

**MOUSUMI BANERJEE, Ph.D.**

**CURRICULUM VITAE**

Department of Biostatistics  
School of Public Health  
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**EDUCATION**

- 1983 – 1986 B.Stat., Statistics, Indian Statistical Institute, Calcutta, India.  
1986 – 1988 M.Stat., Statistics, Indian Statistical Institute, Calcutta, India.  
1989 – 1994 Ph.D., Statistics, University of Wisconsin, Madison.  
Dissertation title: “Influence Diagnostics in Longitudinal Models”.

**FACULTY APPOINTMENTS**

- 1994 – 1995 Assistant Professor, Department of Statistics, State University of New York, Buffalo, NY.  
1995 – 1998 Assistant Professor, Department of Pathology, Wayne State University School of Medicine, Detroit, MI.  
1996 – 1998 Assistant Professor, Departments of Pathology & Urology, Wayne State University School of Medicine, Detroit, MI.  
1996 – 2003 Faculty, Graduate Program in Cancer Biology, Wayne State University School of Medicine, Detroit, MI.  
1998 – 2001 Assistant Professor, Center for Healthcare Effectiveness Research & Department of Community Medicine, Wayne State University School of Medicine, Detroit, MI.  
2001 – 2003 Associate Professor (tenured), Center for Healthcare Effectiveness Research & Department of Community Medicine, Wayne State University School of Medicine, Detroit, MI.

Mousumi Banerjee, Ph.D.

Page 2

May 2003	Visiting Professor, School of Health Systems and Public Health, University of Pretoria, Pretoria, South Africa.
June – July 2003	Visiting Professor, Department of Statistics, Calcutta University, Calcutta, India.
2003 – 2005	Associate Research Scientist, Department of Biostatistics, University of Michigan, Ann Arbor, MI.
2005 – 2010	Research Associate Professor, Department of Biostatistics, University of Michigan, Ann Arbor, MI.
2010 – Present	Research Professor, Department of Biostatistics, University of Michigan, Ann Arbor, MI.

#### **OTHER PROFESSIONAL APPOINTMENTS**

1989 – 1994	Research and Teaching Assistant, Department of Statistics, University of Wisconsin, Madison.
1995	Director, Statistical Consulting Laboratory, State University of New York, Buffalo, NY.
1996	Biostatistician, Prostate Cancer Initiative, Wayne State University School of Medicine, Detroit, MI.
1998 – 2003	Member, Barbara Ann Karmanos Cancer Institute, Detroit, MI.
2004 – Present	Member, University of Michigan Comprehensive Cancer Center, Ann Arbor, MI.
2010 – Present	Director of Biostatistics, Center for Healthcare Outcomes and Policy, University of Michigan, Ann Arbor, MI.

#### **PROFESSIONAL SOCIETIES**

American Statistical Association.

Royal Statistical Society.

International Biometric Society.

International Indian Statistical Association.

American Association for Cancer Research.

## HONORS AND AWARDS

- Student Paper Award awarded by the Biopharmaceutical Section of the American Statistical Association for the paper entitled “Influence Diagnostics for Longitudinal Models” presented at the Joint Statistical Meetings in Toronto, Canada, 1994.
- Performance Recognition Award awarded by the Barbara Ann Karmanos Cancer Institute for outstanding performance based on system-wide and individual achievement to further the mission of the Institute, 1997.
- Excellence in Clinical Research Award awarded by the Blue Cross Blue Shield Foundation for the paper entitled “Recursive Partitioning for Prognostic Grouping of Patients with Clinically Localized Prostate Carcinoma”, 2002.
- 2005 McDevitt Excellence in Clinical Research Award awarded by the Blue Cross Blue Shield Foundation, 2005.
- Elected member of the International Statistical Institute, 2010.
- Fellow of the American Statistical Association, 2012.
- 2015 McDevitt Excellence in Health Policy Research Award awarded by the Blue Cross Blue Shield Foundation, 2015.

## TEACHING

### Courses Taught

- Department of Statistics, University of Wisconsin, Madison, Wisconsin, 1992-1994. Courses taught: *Principles of Statistics, Introduction to Statistical Methods, Introductory Statistics for Engineers.*
- Department of Statistics, State University of New York, Buffalo, New York, 1994-1995. Courses taught: *Design of Experiments, Sample Surveys Theory and Methods, Introduction to Data Analysis.*
- School of Medicine, Wayne State University, Detroit, Michigan, 1996-2003. Courses taught: *Applied Cancer Biostatistics (CB7600), Responsible Conduct in Research (BMS6010), Medical Fellows and Residents Lecture Series* in the Departments of Internal Medicine, Urology, and Anesthesiology.
- Department of Cardiology, Providence Hospital, Southfield, Michigan, 2001-2003. Courses taught: Lecture Series in *Clinical Research Methods* for fellows and residents.
- American Hospital Association, May 2002. Taught two-day short course on *Statistical Disclosure Risk and De-identification Methods for Tabular Data* held in Detroit, Michigan.
- School of Health Systems and Public Health, University of Pretoria, Pretoria, South Africa, May 2003. Course taught: *Principles of Biostatistics.*
- Department of Statistics, University of Calcutta, Calcutta, India, June – July 2003. Course taught: *Computer Intensive Methods in Statistics.*
- Department of Biostatistics, University of Michigan, Ann Arbor, On Job On Campus (OJOC) Program in Clinical Research Design and Statistical Analysis, June 2004 – April 2005. Course: *Statistical Methods for Epidemiology (Biostat 560).*
- Department of Biostatistics, University of Michigan, Ann Arbor, Winter 2005. Course: *Statistical Methods in Cancer Research (Biostat 664).*

- Department of Biostatistics, University of Michigan, Ann Arbor, Winter 2006. Course: *Applied Statistics III: ANOVA and Linear Mixed Models* (Biostat 653).
- Department of Biostatistics, University of Michigan, Ann Arbor, Fall 2006. Course: *Statistical Methods for Epidemiology* (Biostat 560).
- Department of Biostatistics, University of Michigan, Ann Arbor, Fall 2007. Course: *Statistical Methods for Epidemiology* (Biostat 560).
- Department of Biostatistics, University of Michigan, Ann Arbor, Winter 2009. Course: *Applied Statistics III: ANOVA and Linear Mixed Models* (Biostat 653).
- Department of Biostatistics, University of Michigan, Ann Arbor, On Job On Campus (OJOC) Program in Clinical Research Design and Statistical Analysis, Fall 2009. Course: *Biostatistics for Clinical Researchers* (Biostat 524).
- Department of Biostatistics, University of Michigan, Ann Arbor, On Job On Campus (OJOC) Program in Clinical Research Design and Statistical Analysis, Fall 2010. Course: *Statistical Methods for Epidemiology* (Biostat 560).
- Co-teaching: Department of Biostatistics, University of Michigan, Ann Arbor, Winter 2011. Course: *Applied Statistics III: ANOVA and Linear Mixed Models* (Biostat 653).
- Graduate Summer Session in Epidemiology, University of Michigan School of Public Health, Summer 2011. Course: *Cancer Epidemiology II: Applications for Research and Cancer Prevention* (Epid 751).
- Department of Biostatistics, University of Michigan, Ann Arbor, On Job On Campus (OJOC) Program in Clinical Research Design and Statistical Analysis, Fall 2011. Course: *Biostatistics for Clinical Researchers* (Biostat 524).
- Department of Biostatistics, University of Michigan, Ann Arbor, On Job On Campus (OJOC) Program in Clinical Research Design and Statistical Analysis, Fall 2013. Course: *Biostatistics for Clinical Researchers* (Biostat 524).
- Department of Biostatistics, University of Michigan, Ann Arbor, On Job On Campus (OJOC) Program in Clinical Research Design and Statistical Analysis, Winter 2015. Course: *Biostatistical Modeling in Clinical Research* (Biostat 581).

### **Student Essays/Theses/Dissertations**

- John R. Schmidt, PhD Thesis Committee, “Quantifying the impact of construction accidents using predictive models”, Department of Civil Engineering, State University of New York, Buffalo, NY, 1997.
- Sara T. Broderick, MS Essay Advisor, “Comparative methods of cholesterol calculation”, Basic Medical Sciences, Wayne State University School of Medicine, Detroit, MI, 1998.
- Joy Tabron, MS Essay Committee, “An assessment of the factors contributing to the disparity in survival rates of African American women with breast cancer”, Basic Medical Sciences, Wayne State University School of Medicine, Detroit, MI, 2000.
- K.O. Akingba, MPH Dissertation, “The perceptions of carer/significant family members of child sexual abuse survivor about the immediate health care received at Mbabane government hospital, Mbabane, Swaziland”, School of Health Systems and Public Health, University of Pretoria, 2003.
- Thomas Dlamini, MSc Dissertation, “Elimination of measles in South Africa 1998-2004”,

School of Health Systems and Public Health, University of Pretoria, 2003.

- Namrata Shah, MPH Thesis Committee, Department of Epidemiology, University of Michigan, 2005.
- Cristina Aguillar, MPH Thesis Committee, Department of Epidemiology, University of Michigan, 2005.
- Shahed Samadi, MPH Thesis Committee, Department of Epidemiology, University of Michigan, 2005.
- Opoku Adjapong, Epid 659 (Capstone) Project Advisor, Department of Epidemiology, University of Michigan, 2008.
- Kate Allen, MPH Thesis Committee, Department of Epidemiology, University of Michigan, 2008.
- Brooke Spencer, MPH Thesis Committee, Department of Epidemiology, University of Michigan, 2008.
- Subhojit Dey, PhD Thesis Committee, Department of Epidemiology, University of Michigan, 2006 – 2009.
- Ying Ding, PhD Thesis Committee, Department of Biostatistics, University of Michigan, 2008 – 2009.
- Jennifer Schlichting, PhD Thesis Committee, Department of Epidemiology, University of Michigan, 2009 – 2012.
- Kelly Hirko, PhD Thesis Committee, Department of Epidemiology, University of Michigan, 2010 – 2012.
- Tomi Akinyemiju, PhD Thesis Committee, Department of Epidemiology, University of Michigan, 2010 – 2012.
- Oliver Lee, PhD Thesis Committee, Department of Biostatistics, University of Michigan, 2010 – 2012.
- Rong Xia, PhD Thesis Advisor, Department of Biostatistics, University of Michigan, 2012 – present.

### **Research Assistants Supervised**

- Debjit Biswas, Ph.D. Student in Statistics, Research Assistant, Center for Healthcare Effectiveness Research, Wayne State University, 1998-1999.
- Julie George, M.S.(Statistics), Research Assistant, Center for Healthcare Effectiveness Research, Wayne State University, 1999 – present.
- Anuradha Roy, Ph.D. Student in Statistics, Research Assistant, Center for Healthcare Effectiveness Research, Wayne State University, 2000-2001.
- Karl Brown, M.PH., Research Assistant, Center for Healthcare Effectiveness Research, Wayne State University, 2001-2002.
- Zongshan Lai, M.S. (Statistics), Research Assistant, Center for Healthcare Effectiveness Research, Wayne State University, 2003.
- Tom Lodise, Pharm D., Pharmacoeconomic Fellow, Anti-Infective Research Laboratory, College of Pharmacy, Wayne State University, 2002.
- Heather Crossley-May, B.S., Research Assistant, Division of Epidemiology, Karmanos Cancer Institute, 2001-2003.
- Cecilia Yee, M.S. (Statistics), Research Assistant, Division of Epidemiology, Karmanos Cancer Institute, 2003 – present.

Mousumi Banerjee, Ph.D.

Page 6

- Dawei Liu, Ph.D. Student, Department of Biostatistics, University of Michigan, 2004 – 2005.
- Anne-Michelle Noone, Ph.D. Student, Department of Biostatistics, University of Michigan, 2005 – 2007.
- Ying Ding, Ph.D. Student, Department of Biostatistics, University of Michigan, 2007 – 2008.
- Xi Xia, Ph.D. Student, Department of Biostatistics, University of Michigan, 2008 – 2009.
- Di Yang, M.S. Student, Department of Biostatistics, University of Michigan, 2011 – 2012.
- Daniel Muenz, Ph.D. Student, Department of Biostatistics, University of Michigan, 2011 – 2014.
- Rong Xia, Ph.D. Student, Department of Biostatistics, University of Michigan, 2010 – *present*.
- Cui Guo, Ph.D. Student, Department of Biostatistics, University of Michigan, 2013 – *present*.
- Evan Reynolds, Ph.D. Student, Department of Biostatistics, University of Michigan, 2015 – *present*.

### **K30 Project Supervision (OJOC Program)**

- Michelle Anderson, MD, Division of Gastroenterology, Department of Internal Medicine, University of Michigan, 2004 – 2005.
- Preeti Malani, MD, Geriatric Medicine and Infectious Diseases, Department of Internal Medicine, University of Michigan, 2006 – 2007.

### **Mentorship of Junior Faculty**

- Catherine van Poznak, MD, Division of Hematology Oncology, Department of Internal Medicine, University of Michigan: NIH K23 “Genetic Risk of Osteonecrosis of the Jaw in Patients with Metastatic Cancer”.
- Norah Lynn Henry, MD, PhD, Division of Hematology Oncology, Department of Internal Medicine, University of Michigan: NIH K07 “Predictors of Ovarian Function in Women Treated with Aromatase Inhibitors”.
- Megan R. Haymart, MD, Division of Metabolism, Endocrinology, and Diabetes and Hematology Oncology, University of Michigan: NIH K07 “Understanding Variation in Radioactive Iodine Use in Treatment of Thyroid Cancer”.
- Christopher Freise, PhD, RN, School of Nursing, University of Michigan: NIH K99 “Fostering Independence in Nursing and Outcomes Research”.
- Lena Chen, MD, Division of General Medicine, Department of Internal Medicine, University of Michigan: AHRQ K08 “Understanding Hospital Efficiency for Inpatient Medical Care”.
- Colin Cooke, MD, Division of Pulmonary & Critical Care Medicine, Department of Internal Medicine, University of Michigan: AHRQ K08 “Understanding Variation in the Use of Critical Care Services”.
- Sandra Wong, MD, Department of Surgery, University of Michigan: AHRQ K08 “Understanding Variation in Treatment Intensity with Poor Prognosis Cancers”.
- Samantha Hendren, MD, Department of Surgery, University of Michigan: NCI K07 “Improving Rectal Cancer Surgery through Regional Collaboration”.
- John Hollingsworth, MD, Department of Urology, University of Michigan: AHRQ K08 “Effects of Physician Social Networks on Surgical Care Safety, Quality, and Costs”.
- Michael Gaies, MD, Department of Pediatrics and Communicable Diseases, University of

Michigan: NHLBI K08 “Explaining Variation in Mortality after Pediatric Cardiac Surgery”.

- Brian Callaghan, MD, Department of Neurology, University of Michigan: NIH K23 “The Impact of Metabolic Syndrome on the Incidence of Neuropathy in Obese Patients”.

### **Course or Curriculum Development**

- Developed a semester-long course on Applied Cancer Biostatistics offered through the Graduate Program in Cancer Biology, Wayne State University School of Medicine, Detroit, MI, 1996.
- Co-Curriculum Developer, Global Curriculum Development for Integrated Epidemiology, Biostatistics and Foundational Mathematics Instruction, University of Pretoria, School of Health Systems and Public Health, Pretoria, South Africa and Wayne State University, School of Medicine, Detroit, Michigan, 2002-2003.
- Organizer and Chair, Seminar Series on “Quantitative Methods in Health Services Research”, Center for Healthcare Outcomes and Policy, University of Michigan, 2010 – present.

### **PROFESSIONAL SERVICE**

#### **Consulting Projects / Clinical Protocols**

- A Study on Aftercare Programs for Patients with Depressive Disorders. University of Wisconsin School of Nursing, Madison, WI, 1992.
- Error Components in Manual Digitization. Department of Civil Engineering, University of Wisconsin, Madison, WI, 1993.
- Department of Preventive Medicine, University of Wisconsin Medical School, Madison, WI, 1993 – 1994.
- Michigan Peer Review Organization, Plymouth, MI, 1999.
- Evaluation of Doppler Echocardiographic Velocities in Intraaortic Balloon Pumping: Doppler Correlates of Left Ventricular Performance and Prognostic Implications for Weaning. Principal Investigator: Sugata Das, Department of Cardiology, Providence Hospital, Southfield, MI, 2002 – 2003.
- Assessment of a Warfarin Nomogram in the Inpatient Setting. Principal Investigator: John Dougherty, Department of Internal Medicine, Wayne State University, Detroit, MI, 2002 – 2003.
- Lumbar Spinal Stenosis: A Prospective Short Term Study Assessing the Efficacy of Epidural Steroid Injections. Principal Investigator: David Berkower, Department of Physical Medicine and Rehabilitation, Wayne State University, Detroit, MI, 2003.
- DVT Prophylaxis in Spinal Cord Injury Patients. Principal Investigator: Hadassah Lustig, Wayne State University Rehabilitation Institute, Detroit, MI, 2003.
- Study of Treprostinil Rx with an Implantable Pump: Efficacy and Safety. Principal Investigator: Asadulla Mohammed, Pulmonary and Critical Care Medicine, Wayne State University, Detroit, MI, 2003.

- A Comparison Study between Three Different Approaches to an Axillary Block with a Single Injection Technique. Principal Investigator: Samuel Perov, Department of Anesthesiology, Wayne State University, Detroit, MI, 2003.
- Blinded vs. Ultrasound-Guided Axillary Brachial Plexus Block. Principal Investigator: Bernardo Tisminezky, Department of Anesthesiology, Wayne State University, Detroit, MI, 2003.
- Michigan Antibiotic Resistance Reduction Coalition. Principal Investigator: Nadia Juzych, Michigan Public Health Institute, 2002 – 2005.
- Studies of Single Nucleotide Polymorphisms in Genes related to Tamoxifen Metabolism and Activity. Principal Investigator: Daniel F. Hayes, Division of Hematology Oncology, Department of Internal Medicine, University of Michigan, Ann Arbor, 2006 – 2009.
- Analysis of Breast Cancer Specimens following Neoadjuvant Chemotherapy. Principal Investigator: Anne Schott, Division of Hematology Oncology, Department of Internal Medicine, University of Michigan, Ann Arbor, 2006 – 2009.
- Aromatase Inhibitors in Premenopausal Breast Cancer Patients with Chemotherapy-Induced Ovarian Failure. Principal Investigator: Norah Henry, Division of Hematology Oncology, Department of Internal Medicine, University of Michigan, Ann Arbor, 2007 – 2010.
- A Pilot Observational Study to Assess Changes in Biochemical Parameters of Ovarian Reserve with Chemotherapy. Principal Investigator: Norah Henry, Division of Hematology Oncology, Department of Internal Medicine, University of Michigan, Ann Arbor, 2007 – 2010.
- Characterization of AI-induced Musculoskeletal Changes with Ultrasound. Principal Investigator: Norah Henry, Division of Hematology Oncology, Department of Internal Medicine, University of Michigan, Ann Arbor, 2007 – 2010.
- Genetic Risk of Osteonecrosis of the Jaw (ONJ) in Patients with Metastatic Cancer: Concordance Study. Principal Investigator: Catherine Van Poznak, Division of Hematology Oncology, Department of Internal Medicine, University of Michigan, Ann Arbor, 2008 – present.
- Pilot Prospective Clinical Trial Evaluating Duloxetine for Treatment of AI-associated Musculoskeletal Symptoms. Principal Investigator: Norah Henry, Division of Hematology Oncology, Department of Internal Medicine, University of Michigan, Ann Arbor, 2008 – present.
- Pilot Study to Compare Estradiol Assays in Postmenopausal Women with Breast Cancer. Principal Investigator: Norah Henry, Division of Hematology Oncology, Department of Internal Medicine, University of Michigan, Ann Arbor, 2009 – present.
- Racial/Ethnic and Socioeconomic Status Disparities in Quality of Breast Cancer Systemic Therapy. Principal Investigator: Jennifer Griggs, Division of Hematology Oncology, Department of Internal Medicine, University of Michigan, Ann Arbor, 2009 – 2013.

### **Committees**

- Chair, Seminar Planning Committee, Healthcare Effectiveness Research Seminar Series,



Wayne State University, 2001 – 2003.

- Member, Executive Committee, International Indian Statistical Association, 2004 – 2007.
- Chair, Seminars and Student Brownbags Committee, Department of Biostatistics, University of Michigan, 2005 – 2006.
- Member, Cancer Prevention and Control Protocol Review Committee, University of Michigan Comprehensive Cancer Center, Ann Arbor, 2004 – 2007.
- Member, Graduate Admissions Committee, Department of Biostatistics, University of Michigan, 2006 – 2007.
- Member, Protocol Review Committee, University of Michigan Comprehensive Cancer Center, Ann Arbor, 2007 – Present.
- Member, Computing Committee, Department of Biostatistics, University of Michigan, 2008 – 2009.
- Member, Chair Selection Committee, Department of Biostatistics, University of Michigan, 2009.
- Member, 50/60 Conference Organizing Committee, Department of Biostatistics, University of Michigan, 2009.
- Member, Graduate Admissions Committee, Department of Biostatistics, University of Michigan, 2009 – 2013.
- Data Safety and Monitoring Committee for study “Altered Brain Function in Chemotherapy for Breast Cancer” (PI: B. Cimprich), School of Nursing, University of Michigan, 2008 – Present.
- Elected Officer: Biometrics Section Council of Sections (COS) Representative, American Statistical Association, 2010 – 2012.
- Membership Elections Committee: International Statistical Institute, 2013 – present.
- Global Public Health Faculty Advisory Committee, School of Public Health, University of Michigan, 2014 – Present.

## Reviewer/Referee

- Reviewer: American Institute of Biological Sciences review panel, April 2015.
- Reviewer: Special Research Initiative Statistical Methods review panel, California Breast Cancer Research Program, May 2009.
- Reviewer: SPORE in Lung, H&N, Lymphoma, and Brain Cancers review panel, National Cancer Institute, February 2007.
- Reviewer: National Institute of General Medical Sciences (NIGMS) Minority Biomedical Research Support (MBRS) review panel, February 2005.
- Reviewer: NIH Study Section on Epidemiology and Disease Control, 1996.
- Referee for the following journals/edited volumes
  - Journal of the American Statistical Association*
  - Biometrics*
  - Biostatistics*
  - Technometrics*
  - Statistics in Medicine*
  - Communications in Statistics*
  - Journal of Clinical Oncology*
  - Breast Cancer Research and Treatment*

*Cancer*

*BMC Medical Informatics and Decision Making*

*Investigative Ophthalmology & Visual Science*

*Computational Methods in Biomedical Research*

- Book Reviewer: “Longitudinal and Panel Data: Analysis and Applications” by Edward W. Frees, Cambridge University Press, 2003.

### **Conference Organization**

- Invited Session Organizer, “Statistical Methods in Cancer Research”, 4<sup>th</sup> International Indian Statistical Association Meeting, Dekalb, Illinois, 2002.
- Invited Session Organizer, “Interrater Agreement Measures” International Conference on Statistics in Health Sciences, Nantes, France, 2004.
- Topic Contributed Session Organizer, “Statistical Developments in Cancer Surveillance Research”, Joint Statistical Meetings, Seattle, 2006.
- Topic Contributed Session Co-organizer, “Competing Risks in Cancer Epidemiology”, Joint Statistical Meetings, Seattle, 2006.
- Invited Session Organizer, “Case Studies in Biomedicine” International Indian Statistical Association Meeting, Cochin, India, 2007.
- Invited Session Organizer, “Developments in Statistical Methods and Applications in Cancer Research” International Indian Statistical Association Meeting, Riverside, California, June 2014.
- Invited Session Organizer, “Statistical Methods in Health Services and Outcomes Research” International Statistical Institute Regional Meeting, Kuala Lumpur, Malaysia, November 2014.

### **Other Professionally Related Service**

- Panelist, Career Development Committee of the President’s Commission on the Status of Women, Wayne State University, Detroit, Michigan, 2002.
- Judge, 67<sup>th</sup> Annual Resident Research Day, Providence Hospital, Southfield, Michigan, 2002.
- Panelist, Career Development Committee of the President’s Commission on the Status of Women, Wayne State University, Detroit, Michigan, 2003.
- Editor, Newsletter of the International Indian Statistical Association, 2004 – 2005.
- Member of UM School of Public Health Dean’s Delegation to the Public Health Foundation of India, Delhi, India, 2013.
- Member of UM School of Public Health Dean’s Delegation to the Prince of Songkla University, Thailand, 2014.

### **GRANT SUPPORT**

### Currently Funded

1. American Cancer Society. “Understanding Variation in Treatment Intensity with Poor Prognosis Cancers”. PI: S. Wong. **M. Banerjee: Co-investigator** (10% effort), 07/01/12 – 06/30/15.
2. Agency for Healthcare Research and Quality. “Impact of Urologist Practice Structure on Prostate Cancer Care.” PI: B. Hollenbeck. **M. Banerjee: Co-investigator** (5% effort), 03/01/13 – 02/28/17.
3. National Institutes of Health. “Coaching Intervention to Improve Technical Skill in Surgery”. PI: J. Dimick. **M. Banerjee: Co-investigator** (10% effort), 05/01/14 – 04/30/19.
4. Blue Cross Blue Shield of Michigan Foundation. “Medical Consultants and the Value of Hospital Care.” PI: L. Chen. **M. Banerjee: Co-investigator** (2.5% effort), 10/01/14 – 09/30/15.
5. National Institutes of Health. “Causes and Consequences of Health Care Efficiency.” PI: L. Chen. **M. Banerjee: Co-investigator** (2.5% effort), 12/01/12 – 11/30/15.
6. National Cancer Institute. “The Function of EZH2 in Estrogen Receptor Negative Breast Cancer in Women of African Ancestry”. PI: C. Kleer. **M. Banerjee: Co-investigator** (5% effort), 10/01/10 – 09/30/15.
7. National Cancer Institute. “The Role of EZH2 in Breast Cancer Progression”. PI: C. Kleer. **M. Banerjee: Co-investigator** (5% effort), 07/01/10 – 06/30/15.
8. National Cancer Institute. “Role of CCN6 (WISP3) in the Progression and Metastasis of Breast Cancer”. PI: C. Kleer. **M. Banerjee: Co-investigator** (5% effort), 12/01/13 – 11/30/18.
9. National Institutes of Health. “Genetic Predictors of Anti-Estrogen Clinical Activity in Breast Cancer Patients”. PI: J. Rae. **M. Banerjee: Co-investigator** (10% effort), 04/01/11 – 03/31/16.
10. American Cancer Society. “Patient and Provider Influences on Quality of Care for Colorectal Cancer”. PI: A. Morris. **M. Banerjee: Co-investigator** (3% effort), 07/01/11 – 06/30/15.
11. Agency for Healthcare Research and Quality. “Understanding Failure to Rescue after Surgical Complications”. PI: J. Birkmeyer. **M. Banerjee: Co-investigator** (5% effort), 12/01/12 – 11/30/15.
12. Agency for Healthcare Research and Quality. “Video Analysis for Ensuring Safer Diffusion of New Procedures”. PI: J. Dimick. **M. Banerjee: Co-investigator** (5% effort), 12/01/14 – 11/30/19.
13. National Institutes of Health. “Understanding optimal delivery systems for cancer care”. PI: D. Miller. **M. Banerjee: Co-investigator** (5% effort), 05/01/14 – 04/30/19.
14. PCORI. “Improving Patient Decisions about Bariatric Surgery”. PI: N. Birkmeyer. **M. Banerjee: Co-investigator** (10% effort), 01/01/14 – 12/31/16.

### Pending

1. National Institutes of Health. “Treatment Decision Making in Low Risk Thyroid Cancer”. PI: M. Haymart. **M. Banerjee: Co-investigator** (10% effort), 09/01/15 – 08/31/19.
2. American Cancer Society. “Understanding the Implications of Thyroid Cancer Recurrence”. PI: M. Haymart. **M. Banerjee: Co-investigator** (5% effort), 01/01/16 – 12/31/19.
3. National Comprehensive Care Network. “Partner Status and Receipt of NCCN Guideline-

- Concordant Colon Cancer Care.” PI: J. Griggs. **M. Banerjee: Co-investigator** (2.5%), 07/01/15- 06/30/17.
4. National Institutes of Health. “Effects of Accountable Care Organizations on Post-Acute Care for the Elderly.” PI: L. Chen. **M. Banerjee: Co-investigator** (10% effort), 09/01/15-08/31/20.
  5. National Institutes of Health. “Ethnic Differences in the Metabolic Risk Factors for Diabetic Neuropathy between Asian Indians and Americans”. PI: E. Feldman, **M. Banerjee: Co-investigator** (5% effort), 07/15/15 – 06/30/17.
  6. PCORI. “Accelerating methods for longitudinal follow-up of childhood disease.” PI: S. Pasqualli, **M. Banerjee: Co-investigator** (10% effort), 12/01/15 – 11/30/18.

### Past Funded

1. National Cancer Institute. “Machine Learning Tools for Prognostication in Melanoma”. **PI: M. Banerjee** (25% effort), 10/01/11 – 09/30/14.
2. University of Michigan M-Cubed Program. “Estimating Conditional Survival for Breast, Colorectal, and Thyroid Cancer Patients”. **PI: M. Banerjee**, S. Wong, M. Haymart, 06/01/2013 – 12/31/2014.
3. Agency for Healthcare Research and Quality. “Ambulatory Surgery Centers and Medicare Expenditures for Outpatient Procedures.” PI: B. Hollenbeck. **M. Banerjee: Co-investigator** (10% effort), 10/01/10 – 09/30/14.
4. National Cancer Institute. “Understanding Racial Disparities in Cancer Surgery”. PI: J. Birkmeyer. **M. Banerjee** (5% effort), 09/01/10 – 08/31/13.
5. National Cancer Institute. “Racial/Ethnic and SES Disparities in Quality of Breast Cancer Systemic Therapy”. PI: J. Griggs. **M. Banerjee: Co-investigator** (10% effort), 08/01/09 – 07/31/13.
6. National Institutes of Health. “Return on Investment for Quality Improvement Collaboratives in Surgery.” PI: N. Birkmeyer. **M. Banerjee: Co-investigator** (10% effort), 04/01/10 – 03/31/13.
7. National Institutes of Health. “Optimizing Prophylaxis Venous Thromboembolism in Bariatric Surgery.” PI: N. Birkmeyer. **M. Banerjee: Co-investigator** (15% effort), 04/01/10 – 03/31/13.
8. Damon Runyon Foundation. “Pain Processing Pathway Analysis in Aromatase Inhibitor-Associated Musculoskeletal Syndrome.” PI: N.L. Henry. **M. Banerjee: Co-investigator** (5% effort), 07/01/10 – 06/30/13.
9. National Cancer Institute. “Structure, Process, and Outcomes in Cancer Surgery”. PI: J. Birkmeyer. **M. Banerjee** (10% effort), 09/01/09 – 08/31/12.
10. Cardiovascular Center Inaugural Grant, University of Michigan. “Using Tree-Based Methods to Provide Individualized Risk Prediction in Patients Undergoing Percutaneous Coronary Interventions.” **PI: M. Banerjee & H.Gurm** (25% GSRA funding), 01/01/11 – 12/31/11.
11. Lance Armstrong Foundation. “Racial Disparities in Treatment for Prostate Cancer.” **PI: M. Banerjee** (15% effort), 01/01/06-08/31/09.
12. National Institute of Health. “Role of EZH2 in Breast Cancer.” PI: C. Klee. **M. Banerjee: Co-investigator** (5% effort), 02/01/05-01/31/10.
13. Eli Lilly Pharmaceuticals. “Pilot Prospective Clinical Trial Evaluating the Use of Duloxetine for Treatment of Aromatase Inhibitor-Associated Musculoskeletal Symptoms in Breast Cancer Patients”. PI: Norah Henry. **M. Banerjee** (4% effort), 11/01/08 – 04/30/10.

Mousumi Banerjee, Ph.D.

Page 13

14. Avon Foundation. “Enhancer of Zeste2 as a Biomarker of Preneoplastic Progression in the Breast.” PI: C. Kleer. **M. Banerjee: Co-investigator** (15% effort), 01/01/08 – 12/31/09.
15. National Institute of Health. “Mechanisms Underlying ER-Negative Breast Cancer”. PI: D. El-Ashry. **M. Banerjee: Co-investigator**, 07/01/06 – 06/30/10.
16. Susan G. Komen Breast Cancer Foundation. “Restoring ER Expression and Anti-Estrogen Response to ER-Negative Breast Cancers”. PI: D. El-Ashry. **M. Banerjee: Co-investigator**, 05/01/06- 04/30/08.
17. Michigan Life Sciences Corridor. “Michigan Center for Pancreatic Cancer Molecular Diagnostics.” PI: D. Simeone. **M. Banerjee: Co-investigator**, 08/01/03-07/31/06.
18. Blue Cross Blue Shield of Michigan Foundation. “Racial Disparities in Treatment Patterns for Breast Cancer.” **PI: M. Banerjee**, 03/01/03-08/31/05.
19. Wayne State University Office of Global Education. “Program in Quantitative Techniques for the Health Sciences.” **PI: M. Banerjee**, 07/01/02-06/30/03.
20. National Institutes of Health. “Center for African American Urban Health.” PI: J. Flack. **M. Banerjee: Co-investigator**, 04/01/03-03/31/05.
21. National Cancer Institute. Cancer Center Support Grant. PI: J. Crissman. **M. Banerjee: Co-investigator**, 12/01/00 – 08/31/03.
22. National Cancer Institute. “Geographic Risk of Late Detection and Avoidable Mortality”. PI: K. Schwartz. **M. Banerjee: Co-PI**, 10/01/00 - 09/30/02.
23. U.S. Army. “Modulation of Growth and Differentiation in Breast Cancer by Soy Isoflavones”. PI: O. Kucuk. **M. Banerjee: Co-investigator**, 10/01/98-09/30/02.
24. Blue Cross Blue Shield of Michigan Foundation. “Early Identification of African Americans at High Risk for Stroke.” PI : S. Chaturvedi. **M. Banerjee: Co-investigator**, 10/1/00-09/30/02.
25. National Science Foundation. “Recursive Partitioning Methods to Predict Workers’ Compensation for Construction Accidents”. **PI: M. Banerjee**, 10/01/99-03/31/01.
26. National Institutes of Health. “A Randomized Controlled Phase 2 Clinical Trial of Modulation of Intermediate Endpoints by Chemopreventive Agents in Patients with Clinically Localized Prostate Cancer and High Grade PIN”. PI: O. Kucuk. **M. Banerjee: Co-investigator**, 10/01/98-03/31/01.
27. Karmanos Cancer Institute. “Outcome Prediction for Prostate Cancer Using Artificial Neural Networks”. **PI: M. Banerjee**, 04/01/98-03/31/00.
28. National Cancer Institute. “Risk Biomarker Evaluation for Prostate Cancer Chemoprevention Trials: Identification of Predictive Image Analysis Features in Archival Histological Sections of Organ Confined Prostate Cancer which Predict Development, Progression and Recurrence of Prostate Cancer”. PI: W. Sakr. **M. Banerjee: Co-investigator**, 10/01/98-09/30/00.
29. Department of Defense. “Modeling Differential Rates of Increase of Serial PSA in African Americans and Caucasians Following Radical Prostatectomy”. **PI: M. Banerjee**, 01/01/99-12/31/99.
30. American Cancer Society. “Genetic Evaluation of Prostate Cancer Micrometastases”. PI: M. Cher. **M. Banerjee: Co-investigator**, 01/01/97-12/31/99.
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32. Karmanos Cancer Institute. “In Vitro and In Vivo Modulation of Prostate Cancer Cell Growth and Differentiation by Lycopene”. PI: O. Kucuk. **M. Banerjee: Co-investigator**, 03/01/97-08/31/98.

## PUBLICATIONS

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133. Friese CR, Xia R, Ghaferi AA, Birkmeyer JD, **Banerjee M**. Magnet hospital recognition and surgical mortality. *Health Affairs*. In press.
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### Other scholarly publications

1. **Banerjee M**. Caveats for Modeling Disease Free Survival after Radical Prostatectomy *Cancer*, 89: 234-235, 2000.
2. **Banerjee M.**, and Hryniuk W. Time for Reappraisal of Progesterone-Receptor Testing in Breast Cancer Management. *Journal of Clinical Oncology*, 23:2871, 2005.

### Invited talks

1. **Banerjee M**. Influence Diagnostics for Longitudinal Models. Department of Statistics, Northern Illinois University, Dekalb, IL, April 1998.
2. **Banerjee M.**, Taam W. What do market segmentation, credit scoring, identifying edible mushrooms, and prognostic grouping of cancer patients have in common? Seminar on Industrial Mathematics and Statistics, Department of Mathematics and Statistics, Oakland University, Rochester, MI, February 1999.
3. **Banerjee M**. Recursive Partitioning for Predicting Breast Cancer Survival. Office of Statistics Research, Center for Devices and Radiological Health, U.S. Food and Drug Administration, Rockville, MD, May 2001.
4. **Banerjee M**. A Tree-Based Model for Breast Cancer Prognosis. Department of Biostatistics and Epidemiology, Memorial Sloan-Kettering Cancer Center, New York, NY, June 2001.

5. **Banerjee M.** Interrater Agreement from Multiple Studies. Office of Biostatistics Research, Division of Epidemiology and Clinical Applications, National Heart, Lung, and Blood Institute, Bethesda, MD, September 2001.
6. **Banerjee M.** Racial Disparities in Breast Cancer Survival. Division of Cancer Control and Population Sciences, National Cancer Institute, Bethesda, MD, December 2001.
7. **Banerjee M.** Methods for Prognostic Stratification in Clinical Trials. Joint Statistical Meetings, New York, NY, August 2002.
8. **Banerjee M.** A Tree-Based Model for Breast Cancer Prognosis. Section on Biostatistics, Department of Public Health Sciences, Wake Forest University School of Medicine, Winston-Salem, NC, August 2002.
9. **Banerjee M.** Cook's Distance in Linear Longitudinal Models. International Conference on Ranking and Selection, Chennai, India, December 2002.
10. Basu S., Sen A., and **Banerjee M.** Bayesian Analysis of Competing Risks. International Bayesian Workshop, Indian Statistical Institute, Calcutta, India, January 2003.
11. **Banerjee M.** Analyzing Competing Risks Data with Masked Cause of Failure. Department of Biostatistics, University of Michigan, Ann Arbor, MI, February 2003.
12. **Banerjee M.** A Tree-Based Model for Studying Racial Disparities in Breast Cancer Survival. School of Health Systems and Public Health, University of Pretoria, Pretoria, South Africa, May 2003.
13. **Banerjee M.** Influence Diagnostics in Linear Longitudinal Models. Department of Statistics, University of Pretoria, Pretoria, South Africa, May 2003.
14. **Banerjee M.** Bayesian Analysis of Competing Risks Data. Department of Statistical Sciences, University of Cape Town, Cape Town, South Africa, May 2003.
15. **Banerjee M.** Analyzing Competing Risks Data with Masked Cause of Failure. Department of Statistics, University of Calcutta, Calcutta, India, July 2003.
16. **Banerjee M.** Modeling Inter-Observer Agreement from Single and Multiple Studies. International Conference on Statistics in Health Sciences, Nantes, France, June 2004.
17. **Banerjee M.** Competing Risks Analysis in Breast Cancer with Missing Cause of Death. Joint Statistical Meetings, Seattle, Washington, August 2006.
18. **Banerjee M.** Tree-Based Modeling for Breast Cancer Prognostication. International Indian Statistical Association Conference on Statistics, Probability and Related Areas, Cochin, India, January 2007.
19. **Banerjee M.** Tree-Based Methods for Survival Data. Division of Biostatistics and Epidemiology, Department of Family Medicine and Public Health Sciences, Wayne State University, Detroit, Michigan, April 2008.
20. **Banerjee M.** Tree-Based Methods for Survival Data. Department of Epidemiology, Michigan State University, East Lansing, Michigan, August 2008.
21. **Banerjee M.** Survival Trees and Forest for Breast Cancer Prognostication. Joint Statistical Meetings, Washington DC, August 2009.
22. **Banerjee M.** Understanding Diffusion of Innovative Treatments for Kidney Cancer Using Trees and Forest. Joint Statistical Meetings, Vancouver, Canada, August 2010.
23. **Banerjee M.** Logic Trees for Multilevel Data: Application to Cancer Care. International Conference on Statistical Concepts and Methods for the Modern World, Colombo, Sri Lanka, December 2011.



24. **Banerjee M.** Logic Trees for Multilevel Data: Application to Cancer Care. Conference on Contemporary Issues and Applications of Statistics, Indian Statistical Institute, Kolkata, India, January 2012.
25. **Banerjee M.** Survival Trees and Forest for Treatment Delivery for Kidney Cancer. International Society for Business and Industrial Statistics, Bangkok, Thailand, June 2012.
26. **Banerjee M.** Survival Trees and Forest for Thyroid Cancer Prognostication. Eighth International Triennial Calcutta Symposium, Kolkata, India, December 2012.
27. **Banerjee M.** Survival Ensembles and Representative Trees for Cancer Prognostication. Department of Mathematics and Statistics, University of Windsor, Canada, April 2013.
28. **Banerjee M.** Survival Ensembles and Representative Trees for Cancer Prognostication. Department of Statistics, University of Calcutta, India, June 2013.
29. **Banerjee M.** Survival Ensembles for Thyroid Cancer Prognostication. Joint Statistical Meetings, Montreal, Canada, August 2013.
30. **Banerjee M.** Which Career Path is Right for You? Women in Statistics Conference. May 2014.
31. **Banerjee M.** A Tree-Based Model for Thyroid Cancer Prognostication. International Society for Clinical Biostatistics Meeting, Vienna, Austria, August 2014.
32. **Banerjee M.** Understanding Diffusion of Innovative Treatments for Kidney Cancer using Trees and Forest. International Statistical Institute Regional Statistics Conference, Kuala Lumpur, Malaysia, November 2014.
33. **Banerjee M.** A Tree-Based Model for Thyroid Cancer Prognostication. Department of Biostatistics, All India Institute of Medical Sciences, New Delhi, India, February 2015.
34. **Banerjee M.** Understanding Diffusion of Innovative Treatments for Kidney Cancer using Trees and Forest. Public Health Foundation of India, New Delhi, India, February 2015.

### **Papers delivered at professional meetings**

1. **Banerjee M.,** Frees E.W. Influence Diagnostics for Longitudinal Models. Joint Statistical Meetings, Toronto, Canada, August 1994.
2. **Banerjee M.** Influence Diagnostics for Longitudinal Generalized Linear Models. International Biometric Society Eastern North American Region (ENAR) Annual Meeting, Richmond, Virginia, March 1996.
3. **Banerjee M.** Influence Diagnostics for Longitudinal Models of Discrete and Continuous Outcomes. Second World Congress of Nonlinear Analysts (WCNA), Athens, Greece, July 1996.
4. Sakr W.A., Grignon D.J., Lovisolo J., **Banerjee M.,** Wood D.P. Jr., Powell I.J., Pontes J.E., Crissman J.D. Refined Pathologic Staging is a Powerful Predictor of Outcome for Patients with Clinically Localized Prostate Cancer. *Modern Pathology* 10: 88A, 1997.
5. Vernick J., Sakr W.A., Grignon D.J., Swiriduk M., Wood D.P. Jr., Powell I.J., Pontes J.E., **Banerjee M.,** Crissman J.D. Does the Extent of Tumor Involvement of Surgical Margins or the Amount of Extraprostatic Tumor in the Radical Prostatectomy Specimen Correlate with Biochemical Recurrence. *Modern Pathology* 10: 94A, 1997.

6. Powell I.J., **Banerjee M.**, Sakr W., Grignon D., Novallo M., Honn K., Gao X., Wood D.P., Pontes J.E. Is Prostate Cancer Testing at an Earlier Age Among African American Men versus Caucasian Men Appropriate. *Journal of Urology* 157(4): 1160, 1997.
7. Pontes J.E., Tiguert R., Gheiler E.L., Telfilli M.V., **Banerjee M.**, Sakr W., Grignon D.J., Wood D.P. Jr. Difference in Location of Prostate Cancer between African Americans and Caucasians in Radical Prostatectomy Specimens. *Journal of Urology* 159(5S): 488, 1998.
8. Tiguert R., Gheiler E.L., Telfilli M.V., **Banerjee M.**, Pontes J.E., Wood D.P. Jr. The Role of Radical Prostatectomy in Patients with High Grade Prostate Cancer. *Journal of Urology* 159(5S): 228, 1998.
9. Powell I.J., **Banerjee M.**, Novallo M., Sakr W., Wood D.P. Jr., Pontes J.E. Prostate Cancer Biochemical Recurrence Stage for Stage is More Frequent among African American versus Caucasian Men with Locally Advanced but not Organ Confined Disease. *Journal of Urology* 159(5S): 1138, 1998.
10. Powell I.J., **Banerjee M.**, Novallo M., Sakr W., Wood D.P. Jr., Pontes J.E. Should the Age Specific PSA Cut-Point for Prostate Biopsy be Higher Among African American versus American Caucasian Men Above Age 50 Years. *Journal of Urology* 159(5S): 280, 1998.
11. Oliveira J.G., Barroso U., **Banerjee M.**, Sakr W., Wood D.P. Jr., Pontes J.E., Tefilli M.V., Gheiler E.L., Powell I.J. Predictors of Pelvic Lymph Node Positivity in Clinically Localized Prostate Cancer : A Study by Race. *Proceedings of the 17<sup>th</sup> International Cancer Congress*: 1151, 1998.
12. **Banerjee M.**, Basu S., Sen A. Bayesian Analysis of Kappa from Single and Multiple Studies. 2<sup>nd</sup> International Indian Statistical Association (IISA) Meeting, Hamilton, Canada, October 1998.
13. Kucuk O., Sakr W., Sarkar F.H., Djuric Z., Li Y.W., Velazquez F., **Banerjee M.**, Bertram J.S., Crissman J.D., Wood D.P. Jr. Lycopene Supplementation in Men with Localized Prostate Cancer Modulates Grade and Volume of Prostatic Intraepithelial Neoplasia and Tumor, Level of Serum PSA and Biomarkers of Cell Growth, Differentiation and Apoptosis. *Proceedings of the American Association for Cancer Research*, 40: 2706, 1999.
14. Triest J.A., Tiguert R., Gheiler E.L., **Banerjee M.**, Pontes J.E., Wood D.P. Jr. Outcome Analysis in Patients with a Preoperative Serum PSA of  $\geq 20$  ng/ml. Following Radical Prostatectomy. *Journal of Urology*, 161(4S): 681, 1999.
15. Gheiler E.L., Tiguert R., **Banerjee M.**, Sakr W., Grignon D.J., Pontes J.E., Wood D.P. Jr. Should a Patient with a Normal Digital Rectal Examination and an Abnormal Trans Rectal Ultrasound be Staged as cT1C or cT2? *Journal of Urology*, 161(4S): 910, 1999.
16. Sakr W., Tiguert R., Gheiler E.L., Tefilli M.V., **Banerjee M.**, Grignon D.J., Pontes J.E., Wood D.P. Jr. Gleason Score 7 Prostate Cancer : A Heterogeneous Entity ? Correlation with Pathologic Parameters and Disease Free Survival. *Journal of Urology*, 161(4S): 936, 1999.
17. Gheiler E.L., Tiguert R., Powell I.J., **Banerjee M.**, Pontes J.E., Wood D.P. Jr. Impact of Positive Surgical Margins on Disease Free Survival Between African American and Caucasian Men Following Radical Prostatectomy. *Journal of Urology*, 161(4S): 950, 1999.

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19. Pernick N., Qureshi F., Munkarah A., **Banerjee M.**, Jacques S.M. Fas and Fas ligand Expression in Advanced Stage Ovarian Carcinoma. *Modern Pathology*, 12:118A, 1999.
20. Aboussouan L.S., Khan S.U., Arroliga A., **Banerjee M.**, Mitsumoto H. Effect of Non-Invasive Positive Pressure Ventilation on Pulmonary Function in Amyotrophic Lateral Sclerosis. *Chest*, 116(4): 271S, 1999.
21. **Banerjee M.**, Basu S., Sen A. Bayesian Analysis of Kappa from Single and Multiple Studies. International Biometric Society Eastern North American Region (ENAR) Annual Meeting, Atlanta, Georgia, March 1999.
22. Basu S., Sen A., **Banerjee M.** Bayesian Analysis of Lifedata with Masked Cause-of-failure. Spring Research Conference on Statistics in Industry and Technology Annual Meeting, Minneapolis, Minnesota, June 1999.
23. Chaturvedi S, Kulkarni V, Shah AK, Caragine L, Kazmierczak C, Joshi N, **Banerjee M**, Dahn MS. Interspecialty Measurement of Carotid Stenosis: Are we Speaking the Same Language ? *Stroke*, 31: 186, 2000.
24. Trivedi C, Fontana J, Forman J, **Banerjee M**, Kucuk O, Sarkar F, Wood D, Hussain M. PSA Modulation in Prostate Cancer Patients by Soy Isoflavones. *Journal of Clinical Oncology*, 19(Suppl.): 1363, 2000.
25. Song E.Y., **Banerjee M.**, Du W., and Hryniuk W. Diabetes but not Obesity is a Prognostic Factor for Disease Free Survival in Women with Stage I, II, or III Breast Carcinoma Receiving Tamoxifen. *Breast Cancer Research and Treatment*, 64(1): 120, 2000.
26. **Banerjee M.**, Song E.Y., Roy A., Du W., and Hryniuk W. A Tree-Based Model for Breast Cancer Prognosis. 92<sup>nd</sup> Annual Meeting of the American Association for Cancer Research, New Orleans, Louisiana, March 2001. *Proceedings of the American Association for Cancer Research*, 42: 3092, 2001.
27. **Banerjee M.**, and Roy A. Comparing Two Goodness-of-Split Measures for Classification Trees: A Simulation Based Study. 8<sup>th</sup> Biennial Symposium on Statistical Methods, Centers for Disease Control and Prevention, Atlanta, Georgia, January 2001.
28. Hryniuk W., **Banerjee M.**, Du W., Heppner G., Severson R., and Song E.Y. Adjuvant Tamoxifen may be Relatively Ineffective in Women with Diabetes and Breast Cancer. *Proceedings of the American Society of Clinical Oncology*, 20: 141, 2001.
29. Miller V, Hamre M.R., **Banerjee M.**, Massanari R.M., and Kleerekoper M. Osteoporosis: Recognizing the Public Health Significance among Older Women. *Academy for Health Services Research and Health Policy*, 330, 2001.
30. Lodise T.P., McKinnon P.S., **Banerjee M.**, and Ryback M.J. Use of Classification and Regression Tree to Predict Patients at Risk for Methicillin-Resistant *Staphylococcus aureus* Bacteremia. *Proceedings of the 41<sup>st</sup> Interscience Conference on Antimicrobial Agents and Chemotherapy*, K-1220, 2001.

31. **Banerjee M.**, Song E.Y., Roy A., and Hryniuk W. Recursive Partitioning for Predicting Breast Cancer Survival. 4<sup>th</sup> Canadian Conference in Applied Statistics: Statistics 2001, Montreal, Canada, July 2001.
32. Hussain M., Sarkar F.H., Djuric Z., Pollak M.N., **Banerjee M.**, Doerge D., Fontana J., Chinni S., Davis J., Forman J., Wood D.P., Kucuk O. Soy Isoflavones in the Treatment of Prostate Cancer. *Journal of Nutrition*, 132: 575S-576S, 2002.
33. **Banerjee M.**, May H.C., Brown K., and Schwartz K. Race, Socioeconomic Status and Stage at Diagnosis in Five Frequently Diagnosed Malignancies. 93<sup>rd</sup> Annual Meeting of the American Association for Cancer Research, San Francisco, California, April 2002. *Proceedings of the American Association for Cancer Research*, 43: 1163, 2002.
34. Hryniuk W., Song E.Y., **Banerjee M.**, and Carter W. Dose Intensity and Cumulative Dose of Adjuvant Chemotherapy for Breast Cancer in African American or Obese Patients. *Proceedings of the American Society of Clinical Oncology*, 21: 258, 2002.
35. Thatai L.C., **Banerjee M.**, Khanna A., Vaishampayan U. Racial disparity in clinical course and outcome of androgen independent (AI) metastatic prostate cancer patients enrolled on clinical trials. *Proceedings of the American Society of Clinical Oncology*, 22: 1666, 2003.
36. **Banerjee M.**, George J., May H.C., and Schwartz K. Racial Disparities in Treatment Patterns for Prostate Cancer. *Minisymposium* presentation at the 95<sup>th</sup> Annual Meeting of the American Association for Cancer Research, March 2004, Orlando, Florida. *Proceedings of the American Association for Cancer Research*, 45: 4025, 2004.
37. **Banerjee M.**, George J., Powell I.J.. A Mixed Effects Model for Serial PSA following Surgery in Men with Prostate Cancer. Joint Statistical Meetings, Toronto, Canada, August 8-12, 2004.
38. Juzych N.S., **Banerjee M.**, Essenmacher L., and Lerner S.A. Changes in Antimicrobial Prescribing Patterns Following a Health Care Provider Educational Intervention. 132<sup>nd</sup> Annual Meeting of the American Public Health Association, November 6-10, 2004, Washington DC.
39. Powell I.J., Everson R.B., Fisher M., and **Banerjee M.** African American Men, Ages 40-59, Unlike Caucasian Men, Present With As Aggressive Prostate Cancer As Older African Americans: A Genetic Explanation. Annual Meeting of the American Urological Association, San Antonio, Texas, May 21-26, 2005.
40. **Banerjee M.**, Schwartz K.L., Crossley-May H., Noone A.M., Vigneau F., Simon M.S.. Breast Cancer Treatment and Survival in African Americans and Caucasians. 28<sup>th</sup> Annual San Antonio Breast Cancer Symposium, December 8-11, 2005, San Antonio, Texas.
41. Powell I.J., **Banerjee M.**, George J., Schwartz K. Treatment Choice does Impact Racial Outcome Disparity. Annual Meeting of the American Urological Association, Atlanta, Georgia, May 20-25, 2006.
42. Miller D.C., Saigal C.S., **Banerjee M.**, Hanley J., Litwin M.S. and the *Urologic Diseases in America* Project. Who are the Early Adopters of Laparoscopic Radical Nephrectomy? Annual Meeting of the American Urological Association, Orlando, Florida, May 17-22, 2008.
43. **Banerjee M.**, Ding Y., Noone A.M. Identifying Representative Trees in Random Forest for Survival Data. International Biometric Conference, Dublin, Ireland, July 2008.

44. **Banerjee M.**, Ding Y., Noone A.M. Identifying Representative Trees in Random Forest for Survival Data. Joint Statistical Meetings, Denver, Colorado, August 2008.
45. **Banerjee M.** Ensemble Regression Methods for Treatment Delivery in Cancer. International Biometric Conference, Florianopolis, Brazil, December 2010.

### **Community, Academic, or Consultation Service Presentations**

1. **Banerjee M.** Classification and Regression Trees (CART) for Medical Decision Making. Healthcare Effectiveness Research Seminar Series, Wayne State University, Detroit, Michigan, January 2000.
2. **Banerjee M.** Tree-Structured Models for Prognostic Grouping of Breast Cancer Patients. Karmanos Cancer Institute CETAID (Cancer Economics, Technology Assessment, Innovation & Development) Seminar, Wayne State University, Detroit, Michigan, September 2000.
3. **Banerjee M.** Modern Statistical Inference Based on Resampling Methods. Healthcare Effectiveness Research Seminar Series, Wayne State University, Detroit, Michigan, January 2001.
4. **Banerjee M.** Classification and Regression Trees. Biostatistics Unit, Karmanos Cancer Institute, Detroit, Michigan, January 2001.
5. **Banerjee M.** Regression Trees for Censored Survival Data. Biostatistics Unit, Karmanos Cancer Institute, Detroit, Michigan, March 2001.
6. **Banerjee M.** Research Study Design. Department of Cardiology, Providence Hospital, Southfield, Michigan, May 2001.
7. **Banerjee M.** Evaluating Treatment Effects. Department of Cardiology, Providence Hospital, Southfield, Michigan, October 2001.
8. **Banerjee M.** Statistical Considerations for Research Design. Department of Anesthesiology, Wayne State University, Detroit, Michigan, October 2002.
9. **Banerjee, M.** Mathematical Nomenclature for Statistical Disclosure Control. Thompson MEDSTAT Group, Ann Arbor, Michigan, October 2002.
10. **Banerjee, M.** Conceptualizing Data Intrusion for Statistical Disclosure Control. Thompson MEDSTAT Group, Ann Arbor, Michigan, October 2002.
11. **Banerjee M.** Confounding: Dealing with Extraneous Variables in Epidemiological Research. Department of Cardiology, Providence Hospital, Southfield, Michigan, November 2002.
12. **Banerjee M.** Survival Analysis Basics. Department of Cardiology, Providence Hospital, Southfield, Michigan, February 2003.
13. **Banerjee M.** What do Computer System Inspection and Prognostication of Cancer Patients Have in Common? Healthcare Effectiveness Research Seminar Series, Wayne State University, Detroit, Michigan, March 2003.
14. **Banerjee M.** How to Critique a Research Paper. Department of Internal Medicine, Division of Gastroenterology, Wayne State University, Detroit, Michigan, March 2003.
15. **Banerjee M.** Frailty Models for Survival Data – Theory, Methods and Applications. Biostatistics Unit, Karmanos Cancer Institute, Detroit, Michigan, April 2003.
16. **Banerjee M.** Frailty Models for Survival Data – Case Studies. Biostatistics Unit, Karmanos Cancer Institute, Detroit, Michigan, May 2003.

17. **Banerjee M.** Statistical Issues in the Design and Analysis of Clinical Trials. Residents and Fellows Seminar Series, Providence Hospital, Southfield, Michigan, September 2003.
18. **Banerjee M.** Tree-based Models for Cancer Prognostication. Biostatistics in Cancer Seminar (Biostatistics 803), Department of Biostatistics, University of Michigan, November 2003.
19. **Banerjee M.** Racial Disparities in Treatment Patterns for Breast Cancer. Breast Oncology Program Seminar Series, University of Michigan Comprehensive Cancer Center, May 2004.
20. **Banerjee M.** Cancer Surveillance Using the SEER Registry. Biostatistics in Cancer Seminar (Biostatistics 803), Department of Biostatistics, University of Michigan, September 2005.
21. **Banerjee M.** Statistical Methods in Clinical Research: Part I (Design). Hematology Oncology Fellows Course, Division of Hematology Oncology, Department of Internal Medicine, University of Michigan, February 2006.
22. **Banerjee M.** Statistical Methods in Clinical Research: Part II (Analyses). Hematology Oncology Fellows Course, Division of Hematology Oncology, Department of Internal Medicine, University of Michigan, March 2006.
23. **Banerjee M.** Statistical Methods in Clinical Research: Part I (Design). Hematology Oncology Fellows Course, Division of Hematology Oncology, Department of Internal Medicine, University of Michigan, March 2007.
24. **Banerjee M.** Statistical Methods in Clinical Research: Part II (Analyses). Hematology Oncology Fellows Course, Division of Hematology Oncology, Department of Internal Medicine, University of Michigan, March 2007.
25. **Banerjee M.**, and Miller D.C. Multilevel Models for Studying Surgical Patterns among Patients with Kidney Cancer. Cancer Epidemiology Meeting, Department of Epidemiology, University of Michigan, May 2007.
26. **Banerjee M.** Racial Disparities in Breast Cancer Treatment and Outcomes. HBHE 710: Understanding and Reducing Disparities in Cancer Care and Outcomes, Department of Health Behavior and Health Education, University of Michigan, January 2009.
27. **Banerjee M.** Interplay of Race and SES in Cancer Survival. HBHE 710: Understanding and Reducing Disparities in Cancer Care and Outcomes, Department of Health Behavior and Health Education, University of Michigan, February 2010.
28. **Banerjee M.** Statistical Methods in Cancer Health Services Research. Biostatistics in Cancer Seminar (Biostatistics 803), Department of Biostatistics, University of Michigan, November 2010.
29. **Banerjee M.** Statistical Methods in Population-Based Cancer Research. Topics in Cancer Prevention I (Epidemiology 631), Department of Epidemiology, University of Michigan, February 2011.
30. **Banerjee M.** Statistical Methods in Cancer Research. One-Day Workshop at the Public Health Foundation of India, Hyderabad, India, January 2014.
31. **Banerjee M.** What It Means to Be a Biostatistician. Career lecture to high school students, Patha Bhavan School, Kolkata, India, February 2014.
32. **Banerjee M.** Understanding Diffusion of Innovative Treatments for Kidney Cancer Using Trees and Forest. Biostatistics in Cancer Seminar (Biostatistics 803), Department of Biostatistics, University of Michigan, October 2014.
33. **Banerjee M.** What it Means to be a Biostatistician. Lecture in Public Health (PH

Mousumi Banerjee, Ph.D.

Page 31

610), 610), Department of Biostatistics, University of Michigan, December 2014.