

Bidisha Mandal

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Employment

Fall 2013 - , Associate Professor, School of Economic Sciences, Washington State University
Fall 2007 - Summer 2013, Assistant Professor, School of Economic Sciences, Washington State University

Education

Ph.D. Agricultural, Environmental and Development Economics, The Ohio State University, 2007
M.A. Economics, The Ohio State University, 2004
M.S. Statistics, The Ohio State University, 2003
B.S. Statistics, Lady Shri Ram College, University of Delhi, India, 2001, *First Class with Honors*

Research Areas

Health economics, Health care policy, Economics of gender

Awards

2018 Faculty Staff Appreciation Award for Exceptional Usage of Open Educational Resources, awarded by the Associated Students of Washington State University
2017 Community Health Impact Faculty Fellowship by the Pullman Regional Hospital Center for Learning and Innovation
2016 Rep. Timm Ormsby Award for Faculty Citizenship in the State of Washington
2005 Student Travel Award, Annual Conference of the American Council on Consumer Interests. Research published as *Mandal, B., Chern, W. "Changes in factors contributing to rising body mass index: 1997 versus 2002" (2005). Consumer Interests Annual (52), Proceedings of the 52nd Annual Conference of the American Council on Consumer Interests, 170-185.*
2004 Winner of Student Paper Competition, American Statistical Association's Government Statistics Section, Social Statistics Section, and Section on Survey Research Methods. Research published as *Mandal, B., Stasny, E. "Imputing missing income data and weighting data with imputed income" (2004). Proceedings of the 2004 Joint Statistical Meetings, American Statistical Association, 3962-3980.*

Teaching at WSU

EconS 506: Mathematics Primer for Economists, First year PhD course, Fall 2008-current
EconS 514: Econometrics IV, Second and Third year PhD course, Spring 2013, 2015, 2017.
EconS 324: Economics of Health Care, Undergraduate course, Fall 2007-current.

Publications (Peer-Reviewed)

- 1 Mandal, B. "Avoidable emergency department visits: Differences between Texas and Washington Medicaid enrollees". Forthcoming in *Journal of Health and Human Services Administration*, 2019.
- 2 Mandal, B. "Differences in conviction rates across violent crimes in India". Forthcoming in *World Development Perspectives*, 2019.
- 3 Neumiller, J.J., Mandal, B., Weeks, D., Bautista, E., Gates, B.J., Corbett, C.L. "Medication discrepancy identification by pharmacists and nurses during transition from hospital to home: potential adverse drug events and associated costs". Forthcoming in *The Consultant Pharmacist*, 2019.
- 4 Mandal, B. "The effect of paid leave on maternal mental health". *Maternal and Child Health Journal*, October 2018, 22(10) 1470-1476.
- 5 Mandal, B. "Differential effects of center and non-center childcare on early learning outcomes". *International Journal of Applied Economics*, September 2018, 15(2): 1-22.
- 6 Mandal, B., Batina, R., Chen, W. "Do gender gaps in education and health affect economic growth? A cross-country study from 1975 to 2010". *Health Economics*, May 2018, 27(5): 877-886.
- 7 Mandal, B., Lawrence, T. "Managing the commons: How Extension facilitates local participation in the management of natural resources". *Applied Economic Perspectives and Policy*, September 2017, 39(3): 499-515.
- 8 Smith, D., Mandal, B., Riddle, L.A., Kerr, S., Atterberry, K.A., Miles, C. "Exploring pulses through math, science, and nutrition activities". *The Journal of Child Nutrition and Management*, Spring 2016, 40(1).
- 9 Lawrence, T., Mandal, B. "Valuing Extension Programming at the County Level". *Journal of Extension*, February 2016, 54(1): Feature Article 1FEA3.
- 10 Mandal, B., Roe, B. "Risk tolerance among National Longitudinal Survey of Youth participants: The effects of age and cognitive skills". *Economica*, July 2014, 81(323): 522-543.
- 11 Mandal, B., Roe, B.E., Fein, S.B. "Work and breastfeeding decisions are jointly determined for higher socioeconomic status U.S. mothers". *Review of Economics of the Household*, June 2014, 12(2): 237-257.
- 12 Mandal, B., Powell, L. "Child care choices, food intake, and children's obesity status in the United States". *Economics and Human Biology*, July 2014, 14: 50-61.
- 13 Hill, L., Rosenman, R., Tennakoon, V., Mandal, B. "Estimating the effects of selection and attrition on prevention program outcomes in non-experimental community disseminations". *Prevention Science*, December 2013, 14(6): 557-569.
- 14 Wordell, D., Daratha, K., Mandal, B., Bindler, R., Butkus, S. "Changes in a middle school food environment affect food behavior and food choices". *Journal of the Academy of Nutrition and Dietetics*, January 2012, 112(1): 137-141.
- 15 Mandal, B., Chern, W. "A multilevel approach to model obesity and overweight in the U.S.". *International Journal of Applied Economics*, September 2011, 8(2): 1-17.
- 16 Mandal, B., Ayyagari, P., Gallo, W. "Job loss and depression: The role of subjective expectations". *Social Science and Medicine*, February 2011, 72(4): 576-583.
- 17 Mandal, B. "Use of food labels as a weight loss behavior". *The Journal of Consumer Affairs*, Fall 2010, 44(3): 516-527.
- 18 Mandal, B., Roe, B.E., Fein, S.B. "The differential effects of full-time and part-time work status on breastfeeding". *Health Policy*, September 2010, 97(1): 79-86.
- 19 Mandal, B., Lee, S. "Hard at work: Breastfeeding changes between 1992 and 2007". *Northwest Public Health*, Spring/Summer 2010, 27(1): 14-15.
- 20 Mandal, B., Roe, B.E. "Job loss, retirement and the mental health of older Americans". *The Journal of Mental Health Policy and Economics*, December 2008, 11(4): 167-176.

- 21 Fein, S.B., Mandal, B., Roe, B.E. "Success of strategies for combining employment and breastfeeding". *Pediatrics*, October 2008, 122(Supplement 2): S56-S62.

WSU Extension Reports (Peer-reviewed)

- 22 Mandal, B. "Chronic Conditions and Hospitalizations: Findings from a Rural Hospital". Forthcoming in *Washington State University Technical Bulletin*, 2019.
- 23 Mandal, B., Brady, M., Gallardo, K. "Reactions to the Employer Mandate in Washington State's Labor-Intensive Agriculture Industry". *Washington State University Technical Bulletin*, September 2016, TB33.
- 24 Mandal, B., Brady, M., Gallardo, K. "Trends in Health Insurance and Health Care Access in Rural Washington". *Washington State University Extension Technical Bulletin*, August 2016, TB30E.
- 25 Mandal, B. "Provisions of the Affordable Care Act and Washington's Health Insurance Exchange". *Washington State University Extension Factsheet*, October 2013, FS121E.
- 26 Mandal, B. "Mass lay-offs and medical expenditures". *Washington State University Extension Factsheet*, March 2012, FS067E.
- 27 Mandal, B. "Reading food labels can improve chances of weight loss". *Washington State University Extension Factsheet*, January 2012, FS065E.

Work in Progress

- Mandal, B., Brady, M. "The Roles of Gender and Marital Status on Risky Asset Allocation Decisions". *Revise and resubmit, The Journal of Consumer Affairs*.
- Mandal, B. "Health care utilization for chronic conditions among Medicaid enrollees". *Under Review*.
- Ord, G., Mandal, B., Aragon, C., Diaz Martinez, A., Barale, K. "Understanding the long-term impacts of the Eating Smart, Being Active program on Latino adults". *Under Review*.
- Mandal, B. "Rural-urban differences in diagnoses of chronic conditions among Medicaid enrollees". *Under Review*.

Grants

- Pharmacist care for patients with minor illnesses in Washington State. National Association of Chain Drug Stores. \$1,304,372. PI: Akers, J. (WSU College of Pharmacy), Co-I: MacLean, L., Mandal, B. (1/7/2015 - 6/30/2019).
- Develop cost-benefit analysis ratio for the Extension Nutrition Program, University of Idaho. Honorarium, University of Idaho. \$2,850. PI: Johnson, S. (University of Idaho), co-PI: Peutz, J. (University of Idaho), Investigator: Mandal, B. (4/1/2012-6/30/2012).
- Weight trajectories among young children and early adolescents: Results from the Early Childhood Longitudinal Study Cohorts. NSF ADVANCE EXCELinSE External Mentor Program at WSU. \$3,550. PI: Mandal, B., External Mentor: Powell, L. (University of Illinois at Chicago). (3/1/2012-2/28/2013).
- Transforming the quality of transitional care across the continuum by leveraging the expertise of home health coordinators. Providence Health and Services. \$25,000. PI: Bauer, T., WSU Consultant: Corbett, C., Mandal, B. (3/11/2011-6/8/2011).
- Transitional care medication safety and medical liability: Closing the chasm. Agency of Health Care Research and Quality. \$298,810. PI: Corbett, C., Co-I: Collins, J., Dupler, A., Guido, V., Mandal, B., Masteller, S., Nyman, J., Setter, S., Thomas, C., Weeks, D. (1/20/2010-9/15/2011).
- Development of econometric models for improved estimation of prevention program benefits. National Institutes of Health. \$394,262. PI: Rosenman, R., Co-PI: Hill, L., Co-I: Mandal, B., Mittelhammer, R. (3/12/2009-5/4/2012).

Analyze and report Infant Feeding Practices Study II data on infant feeding and maternal employment. Food and Drug Administration. \$29,250. PI: Mandal, B., Co-PI: Fein, S. (Food and Drug Administration). (7/30/2009-8/31/2011).

Analyze and report Infant Feeding Practices Study II data on infant feeding and maternal employment. Food and Drug Administration, \$10,000. PI: Mandal, B., Co-PI: Fein, S. (Food and Drug Administration). (8/1/2007-8/31/2009).

WSU Internal Grants

Examining rural-urban differences in use of emergency department for chronic conditions. Health Equity Research Collaborative, Community Partnership Seed Grant. \$5,000. Mandal, B. (1/2018 - 12/2019). Role: PI.

Rural healthcare: Before and after the Affordable Care Act. WSU Research Initiative in Human Sciences Grant. \$47,000. Mandal, B., McCracken, V. (7/2015-6/2017). Role: PI.

Community needs assessment of Southwest Washington: A focus on low-income and older adults. \$48,500. Bolkan, C., Mandal, B. (7/2015-6/2017). Role: PI.

The effect of the Affordable Care Act on health coverage and employment in the agricultural industry in the state of Washington. WSU Emerging Research Issues Internal Grant. \$75,914. Mandal, B., Brady, M., Gallardo, K.. (1/2014-12/2015). Role: PI.

Economic analysis of Extension programming in Island County, Washington: Developing a model for assessing the costs and benefits for County-wide Extension Programming. WSU Extension Internal Grant. \$47,211. Mandal, B., Lawrence, T. (1/2013-6/2015). Role: PI.

Consumer food safety for Washington families. WSU Extension Internal Grant. \$49,961. Viebrock, M., Mandal, B., Brown, S., Combe, A., Powers-Hammond, L., Price, C. (1/2013-12/2015). Role: Co-I.

Initiation of Collaboration Grant - Interdisciplinary research collaboration in gerontology. CAHNRS, Washington State University. \$5,000. Bolkan, C. (PI), Mandal, B., Cook, D., Garafolo, J., et al. (8/1/2010-12/10/2010). Role: Co-I.

Initiation of Collaboration Grant - Agenda on health disparities. CAHNRS, Washington State University. \$4,814. Parker, L., Mandal, B., Butkus, S., Broughton, S., et al. (8/1/2010-12/10/2010). Role: Co-I.

Presentations, Refereed

(Presenter in *italics* in case of multiple authors)

Mandal, B. The effect of rurality of residential location on diagnoses of chronic conditions among older Medicaid enrollees. (2018). North American Regional Science Council, San Antonio, Texas.

Mandal, B., *Grant, K.* Emergency department versus primary care utilization: A tradeoff between time cost and market price. (2018). Western Economic Association International, British Columbia, Canada.

Grant, K., Gallardo, K., McCluskey, J., Mandal, B. Consumers perceptions of their own food waste. Evidence from WTP estimates and premeditated waste. (2018). Poster presentation, Agricultural and Applied Economics Association, Washington, D.C.

Mandal, B. Emergency Department use for chronic conditions among new and continuing adult Medicaid beneficiaries in the state of Washington. (2017). PNW Labor Day Workshop, University of Washington, Washington.

Mandal, B., Cochrane, N. A comparison of urban and rural food consumption in selected regions of Tanzania. (2017). Poster presentation, Agricultural and Applied Economics Association, Chicago, Illinois.

- Bolkan, C., Mandal, B., Kim, E.* Perceptions of aging in place: A focus on low income and older adults. (2017). IAGG World Congress of Gerontology and Geriatrics, San Francisco, California.
- Mandal, B. Child care choices, cognitive development, and kindergarten enrollment. (2014). American Economic Association (Microeconometrics: Theory and Applications), Philadelphia, Pennsylvania.
- Mandal, B., *Li, H., Lawrence, T.* Assess the value of agricultural and environmental extension programs: A case study in Island County, WA. (2014). Western Agricultural Economics Association, Colorado Springs, Colorado.
- Mandal, B., Powell, L.* Child care choices, food choices, and children's obesity status: A comparison of two-parent and one-parent households. (2013). Agricultural and Applied Economics Association, Washington, DC.
- Mandal, B. Trends in early childhood obesity. (2012). Work and Family Researchers Network, New York City, New York.
- Mandal, B. The role of attrition in evaluating the Strengthening Families Program. (2012). Work and Family Researchers Network, New York City, New York.
- Brady, M., Mandal, B.* Spousal risk preferences and household investment decisions. (2011). Agricultural and Applied Economics Association, Pittsburg, Pennsylvania.
- Mandal, B., Fein, S., Roe, B.* Disentangling maternal decisions concerning breastfeeding and paid employment. (2010). American Public Health Association, Denver, Colorado.
- Rosenman, R.E., *Hill, L.G., Tennekoon, V., Mandal, B.* Estimating program effectiveness with selectivity: A bivariate probit approach. (2010). Annual conference of the European Conference on Health Economics, Helsinki, Finland.
- Mandal, B., Fein, S., Roe, B.* Simultaneous relationship between breastfeeding and paid employment. (2010). 3rd Biennial Conference of the American Society of Health Economists, Ithaca, New York.
- Rosenman, R.E., *Hill, L.G., Tennekoon, V., Mandal, B.* Cost-benefit in universal prevention programs: A comparison of randomized clinical trial and community based implementations. (2010). Annual Health Econometrics Workshop, University of Michigan, Ann Arbor, Michigan.
- Brady, M., *Mandal, B.* How marriage aggregates individual risk preferences towards household investment decisions. (2010). Western Economic Association International, Portland, Oregon.
- Mandal, B., Fein, S., Roe, B.* Effect of work status on breast-feeding initiation and duration among U.S. mothers: Results from the Infant Feeding Practices Study II. (2009). American Public Health Association, Philadelphia, Pennsylvania.
- Goates, S., Mandal, B., Rosenman, R.E., Suter, C., Hill, L.G.* Cost-benefit in universal prevention programs: A comparison of randomized clinical trial and community based implementations. (2009). Society for Prevention Research, Washington D.C.
- Mandal, B. Food labels and weight loss: Evidence from the National Longitudinal Survey of Youth. (2008). Annual Meeting of American Agricultural Economics Association, Orlando, Florida.
- Mandal, B., Chern, W.* Econometric analysis of rising body mass index in the U.S.: 1996 versus 2002. (2006). Annual Meeting of American Agricultural Economics Association, Long Beach, California.
- Mandal, B., Chern, W.* Changes in factors contributing to rising BMI and obesity: 1997 versus 2002. (2006). Annual Meeting of American Council on Consumer Interests, Baltimore, Maryland.
- Mandal, B., Stasny, E.* Imputing missing income data and weighting data with imputed income. (2004). Joint Statistical Meetings, Toronto, Canada.

Invited Presentations

- Mandal, B. Health care and access in the rural American West. (2018). Yakima, Washington. Hosted by the Bill Lane Center for the American West at Stanford University.
- Mandal, B. Rural-urban disparities in health care utilization for chronic conditions. (2017). Health Research Symposium, Health Policy and Administration, WSU-Spokane.
- Mandal, B. Labor intensive farm businesses and the health care reform. (2015). Federal Reserve Bank of Chicago.
- Mandal, B., Powell, L. Childcare choices, food consumption patterns and childhood obesity. (2012). Institute for Health Research and Policy, University of Illinois at Chicago.
- Mandal, B. Economic tools to evaluate social science programs. (2011). Washington State Association of Counties, Bellevue, Washington.
- Mandal, B. Breastfeeding and infant health issues. (2011). International Nursing Forum, Montreal, Canada.
- Mandal, B. Cost-benefit analysis. (2009). Washington State University Diabetes Forum, Spokane, Washington.

Outreach Events

- Mandal, B. October 2018 (ongoing). Developing an evaluation framework to determine effectiveness of the Chronic-Utilizer Alternative Response Team (CHART) program. Partners: WSU Metropolitan Center for Applied Research and Extension. Target Audience: Public Health and Safety Officials, City of Everett.
- Mandal, B. August 2018 (ongoing). Economic tools for program evaluation. Target Audience: Youth and 4H Extension Faculty.
- Mandal, B. March 2018. Health care and access in the rural American West. Yakima, Washington. Roundtable discussion hosted by the Bill Lane Center for the American West at Stanford University. Target Audience: Health care practitioners in rural Washington and health care policy analysts.
- Mandal, B. October 2017. Understanding the need for and scope of transitional care in Pullman and Palouse region. Health Innovation Summit at the Pullman Regional Hospital. Target Audience: Health care practitioners and administrators.
- Bolkan, C., Mandal, B., Kim, E. June 2017. Southwest Washington Aging in Place Needs Assessment. Target Audience: Community program providers who serve older adults, Nurse Practitioners from home health agencies.
- Mandal, B. February 2017. Scope of transitional care in Pullman and Palouse region. Target Audience: National Board of Advisors at the Pullman Regional Hospital.
- Bolkan, C., Mandal, B., Kim, E. December 2016. Developing Evaluation Tools for Community Needs Assessment. Target Audience: Area Agency on Aging and Disability of Southwest Washington.
- Lawrence, T., Mandal, B. May 2015. Economic Analysis of Extension Programming in Island County, Washington. Washington State Extension Impact Report. Target Audience: Extension educators and administrators.
- Mandal, B., Lawrence, T. February 2015. How are Extension Programs Valued? A Case Study of WSU Extension. Target Audience: Extension educators and administrators attending the WSU Agriculture and Natural Resources Winter Meetings.
- Mandal, B., Brady, M., and Gallardo, K. December, 2013. The Affordable Care Act - Employer Mandate: An Overview of its Impact on Agricultural Employers. Audience: Farm Businesses, WA attending the Washington State Horticultural Association Annual Meeting.
- Mandal, B. November, 2012 - July, 2013. Costs and Benefits of Supplemental Nutrition Assistance Education Program in northwest Idaho. Audience: SNAP-Ed Faculty and Administrators from University of Idaho - Extension.

Mandal, B. and Bolkan, C. October, 2011 - December, 2012. Hospital and community based care transitions in Clark county. Audience: Hospital administrators from Legacy Health Salmon Creek Medical Center and PeaceHealth Southwest Medical Center, Vancouver, WA, and Case Managers from the Southwest Washington Agency on Aging and Disabilities.

Price, C., Calodich, S., and Mandal, B. March, 2012. Evaluation of program targeted at Hispanic and Latino population in Eastern Washington to reduce complications due to diabetes. Target audience: Hispanic and Latino residents of rural Washington diagnosed with diabetes, to improve self-management of routines in this population.

Lawrence, T. and Mandal, B. March-April, 2012. Economic analysis of Extension services in Island County, Washington. Target audience: County and state policymakers, Extension educators.

Mandal, B. Webinar series - March 1-March 31, 2012. Identification of post-acute care services to be bundled for selected diagnoses provided by the Inland Northwest Health Services. Organizer: St. Luke's Rehabilitation Institute, Spokane. Audience: Administrators from St. Luke's Rehabilitation Institute, Providence St. Joseph, Providence VNA, Avalon Health Care, and Family Home Care and Hospice.

Viebrock, M. and Mandal, B. December, 2011. Design evaluation tool to understand barriers faced by women in agriculture. Target audience: Women agricultural producers in western and central Washington, to improve delivery of Extension and Outreach programs targeted at this population.

Mandal, B. December, 2011. Developing and implementing Medicare bundled payments for care improvement. Audience: Administration of the Inland Northwest Health Services, Spokane, Washington.

Mandal, B. and Bolkan, C. November, 2011. Evaluating effectiveness of community based aging and disabilities services in Clark County. Audience: Case managers from the Southwest Washington Agency on Aging and Disabilities.

Mandal, B. November, 2011. Economic tools to evaluate social science programs. Washington State Association of Counties, Bellevue, Washington. Audience: WSU Extension Directors.

Mandal, B. November, 2011. Survey design to collect data for a cost-benefit analysis of the Supplemental Nutrition Assistance Program - Education materials. Audience University of Idaho Extension - Nutrition and Food Safety.

Mandal, B. November, 2011. Organizer: Corbett, C., WSU Nursing. Cost effectiveness analysis of Transitional Care program in Providence Hospitals in Spokane. Audience: Nurse practitioners in hospice care.

Mandal, B. October, 2011. A background on health extension and outreach. Departmental Lunch Session at the All Extension-CAHNRS Conference, Pullman, Washington. Audience: WSU Extension Faculty with expertise on obesity and nutrition.

Mandal, B. August, 2011. Cost-effectiveness of transitional care intervention programs. Audience: Providence Sacred Heart Medical Center board members and nursing staff.

Wordell, D., Daratha, K., Mandal, B., Bindler, R., Butkus, S. November, 2010 - May, 2011. Association between changes in school food environment and food choices of early adolescents. Audience: Principals and Nutrition Services Teams of Chase, Garry, Glover, Sacajawea, Salk and Shaw middle schools, Health Advisory Committee of Spokane Public Schools.

Mandal, B., Lee, S. April, 2010. The effect of work status on breastfeeding initiation and duration among mothers in the northwest. Poster Presentation at the Inland Northwest Health Science Research Symposium, Spokane, Washington.

Graduate Advising

PhD (Chair): James Miller, Wenjun Wu.

PhD (Co-Chair): Melissa Wright (completed), Boris Houenou, Kara Grant.

PhD (Committee): Rashmita Basu (completed), Seungchul Lee (completed), Vidhura Tennakoon (completed), Yongwon Cho (completed), Dinkar Kuchibhotla (completed), Miaoru Liu (completed), Wen Chen (completed), Anthony Delmond, Zhuang Hao, Christopher Ambrose.

Masters: Casey Suter (completed), Keegan Murphy (Chair, completed), Mirzobobo Yormirzoev (completed), Yiwen Zheng (completed), Lin Cui (completed), Luis Ramirez, Kyung Lim (Chair, completed), Haoyi Yang, Fatima Tucker.

Service

National - AEPP Editorial Board: 2018-; AAEA Awards Committee (Co-Chair/Chair): 2015-2017; AAEA Co-organizer of Post-Conference Workshop on *Applying Behavioral and Experimental Economics to Food and Agri-Environmental Issues*: 2015; AEA Presiding for Session *Microeconometrics Theory and Applications*: 2014

Regional - W4001 Multi-State Project *Social, economic and environmental causes and consequences of demographic change in rural America*, 2017-2022; NC2172 Multi-State Project *Behavioral economics and the intersection of healthcare and financial decision making across the lifespan*, 2018-2023

University - Faculty Senate: 2017-; All Extension Planning Committee: 2008-2009; Health Promotion Team: 2007-2008

College - Scholarship Evaluation Committee: 2009-2010; Extension Search Committee: 2012, 2013, 2015-2017

Department - Director's Advisory Committee: 2013-2014; Awards Committee: 2008-2015; Faculty Performance and Evaluation Committee: 2008-2009; Search Committee: 2009, 2011, 2013-2015; Seminar Committee: 2015-present; Mentor Committee of a junior faculty: 2013-present

Professional Development - Provost Leadership Academy, 2015

Professional Membership

American Economic Association, Agricultural and Applied Economics Association, Western Economic Association International, Western Regional Science Association.

Recently Refereed for

Applied Economic Perspectives and Policy, Demography, American Journal of Public Health, Economic Inquiry, Social Science and Medicine, Economics and Human Biology.