCI $186,470
MD Anderson Cancer Center Prostate Cancer SPORE Core 2: Biostatistics and Bioinformatics
Major goals: The goal of the Biostatistics and Bioinformatics Core is to provide comprehensive biostatistics and bioinformatics expertise to ensure statistical integrity and optimize data analysis for the studies in the SPORE. PID4999

5R01CA083932 15 (Thall) 7/1/2013-4/30/2018 3.96 calendar
NIH/NCI $97,000
Statistical Methods for Complex Cancer Trials
Major goals: To provide practical models and methods for the design, conduct, and analysis of complex clinical trials not accommodated by conventional trial designs.PID4111

Pending

2P01CA148600-07 (Shpall) 7/1/2017-6/30/2022 2.4 calendar

NIH/NCI $2,186,478
Novel Cord Blood Derived Cellular Therapies
Major goals: To provide statistical support for all projects, including related data and computing components. To ensure the scientific validity of the research projects.

FP00000093 (Hu) 7/1/2017-6/30/2018 0.36 calendar
YIA Conquer Cancer Foundation $475,000
Impact of minimal residual disease in predicting outcomes of myeloma patients undergoing autologous stem cell transplant
Major goals: We hypothesize that MRD status as determined by NGS is a better predictor of shorter PFS and OS than MFC, especially in patients with HRD, and that standard risk (SRD) patients who achieve MRD negative status will experience a long PFS without the need for maintenance.

FP00001306 (Rezvani) 10/1/2017-9/30/2020 0.12 calendar
Leukemia and Lymphoma Society $180,018
Immunotherapy for Multiple Myeloma Using Off-the-Shelf Cord Blood Derived NK Cells.
Major goals: To determine the efficacy of adoptive immunotherapy with ex vivo expanded CB-NK cells in conjunction with elotuzumab, lenalidomide and high dose melphalan followed by auto-SCT for patients with high risk multiple myeloma.

1R21CA223780-01 (Milgrom) 9/1/2017-8/31/2019 0.6 calendar
NIH $175,000
Imaging & Serum Biomarkers for Detection of Cardiac Injury from Radiotherapy
Major goals: To develop a methodology for early detection of cardiac injury in patients receiving RT to the chest. To gain important insight into radiation's effects on the heart and its substructures.

Completed

5 P50 CA140388 05 Logothetis (PI) 9/2/2009-8/31/2014
NIH/NCI
MD Anderson Cancer Center Prostate SPORE (PC-B)
To provide valid statistical designs of laboratory research, clinical trials and translational experiments arising from the ongoing research of the SPORE, develop and conduct innovative statistical modeling, simulations and data analyses, ensure all project results are based on well-designed experiments, and develop integrated computational libraries and tools for producing documented, reproducible statistical analyses and make the tools available to all SPORE participants.
Role: Investigator

5 R01 CA061508 18 Shpall (PI) 4/6/2010-1/31/2015
NIH/NCI
Hematopoietic Progenitor Cells - Cord Blood
To clinically evaluate CB expanded ex vivo in co-cultures containing MSC, develop a strategy for the ex vivo generation of late-stage CB megakaryocyte precursors to enhance platelet engraftment and facilitate the homing of unmanipulated and ex vivo-expanded CB populations to the bone marrow.
Role: Co-Investigator

5 P01 CA049639 24 Champlin (PI) 9/17/2010-6/30/2016
NIH/NCI
Therapy of CML - Biostatistics Core (PC-B)
To provide biostatistical consultation and collaboration in the planning, conduct, analysis and reporting of clinical trials in CML, evaluate biological markers for their ability to predict patients' clinical outcomes and hematopoietic recovery over time and evaluate the prognostic significance of these biological and molecular markers based on their presence/absence or quantitative levels over time in the patient. (Effort ended 6/30/2015 - NCE
Role: Core Director

RP110553-P3 Champlin (PI) 7/1/2011-6/30/2015
Cancer Prevention & Research Institute of Texas (CPRIT) (Subaward from Baylor College of Medicine)
Adoptive Immunotherapy With NK Cells Expanded Ex Vivo For Treatment of Hematopoietic Malignancies
To improve NK immunotherapy and expand the potential donor pool for NK cell products used in future clinical trials.
Role: Collaborator

RP110553-C1 Heslop (PI) 7/1/2011-6/30/2014
CPRIT (Subcontract from Baylor College of Medicine)
Clinical Core MIRA - Cellular Therapy for Cancer
To exploit the actual cells of the immune system to completely and permanently eradicate the cancer, with few ill-effects for the patient.
Role: Co-Investigator

SUC2CR-AACR-DT10 Allison (PI) 3/1/2013-2/29/2016
American Association for Cancer Research (AACR)
Immunologic Checkpoint Blockade in Cancer Therapy
To investigate mechanisms that contribute to anti-tumor responses elicited by immune checkpoint blockade agents. PID682
Role: Co-Investigator

5 R01 CA061508 20 Shpall (PI) 7/1/2015-1/31/2016
NIH/NCE
Hematopoietic Progenitor Cells - Cord Blood
To study the biology and reconstitution potential of hematopoietic progenitors with a major focus on megakaryocte expansion. PID910586
Role: Co-Investigator

Selected Consulting

Chesapeake and Potomac Telephone Company, Alexandria, VA, 1983

Georgetown University School of Nursing, Washington, DC, 1984.

Logistics Management Institute, Bethesda, MD, 1989.

Novartis Pharmaceuticals, Basel, Switzerland and Morristown, NJ, 1996-2004.

Orphan Medical, Minnetonka, MN, 2002-2003.

ESP Pharmaceuticals, Edison, NJ, 2004.

Applied Molecular Evolution, San Diego, CA, 2004

Chiron Corporation, Emeryville, CA, 2005.

Scian Services, Toronto, Canada, 2006.

Hoffman-LaRoche, Nutley, NJ 2008-2009

Fertility Center of Las Vegas, Las Vegas, NV, 2009

Takeda Oncology Company, Millenium Pharmaceuticals, Boston, MA, 2010

Cytel Corporation, Cambridge, MA, 2012 – 2014

AstraZeneca, Waltham, MA, 2016

Publications

Book

Yuan Y, Nguyen HQ, **Thall PF***. Bayesian Designs for Phase I-II Clinical Trials*. Chapman & Hall/CRC Biostatistics Series, 2016.

Book Edited

Thall PF. *Recent Advances in Clinical Trial Design and Analysis.* Boston: Kluwer Academic Publishers, 1995.

Papers Published in Statistical Journals

1. Kullback S, **Thall PF.** An information-theoretic proof of the integral representation theorem. *J. Combinatorics, Information and System Sciences* 2: 97-103, 1977.

2. Ammann LP, **Thall PF.** On the structure of regular infinitely divisible point processes. *Stochastic Processes and Their Applications* 6: 87-94, 1977.

3. Ammann LP, **Thall PF.** Random measures with aftereffects. *Annals of Probability* 6: 216-230, 1978.

4. Ammann LP, **Thall PF.** Count distributions, orderliness and invariance of Poisson cluster processes. *J Applied Probability* 16: 261-273, 1979.

5. **Thall PF.** Huber-sense robust M-estimation of a scale parameter with application to the exponential distribution. *J American Statistical Assoc* 74: 147-152, 1979.

6. **Thall PF.** Cluster shock models. *J Applied Probability* 18: 104-111, 1981.

7. Kimeldorf G, **Thall PF.** A joint characterization of the multinomial distribution and the Poisson process. *J Applied Probability* 20: 202-208, 1981.

8. **Thall PF.** A theorem on regular infinitely divisible Cox processes. *Stochastic Processes and Their Applications* 16: 205-210, 1983.

9. **Thall PF**, Lachin JM. Assessment of stratum-covariate interactions in Cox's proportional hazards regression model. *Statistics in Medicine* 5:73-83, 1986.

10. **Thall PF.** Mixed Poisson likelihood regression models for longitudinal interval count data. *Biometrics* 44: 197-209, 1988.

11. **Thall PF**, Simon R, Ellenberg SS, Shrager R. Optimal two-stage designs for clinical trials with binary response. *Statistics in Medicine* 71: 571-579, 1988.

12. **Thall PF**, Simon R, Ellenberg SS. Two-stage selection and testing designs for comparative clinical trials. *Biometrika* 75: 303-310, 1988.

13. **Thall PF,** Lachin JM. Analysis of recurrent events: nonparametric methods for random interval count data. *J American Statistical Assoc* 83: 339-347, 1988.

14. **Thall PF**, Simon R, Ellenberg SS. A two-stage design for choosing among several experimental treatments and a control in clinical trials. *Biometrics* 45: 537-547, 1989.

15. Halperin M, Hamdy M, **Thall PF.** Distribution-free confidence intervals for a parameter of Wilcoxon-Mann-Whitney type for ordered categories and progressive censoring. *Biometrics* 45: 509-521, 1989.

16. **Thall PF,** Simon R. Incorporating historical control data in planning Phase II clinical trials. *Statistics in Medicine* 9: 215-228, 1990.

17. **Thall PF,** Vail SC. Some covariance models for longitudinal count data with overdispersion. *Biometrics* 46: 657-671, 1990.

18. **Thall PF**, Simon R, Grier, DA. Test-based variable selection via cross-validation. *J Computational and Graphical Stat* 1: 41-61, 1992.

19. **Thall PF.** Score tests in the two-way layout of counts. *Communications in Statistics: Theory and Methods* 21: 3017-3036, 1992.

20. **Thall PF,** Estey EH. A Bayesian strategy for screening cancer treatments prior to Phase II clinical evaluation. *Statistics in Medicine* 12: 1197-1211, 1993.

21. Simon R, **Thall PF**, Ellenberg SS. New designs for the selection of treatments to be tested in randomized clinical trials. *Statistics in Medicine* 13: 417-429, 1994.

22. **Thall PF,** Simon R. Practical Bayesian guidelines for phase IIB clinical trials. *Biometrics* 50: 337-349, 1994.

23. Ensign LG, Gehan EA, Kamen DS, **Thall PF.** An optimal three-stage design for phase II clinical trials. *Statistics in Medicine* 13:1727-1736, 1994.

24. **Thall PF,** Simon R. A Bayesian approach to establishing sample size and monitoring criteria for phase II clinical trials. *Controlled Clinical Trials* 15:463-481, 1994.

25. **Thall PF**, Simon R, Estey EH. Bayesian sequential monitoring designs for single-arm clinical trials with multiple outcomes. *Statistics in Medicine* 14:357-379, 1995.

26. **Thall PF**, Jacoby D, Zimmerman SO. Estimating genomic category probabilities from fluorescent *in situ* hybridization counts with misclassification. *J Royal Statistical Society, Series C (Applied Statistics)* 45:431-446, 1996.

27. Staniswalis JG, **Thall PF**, Salch J. Semiparametric regression analysis for recurrent event interval counts. *Biometrics* 53:1334-1353, 1997.

28. **Thall PF**, Russell KT, Simon RM. Variable selection in regression via repeated data splitting. *J Computational and Graphical Stat,* 6:416-434, 1997.

29. **Thall PF,** Russell KT. A strategy for dose finding and safety monitoring based on efficacy and adverse outcomes in phase I/II clinical trials. *Biometrics* 54:251-264, 1998.

30. Shen Y, **Thall PF.** Parametric likelihoods for multiple non-fatal competing risks and death. *Statistics in Medicine,* 17:999-1016, 1998.

31. **Thall PF,** Sung H-G. Some extensions and applications of a Bayesian strategy for monitoring multiple outcomes in clinical trials. *Statistics in Medicine,* 17:1563-1580, 1998.

32. **Thall PF,** Lee JJ, Tseng C-H, Estey EH. Accrual strategies for phase I trials with delayed patient outcome. *Statistics in Medicine,* 18:1155-1169, 1999.

33. Stallard N, **Thall PF,** Whitehead J. Decision theoretic designs for phase II clinical trials with multiple outcomes. *Biometrics,* 55:971-977, 1999.

34. **Thall PF,** Cheng S-C. Treatment comparisons based on two-dimensional safety and efficacy alternatives in oncology trials. *Biometrics,* 55:746-753, 1999.

35. **Thall PF,** Simon RM, Shen Y. Approximate Bayesian evaluation of multiple treatment effects. *Biometrics,* 56:213-219, 2000.

36. **Thall PF,** Millikan R, Sung, H-G. Evaluating multiple treatment courses in clinical trials. *Statistics in Medicine,* 19: 1011-1028, 2000.

37. **Thall PF,** Cheng S-C. Optimal two-stage designs for clinical trials based on safety and efficacy. *Statistics in Medicine,* 20:1023-1032, 2001.

38. **Thall PF,** Sung H-G, Choudhury A. Dose-finding based on feasibility and toxicity in T- cell infusion trials. *Biometrics,* 57:914-921, 2001.

39. Staniswalis JG, **Thall PF.** An explanation of generalized profile likelihoods. *Statistics and Computing,* 11:293-298, 2001.

40. Stallard N, **Thall PF.** Decision-theoretic designs for pre-phase II screening trials in oncology. *Biometrics,* 57:1089-1095, 2001.

41. **Thall PF.** Bayesian clinical trial design in a cancer center. *Chance.* 14:23-28, 2001 (Invited)

42. **Thall PF**, Sung H-G, Estey EH. Selecting therapeutic strategies based on efficacy and death in multi-course clinical trials. *J American Statistical Assoc,* 97:29-39, 2002.

43. Cheung YK, **Thall PF.** Monitoring the rates of composite events with censored data in phase II clinical trials. *Biometrics,* 58:89-97, 2002.

44. **Thall PF.** Ethical issues in oncology biostatistics. *Statistical Methods in Medical Research.* 11:429-448, 2002. (Invited)

45. **Thall PF,** Inoue LYT, Martin T. Adaptive decision making in a lymphocyte infusion trial. *Biometrics,* 58:560-568, 2002.

46. Inoue LYT, **Thall PF,** Berry, DA. Seamlessly expanding a randomized phase II trial to phase III. *Biometrics,* 58:823-831, 2002.

47. **Thall PF,** Wathen JK, Bekele BN, Champlin RE, Baker LO, Benjamin RS. Hierarchical Bayesian approaches to phase II trials in diseases with multiple subtypes. *Statistics in Medicine,* 22: 763-780, 2003.

48. **Thall PF,** Millikan RE, Mueller P, Lee S-J. Dose-finding with two agents in phase I oncology trials. *Biometrics,* 59:487-496, 2003.

49. Bekele BN, **Thall PF.** Dose-finding based on multiple toxicities in a soft tissue sarcoma trial. *J American Statistical Assoc*, 99:26-35, 2004.

50. **Thall PF**, Cook JD. Dose-finding based on efficacy-toxicity trade-offs. *Biometrics,* 60:684-693, 2004.

51. Braun TM, Yuan Z**, Thall PF**. Determining a maximum tolerated schedule of a cytotoxic agent. *Biometrics,* 61:335-343, 2005.

52. **Thall PF**, Wathen JK. Covariate-adjusted adaptive randomization in a sarcoma trial with multi-stage treatments. *Statistics in Medicine,* 24:1947-1964, 2005.

53. **Thall PF**, Wooten LH, Tannir N. Monitoring event times in early phase clinical trials: some practical issues. *Clinical Trials.* 2:467-478, 2005.

54. Cheung YK, Inoue LYT, Wathen JK and **Thall PF.** Continuous Bayesian adaptive randomization based on event times with covariates. *Statistics in Medicine,* 25:55-70, 2006.

55. **Thall PF**, Cook JD, Estey EH. Adaptive dose selection using efficacy-toxicity trade-offs: illustrations and practical considerations. *J Biopharmaceutical Statistics.* 16:623-638, 2006. (Invited)

56. **Thall PF**, Wooten LH, Shpall EJ. A geometric approach to comparing treatments for rapidly fatal diseases. *Biometrics,* 62:193-201, 2006.

57. Braun TM, **Thall PF**, Nguyen H, de Lima M. Simultaneously optimizing dose and schedule of a new cytotoxic agent. *Clinical Trials**,*** 4:113-124, 2007.

58. **Thall PF**. Some geometric methods for constructing decision criteria based on two-dimensional parameters. *J Statistical Planning and Inference.* 138:516-527, 2007 (Invited)

59. **Thall PF**, Wooten LH, Logothetis CJ, Millikan R, Tannir NM. Bayesian and frequentist two-stage treatment strategies based on sequential failure times subject to interval censoring. *Statistics in Medicine.* 26:4687-4702, 2007.

60. **Thall PF**. A review of phase 2-3 clinical trial designs. *Lifetime Data Analysis*. 14:37-53, 2008. (Invited)

61. Morita S, **Thall PF**, Mueller P. Determining the effective sample size of a parametric prior. *Biometrics***.** 64:595-602, 2008.

62. Wathen JK, **Thall PF**, Cook, JD, Estey EH. Accounting for patient heterogeneity in phase II clinical trials. *Statistics in Medicine.* 27:2802-2815, 2008.

63. Bekele BN, Ji Y, Shen Y, **Thall PF**. Monitoring late onset toxicities in phase I trials using predicted risks. *Biostatistics*. 9:442-457, 2008.

64. **Thall PF**, Nguyen H, Estey EH. Patient-specific dose-finding based on bivariate outcomes and covariates. *Biometrics.* 64:1126-1136, 2008.

65. Wathen JK, **Thall PF.** Bayesian adaptive model selection for optimizing group sequential clinical trials. *Statistics in Medicine*. 27:5586-5604, 2008.

66. Morita S, **Thall PF**, Bekele BN, Mathew P. A Bayesian hierarchical mixture model for platelet derived growth factor receptor phosphorylation to improve estimation of progression-free survival in prostate cancer. *J Royal Statistical Society, Series C (Applied Statistics)* 59:19-34, 2010.

67. Houede N, **Thall PF**, Nguyen H, Paoletti X, Kramar A. Utility-based optimization of combination therapy using ordinal toxicity and efficacy in phase I/II trials. *Biometrics.* 66:532-540, 2010.

68. Morita S, **Thall PF**, Mueller P. Evaluating the impact of prior assumptions in Bayesian biostatistics. *Statistics in Biosciences*. 2:1-17, 2010.

69. **Thall PF.** Bayesian models and decision algorithms for complex early phase clinical trials.*Statistical Science.* 25:227-244, 2010. (Invited).

70. **Thall PF**, Liu D, Berrak SG, Wolff JE. Defining and ranking effects of individual agents based on survival times of cancer patients treated with combination chemotherapies. *Statistics in Medicine.* 30:1777-1794, 2011.

71. **Thall PF**, Szabo A, Nguyen HQ, Amlie-Lefond CM, Zaidat OO. Optimizing the concentration and bolus of a drug delivered by continuous infusion. *Biometrics.* 67:1638-1646, 2011.

72. **Thall PF**, Nguyen HQ, Wang X, Wolff JE. A hybrid geometric phase II-III clinical trial design based on treatment failure time and toxicity. *J Statistical Planning and Inference.* 142:944-955, 2012.

73. Yuan Y, **Thall PF**, Wolff J. Estimating progression-free survival in pediatric brain tumor patients when some progression statuses are unknown. *J Royal Statistical Society, Series C (Applied Statistics).* 61:135-149, 2012.

74. **Thall PF**, Nguyen HQ. Adaptive randomization to improve utility-based dose-finding with bivariate ordinal outcomes. *J Biopharmaceutical Statistics* 22:785-801, 2012.

75. Wang L, Rotnitzky A, Lin X, Millikan R, **Thall PF**. Evaluation of viable dynamic treatment regimes in a sequentially randomized trial of advanced prostate cancer*. J American Statistical Assoc.* 107:493-520, (with discussion), 2012.

76. Morita S, **Thall PF**, Mueller P. Prior effective sample size in conditionally independent hierarchical models. *Bayesian Analysis*. 7:591-614, 2012.

77. **Thall PF**. Bayesian adaptive dose-finding based on efficacy and toxicity. *J Statistical Research.* 14:187-202, 2012. (Invited)

78. Wahed AS, **Thall PF**. Evaluating joint effects of induction-salvage treatment regimes on overall survival in acute leukemia. *J Royal Statistical Society, Series C (Applied Statistics).* 62:67-83, 2013.

79. **Thall PF**, Nguyen HQ, Braun TM, Qazilbash M. Using joint utilities of the times to response and toxicity to adaptively optimize schedule-dose regimes. *Biometrics.* 69:673-682, 2013.

80. Jin I-H, Liu S, **Thall PF**, Yuan Y. Using data augmentation to facilitate conduct of phase I/II clinical trials with delayed outcomes. *J American Statistical Assoc***.** 109:525-536, 2014.

81. **Thall PF**, Nguyen HQ, Zohar S, Maton P. Optimizing sedative dose in preterm infants undergoing treatment for respiratory distress syndrome. *J American Statistical Assoc.* 109:931-943, 2014.

82. Wang L, Shen J, **Thall PF**. An adaptive Lasso for identifying interactions in the Cox model with the heredity constraint. *Statistics and Probability Letters.* 93:126-133, 2014.

83. **Thall PF**, Herrick RC, Nguyen HQ, Venier JJ, Norris JC. Using effective sample size for prior calibration in Bayesian phase I-II dose-finding. *Clinical Trials.* 11:657-666, 2014.

84. Graziani R, Guindani M, **Thall PF**. Bayesian nonparametric estimation of targeted agent effects on biomarker change to predict clinical outcome. *Biometrics* 71:188-197, 2015.

85. Lee J, **Thall PF**, Ji Y, Muller P. Bayesian dose-finding in two treatment cycles based on the joint utility of efficacy and toxicity. *J American Statistical Assoc.* 110:711-722, 2015.

86. Huang X, Choi S, Wang L, **Thall PF**. Optimization of multi-stage dynamic treatment regimes utilizing accumulated data. *Statistics in Medicine*. 34:3424-3443, 2015.

87. Hobbs B, **Thall PF**, Lin S. Bayesian group sequential clinical trial design using total toxicity burden and progression-free survival. *J Royal Statistical Society, Series C (Applied Statistics).* 65:273-297, 2016.

88. Lee J, **Thall PF**, Ji Y, Mueller P. A practical decision-theoretic phase I-II design for ordinal outcomes in two cycles. *Biostatistics*. 17:304-319, 2016.

89. Xu Y, Mueller P, Wahed A, **Thall PF**. Bayesian nonparametric estimation for dynamic treatment regimes with sequential transition times. *J American Statistical Assoc. (with discussion).* 111:921-950, 2016.

90. Murray TA, **Thall PF**, Yuan Y. Utility-based designs for randomized comparative trials with discrete outcomes. *Statistics in Medicine. 35:*4285-4305, 2016.

91. **Thall PF**, Nguyen HQ, Zinner RG. Parametric dose standardization for two-agent combinations in a phase I-II trial with ordinal outcomes. *J Royal Statistical Society, Series C (Applied Statistics).* 66:201-224, 2017.

92. Morita S, **Thall, PF**, Takeda K. A simulation study of methods for selecting subgroup-specific doses in phase I trials*. Pharmaceutical Statistics*. 16:143-156, 2017.

93. Chapple AG, Vannucci M, **Thall PF**, Lin SH. Bayesian variable selection for a semi-competing risks model with three hazard functions. *Computational Statistics and Data Analysis.* 112:170-185, 2017.

94. Murray TA, **Thall PF**, Yuan Y, McAvoy S, Gomez, DR. Robust treatment comparison based on utilities of semi-competing risks in non-small-cell lung cancer. *J American Statistical Assoc.* 112:11-23, 2017.

95. Xu Y, **Thall PF**, Mueller P, Mehran RJ. A decision-theoretic comparison of treatments to resolve air leaks after lung surgery based on nonparametric modeling. *Bayesian Analysis.* 12(3):639-652, 2017.

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191. Parmar S, Rondon G, de Lima M, **Thall PF**, et al. Dose intensification of busulfan in the preparative regimen is associated with improved outcomes: A phase I/II controlled, randomized study*. Biology of Blood and Marrow Transplantation.* 19:474-480, 2013.

192. David E, **Thall PF**, Wei C, Hofstetter WL, Rice DC, Roth JA, Swisher SG, Walsh GW, Vaporciyan AA, Mehran R. Visceral pleural invasion is not predictive of worse survival or disease-free survival in NSCLC patients with smaller tumor size in a North American patient population. *Annals of Thoracic Surgery.* 95:1872-1877, 2013.

193. Aparicio AM, Harzstak AL, Corn PG Lin E, Mathew P, Araujo JC, Tu SM, Pagliaro LC, Kim J, Millikan RE, Tannir NM, Arap W, Jones DM, Troncoso P, **Thall PF**, Logothetis CJ. Platinum-based chemotherapy for variant castrate-resistant prostate cancer. *Clinical Cancer Research.* 19:3621-3630, 2013.

194. Yilmaz M, Chemaly RF, Han XY, **Thall PF**, Fox PS, Tarrand JJ, de Lima M, Hosing CM, Popat UR, Shpall EJ, Champlin, Qazilbash, MH. Adenoviral infections in adult allogeneic hematopoietic stem

cell transplant recipients: A single center experience. *Bone Marrow Transplantation.* 48:1218-1223, 2013.

195. Bashir Q, Khan H, **Thall PF**, Liu P, et al. A randomized phase II trial of fludarabine/melphalan 100 versus fludarabine/melphalan 140 followed by allogeneic hematopoietic stem cell transplantation for patients with multiple myeloma. *Biology of Blood and Marrow Transplantation.* 19:1453-1458, 2013.

196. Ajani JA, **Thall PF**, Swisher SG et al. A phase II randomized trial of induction chemotherapy versus no induction chemotherapy followed by preoperative chemoradiation in patients with esophageal cancer. *Annals of Oncology* 24:2844-2849, 2013.

197. Tang X, Alatrash G, Ning J, Jakher H, Stafford P, Zope M, Shpall EJ, Jones RB, Champlin RE, **Thall PF**, Andersson BS. Increasing chimerism following allogeneic stem cell transplantation is associated with longer survival time. *Biology of Blood and Marrow Transplantation.* 20:1139-1144, 2014.

198. Kanakry CG, O'Donnell P, Furlong T, de Lima M, Wei W, Medeot M, Milecarek M, Champlin R, Jones RJ, **Thall PF**, Andersson BS, Luznik L Multi-institutional study of post-transplantation cyclophosphamide as single-agent graft-versus-host disease prophylaxis after allogeneic bone marrow transplantation using myeloablative busulfan and fludarabine conditioning. *J Clinical Oncology* 32: 3497-3505, 2014.

199. Wang J, Milton DR, He L, Komaki R, Liao Z, Crane CH, Minsky B, **Thall PF**, Lin SH. Comparison of locoregional versus extended locoregional radiation volumes for patients with nonmetastatic gastro-esophageal junction carcinomas. *Journal of Thoracic Oncology.* 10(3):518-526, 2015.

200. Konopleva M, **Thall PF**, et al. Phase I/II Study of PR104, hypoxia-activated pro-drug in refractory / relapsed acute myeloid leukemia and acute lymphoblastic leukemia. *Haematologica*. 100:375-385, 2015.

201. Konopleva M, Benton CB, **Thall PF**, et al. Leukemia cell mobilization with G-CSF plus plerixafor during busulfan-fludarabine conditioning in allogeneic stem cell transplantation. *Bone Marrow Transplantation*. 50:939-946, 2015.

202. **Thall PF**, Fox PS, Wathen JK. Statistical controversies in medical research: scientific and ethical problems with adaptive randomization in comparative clinical trials. *Annals of Oncology* 26:1621-1628, 2015 (Invited)

203. Ciurea SO, **Thall PF**, Milton D, Barnes TH, Kongtim P, López AA, Yap DA, Popat U, Rondon G, Lichtiger B, Aung F, Fernández-Viña M, Champlin R, Cao K. Complement-binding donor-specific anti-HLA antibodies and risk of primary graft failure in hematopoietic stem cell transplantation. *Biology of Blood and Marrow Transplantation*. 21:1392-1398, 2015.

204. Shah N, **Thall PF**, Fox P, Bashir Q, Qazilbash M, et al. Phase I/II trial of lenalidomide and high dose melphalan with autologous stem cell transplantation for relapsed myeloma. *Leukemia*. 29:1945–1948, 2015.

205. Tseng WW, Zhou S, **Thall PF**, et al. Phase I adaptive dose-finding study of neoadjuvant gemcitabine combined with radiation therapy for patients with high risk extremity and trunk soft tissue sarcoma. *Cancer*. 121(20):3659–3667, 2015.

206. Sandberg D, Rytting M, **Thall PF**, et al. Methotrexate administration directly into the fourth ventricle in children with malignant fourth ventricular brain tumors: A pilot clinical trial*. J Neuro-Oncology*. 125:133-141, 2015.

207. Nieto Y, Valdez BC, **Thall PF**, et al. Vorinostat combined with high-dose gemcitabine, busulfan and melphalan with autologous stem-cell transplantation in patients with refractory lymphomas. *Biology of Blood and Marrow Transplantation*. 21(11):1914-20, 2015.

208. Nieto Y, Valdez B, **Thall PF**, et al. Double epigenetic modulation of high-dose chemotherapy with azacitidine and vorinostat for patients with refractory or poor-risk relapsed lymphoma. *Cancer.* 122:2680-2688, 2016.

209. Alatrash G, **Thall PF**, Andersson BS. et al. Long-term outcomes after treatment with clofarabine ± fludarabine with once daily IV busulfan as pretransplant preparative therapy for advanced myeloid leukemia and MDS. *Biology of Blood and Marrow Transplantation*. 22(10):1972-1800, 2016.

210. He L, Chapple A, Liao Z, Komaki R, **Thall PF**, Lin SH. Bayesian regression analyses of radiation modality effects on pericardial and pleural effusion and survival in esophageal cancer. *Radiotherapy and Oncology* 121:70-74, 2016.

211. Qazilbash M, Wieder E, **Thall PF**, Wang X, et al. PR1 peptide vaccine induces specific immunity with clinical responses in myeloid malignancies. *Leukemia*. 31:697-704, 2017.

212. Andersson BS, **Thall PF**, Valdez BC, Milton, D, et al. Fludarabine with pharmacokinetically-guided IV busulfan is superior to fixed-dose delivery in pretransplant conditioning of AML/MDS patients. *Bone Marrow Transplantation.* 52:580-587, 2017.

213. Lin SH, Merrell KW, Shen J, Verma V, Correa AM, Wang L, **Thall PF**, et al. Multi-institution analysis of radiation modality use and postoperative outcomes of neoadjuvant chemoradiation for esophageal cancer. *Radiotherapy and Oncology* 123:376-381, 2017.

214. Yan F, **Thall PF**, Lu KH, Gilbert MR, Yuan Y. Phase I-II clinical trial design: A state-of-the-art paradigm for dose finding with novel agents. *Annals of Oncology*. In press.

Book Chapters and Encyclopedia Articles

215. **Thall PF**, Simon R. Recent developments in the design of phase II clinical trials. In: P. Thall (ed.), *Recent Advances in the Design and Analysis of Clinical Trials*, pp. 49-71, Kluwer: Norwell, Massachusetts, 1995.

216. Simon R, **Thall PF.** Phase II clinical trials. In: P. Armitage, T. Colton, (eds.), *Encyclopedia of Biostatistics, Vol. 4,* pp. 3370-3376, United Kingdom; John Wiley & Sons Ltd., 1998.

217. **Thall PF,** Estey EH. Graphical methods for evaluating covariate effects in the Cox model. In: J. Crowley (ed.), *Handbook of Statistics in Clinical Oncology,* pp.411-432, New York: Marcel-Dekker, 2001.

218. Millikan R, **Thall PF.** Statistical considerations in the phase II evaluation of new therapies. In: M. Droller (ed.), *Current Clinical Urology: Bladder Cancer: Current Diagnosis and Treatment,* pp. 423-438, Totowa, NJ: Humana Press, 2001.

219. **Thall PF,** Sung H-G, Estey EH. Multi-course treatment strategies for clinical trials of rapidly fatal diseases (with discussion). In *Case Studies in Bayesian Statistics VI, Lecture Notes in Statistics 167***,** pp. 33-89, New York: Springer, 2002.

220. **Thall PF**, Wang X. Bayesian sensitivity analyses of confounded treatment effects. In: JC Crowley and DP Pauler (eds) *Handbook of Statistics in Clinical Oncology: Second Edition, Revised and Expanded,* pp. 523-540, Boca Raton: Chapman & Hall/CRC Taylor & Francis Group, 2006.

221. **Thall PF**, Cook JD. Using both efficacy and toxicity for dose-finding. In S. Chevret (ed), *Statistical Methods for Dose Finding Experiments.* pp 275-285, New York: John Wiley & Sons, 2006.

222. Bekele BN, **Thall PF**. Dose-finding based on multiple ordinal toxicities. In S. Chevret (ed), *Statistical Methods for Dose Finding Experiments*. pp 243-258, New York: John Wiley & Sons, 2006.

223. **Thall PF**. A two-stage design for dose-finding with two cytotoxic agents in phase I trials. In S. Chevret (ed), *Statistical Methods for Dose Finding Experiments.* pp 259-274, New York: John Wiley & Sons, 2006.

224. **Thall PF**, Cook, JD. Adaptive dose-finding based on efficacy-toxicity trade-offs. *Encyclopedia of Biopharmaceutical Statistics, 2nd Edition.* pp 1-5, 2006.

225. Braun TM, **Thall PF**. Optimizing schedule of administration in phase I clinical trials. *Encyclopedia of Clinical Trials.* New York: John Wiley & Sons, 2008.

226. **Thall PF**, Wang, X. Parametric likelihoods for multiple non-fatal competing risks and death, with application to cancer data. In K. Peace (ed) *Design and Analysis of Clinical Trials with Time-to-Event Endpoints.* pp 371-385, Boca Raton, Chapman & Hall/CRC Taylor & Francis Group, Biostatistics Series, 2009.

227. **Thall PF**, Nguyen H. Covariate-adjusted adaptive dose-finding in early phase clinical trials. In: Chow SC, ed. *Encyclopedia of Biopharmaceutical Statistics. 3rd Edition.* London: Informa Healthcare Ltd. 1:369–379, 2010.

228. Morita S**, Thall PF.** Prior effective sample size of a Bayesian model. In: Chow SC, ed. *Encyclopedia of Biopharmaceutical Statistics. 3rd Edition.* London: Informa Healthcare Ltd., 1:1066–1069, 2010.

229. Wathen JK, **Thall PF**. Application of a Bayesian doubly optimal group sequential design for clinical trials. In M. Chen, D. Dey, P. Mueller, D. Sun, and K. Ye (eds.) *Frontiers of Statistical Decision Making and Bayesian Analysis. In honor of James O. Berger.* pp 257-270, New York: Springer-Verlag, 2010.

230. **Thall PF**, Nguyen H, Szabo A. Adaptive decision making based on interval censored data in a clinical trial to optimize rapid treatment of stroke. In D. Chen, J. Sun and K. Peace (eds.) *Interval Censored Time-to-Event Data in Clinical Trials: New Model Developments and Computational Strategies.* pp 329-343, London: Chapman & Hall/CRC, 2012.

231. **Thall PF**. Bayesian adaptive methods for clinical trials of targeted agents. In *Design and Analysis of Clinical Trials for Predictive Medicine: Applications in Cancer and Other Chronic Diseases,* S. Matsui, M. Buyse, R. Simon (eds) pp 789-809, London: Chapman & Hall/CRC, 2015.

232. **Thall PF**, Fox P, Wathen JK. Some caveats for outcome adaptive randomization in clinical trials. In *Modern Adaptive Randomized Clinical Trials: Statistical and Practical Aspects.* O. Sverdlov (ed). pp 287-305, Boca Raton: CRC Press, Taylor & Francis. 2015.

233. **Thall PF**. SMART design, conduct, and analysis in oncology. In *Dynamic Treatment Regimes in Practice: Planning Trials and Analyzing Data for Personalized Medicine.* E. Moodie and M. Kosorok (eds), pp. 41-54, SIAM. 2015

Letters to the Editor

234. Andersson BS, Kashyap A, Couriel D, Madden T, de Lima M, **Thall PF,** Fernandez H, Vaughan WP, Jones R, Wingard JR. Intravenous busulfan in pretransplant chemotherapy: bioavailability and patient benefit. *Biology of Blood and Marrow Transplantation,* 9:722-724, 2003.

235. Cheung YK, Inoue LYT, Wathen JK and **Thall PF.** Response to comments on "Continuous Bayesian adaptive randomization based on event times with covariates" by Y.K. Cheung et al., *Stat in Medicine* 26:3052-3054, 2006.

236. Millikan R, Logothetis C, **Thall PF**. Response to comments on "Adaptive therapy for androgen independent prostate cancer: A randomized selection trial including four regimens" by P.F. Thall et al., *J National Cancer Institute***.** 100(9):682-683, 2008.

237. Tannir N, **Thall PF**, Millikan R. Reply from Authors re: Camillo Porta. How to identify active novel agents in rare cancers and then make them available: a need for a paradigm shift. *European Urology* 62:1020–1021, 2012.

Book Review

238. **Thall PF.** Stochastic Processes: A Survey of the Mathematical Theory, Springer-Verlag, by J. Lamperti. *J American Statistical Assoc*, 74: 245-246, 1979.

Submitted for Publication in Statistical Journals

1. Lee J, **Thall PF**, Lin SH. Joint Bayesian semiparametric regression analysis of recurrent adverse events and survival in esophageal cancer patients. Revised per favorable reviews from *Annals of Applied Statistics*.

2. Chapple AG, **Thall PF**. Subgroup-specific dose finding in phase I clinical trials based on time to toxicity allowing adaptive subgroup combination.

3 Yan F, Jiang L, **Thall PF**, Huang X. Optimizing multiple early stopping boundaries for Bayesian phase II clinical trials.

4. Boulet S, Ursino M, **Thall PF**, Jannot AS, Zohar S. Bayesian variable selection based on clinical relevance weights in small sample studies – Application to colon cancer.

5. Xu Y, **Thall PF**, Hua W, Andersson B. Bayesian nonparametric survival regression for optimizing precision dosing of intravenous busulfan in allogeneic stem cell transplantation.

6. Chapple AG, **Thall PF**. A hybrid phase 12/3 clinical trial design allowing dose re-optimization in phase 3.

Submitted for Publication in Medical Journals

1. Alatrash G, Kidwell KM, **Thall PF**, Di Stasi A, Chen J, Zope M, Champlin RE, Popat U, Shpall EJ, Jones RB, Andersson BS. Matched pair analysis of reduced intensity versus myeloablative conditioning with fludarabine in combination with guided dosing busulfan in patients with AML and MDS.

2. Nieto Y, **Thall PF**, Ma J, et al. Prospective trial of gemcitabine/busulfan/melphalan in poor risk relapsed Hodgkin – Comparison with a concurrent matched control cohort.

3. Hu B, **Thall PF**, Milton D, Qazilbash M, et al. Impact of minimal residual disease after autologous-HSCT on the outcome of high-risk multiple myeloma.

4. Davies JK, Brennan LL, Wingard JR, Cogle C, Kapoor N, Shah A, Dey B, Spitzer TR, de Lima M, Cooper L, **Thall PF**, Champlin RE, Nadler LM, Guinan EC. Infusion of low doses of alloanergized donor lymphocytes improves immune reconstitution after haploidentical haematopoietic stem cell transplantation.

Journal Referee

The American Statistician
Annals of Applied Statistics
Bayesian Analysis
Biological Psychiatry
Biometrics
Biomed Central Medical Research Methodology
Biometrika
Biostatistics
Blood
British Journal of Hematology
Canadian Journal of Statistics
Cancer
Clinical Cancer Research

Clinical Trials
Communications in Statistics
Computer Methods and Programs in Biomedicine
Controlled Clinical Trials
European Journal of Cancer
Expert Review of Clinical Pharmacology
Investigational New Drugs
Journal of Applied Probability
Journal of the American Medical Association
Journal of the American Medical Association, Oncology
Journal of the American Statistical Association
Journal of Biopharmaceutical Statistics
Journal of Clinical Oncology
Journal of the National Cancer Institute
Journal of the Royal Statistical Society, Series B
Journal of the Royal Statistical Society, Series C
Journal of Statistical Planning and Inference
Leukemia
Mathematical Population Dynamics
Medical Decision Making
Nature
Naval Research Logistics Quarterly
New Zealand and Australian Journal of Statistics
Stat
Statistics in Medicine
Statistics in Biosciences
Statistical Methods in Medical Research
Technometrics

PhD Committees

Committee Member & Dissertation Reader, George Washington Univ., 1980-1994:

Belcher GP
Blodgett RJ
Cowan CD
El-Dessouky SA
Fan M
Johnson AE,
Lindblad A
Mohadjer L
Palesch Y
Rundek BS
Wright E,
Younes, N

PhD Committee Member & Dissertation Reader

University of Waterloo, Canada, Feb.1999: Min Zhan, “Analysis of Incomplete Event History Data.”

Universite Montpellier, U.F.R. de Medicine, France, 2008: Nadine Houede – “Recherche de strategie biostatistique dans les essais cliniques de phase I/II d’association comprenant un agent non cytotoxique”

PhD Thesis Supervisor

J. Kyle Wathen, “Bayesian Doubly Optimal Group Sequential Designs for Randomized Clinical Trials,” Graduate School of Biomedical Sciences, The University of Texas. 2005.

Postdoctoral Research Fellow Supervisor

Brian Hobbs,	2010-2011	
Juhee Lee	2012	(jointly with Yuan Ji)
Ick-Hoon Jin	2012-2013	(jointly with Ying Yuan)
Yanxun Xu	2014-15	(jointly with Peter Mueller and Yuan Ji)
Thomas Murray	2014-2017	(jointly with Ying Yuan)
Ruitao Lin	2017-2018	(jointly with Ying Yuan)

Rice University Summer Intern Supervisor

Andrew Chapple, 2015, 2016

Teaching

Undergraduate Courses - University of Texas at Dallas and George Washington University

1975 - 1990
Introductory statistics
Regression analysis
Design of experiments
Probability
Mathematical statistics
Gambling and games of chance
Complex variables
Linear algebra
Calculus

Graduate Courses - University of Texas at Dallas and George Washington University

1975 – 1990
Probability theory
Mathematical statistics
Stochastic processes
Large-sample theory
Distribution theory

Linear models
Design of experiments
Generalized linear models
Applied statistics

Graduate Courses, Rice University and MDACC Graduate School of Biological Sciences

Clinical Trials: 2002, 2004, 2006, 2008, 2010, 2012, 2014, 2016

Organization of National and International Conferences and Symposia

1. "New Designs for Dose-Response Studies" (Discussant), Biometric Society ENAR Meeting, Birmingham, AL, March 1995.

2. Scientific Program Committee, (Planning and organization of the conference scientific program, Invitation of speakers), International Society for Clinical Biostatistics, Annual Meeting, Barcelona, Spain, July 31-August 4, 1995.

3. Scientific Program Committee, (Session Organizer) Society for Clinical Trials, Annual Meeting, Anaheim, CA, May 2-5, 1999.

4. "Dose-Finding Methods for Early Phase Clinical Trials" (Session Organizer), Society for Clinical Trials, Annual Meeting, Anaheim, CA, 1999.

5. "Design and Analysis of Clinical Trials with Multiple Endpoints" (Session Organizer), ENAR Annual Meeting, International Biometric Society, Chicago, IL 2000.

6. "Outcome Adaptive Methods in Early Phase Clinical Trials" (Session Organizer), ENAR 2002 Spring Meeting, International Biometric Society, Alexandria, VA, 2002.

7. "Recent Advances in Clinical Trial Design" (Session Organizer), WNAR Meeting of the International Biometric Society, UCLA, June 23-26, 2002.

8. "New Statistical Methods for Dose-Finding", (Chairman and Conference Organizer), Henry Stewart Conferences, Washington, D.C., September 18-19, 2002.

9. "Bayesian Biostatistics: Introduction and Recent Advances", (Conference Organizer), M.D. Anderson Cancer Center, Houston, TX, January 28-31, 2003.

10. Scientific Program Committee, Society for Clinical Trials Annual Meeting, (Planning and organization of the conference scientific program, Invitation of speakers), Portland, OR, May 22-25, 2005.

11. "Joint Modeling of Longitudinal and Time-to-Event Outcomes: Implications for Biomarkers and Surrogacy" (Session Organizer and Chair) Society for Clinical Trials, Annual Meeting, Portland, OR, May 22-25, 2005.

12. "Ethical Issues in Early Phase Clinical Trials: The Physician's Perspective." Plenary Session, (Session Organizer and Chair) Society for Clinical Trials, Annual Meeting, Portland, OR, May 22-25, 2005.

13. "Recent Innovations in Clinical Trial Design", (Session Organizer and Chair), Joint Statistical Meetings, Minneapolis, MN, August 7-11, 2005.

14. "Bayesian Approaches to Clinical Trials" (Session Chair). Joint Statistical Meetings, Salt Lake City, UT, August 1, 2007.

15. "Dynamic Treatment Regimes: Practice and Theory" (Session Organizer). ENAR Meeting of the International Biometric Society, Crystal City, VA, March 16-19, 2008.

16. "Bayesian Methods in Clinical Trials" (Session Organizer). Drug Information Association, Statistical European Meeting, Ljubljana, Slovenia, October 22-24, 2008.

17. "Practical Applications of Dynamic Treatment Regimes in Medicine" (Session Organizer and Chair). ENAR Meeting of the International Biometric Society, Miami, FL, March 20-23, 2011.

18. Scientific Program Committee, International Indian Statistical Association Bi-Annual Conference, Chennai, India, January 2-5, 2013

19. "Recent Advances in Bayesian Methods for Clinical Trials" (Session Organizer). International Indian Statistical Association Bi-Annual Conference, Chennai, India, January 2-5, 2013.

20. "Section on Bayesian Statistical Science Student Paper Travel Award Winners I", Topic Contributed, (Session Organizer), Joint Statistical Meetings, Montreal, Canada, 2013

21. "Section on Bayesian Statistical Science Student Paper Travel Award Winners II", Topic Contributed, (Session Organizer), Joint Statistical Meetings, Montreal, Canada, 2013

22. Section on Bayesian Statistical Science Student Travel Award Winners, Session 3, Topic Contributed Papers (Session Chair), Joint Statistical Meetings, Boston, MA, 2014

23. "Response-Adaptive Randomization: Recent Developments and Controversies" Topic Contributed, (Session Chair), Joint Statistical Meetings, Seattle, WA, 2015.

24. "Bayes and Nonparametric Bayes Methods in Medical Studies" Invited Papers (Session Organizer) sponsored by Section on Bayesian Statistical Science, Joint Statistical Meetings, Seattle, WA, 2015.

25. "Practical Utility-Based Bayesian Clinical Trial Design" Topic Contributed Papers (Session Organizer and Chair) co-sponsored by Section on Bayesian Statistical Science, Biopharmaceutical Section , and International Society for Bayesian Analysis, Joint Statistical Meetings, Chicago, IL, 2016.

26. "Recent Advances in Practical Clinical Trial Design" (Session Organizer). Invited Paper Session, ENAR Meeting of the International Biometric Society, Atlanta, GA, March 25-28, 2018.

Short Courses Presented

1. Two-day short course "Phase I / Phase II Designs for Oncology Trials", CIBA-Geigy Pharma, Basel, Switzerland, September 9-10, 1996.

2. Two-day short course, "Statistical Methods for Design and Monitoring of Early Phase Clinical Trials", Novartis Pharma, Basel, Switzerland, October 20-21, 1997.

3. Half-day short course, "Design of Early Phase Oncology Clinical Trials", Pediatric Blood and Marrow Transplant Consortium, St. Louis, MO, April 4, 1998.

4. Two day tutorial workshop on clinical trial design and conduct. Novartis Pharma, Morristown, NJ, March 6-7, 2003.

5. Tutorial workshop on adaptive Bayesian methods for clinical trials. Novartis Pharma, Basel, Switzerland, November 10-11, 2003.

6. Two day tutorial workshop on adaptive Bayesian methods for clinical trials. Serono International, Geneva, Switzerland, November 12, 2003.

7. Three-day short course, "Modern Bayesian Methods for Clinical Trials", Center for Drug Evaluation and Research, U.S. Food and Drug Administration, Rockville, MD. Taught jointly with B. Carlin, December 10-12, 2003.

8. One-day short course, "Designing Clinical Trials: Practical Bayesian Methods", Joint Statistical Meetings, Toronto, Canada, August 8, 2004.

9. Half-day short course, "Recent Advances in Bayesian Adaptive Dose-Finding", Annual Meeting of the Society for Clinical Trials, Portland, OR, May 22, 2005.

10. Three-day short course, "Modern Methods for Clinical Trials", Departamento de Bioestadística Epidemiología, Escuela de Salud Pública, RCM, UPR, San Juan, Puerto Rico. Taught jointly with M. Munsell and G. Yin, February 22-24, 2006.

11. Three-lecture tutorial: (i) Introduction to Bayesian Statistical Concepts. (ii) Bayesian Dose-Finding in Early Phase Clinical Trials. (iii) Covariate-Adjusted Adaptive Randomization in a Clinical Trial with Multi-Stage Therapy. Presented at "Innovative Proof-of-Concept Designs for Phase I/II and IIIb Studies." Scian Services, Toronto, Canada, May 3-4, 2006.

12. Three-day short course, "Bayesian Clinical Trial Designs", Institut Bergonie, Bordeaux, France. Taught jointly with J. Cook, June 12-14, 2006.

13. Half-day short course, "Practical Bayesian Dose-Finding Methods", Thirtieth Annual Midwest Biopharmaceutical Statistics Workshop, Ball State University, Muncie, IN, May 21, 2007.

14. One-day short course, “Practical Bayesian Clinical Trial Design”, Joint Statistical Meetings, Salt Lake City, UT, July 30, 2007.

15. Half-day short course, “Bayesian Methods for Phase II Clinical Trials“, City of Hope Cancer Center, Duarte, CA, October 18, 2007.

16. Three-day short course, “Practical Bayesian Clinical Trial Design”, Northern Illinois Pharmaceutical Group, Abbott Laboratories, Lake Bluff, IL. Taught jointly with J. Wathen, December 5-7, 2007.

17. One-day short course, “Modern Practical Bayesian Clinical Trial Design”, Joint Statistical Meetings, Denver, CO. Taught jointly with J. Wathen, August 3, 2008.

18. Half-day short course “Some Practical Bayesian Phase I and Phase I/II Designs”, Hoffman-LaRoche, Inc., Nutley, NJ. October 10, 2008.

19. One-day short course, ”Recent Developments in Practical Bayesian Methods for Clinical Trials”, International Chinese Statistical Association, Applied Statistics Symposium, San Francisco, June 21, 2009.

20. Half-day short course, “Recent Advances in Bayesian Adaptive Methods for Clinical Trials”, FDA/Industry Statistics Workshop, Washington DC, Sept. 23, 2009.

21. Three-day short course, “Recent Developments in Practical Bayesian Methods for Clinical Trials”, Savannah, GA, Sixteenth Annual Biopharmaceutical Applied Statistics Symposium, November 11-13, 2009.

22. One-day short course, “Recent Developments in Practical Bayesian Methods for Clinical Trials”, Indianapolis, IN, International Chinese Statistical Association, Applied Statistics Symposium, June 20, 2010.

23. One-day short course, “Bayesian Methods in Early Phase Clinical Trials.” Millennium Pharmaceuticals, Inc. The Takeda Oncology Company, Boston, MA, August 30, 2010.

24. Webinar, “Dysfunctional Paradigms in Clinical Trials: Some Bayesian Alternatives,” sponsored by the Section on Bayesian Statistical Science, American Statistical Association, June 7, 2012.

25. One-day short course, “Hybrid Bayesian Adaptive Clinical Trial Designs,” International Chinese Statistical Association, 2012 Applied Statistics Symposium, Boston, MA, June 23, 2012.

26. Half-day short course, “Utility-Based Clinical Trial Design and Analysis”, FDA/Industry Statistics Workshop, Washington DC, Sept. 12, 2012.

27. One-day short course, “Recent Advances in Bayesian Clinical Trial Design”, taught jointly with B. Hobbs, Joint Statistical Meetings, Montreal, Canada, August 4, 2013.

28. One-day short course, “Recent Advances in Bayesian Clinical Trial Design”, taught jointly with B. Hobbs, International Chinese Statistical Association and Korean International Statistical Society Joint Applied Statistics Symposium, Portland, Oregon, June 15, 2014.

29. Half-day short course. “Practical Solutions for Simple Problems with Bad Consequences in Clinical Trials” ENAR Meeting of the International Biometric Society, Austin, TX, March 6, 2016.

30. One-day short course, “Bayesian Designs for Phase I-II Clinical Trials”, taught jointly with Y. Yuan, Joint Statistical Meetings, Baltimore, MD, July 29, 2017.

Invited Talks at Professional Meetings

1. Some Covariance Models for Longitudinal Count Data with Overdispersion. Biometric Society WNAR Meeting, Santa Barbara, CA, July 2, 1991.

2. Test-based Variable Selection via Cross-Validation. Presented at the 1992 Conference of Texas Statisticians, Baylor University, Waco, TX, February 28-29, 1992.

3. Bayesian Design and Monitoring of Phase II Clinical Trials. Presented at the International Biometrics Conference, Hamilton, New Zealand, December 7-11, 1992.

4. Estimating Genomic Category Probabilities from Fluorescent *in situ* Hybridization Counts with Misclassification. Presented at the 1996 Eastern North American Region of the International Biometric Society Meeting, Basic Science Session, Richmond, VA, March 20, 1996.

5. A Strategy for Monitoring Multiple Outcomes in Early Phase Trials, or How to Conduct Single-Arm Trials if You Must. Presented at the Symposium on Bayesian Approaches to Clinical Trials, Harvard School of Public Health, Brookline, MA, March 28, 1996.

6. Parametric Likelihoods for Multiple Nonfatal Competing Risks and Death. Presented in the session “*Topics in Lifetime Data Analysis in Medical Research*,” at the Silver Jubilee Annual Meeting of the Statistical Society of Canada, University of New Brunswick, Fredericton, Canada, June 1-4, 1997.

7. A Strategy for Dose-Finding and Safety Monitoring Based on Efficacy and Adverse Outcomes in Phase I/II Clinical Trials, Symposium on Treatment Selection in Early Phase Clinical Research, MPS Research Unit, The University of Reading, U.K., October 15, 1997.

8. A Strategy for Dose-Finding and Safety Monitoring Based on Efficacy and Adverse Outcomes in Phase I/II Clinical Trials, Drug Information Association’s Annual Symposium “Global Challenges and Strategies in the Pharmaceutical Industry, Recent Developments in Design and Analysis of Oncology Trials”, Hilton Head, SC, March 15-17, 1998.

9. Some Experiences Applying the Continual Reassessment Method at M.D. Anderson Cancer Center, Drug Information Association’s 34th Annual Meeting, Boston, MA, June 7-11, 1998.

10. A Strategy for Dose-Finding and Safety Monitoring Based on Safety and Efficacy Outcomes in Phase I/II Clinical Trials, 1998 WNAR Annual Meeting/IMS Western Regional Meeting, San Diego, CA, June 28-30, 1998.

11. Treatment Comparisons Based on Two-Dimensional Safety and Efficacy Alternatives in Oncology Trials. International Biometric Society, Region Oesterreich-Schweiz, Advances in Biometry, Basel, Switzerland, September 27-30, 1999.

12. Approximate Bayesian Evaluation of Multiple Treatment Effects: An Alternative to Hypothesis Testing. Mathematisches Forschungsinstitut Oberwolfach, Medical Statistics: Current Developments in Statistical Methodology for Clinical Trials, Oberwolfach, Germany, February 6-12, 2000.

13. Evaluating Multiple Treatment Courses in Clinical Trials. ENAR Meeting of the International Biometric Society, Session on "*Design and Analysis of Clinical trials With Multiple Endpoints*", Chicago, IL, March 19-22, 2000.

14. Treatment Comparisons Based on Two-Dimensional Safety and Efficacy Alternative in Clinical Trials. International Chinese Statistical Association, Applied Statistics Symposium, Piscataway, NJ, June 1-3, 2000.

15. Bayesian Methods in Early Phase Clinical Trial Design. American Statistical Association, Section on Bayesian Statistics, Joint Statistical Meetings, Indianapolis, IN, August 13-17, 2000.

16. Bayesian Strategies for Small *n* Clinical Trials. Conference on Future Directions for Small *n* Clinical Research Trials, National Academy of Sciences, Washington, D.C., September 28, 2000.

17. (i) Bayesian Methods for Early Phase Clinical Trials: Dose-Finding and Safety Monitoring; and (ii) Adaptive Designs: A Non-Small Cell Lung Cancer Trial. First Annual Short Course in Bayesian Biostatistics: Applications to Clinical and Pharmaceutical Research, M.D. Anderson Cancer Center, Houston, TX, January 16-19, 2001.

18. Practical Adaptive Sequential Dose-Finding in Phase I/II Clinical Trials. Statistics of Optimal Dosing, Henry Stewart Conferences, Washington, D.C. , July 26, 2001.

19. Seamlessly Expanding a Randomized Phase II Trial to Phase III. Joint Statistical Meetings, American Statistical Assoc., Section on Bayesian Statistics, Atlanta, GA, August 5-9, 2001.

20. Multi-course Treatment Strategies for Clinical Trials of Rapidly Fatal Diseases. Bayesian Workshop VI, Carnegie Mellon University, Pittsburgh, PA, September 28-29, 2001.

21. A Hierarchical Bayesian Model for an Activity Trial of Gleevec in Sarcoma: Borrowing Strength Across Disease Subtypes. Connective Tissue Oncology Society Consortium Meeting, West Palm Beach, FL, November 1-3, 2001.

22. Recent Advances in Outcome-Adaptive Clinical Trial Design. 9th Genitourinary Oncology Conference, Melvin Samuels Lectureship, Houston, TX, February 7-8, 2002.

23. Seamlessly Expanding a Randomized Phase II Trial to a Phase III Trial. Statistics of Multi-Center Trials, Henry Stewart Conferences, Washington, D.C. March 5, 2002.

24. Adaptive Decision Making in a Lymphoctye Infusion Trial. ENAR Meeting of the International Biometric Society, Session on "*Outcome Adaptive Methods in Early Phase Clinical Trials*," Alexandria, VA, March 17-20, 2002.

25. Adaptive Design Strategies for Gene Therapy Trials. Workshop "*Cancer-How to Design Cancer Gene Therapy Clinical Trials*," American Society of Gene Therapy, 5th Annual Meeting, Boston, MA, June 5-9, 2002.

26. Seamlessly Expanding a Randomized Phase II Trial to a Phase III Trial, Session "*Recent Advances in Clinical Trial Design*." WNAR Meeting of the International Biometric Society, UCLA, CA, June 23-26, 2002.

27. Dose-Finding with Two Agents in Phase I Oncology Trials. *New Statistical Methods for Dose-Finding*, Henry Stewart Conferences, Washington, D.C., September 18-19, 2002.

28. Some Bayesian Approaches to Sarcoma Trials. Annual Meeting of the Connective Tissue Oncology Society, San Francisco, CA, October 31-November 2, 2002.

29. Practical Adaptive Decision-Making in Oncology Clinical Trials. Bayesian Biostatistics: Introduction and Recent Advances Short Course & Symposium, M.D. Anderson Cancer Center, Houston, TX, January 28-31, 2003.

30. Adaptive Designs for Multi-Course Therapies. Foundation for Integrative Biology – Toward Individualized Therapeutic Strategies, M.D. Anderson Cancer Center, Houston, TX, February 6, 2003.

31. Evaluating Therapeutic Strategies in Multi-Course Clinical Trials. ENAR 2003 Spring Meeting of the International Biometric Society, Tampa, Florida, March 30-April 2, 2003.

32. Adaptive Decision-Making in a Lymphocyte Infusion Trial. Conference on New Directions in Experimental Design, Chicago, IL, May 14-17, 2003.

33. Covariate-Adjusted Adaptive Randomization in a Multi-Stage Sarcoma Trial. Dept. of Biostatistics, Harvard Schering-Plough Workshop on Development and Approval of Oncology Drug Products: Impact of Statistics, Boston, MA, May 28-30, 2003.

34. Biostatistical Consulting: The Doctor-Statistician relationship. Roundtable Luncheon, Section on Bayesian Statistical Sciences, American Statistical Association, Joint Meetings, San Francisco, CA, August 2–7, 2003.

35. Dose-Finding With Two Agents in Phase I Oncology Trials. In the session "*Recent Developments in Phase I Trials Design*," ENAR 2004 Meeting of the International Biometric Society, Pittsburgh, PA, March 27-31, 2004.

36. Dose-Finding Based On Efficacy-Toxicity Trade-Offs. *Design and Analysis of Phase II Clinical Trials*, 25th Annual Meeting of the Society for Clinical Trials, New Orleans, LA, May 23-26, 2004.

37. A Donor Lymphocyte Infusion Trial: Adaptively Optimizing Infusion Times. In the Jiann-Ping Hsu Invited Paper Session on Pharmaceutical/Regulatory Sciences: *Adaptive Designs for Clinical Trials.* International Chinese Statistical Association 2004 Applied Statistics Symposium, San Diego, CA, June 6-9, 2004.

38. Bayesian Sensitivity Analyses of Confounded Treatment Effects in Survival Analysis. 25th Spring Symposium, New Jersey Chapter, American Statistical Assoc. "*Advances in Survival Analysis Methods for Clinical Trials*." Piscataway, NJ, June 29, 2004.

39. Hybrid Adaptive Designs for Clinical Trials. Session on "Flexible Adaptive Design," Joint Statistical Meetings, Toronto, Canada, August 8-12, 2004.

40. Practical Hybrid Clinical Trial Designs. Session on "Clinical trial designs to combine different stages of drug development," 25th Annual Conference of the International Society for Clinical Biostatistics, Leiden, The Netherlands, August 15-19, 2004.

41. Bayesian Adaptive Methods for Clinical Trial Design and Conduct. Future Clinical Trials Issues in Multiple Sclerosis, Annual Meeting of the Multiple Sclerosis Society, Washington, D.C., December 2-4, 2004.

42. Some Phase 23 Clinical Trial Designs. Biostatistical Issues and the Design of Type 1 Diabetes TrialNet Protocols, NIDDK, Bethesda, Maryland, March 7, 2005.

43. Dose-Finding Based On Efficacy and Toxicity in Phase I/II Clinical Trials. In the session "*Recent Developments in Sequential Clinical Trials Methodology*" ENAR Meeting of the International Biometric Society, Austin, Texas, March 20-23, 2005.

44. On the Hazards of Survival Time Comparisons in the Presence of Recurrent Disease. Sarcoma Alliance for Research through Collaboration Biannual Meeting, Orlando, Florida, May 13, 2005.

45. Adaptive Multi-Course Treatment Strategies in Two Oncology Trials. Session on "Dynamic Treatment Regimes," Joint Statistical Meetings, Minneapolis, Minnesota, August 7-11, 2005.

46. Multi-Stage Treatment Trials in Oncology. Dynamic Treatment Regimes Network Meeting, Institute for Social Research, University of Michigan, Ann Arbor, Michigan, September 14-15, 2005.

47. Dose Finding Based On Efficacy and Toxicity in Phase I/II Clinical Trials. 5th International Meeting on Statistical Methods in Biopharmacy. "*Statistical Innovations in Clinical Trials*." Paris, France, September 26-27, 2005.

48. Some Bayesian Methods for Clinical Trial Design and Analysis. 12th Annual Biopharmaceutical Applied Statistics Symposium, Savannah, GA, November 7-11, 2005.

49. Adaptive Randomization in Sarcoma Trials: Past and Future. Sarcoma Alliance for Research through Collaboration, Biannual Meeting, Atlanta, GA, June 2, 2006.

50. Practical Adaptive Randomization in Clinical Trials. Journee des Statisticiens des Centres de Lutte contre le Cancer, Annual Meeting, Institut Bergonie, Bordeaux, France, June 15, 2006

51. A Geometric Approach to Comparing Treatments for Rapidly Fatal Diseases. Joint Statistical Meetings, Seattle, WA, August 6, 2006.

52. Innovative Bayesian Designs for Early Phase Clinical Trials. Third Strategic Directions in Cancer Therapy, Vancouver, British Columbia, Canada, March 2-3, 2007.

53. Patient-Specific Dose-Finding Based On Bivariate Outcomes With Covariates. ENAR Meeting of the International Biometric Society, Atlanta, GA, March 11-14, 2007.

54. Accounting for Heterogeneity in Phase II Clinical Trials Using Bayesian Methods, in the session "*Clinical Trials, Part I: Recent Innovations in Oncology Clinical Trials*." American Association for Cancer Research, Annual Meeting, Los Angeles, CA April 14-18, 2007.

55. Practical Bayesian Adaptive Randomization in Clinical Trials, in the session "*Alternatives to Phase III Trial Design,*" Education Session, American Society of Clinical Oncology Annual Meeting, Chicago, IL, June 5, 2007.

56. Designing Clinical Trials to Evaluate Dynamic Treatment Regimes. Introductory Overview Lecture: "*Adaptive Designs and Other Emerging Issues in Clinical Trials*," Joint Statistical Meetings, Salt Lake City, UT, July 29, 2007.

57. Comparing Two-Stage Treatment Strategies Based On Sequential Failure Times Subject to Interval Censoring. Joint Statistical Meetings, Salt Lake City, UT, July 31, 2007.

58. Assessing Two-Stage Treatment Strategies for Metastatic Renal Cell Cancer. Sixth Annual Kidney Cancer Association Meeting. Chicago, IL, October 12, 2007

59. Accounting for Patient Heterogeneity and Multivariate Outcomes in Early Phase Clinical Trials. In the session "*Bayesian Treatment of Multiplicities in Clinical Trials*", Bayesian Biostatistics Conference, M.D. Anderson Cancer Center, January 31, 2008.

60. Comparing Two-Stage Treatment Strategies Based On Sequential Failure Times. In the session "*Dynamic Treatment Regimes: Practice and Theory*," ENAR Meeting of the International Biometric Society, Arlington, VA, March 19, 2008.

61. Select-and-Test Designs for Phase II-III Clinical Trials. Forum on "*Decisions at the Phase II / Phase III Interface*", American Association for Cancer Research, Annual Meeting, San Diego, CA, April 13, 2008

62. Bayesian Methods for Multidimensional Treatment Effects. University of Pennsylvania, Annual Conference on Statistical Issues in Clinical Trials: From Bench to Bedside to Community, Philadelphia, PA, April 18, 2008

63. Patient-Specific Dose-Finding Based On Bivariate Outcomes and Covariates. Session on "*Bayesian Analysis of Pharmaceutical Data*," International Society For Biopharmaceutical Statistics, First Symposium, Shanghai, China, June 28-July 2, 2008

64. Comparing Two-Stage Treatment Strategies Based On Sequential Failure Times. Session on "*Survival Analysis*," International Society For Biopharmaceutical Statistics, First Symposium, Shanghai, China, June 28-July 2, 2008.

65. Two-Stage Treatment Strategies Based On Sequential Failure Times. Designed Experiments: Recent Advances in Methods and Applications (DEMA2008), Isaac Newton Institute for Mathematical Sciences, Cambridge, UK, August 11-15, 2008.

66. Patient-Specific Dose-Finding Based On Bivariate Outcomes and Covariates. FDA/Industry Workshop, "Special Topics in Oncology Drug Development," Arlington, VA, September 16-17, 2008.

67. Utility-Based Optimization of Combination Therapy Using Ordinal Toxicity and Efficacy in Phase I/II Trials. Bayesian Biostatistics Conference, Houston, TX, January 26-28, 2009.

68. A Geometric Phase II-III Select-and-Test Design Based on Treatment Failure Time and Toxicity. Innovation in Choroid Plexus Tumor Research, Houston, TX, February 14-15, 2009.

69. A Prostate Cancer Trial with Re-Randomization: How We Spent a Decade Studying Twelve Dynamic Treatment Regimes. In the session "Application of Dynamic Treatment Regimes" ENAR Meeting of the International Biometric Society, San Antonio, TX, March 15-18, 2009.

70. Optimizing a Two Agent Combination Based On Utilities of Ordinal Toxicity and Efficacy Outcomes. A One-Day Symposium to Honor Ed Gehan. Department of Biostatistics, Bioinformatics and Biomathematics, Georgetown University, Washington, DC, April 27, 2009.

71. Bayesian Designs for Clinical Trials with Dynamic Re-Randomization. Biostatistics Workshop in Cancer Research, University of Toronto, Dalla Lana School of Public Health, July 24-26, 2009.

72. Utility-Based Optimization of Combination Therapy Using Ordinal Toxicity and Efficacy in Phase I/II Clinical Trials. Workshop in Phase I Designs with a Focus on the Continual Reassessment Method, Memorial Sloan-Kettering Cancer Center, October 2, 2009.

73. Navigating the Rocky Shoals of Adaptive Trial Design and Execution. Scientific Advances in Adaptive Clinical Trial Designs Workshop, Bethesda, MD, November 16-17, 2009.

74. Application of a Bayesian Doubly Optimal Group Sequential Design for Clinical Trials: Localized Surgery versus Chemotherapy for Non-Small-Cell Lung Cancer. Frontiers of Statistical Decision Making and Bayesian Analysis: A Conference in Honor of James O. Berger. UTSA, San Antonio, Texas, March 17 - 20, 2010

75. Using Prior Information and Elicited Utilities for Adaptive Decision Making in Phase I/II Trials. In the session "Recent Developments of Bayesian Methods for Combining Data from Multiple Sources." ENAR Meeting of the International Biometric Society, New Orleans, LA, March 21-24, 2010.

76. A Bayesian Geometric Phase II-III Select-and-Test Design Based On Treatment Failure Time and Toxicity. International Chinese Statistical Association. 19th Annual Applied Statistics Symposium, Indianapolis, IN, June 19 - 23, 2010.

77. Prior Elicitation in Bayesian Clinical Trial Design. SAMSI Intensive Summer Research Program on Semiparametric Bayesian Inference: Applications in Pharmacokinetics and Pharmacodynamics. Research Triangle Park, NC, July 12 - 23, 2010

78. A Hybrid Geometric Select-and-Test Design Based on Treatment Failure Time and Toxicity. Joint Statistical Meetings, Vancouver, British Columbia, Canada, August 3, 2010

79. A Phase II-III Select-and-Test Design Based on Treatment Failure Time and Toxicity: Evaluating Chemotherapies for Choroid Plexus Carcinomas in Children. Society of Paediatric Oncology, Choroid Plexus Tumor Committee, Boston, MA, October 23, 2010

80. Bayesian Designs for Prostate Cancer Trials Involving Androgen Receptor Signaling. Androgen Receptor Signaling in Prostate Cancer: Translating Biology into Clinical Practice. Prostate Cancer Task Force, Genitourinary Steering Committee, NCI, Dec 6-7, 2010.

81. Optimizing the Bolus and Concentration of a Drug Administered by Continuous Infusion. In the session "Innovative Adaptive Designs in Early-Phase Oncology Clinical Trials," ENAR Meeting of the International Biometric Society, Miami, FL, March 20-23, 2011.

82. Optimizing the Concentration and Bolus of a Drug Delivered by Continuous Infusion. In the session "Adaptive Designs for Clinical Trials," International Conference on Design of Experiments, Memphis, TN, May 10-13, 2011.

83. Optimizing the Concentration and Bolus of a Drug Delivered by Continuous Infusion. In the session "Phase I/II clinical studies: safety versus efficacy," International Chinese Statistical Association. 20th Annual Applied Statistics Symposium, New York, NY, June 26 - 29, 2011.

84. Practical Issues in Bayesian Adaptive Designs for Early Phase Clinical Trials. Leader, Roundtable discussion, sponsored by the Section on Bayesian Statistical Science, Joint Statistical Meetings, Miami, FL, August 2, 2011.

85. Optimizing the Bolus and Concentration of a Drug Administered by Continuous Infusion. Workshop on Design of Experiments in Healthcare, Isaac Newton Institute for Mathematical Sciences, Cambridge, England, August 15-19, 2011.

86. Establishing Priors from Elicited Values for Bayesian Dose-Finding Designs. Second Workshop, Continual Reassessment Method and Related Issues in Dose-Finding, Paris, September 15-16, 2011.

87. Practical Issues in the Design, Conduct, and Analysis of Randomized Oncology Trials Comparing Dynamic Treatment Regimes. In the session "Recent Advances in Dynamic Treatment Regimes Research" ENAR Meeting of the International Biometric Society, Washington, DC, April 1-4, 2012.

88. Dysfunctional Paradigms in Clinical Trials: Our Conventions Are Killing Us. In the session "Decision Making in the Process of Drug Development," Midwest Biopharmaceutical Statistics Workshop, Ball State University, Muncie, IN, May 21-23, 2012.

89. Practical Challenges in the Design, Conduct, and Analysis of Randomized Trials of Dynamic Treatment Regimes in Oncology, International Chinese Statistical Association. 21st Annual Applied Statistics Symposium, Boston, MA, June 23 - 26, 2012.

90. Utility-Based Dose-Finding with Ordinal Toxicity and Efficacy. In the session "Dose Selection in Clinical Trials," Joint Statistical Meetings, San Diego, CA, July 29 - August 2, 2012

91. Evaluating Joint Effects of Induction-Salvage Treatment Regimes on Overall Survival in Acute Leukemia, UAI Workshop on Causal Structure Learning, Catalina Island, CA, August 18, 2012.

92. Bayesian Dose-Finding in Two Treatment Cycles based on the Joint Utility of Efficacy and Toxicity. In the session "Multi-Stage Randomized Clinical Trials for the Development of Dynamic Treatment Regimes," Society for Clinical Trials, Annual Meeting, Boston, MA, May 19-22, 2013.

93. Practical Adaptive Bayesian Methods for Early Phase Clinical Trials. In the pre-ASCO two-day workshop "Designs for Contemporary Early-Phase Clinical Trials," Chicago, IL, May 30-31, 2013.

94. Discussant, for the session "Dynamic Treatment Regimes and Adaptive Designs Toward Personalized Health Care," Joint Statistical Meetings, Montreal, Canada, August 4-8, 2013.

95. Utility-Based Dose-Finding with Ordinal Toxicity and Efficacy, in the session "Adaptive Designs for Clinical Trials," Annual Conference of the International Society for Clinical Biostatistics, Munich, Germany, August 25-29, 2013.

96. Dose-Finding Based On Elicited Joint Utilities of Ordinal Toxicity and Efficacy. Third Biennial Workshop on Adaptive Early-Phase Clinical Trial Design, University of Michigan School of Public Health, September 26-27, 2013.

97. Bayesian Designs for Early Phase Clinical Trials. In the session "Shared Challenges of Small Group Trials" 17th ECCO - 38th ESMO - 32nd ESTRO European Cancer Congress, Amsterdam, The Netherlands, September 30, 2013

98. Bayesian Dose-Finding in Two Treatment Cycles based on the Joint Utility of Efficacy and Toxicity. In the session "Personalized Medicine and Dynamic Treatment Regimes" International Conference on Health Policy Statistics, Chicago, IL, October 9-11, 2013.

99. Bayesian Dose-finding Methods for Targeted Agents in Early Phase Clinical Trials. In the session "Recent Developments in Personalized Medicine" ENAR Meeting of the International Biometric Society, Baltimore, MD, March 16-19, 2014.

100. Bayesian Clinical Trial Design: 23 Years of Theory and Practice. Council of Texas Statisticians, Annual Meeting, University of Texas at Dallas, March 21-22, 2014.

101. Discussant, "Clinical Trials for Adaptive Intervention Designs: Design and Conduct of Sequential Multiple Assignment Randomized Trials," Half day workshop, Society for Clinical Trials, Annual Meeting, Philadelphia, PA, May 18, 2014.

102. Utility-Based Optimization of Schedule-Dose Regimes based on the Times to Response and Toxicity. International Chinese Statistical Association & Korean International Statistical Society Joint Applied Statistics Symposium, Portland, Oregon, June 15, 2014.

103. Adaptively Optimizing Schedule-Dose Regimes based on Utilities of Competing Event Times. In the session 'Design of Clinical Trials' International Indian Statistical Association Conference, Riverside, CA, July 11-13, 2014

104. Evaluating Joint Effects of Induction-Salvage Treatment Regimes on Overall Survival in Acute Leukemia. Presented jointly with Yanxun Xu. AML Hackathon, DREAM 9, Rice University, Houston, TX, July 26, 2014.

105. Utility-Based Optimization of Schedule-Dose Regimes based on the Times to Response and Toxicity. In the session "Designs and Analyses of Studies with Small Sample Sizes" Joint Statistical Meetings, Boston, MA, August 5, 2014

106. Utility-Based Optimization of Schedule-Dose Regimes based on the Times to Response and Toxicity. Fourth Adaptive Early Phase Clinical Trials Workshop, Hollings Cancer Center, Medical University of South Carolina, Charleston, South Carolina, October 16 – 17, 2014

107. SMART Design, Conduct, and Analysis in Oncology. Keynote Address, Innovative Methods Program for Advancing Clinical Trials (IMPACT), Cary, North Carolina, November 20-21, 2014.

108. Bayesian Utility-Based Sequentially Adaptive Designs for Early Phase Clinical Trials. Symposium on Early Phase Dose Finding Methodology, Pierre and Marie Curie University, Paris, April 15–17, 2015

109. Bayesian Adaptive Optimization of Sedative Dose in Preterm Infants Being Treated for Respiratory Distress Syndrome. In the invited paper session, *Bayesian Adaptive Designs for Better Clinical Decision Making,* sponsored by WNAR, Joint Statistical Meetings, Seattle, Washington, August 11, 2015.

110. Utility-Based Bayesian Adaptive Designs for Early Phase Clinical Trials. 2015 ASA Biopharmaceutical Section, FDA-Industry Statistics Workshop, Washington D.C., September 16-18, 2015.

111. Bayesian Designs for Early Phase Clinical Trials. Kidney Cancer Association Annual Meeting, Miami, FL, November 6-7, 2015.

112. Adaptive Treatment Assignment: Getting Personal in Oncology. ENAR Meeting of the International Biometric Society, Austin, TX, March 6-9, 2016.

113. Caveats for Outcome Adaptive Randomization in Comparative Clinical Trials. 9th Annual Conference on Statistical Issues in Clinical Trials, University of Pennsylvania Center for Clinical Epidemiology and Biostatistics, Philadelphia, PA, April 13, 2016.

114. Bayesian Nonparametric Estimation for Dynamic Treatment Regimes with Sequential Transition Times. Invited Paper Session, JASA Applications and Case Studies, Joint Statistical Meetings, Chicago, IL, July 30 – August 4, 2016.

115. Discussant, Showcase of the Power of Statistics on Evaluating Dynamic Treatment Regimes Leading Toward Personalized Health Care, Invited Paper Session, Sponsored by ENAR and ICSA, Joint Statistical Meetings, Chicago, IL, July 30 – August 4, 2016.

116. Parametric Dose Standardization for Two-Agent Phase I-II Trials with Ordinal Efficacy and Toxicity. In the session, "Bringing Adaptive Trials into the Real World," ENAR Meeting of the International Biometric Society, Washington, DC, March 12-15, 2017.

117. Parametric Dose Standardization for Two-Agent Phase I-II Trials with Ordinal Efficacy and Toxicity. In the session, "Recent Developments in Early Phase Dose-Finding," International Chinese Statistical Association, Applied Statistics Symposium, Chicago, IL, June 25-29, 2017.

118. Some Caveats for Outcome Adaptive Randomization in Two Arm Clinical Trials, in the session "Adaptive randomization: a balance between innovation, bias reduction, regulatory and ethical considerations," ASA Biopharmaceutical Section Regulatory-Industry Statistics Workshop, Washington, DC, September 25–27, 2017

Invited Talks at Universities, Corporations, and Government Agencies

1. Assessment of Stratum-Covariate Interactions in Cox's Proportional Hazards Regression Model. National Center for Health Statistics, Rockville, MD, 1983.

2. Two-Stage Designs. Cancer Therapy Evaluation Program, Division of Cancer Treatment, National Cancer Institute, Bethesda, MD, 1987.

3. Mixed Poisson Likelihood Regression Models for Longitudinal Interval Count Data. Department of Biostatistics, Medical College of Virginia, Virginia Commonwealth University, Richmond, VA, 1988.

4. Optimal Two-Stage Designs for Clinical Trials with Binary Response. Washington Statistical Society, Washington, D.C., 1988.

5. Some Covariance Models for Longitudinal Count Data with Overdispersion. Department of Statistics, Rice University, Houston, TX, February, 1991.

6. Test-Based Variable Selection via Cross-Validation. Biostatistics Center, George Washington University, Rockville, MD, May 15, 1992.

7. Practical Bayesian Stopping Rules for Clinical Oncologists. Institut Curie, Paris, France, September 17, 1993.

8. Practical Bayesian Stopping Rules for Clinical Oncologists. Institut Gustave-Roussy, Paris, France, September 20, 1993.

9. Bayesian Sequential Monitoring Designs for Single-Arm Clinical Trials with Multiple Outcomes. Institut fur Medizinische Biometrie und Medizinische Informatik, Freiburg University, Germany, July 22, 1994.

10. Bayesian Sequential Monitoring Designs for Single-Arm Clinical Trials with Multiple Outcomes. Programs in Mathematical Sciences, University of Texas at Dallas, October 11, 1994.

11. Statistical Methods for Design and Conduct of Clinical Trials. University of Texas Southwestern Medical Center, Dept. of Academic Computing, Dallas, TX, January 20, 1995.

12. A Semiparametric Gamma-Poisson Regression Model for Repeated Interval Counts with Covariates. Dept. of Statistics and Actuarial Science, University of Waterloo, Waterloo, Canada, April 7, 1995.

13. Bayesian Sequential Monitoring Designs for Single-Arm Clinical Trials with Multiple Outcomes. Dept. of Health Sciences Research, Mayo Clinic, Rochester, Minnesota, September 18, 1995.

14. Bayesian Sequential Monitoring Designs for Single-Arm Clinical Trials with Multiple Outcomes. Houston Chapter, American Statistical Assoc., December 13, 1995.

15. Randomized Selection and Testing Designs for Phase II/III Clinical Trials. Swiss Group for Clinical Cancer Research, Bern, Switzerland, September 11, 1996.

16. Bayesian Design and Monitoring Strategies for Single-Arm Clinical Trials. Dept. of Statistics, University of Uppsala, Uppsala, Sweden, September 16, 1996.

17. Estimating Genomic Category Probabilities from FISH Counts with Misclassification. Dept. of Chemical Engineering, Rice University, October 2, 1996.

18. Variable Selection in Regression Via Repeated Data Splitting. Dept. of Statistics, University of Texas at Dallas, December 9-10, 1996.

19. A Strategy for Dose-Finding and Safety Monitoring Based on Efficacy and Adverse Outcomes in Phase I/II Clinical Trials. Dept. of Statistics, Carnegie Mellon University, Pittsburgh, Pennsylvania, April 25, 1997.

20. A Strategy for Dose-Finding and Safety Monitoring Based on Efficacy and Adverse Outcomes in Phase I/II Clinical Trials. University of Minnesota, Institute for Mathematics and Its Applications, Summer Program "Statistics in the Health Sciences", July 31-August 5, 1997.

21. Extensions and Applications of a Bayesian Strategy for Monitoring Multiple Outcomes in Clinical Trials. University of Southampton, U.K., October 28, 1997.

22. A Strategy for Dose-Finding and Safety Monitoring Based on Efficacy and Adverse Outcomes in Phase I/II Clinical Trials. Department of Biostatistics, Memorial Sloan Kettering Cancer Institute, New York, March 18, 1998.

23. Parametric Likelihoods for Multiple Non-Fatal Competing Risks and Death. Division of Biostatistics, Columbia University, New York, New York, March 19, 1998.

24. Approximate Bayesian Evaluation of Multiple Treatment Effects. Medical and Pharmaceutical Statistics Research Unit, Dept. of Applied Statistics, Reading University, England, August 20, 1998.

25. Decision-Theoretic Designs for Phase II Clinical Trials with Multiple Outcomes. Dept. of Statistics, Texas A & M University, September 24, 1998.

26. Practical Guidelines for Dose-Finding with the Continual Reassessment Method in Phase I Clinical Trials. H. Lee Moffitt Cancer Center, Tampa, FL, October 2, 1998.

27. New Dose-Finding Methods for Early Phase Clinical Trials. Department of Hematology, University of Illinois at Chicago, Chicago, IL, February 11, 1999.

28. Treatment Comparisons Based on Two-Dimensional Safety and Efficacy Alternatives in Oncology Trials. Dept. of Statistics and Actuarial Science, University of Waterloo, Canada, February 25, 1999.

29. Approximate Bayesian Evaluation of Multiple Treatment Effects: An Alternative to Hypothesis Testing. Novartis Pharmaceuticals, Basel, Switzerland, September 27, 1999.

30. Science and Safety Monitoring in Clinical Trials. Ares-Serono Group, Geneva, Switzerland, October 1, 1999.

31. Evaluating Multiple Treatment Courses in Clinical Trials. Dept. of Biostatistics, University of Missouri at Columbia, Columbia, Missouri, January 25, 2000.

32. Evaluating Multiple Treatment Courses in Clinical Trials. Department of Biostatistics & Medical Informatics, Abbott Laboratories Distinguished Lectureship in Pharmaceutical Applications, University of Wisconsin at Madison, Madison, WI, January 26, 2000.

33. Approximate Bayesian Evaluation of Multiple Treatment Effects: An Alternative to Hypothesis Testing. Dept. of Biostatistics, Harvard University, April 13, 2000.

34. Dose-Finding Based on Response and Toxicity: The Phase I/II Design. Biostatistics Branch, Div. of Intramural Research, National Institute of Neurological Disorders and Stroke, NIH, May 21, 2001.

35. Multi-course Treatment Strategies for Clinical Trials of Rapidly Fatal Diseases. Dept. of Statistics, Texas A & M University, October 18, 2001.

36. Treatment Comparisons Based on Two-Dimensional Safety and Efficacy Alternatives in Oncology Trials. Dept of Biostatistics, Medical College of Virginia, Virginia Commonwealth University, March 23, 2002.

37. Bayesian Methods in Clinical Trials: Recent Practical Innovations in Phase I and II Studies. Grand Rounds, Lombardi Cancer Center, Georgetown University, August 28, 2002.

38. Dose-Finding with Two Agents in Phase I Oncology Trials. Dept. of Biostatistics, Columbia University, November 25, 2002.

39. Adaptive Decision-Making in a Lymphocyte Infusion Trial. Dept. of Health Studies, University of Chicago, April 30, 2003.

40. Covariate-Adjusted Adaptive Randomization in a Sarcoma Trial With Multi-Stage Treatments. Population Science Division, Fox Chase Cancer Center, Philadelphia, PA, July 30, 2003.

41. Covariate-Adjusted Adaptive Randomization in a Sarcoma Trial with Multi-Stage Treatments Department of Biostatistics, School of Public Health, University of Michigan, Ann Arbor, MI, September 4, 2003.

42. New Methods for Dose-Finding in Early Phase Clinical Trials. Department of Biostatistics, School of Public Health, University of Michigan, Ann Arbor, MI, September 5, 2003.

43. Covariate-Adjusted Adaptive Randomization in a Sarcoma Trial with Multi-Stage Treatments. Department of Biostatistics, St. Jude's Children's Research Hospital, Memphis, TN, October 16, 2003.

44. Practical Adaptive Decision-Making in Oncology Clinical Trials. Department of Biostatistics, St. Jude's Children's Research Hospital, Memphis, TN, October 16, 2003.

45. Adaptive Bayesian Designs for Clinical Trials. Center for Drug Evaluation and Research, U.S. Food and Drug Administration, Rockville, MD, December 15, 2003.

46. Some Bayesian Adaptive Methods for Clinical Trial Design and Conduct. Pharsight, Drug Development Consulting Services, Cary, NC, October 12-13, 2004.

47. Dose-Finding Based On Efficacy-Toxicity Trade-Offs. Office of Biostatistics Research, National Heart, Lung and Blood Institute, NIH, Bethesda, MD, November 30, 2004.

48. Recent Advances in Bayesian Adaptive Dose-Finding. Chiron Corporation, Emeryville, CA, July 12, 2005.

49. Dose Finding Based On Efficacy and Toxicity in Phase I/II Clinical Trials. Unité de Biostatistique, CRLC Val d'Aurelle, Montpellier, France, September 28, 2005.

50. Some Designs for Combining Phase II and Phase III Clinical Trials. Unité de Biostatistique, CRLC Val d'Aurelle, Montpellier, France, September 29, 2005.

51. Patient-Specific Dose-Finding: A New Method Based On Efficacy, Toxicity and Prognostic Covariates. Neurology Grand Rounds, National Institutes of Neurological Diseases and Stroke, Bethesda, MD, November 22, 2005.

52. Two New Bayesian Designs for Dose-Finding Trials. Solid Tumor Oncology and Hematologic Oncology Grand Rounds, Memorial Sloan-Kettering Cancer Center, New York, NY, May 9, 2006.

53. Covariate-Adjusted Adaptive Randomization in a Clinical Trial with Multi-Stage Therapy. Biometric Research Branch, Division of Cancer Treatment & Diagnosis, National Cancer Institute, Rockville, Maryland, October 16, 2006.

54. Improving the Reliability and Precision of Phase 2 Clinical Trials. Clinical Trials Task Force of the Investigational Drug Steering Committee, Division of Cancer Treatment and Diagnosis, Cancer Therapy Evaluation Program, National Cancer Institute, Rockville, Maryland, January 30, 2007.

55. A Geometric Approach to Comparing Treatments for Rapidly Fatal Diseases. Department of Biostatistics, Bioinformatics and Biomathematics, Georgetown University, September 20, 2007.

56. Some New Bayesian Designs for Early Phase Clinical Trials. City of Hope Cancer Center, Duarte, CA, October 17, 2007.

57. Comparing Two-Stage Treatment Strategies Based On Sequential Failure Times. Stanford Cancer Center, Palo Alto, CA, October 19, 2007.

58. Patient-Specific Dose-Finding Based On Bivariate Outcomes and Covariates. University of Pittsburgh, Department of Biostatistics, March 6, 2008.

59. Comparing Two-Stage Treatment Strategies Based On Sequential Failure Times. University of Pittsburgh, Department of Statistics, March 7, 2008.

60. Comparing Two-Stage Treatment Strategies Based On Sequential Failure Times. Department of Biostatistics, Bioinformatics & Epidemiology, Medical University of South Carolina, April 4, 2008

61. Comparing Two-Stage Treatment Strategies Based On Sequential Failure Times. Institut Bergonie, Bordeaux, France, May 21, 2008.

62. Patient-Specific Dose-Finding Based On Bivariate Outcomes and Covariates. Sidney Kimmel Comprehensive Cancer Center, Johns Hopkins University, January 30, 2009.

63. Patient-Specific Dose-Finding Based On Bivariate Efficacy-Toxicity Outcomes and Prognostic Covariates. Department of Biostatistics, University of North Carolina, January 27, 2010.

64. Select-and-Test Designs for Phase II-III Clinical Trials. Kanagawa Cancer Center Clinical Trial Design Workshop, Yokohama, Japan, April 12, 2010

65. Patient-Specific Dose-Finding Based On Bivariate (Efficacy, Toxicity) Outcomes and Covariates. Workshop on Contributions of Bayesian Statistics to Clinical Trials. University of Tokyo, April 13, 2010

66. Select-and-Test Designs for Phase II-III Clinical Trials. Kyoto University, Clinical Trial Design and Biostatistics Workshop, Kyoto, Japan, April 15, 2010.

67. Bayesian Adaptive Dose Finding Designs for Early Phase Clinical Trials. University of Texas, Public Health School, Houston, Texas, September 28, 2010

68. New Bayesian Adaptive Designs for Early Phase Clinical Trials. Tufts University School of Medicine, Cancer Center Grand Rounds, Boston, MA, October 22, 2010.

69. Establishing Priors for Bayesian Clinical Trials. Department of Biostatistics, Columbia University Medical Center, New York, NY, June 30, 2011.

70. Navigating the Rocky Shoals of Adaptive Clinical Trial Design and Conduct. Biosatistiques et Epidémiologie Clinique, Hôpital Saint-Louis, Paris, France, September 14, 2011.

71. Patient-Specific Dose-Finding Based on Bivariate Efficacy-Toxicity Outcomes and Prognostic Covariates. Department of Biostatistics, Vanderbilt University School of Medicine, Nashville, TN, November 2, 2011.

72. Utility-Based Dose-Finding with Ordinal Toxicity and Efficacy. Department of Biostatistics and Medical Informatics, University of Wisconsin-Madison, May 4, 2012.

73. A Bayesian Adaptive Design to Optimize Sedative Dose for Neonates Prior to Intubation. Hôpital Universitaire des Enfants Reine Fabiola, Brussels, Belgium, October 2, 2012.

74. Utility-Based Dose-Finding with Ordinal Toxicity and Efficacy. Department of Epidemiology, Biostatistics, and Occupational Health, McGill University, Montreal, Canada, February 12, 2013.

75. Bayesian Hybrid Adaptive Designs for Clinical Trials. Cancer Outcomes Research Program and Sheps Center for Health Services Research, University of North Carolina, September 13, 2013.

76. Bayesian Sequentially Adaptive Clinical Trial Design: General Concepts and Applications. University of Texas Public Health School, Center for Clinical and Translational Sciences, Houston, TX, October 18, 2013.

77. Bayesian Dose-Finding in Two Treatment Cycles Using Joint Efficacy-Toxicity Utilities. Biostatistics Department, University of Michigan, April 17, 2014

78. Utility-Based Bayesian Adaptive Designs for Early Phase Clinical Trials. Radiation Oncology Department, University of Michigan, April 18, 2014

79. Optimizing Schedule-Dose Regimes in Early Phase Clinical Trials, Department of Biostatistics, Mailman School of Public Health, Columbia University, May 1, 2014

80. Bayesian Methods for Targeted Agents in Early Phase Clinical Trials. INSERM UMRS 1138, Information Sciences to support Personalized Medicine, Centre de Recherche des Cordeliers, Paris, France, May, 26, 2014

81. Utility-Based Bayesian Adaptive Designs for Early Phase Clinical Trials. INSERM UMRS 1138, Clinical Epidemiology and Economic Evaluation Applied to Vulnerable Populations, UEC - Hopital Robert Debre, Paris, France, May 28, 2014

82. Utility-Based Bayesian Adaptive Designs for Early Phase Clinical Trials. Greehey Children's Cancer Research Institute, University of Texas Health Science Center, San Antonio, Texas, February 13, 2015.

83. SMART Design, Conduct, and Analysis in Oncology. Systèmes d'Information et Médecine Personnalisée, Centre de Recherche des Cordeliers, INSERM, Paris, France, April 13, 2015.

84. Utility-Based Bayesian Adaptive Designs for Early Phase Clinical Trials. University of Texas Southwestern Medical Center, Dallas, Texas, October 2, 2015.

85. Dysfunctional Conventions in Clinical Trials: Some Practical Alternatives. Early Phase Biometrics, AstraZeneca Phamaceuticals, Boston, MA, March 18, 2016.

86. Utility-Based Bayesian Adaptive Designs for Early Phase Clinical Trials. Early Phase Biometrics, AstraZeneca Phamaceuticals, Boston, MA, March 18, 2016.

87. Caveats for Outcome Adaptive Randomization in Comparative Clinical Trials. Systèmes d'Information et Médecine Personnalisée, Centre de Recherche des Cordeliers, INSERM, Paris, France, June 13, 2016.

Other Presentations

1. Cluster Shock Models. American Statistical Association Meeting, Washington, D.C., 1979.

2. Gambling and Games of Chance. Washington Statistical Society, Washington, D.C., 1983.

3. Assessment of Stratum-Covariate Interactions in Cox's Proportional Hazards Regression Model. Society for Clinical Trials Annual Meeting, St. Louis, Missouri, 1983.

4. Nonparametric Two-Sample Tests for Recurrence Rates Based on Censored Count Data. Society for Clinical Trials Meeting, Montreal, Canada, 1986.

5. Mixed Poisson Likelihood Regression Models for Longitudinal Interval Count Data. American Statistical Association Meeting, Chicago, IL, 1986.

6. A Two-stage Design for Choosing Among Several Experimental Treatments and a Control in Phase III Clinical Trials. Society for Clinical Trials Meeting, Atlanta, GA, 1987.

7. Optimal Two-Stage Designs for Clinical Trials with Binary Response. Society for Clinical Trials Meeting, San Diego, CA, 1988.

8. Some Covariance Models for Longitudinal Count Data with Overdispersion. Biometric Society ENAR Meeting, Baltimore, Maryland, 1990, also presented to the Department of Statistics, Rice University, Houston, Texas, February, 1991.

9. A Comparative Analysis of Complete Remission and Survival in AML Patients Treated with High Dose ARA-C Alone or +GM-CSF. Department of Hematology, MDACC, June 5, 1991.

10. A Bayesian Treatment Selection Design for Evaluating New Therapies in Leukemia. Dept. of Hematology, MDACC, September 26, 1991.

11. A Bayesian Strategy for Screening Cancer Treatments Prior to Phase II Evaluation. Division of Medicine, MDACC, April 7, 1992.

12. Basic Concepts in Statistics. Melanoma/Sarcoma Research Conference, MDACC, April 13, 1992.

13. How to Survive Statistics. Melanoma/Sarcoma Research Conference, MDACC, April 20, 1992.

14. Your Friend, the Sample Statistic. Melanoma/Sarcoma Research Conference, MDACC, April 27, 1992.

15. The Mythology of P-values: Hypothesis Testing in the Clinic. Melanoma/Sarcoma Research Conf, MDACC, May 4 and June 8, 1992.

16. Practical Bayesian Guidelines for Phase IIB Clinical trials. 1992 annual meetings for the Society for Clinical Trials, Philadelphia, PA, May 10-13, 1992.

17. Confidence Intervals and Multiple Testing. Melanoma/Sarcoma Research Conference, MDACC, June 15, 1992.

18. Regression: Fitting Equations to Data. Melanoma/Sarcoma Research Conference, MDACC, June 22, 1992.

19. Statistical Designs for Phase II Clinical Trials. Melanoma/Sarcoma Research Conference, MDACC, July 6, 1992.

20. Phase II Trials With Continuous Monitoring: a Bayesian Design. Melanoma/Sarcoma Research Conference, MDACC, July 20, 1992.

21. A Bayesian Strategy for Screening Cancer Treatments Prior to Phase II Clinical Evaluation. 13th annual meeting of the International Society of Clinical Biostatistics, Copenhagen, Denmark, August 17-21, 1992.

22. A Bayesian Design for a Phase IIB Study of Transretinoic Acid + Idarubicin in APL Patients. Dept. of Hematology, MDACC, September 30, 1992.

23. Bayesian Death in the Clinic. Department of Hematology, MDACC, April 14, 1993.

24. Design of Phase II Bone Marrow Transplant Studies. Section of Bone Marrow Transplant, Dept. of Hematology, MDACC, April 27, 1993.

25. Results of Accelerated Radiotherapy with Carboplatin in Glioblastomas. Department of Neuro-Oncology, MDACC, May 6, 1993.

26. Sample Size and Monitoring Criteria for Bayesian Phase II Clinical Trials. 14th Annual Meeting of the Society for Clinical Trials, Orlando, FL, May 25, 1993.

27. Q-Twist: A Quality-of-Life Oriented Statistic for Cancer Clinical Trials. Quality of Life Multidisciplinary Study Group, MDACC, July 8, 1993.

28. New Designs for Clinical Trials With Multiple Endpoints. Department of Hematology, MDACC, August 25, 1993.

29. Practical Bayesian Stopping Rules for Clinical Oncologists. Research Council, MDACC, September 13, 1993.

30. Bayesian Designs for Phase II Clinical Trials With Single or Multiple Endpoints. 14th Meeting, International Soc. Clinical Biostat, Cambridge, UK, September 20-24, 1993.

31. Prevalence of a Transient Condition: A Quantitative Method for Evaluating Quality of Life in Clinical Trials. Quality of Life Multidisciplinary Study Group, MDACC, February 22, 1994.

32. A Quantitative Method for Evaluating Quality of Life in Clinical Trials. Dept of Hematology, MDACC, March 9, 1994.

33. Bayesian Sequential Monitoring Designs For Single-Arm Clinical Trials with Multiple Outcomes. ENAR Meeting of Biometric Society, Cleveland, OH, April 10-14, 1994.

34. A Statistical Design for the CD34 Allogeneic Bone Marrow Transplant Trial: Application of the Thall-Simon-Estey Monitoring Strategy. Section of Bone Marrow Transplant, Dept. of Hematology, MDACC, April 19, 1994.

35. Bayesian Sequential Monitoring Designs For Single-Arm Clinical Trials with Multiple Outcomes. 1994 Meeting of the Soc. for Clinical Trials, Houston, TX, May 8-11, 1994.

36. Statistical Designs for Monitoring Single-Arm Clinical Trials with Multiple Outcomes. Pediatrics Research Conference, Division of Pediatrics, MDACC, June 13, 1994.

37. Bayesian Sequential Monitoring Designs for Single-Arm Clinical Trials With Multiple Outcomes. 15th Meeting of the International Society of Clinical Biostatistics (ISCB) Basel, Switzerland, July 25-29, 1994.

38. Phase II Trials. Hematology/Oncology Fellows, MDACC, September 19, 1994.

39. Analysis of Prognostic Factors. Hematology/Oncology Fellows, MDACC, September 23, 1994.

40. A Strategy for Selecting Treatments for Phase II Study: The Phase I 1/2 Design. Program in Experimental Therapeutics, MDACC, January 17, 1995.

41. Bayesian Sequential Monitoring Designs for Single-Arm Clinical Trials with Multiple Outcomes. Department of Statistics, Rice University, Houston, TX, January 30, 1995.

42. Statistical Data Analysis: Fitting Equations to Data. Medical Oncology Fellows, MDACC, May 8, 1995.

43. Balancing Prognostic Factors in Randomized Clinical Trials: The Pocock-Simon Design. Leukemia Section, Hematology Dept., MDACC, September 6, 1995.

44. Statistical Designs for Phase II and Phase III Cancer Clinical Trials. Rhône-Poulenc Rorer Preceptorship Program, MDACC, October 24, 1995.

45. Statistical Designs for Phase II and Phase III Cancer Clinical Trials Rhône-Poulenc Rorer Preceptorship Program, MDACC, February 21, 1996.

46. Semiparametric Regression Analysis for Recurrent Event Interval Counts. 1996 ENAR Spring Meeting, Richmond, VA, March 19, 1996.

47. A Strategy for Monitoring Multiple Outcomes in Developmental Clinical Trials. Dept. of Nuclear Medicine, MDACC, April 30, 1996.

48. A New Statistical Strategy for Monitoring Multiple Adverse and Efficacy Outcomes in Phase I/II Clinical Trials. Division of Medicine Grand Rounds, MDACC, July 9, 1996.

49. Statistical Design of Phase II and Phase III Clinical Trials. ICC/Janssen Preceptorship Program, MDACC, July 30, 1996.

50. Variable Selection in Regression Via Repeated Data Splitting. ENAR Spring Meeting, Memphis, TN, March 23, 1997.

51. Variable Selection in Regression Via Repeated Data Splitting. 29th Symposium on the Interface Between Computing Science and Statistics, Houston, TX, May 15, 1997.

52. New Graphical Methods for Evaluating and Improving Goodness-of-Fit in Survival Analysis With the Cox Model. MDACC "Advances in Oncology" Grand Rounds, August 15, 1997.

53. A Strategy for Dose-Finding and Safety Monitoring Based on Efficacy and Adverse Outcomes in Phase I/II Clinical Trials. 3rd International Congress on Statistical Methods in Biopharmacy: Optimising in Drug Development, Paris, France, September 15-16, 1997.

54. A Strategy for Dose-Finding and Safety Monitoring Based on Efficacy and Adverse Outcomes in Phase I/II Clinical Trials. ENAR Spring Meeting, Pittsburgh, PA, March 28-April 1, 1998.

55. Practical Guidelines for Dose-Finding with the Continual Reassessment Method in Phase I Clinical Trials. Pediatric Research Conf., MDACC, September 14, 1998.

56. A Strategy for Dose-Finding and Safety Monitoring Based on Efficacy and Toxicity in Phase I/II Clinical Trials. Pediatric Research Conference, MDACC, October 5, 1998.

57. Treatment Comparisons based on Two-Dimensional Safety and Efficacy Alternatives in Oncology Trials. ENAR Spring Meeting, Atlanta, GA, March 28-31, 1999.

58. Safety Monitoring and Science in Clinical Trials. Rhone-Poulenc-Rohrer Preceptorship, MDACC, November 11, 1999.

59. A New Statistical Strategy for Evaluating AML/MDS Treatment Strategies. Department of Leukemia, MDACC, March 7, 2001.

60. A Survival Analysis of Data from 90 Chronic Lymphocytic Leukemia patients treated at MDACC. Department of Leukemia, MDACC, June 29, 2001.

61. Adaptive Designs for Early Phase Oncology Trials. Department of GI Medical Oncology, MDACC, February 27, 2002.

62. A General Approach to a Two-Component Phase I Trial. Grand Rounds, MDACC, June 21, 2002 (presented jointly with R. Millikan).

63. Dose-Finding in Early Phase Clinical Trials I: Methods Based on Toxicity. Department of Pediatrics, MDACC, March 19, 2003.

64. Dose-Finding in Early Phase Clinical Trial. Pediatric Grand Rounds, MDACC, April 21, 2003.

65. Effects of Tacrolimus Level on Survival Time in Allogeneic Transplant Patients. Department of Blood and Marrow Transplantation, MDACC, April 22, 2003.

66. Adaptive Decision-Making in Cancer Clinical Trials. Core Curriculum Lecture, MDACC, May 5, 2003.

67. New Methods for Dose-Finding in Early Phase Clinical Trials. Medical Grand Rounds, MDACC, July 8, 2003.

68. Adaptive Randomization in a Multi-Stage Trial: Gemcitabine +/- Docetaxel for Soft Tissue Sarcoma. In the session "Clinical Trials: 2003 and Beyond," annual meeting of the Connective Tissue Oncology Society, Barcelona, Spain, November 6-8, 2003.

69. Adaptive Randomization in Clinical Trials. Human Protocol Research, GS21 0132, Graduate School of Biomedical Sciences, MDACC, October 11, 2006.

70. Adaptive Randomization in Clinical Trials. Human Protocol Research, GS21 0132, Graduate School of Biomedical Sciences, MDACC, October 10, 2007.

71. Simultaneously Optimizing Dose and Schedule of a New Cytotoxic Agent : A New Paradigm for Phase I Clinical Trials. Presented to the Department of Stem Cell Transplantation and Cellular Therapy, MDACC, February 26, 2008.

72. Adaptive Randomization in Clinical Trials. Human Protocol Research, GS21 0132, Graduate School of Biomedical Sciences, MDACC, October 1, 2008

73. Two Adaptive Bayesian Designs for Early Phase Clinical Trials. Presented to External Review Panel for the Division of Quantitative Sciences at MDACC, June 2, 2009.

74. Innovative Bayesian Methods for Early Phase Clinical Trials. Human Protocol Research, GS21 0132, Graduate School of Biomedical Sciences, MDACC, September 30, 2009.

75. Innovative Bayesian Adaptive Clinical Trial Designs. Clinical Trials Faculty Meeting, Department of Investigational Cancer Therapeutics, MDACC, October 14, 2009.

76. Monitoring Multiple Events in Early Phase Clinical Trials. Clinical Trial Design Discussion Forum, Department of Biostatistics, MDACC, October 21, 2009.

77. A Bayesian-Frequentist Geometric Phase II-III Select-and-Test Design: Evaluating Chemotherapies for Choroid Plexus Carcinomas in Children. Department of Biostatistics, MDACC, February 8, 2010.

78. Innovative Bayesian Methods for Early Phase Clinical Trials. Human Protocol Research, GS21 0132, Graduate School of Biomedical Sciences, MDACC, November 3, 2010.

79. Innovative Bayesian Methods for Early Phase Clinical Trials. Human Protocol Research, GS21 0132, Graduate School of Biomedical Sciences, MDACC, March 21, 2012.

80. Evaluating Induction-Salvage Treatment Regimes in Therapy of AML/MDS. Hematology Grand Rounds, MDACC, May 9, 2012.

81. 22 Years Working as a Biostatistician in a Cancer Center: A Few Snapshots. Presentation to the Rice University Summer Institute of Statistics students, July 9, 2012.

82. Utility-Based Methods for Early Phase Clinical Trials. Department of Investigational Cancer Therapeutics, Pre-Clinical Meeting, MDACC, October 24, 2012.

83. Dysfunctional Conventions in Clinical Trials: Some Practical Alternatives. Grand Rounds, Department of Biostatistics, MDACC, January 17, 2013

84. Innovative Bayesian Methods for Early Phase Clinical Trials. Human Protocol Research, GS21 1132, Graduate School of Biomedical Sciences, MDACC, March 27, 2013.

85. 23 Years Working as a Biostatistician at M.D. Anderson Cancer Center: Some Very Brief Examples. Presentation to the Rice University Summer Institute of Statistics students, MDACC, June 7, 2013.

86. Dysfunctional Conventions in Clinical Trials: Some Practical Alternatives. Grand Rounds, Department of Anesthesiology, MDACC, July 3, 2013.

87. Dysfunctional Conventions in Clinical Trials. Department of Investigational Cancer Therapeutics, MDACC, October 24, 2013.

88. Counterintuitive Properties of Clinical Trials: Bayesian Methods to Avoid Getting it Wrong Department of Investigational Cancer Therapeutics, MDACC, February 6, 2014.

89. Bayesian Utility-Based Designs, Dynamic Treatment Regimes, and Personalized Medicine. Human Protocol Research, MDACC, March 26, 2014

90. Recent Practical Improvements in the EffTox Dose-Finding Design (jointly with R. Herrick). Informal Biostatistics Lunch Discussion, Department of Biostatistics, MDACC, April 14, 2014

91. Finding an Optimal Dose Pair of MLN0128 and Paclitaxel with a fixed dose of Carboplatin in Patients with Advanced Tumors: A Phase I-II Design. Department of Investigational Cancer Therapeutics, Clinical Studies Meeting, November 6, 2014.

92. Dysfunctional Conventions in Cancer Clinical Trials, and Some Practical Alternatives. Human Protocol Research, MDACC, March 25, 2015

93. Utility-Based Bayesian Adaptive Designs for Early Phase Clinical Trials. Department of Biostatistics, MDACC, October 12, 2015

94. Interim Analyses of Data from the START Trial, Protocol 2010-0085 (N. Tannir, PI). GU Oncology Department, MD Anderson Cancer Center, October 21, 2015

95. Dysfunctional Conventions in Cancer Clinical Trials: Some Practical Alternatives. Human Protocol Research, MDACC, March 23, 2016

96. Randomization and Bias in Clinical Research: Basic Concepts and Two Recent Applications. Surgical Oncology and Breast Medical Oncology Departments, MDACC, August 26, 2016

97. Dysfunctional Conventions in Clinical Trials: Some Practical Alternatives. Clinical Trials Workshop for Surgical Oncology and Breast Medical Oncology Fellows, January 19, 2018.

98. Randomization and Bias in Clinical Research: Basic Concepts and Some Recent Trial Designs. Clinical Trials Workshop for Surgical Oncology and Breast Medical Oncology Fellows, January 19, 2018.

Professional Societies

American Statistical Association
International Biometric Society
International Chinese Statistical Association
International Society for Bayesian Analysis
Royal Statistical Society
Society for Clinical Trials