



## Margaret Brandeau

Coleman F. Fung Professor in the School of Engineering and Professor, by courtesy, of Health Policy

Management Science and Engineering

 Curriculum Vitae available Online

### CONTACT INFORMATION

- **Administrator**

Matt Gonzales - Administrative Associate

**Email** mattgonz@stanford.edu

### Bio

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#### BIO

Professor Brandeau is the Coleman F. Fung Professor in the School of Engineering and a Professor of Health Policy (by Courtesy). Her research focuses on the development of applied mathematical and economic models to support health policy decisions. Her recent work has examined programs related to HIV and drug abuse prevention and treatment, control of the opioid epidemic, and responses to homelessness. She has served as Principal Investigator or Co-PI on a broad range of funded research projects.

She is a Fellow of the Institute for Operations Research and Management Science (INFORMS) and a member of the Omega Rho International Honor Society for Operations Research and Management Science. From INFORMS she has received the President's Award (recognizing important contributions to the welfare of society), the Pierskalla Prize (in 2001 and 2017, for research excellence in health care management science), the Philip McCord Morse Lectureship Award, the Saul Gass Expository Writing Award, and the Award for the Advancement of Women in Operations Research and the Management Sciences. She has also received the Award for Excellence in Application of Pharmacoeconomics and Health Outcomes Research from the International Society for Pharmacoeconomics and Outcomes Research, and a Presidential Young Investigator Award from the National Science Foundation, among other awards. Professor Brandeau earned a BS in Mathematics and an MS in Operations Research from MIT, and a PhD in Engineering-Economic Systems from Stanford.

#### ACADEMIC APPOINTMENTS

- Professor, Management Science and Engineering
- Professor (By courtesy), Health Policy

#### HONORS AND AWARDS

- 8th Annual CEA Registry Paper of the Year Award, Center for the Evaluation of Value and Risk in Health, Tufts University (2026)
- Saul Gass Expository Writing Award, INFORMS (Institute for Operations Research and Management Science) (2025)
- 4th Annual CEA Registry Paper of the Year Award, Center for the Evaluation of Value and Risk in Health, Tufts University (2022)
- Stanford Medicine Integrated Strategic Plan Star Award, Stanford University (2020)
- Pierskalla Best Paper Award, INFORMS (Institute for Operations Research and Management Science) (2017)
- Honorary Professor, Universidad Nacional de Ingeniería (National Engineering University), Peru (2016)

- Award for the Advancement of Women in Operations Research and the Management Sciences, INFORMS (Institute for Operations Research and Management Science) (2015)
- Member, Omega Rho Honor Society for Operations Research and Management Science (2015)
- Omega Rho Distinguished Lecture on Operations Research and Management Science, INFORMS (Institute for Operations Research and Management Science) (2015)
- Philip McCord Morse Lecturership Award, INFORMS (Institute for Operations Research and Management Science) (2015)
- 21st Annual E. Leonard Arnoff Memorial Lecture on the Practice of Management Science, University of Cincinnati (2012)
- Wasserstrom Family Distinguished Lecturer, Northwestern University (2012)
- Fellow, INFORMS (Institute for Operations Research and Management Science) (2009)
- Graduate Teaching Award, Department of Management Science and Engineering (2008-2009)
- Award for Excellence in Application of Pharmacoeconomics and Health Outcomes Research, ISPOR (International Society for Pharmacoeconomics and Outcomes Research) (2008)
- President's Award, INFORMS (Institute for Operations Research and Management Science) (2008)
- Pierskalla Best Paper Award, INFORMS (Institute for Operations Research and Management Science) (2001)
- Annual Outstanding Paper Award, Society for Computer Simulation (1996)
- Eugene L. Grant Teaching Award, Stanford School of Engineering (1990-1991)
- Presidential Young Investigator Award, National Science Foundation (1988-1993)

## **BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS**

- Member, International Advisory Committee, Instituto Sistemas Complejos de Ingeniería, Santiago, Chile (2023 - present)
- Member, Office of AIDS Research Advisory Council, National Institutes of Health (2018 - 2023)
- Diversity, Equity and Inclusion Ambassador, INFORMS (Institute for Operations Research and Management Science) (2020 - 2022)
- Member, Stanford-Lancet Commission on the North American Opioid Crisis (2020 - 2021)
- Member, Natl Acad Sci Eng and Med Committee on Equitable Allocation of Vaccine for the Novel Coronavirus (2020 - 2020)
- Member, Board of Scientific Counselors, CDC Office of Public Health Preparedness & Response (2012 - 2019)
- Editorial Board Member, Health Care Management Science (1997 - 2019)
- Member, Institute of Medicine Standing Committee for the CDC Division of the Strategic National Stockpile (2015 - 2017)
- Member, BSC/NBSB Working Group, Strategic National Stockpile (SNS) Review 20/20 (2012 - 2013)
- Member, Institute of Medicine Committee on Prepositioned Medical Countermeasures (2011 - 2011)
- Member, Institute of Medicine Committee on the Prevention and Control of Viral Hepatitis Infections in the US (2008 - 2009)

## **PROFESSIONAL EDUCATION**

- PhD, Stanford University , Engineering-Economic Systems (1985)
- MS, Massachusetts Institute of Technology , Operations Research (1978)
- BS, Massachusetts Institute of Technology , Mathematics (1977)

## **PATENTS**

- Corey A. Billington, Margaret L. Brandeau. "United States Patent 5,258,915 System and Method for Optimum Operation Assignments in Printed Circuit Board Manufacturing", Hewlett-Packard, Nov 2, 1993

## **Teaching**

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### **COURSES**

2025-26

- Doctoral Research Seminar in Health Systems Modeling: HRP 390, MS&E 390 (Aut, Win, Spr)
- Health Policy Modeling: HRP 293, MS&E 292 (Win)
- The Ethical Analyst: MS&E 254 (Spr)

#### 2024-25

- Doctoral Research Seminar in Health Systems Modeling: HRP 390, MS&E 390 (Aut, Win, Spr)
- Health Policy Modeling: HRP 293, MS&E 292 (Win)
- The Ethical Analyst: MS&E 254 (Spr)
- The Ethical Analyst: MS&E 254A (Spr)

#### 2023-24

- Doctoral Research Seminar in Health Systems Modeling: HRP 390, MS&E 390 (Aut, Win, Spr)
- Health Policy Modeling: HRP 293, MS&E 292 (Win)
- Part-Time Practical Training: MS&E 208E (Aut)
- Practical Training: MS&E 208A (Aut)
- Practical Training: MS&E 208B (Aut)
- Practical Training: MS&E 208C (Aut)
- Practical Training: MS&E 208D (Aut)

#### 2022-23

- Doctoral Research Seminar in Health Systems Modeling: MS&E 390 (Aut, Win, Spr)
- Health Policy Modeling: MS&E 292 (Win)

## STANFORD ADVISEES

### Doctoral Dissertation Advisor (AC)

Yupeng Chen, Paul Dupenloup, Yuewei Ling, Gary Qian, Sean Tsung

### Master's Program Advisor

Line Andersson, Chena Lee, Amilia Liu, Amit Padaki, Yan Bo Zeng

### Doctoral (Program)

Varun Gande

## Publications

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### PUBLICATIONS

- **Enhancing randomized controlled trials through smartwatch-guided participant matching for infectious disease outcomes.** *Scientific reports*  
Shahmoon, E., Yechezkel, M., Snir, S., Perez, M. V., Brandeau, M. L., Yamin, D.  
2026
- **Health and Economic Impacts of Stable Housing Provision for Older Adults.** *JAMA health forum*  
Gande, V., Goldhaber-Fiebert, J. D., Brandeau, M. L.  
2026; 7 (4): e260624
- **Cost-Effectiveness of Continuous Glucose Monitoring With Remote Patient Monitoring in Pediatric Patients With Newly Diagnosed Type 1 Diabetes in the U.S.** *Diabetes care*  
Dupenloup, P., Chen, Y., Prahalad, P., Johari, R., Addala, A., Zaharieva, D. P., Lee, M. Y., Maahs, D. M., Scheinker, D., Brandeau, M. L.  
2026

- **Cost-effectiveness of contingency management for methamphetamine use disorder: A model-based analysis.** *Addiction (Abingdon, England)*  
Qian, G. L., Chen, Y., Rawson, R. A., Humphreys, K., Brandeau, M. L.  
2026
- **COST-EFFECTIVENESS OF A PRECISION DIGITAL HEALTH PROGRAM FOR GLUCOSE MANAGEMENT IN PEDIATRIC PATIENTS WITH NEWLY DIAGNOSED TYPE 1 DIABETES**  
Dupenloup, P., Chen, Y., Prahalad, P., Johari, R., Addala, A., Zaharieva, D., Lee, M., Maahs, D., Scheinker, D., Brandeau, M.  
SAGE PUBLICATIONS INC.2026: 132S
- **Infliximab Monotherapy Versus Infliximab and Azathioprine Combination Therapy in Patients with Ulcerative Colitis: A Cost-Effectiveness Analysis.** *Digestive diseases and sciences*  
Dupenloup, P., Selnes, O., Streett, S. E., Brandeau, M. L., Barber, G. E.  
2026
- **Smartwatch-derived versus self-reported outcomes of physiological recovery after COVID-19, influenza, and group A streptococcus: a 2-year prospective cohort study.** *The Lancet. Digital health*  
Levi, Y., Gande, V., Shmueli, E., Patalon, T., Gazit, S., Brandeau, M. L., Yamin, D.  
2026: 100956
- **Social media impact and smartwatch monitoring: Prevalence and early markers of PTSD and anxiety following mass traumatic events.** *PLOS mental health*  
Yamin, D., Lev-Ari, S., Mofaz, M., Elias, R., Toker, S., Spiegel, D., Yechezkel, M., Brandeau, M. L., Shmueli, E.  
2025; 2 (9): e0000195
- **Modeling Health and Economic Outcomes of Providing Stable Housing to Homeless Adults With OUD.** *JAMA network open*  
Rao, I. J., Brandeau, M. L.  
2025; 8 (6): e2517103
- **Terminating pandemics with smartwatches.** *PNAS nexus*  
Vesinurm, M., Ndeffo-Mbah, M., Yamin, D., Brandeau, M. L.  
2025; 4 (3): pgaf044
- **Therapeutic Drug Monitoring in Patients with Ulcerative Colitis on Infliximab: A Cost-Effectiveness Analysis.** *Digestive diseases and sciences*  
Dupenloup, P., Zhou, M., Dizon, M. P., Shah, A. P., Goldhaber-Fiebert, J. D., Owens, D. K., Streett, S. E., Brandeau, M. L., Barber, G. E.  
2024
- **Comparison of physiological and clinical reactions to COVID-19 and influenza vaccination** *COMMUNICATIONS MEDICINE*  
Yechezkel, M., Qian, G., Levi, Y., Davidovitch, N., Shmueli, E., Yamin, D., Brandeau, M. L.  
2024; 4 (1): 169
- **Changes in behavior and biomarkers during the diagnostic decision period for COVID-19, influenza, and group A streptococcus (GAS): a two-year prospective cohort study in Israel.** *The Lancet regional health. Europe*  
Snir, S., Chen, Y., Yechezkel, M., Patalon, T., Shmueli, E., Brandeau, M. L., Yamin, D.  
2024; 42: 100934
- **Vaccination for communicable endemic diseases: optimal allocation of initial and booster vaccine doses.** *Journal of mathematical biology*  
Rao, I. J., Brandeau, M. L.  
2024; 89 (2): 21
- **Prediction and detection of side effects severity following COVID-19 and influenza vaccinations: utilizing smartwatches and smartphones.** *Scientific reports*  
Levi, Y., Brandeau, M. L., Shmueli, E., Yamin, D.  
2024; 14 (1): 6012
- **Estimated effectiveness and cost-effectiveness of opioid use disorder treatment under proposed U.S. regulatory relaxations: A model-based analysis.** *Drug and alcohol dependence*  
Qian, G., Humphreys, K., Goldhaber-Fiebert, J. D., Brandeau, M. L.  
2024; 256: 111112
- **Predicting COVID-19 Outbreaks in Correctional Facilities Using Machine Learning.** *MDM policy & practice*

- Malloy, G. S., Puglisi, L. B., Bucklen, K. B., Harvey, T. D., Wang, E. A., Brandeau, M. L.  
2024; 9 (1): 23814683231222469
- **SCAN for Abuse: Electronic Health Record-Based Universal Child Abuse Screening.** *Journal of pediatric surgery*  
Martin, N. R., Claypool, A. L., Diyaolu, M., Chan, K. S., A'Neals, E., Iyer, K., Stewart, C. C., Egge, M., Bernacki, K., Hallinan, M., Zuo, L., Gupta, U., Naru, et al  
2023
  - **Responding to the US opioid crisis: leveraging analytics to support decision making.** *Health care management science*  
Brandeau, M. L.  
2023
  - **Cost-effectiveness of office-based buprenorphine treatment for opioid use disorder.** *Drug and alcohol dependence*  
Qian, G., Rao, I., Humphreys, K., Owens, D. K., Brandeau, M. L.  
2022; 243: 109762
  - **Higher sensitivity monitoring of reactions to COVID-19 vaccination using smartwatches.** *NPJ digital medicine*  
Guan, G., Mofaz, M., Qian, G., Patalon, T., Shmueli, E., Yamin, D., Brandeau, M. L.  
2022; 5 (1): 140
  - **Sequential allocation of vaccine to control an infectious disease.** *Mathematical biosciences*  
Rao, I. J., Brandeau, M. L.  
2022: 108879
  - **Self-Reported and Physiologic Reactions to Third BNT162b2 mRNA COVID-19 (Booster) Vaccine Dose.** *Emerging infectious diseases*  
Mofaz, M., Yechezkel, M., Guan, G., Brandeau, M. L., Patalon, T., Gazit, S., Yamin, D., Shmueli, E.  
2022; 28 (7): 1375-1383
  - **Metamodeling for Policy Simulations with Multivariate Outcomes.** *Medical decision making : an international journal of the Society for Medical Decision Making*  
Zhong, H., Brandeau, M. L., Yazdi, G. E., Wang, J., Nolen, S., Hagan, L., Thompson, W. W., Assoumou, S. A., Linas, B. P., Salomon, J. A.  
2022: 272989X221105079
  - **When Is Mass Prophylaxis Cost-Effective for Epidemic Control? A Comparison of Decision Approaches.** *Medical decision making : an international journal of the Society for Medical Decision Making*  
Malloy, G. S., Brandeau, M. L.  
2022: 272989X221098409
  - **Surveillance for endemic infectious disease outbreaks: Adaptive sampling using profile likelihood estimation.** *Statistics in medicine*  
Fairley, M., Rao, I. J., Brandeau, M. L., Qian, G. L., Gonsalves, G. S.  
2022
  - **Responding to the opioid crisis in North America and beyond: recommendations of the Stanford-Lancet Commission.** *Lancet (London, England)*  
Humphreys, K., Shover, C. L., Andrews, C. M., Bohnert, A. S., Brandeau, M. L., Caulkins, J. P., Chen, J. H., Cuellar, M., Hurd, Y. L., Juurlink, D. N., Koh, H. K., Krebs, E. E., Lembke, et al  
2022; 399 (10324): 555-604
  - **Prevention and control of dengue and Chikungunya in Colombia: A cost-effectiveness analysis.** *PLoS neglected tropical diseases*  
Claypool, A. L., Brandeau, M. L., Goldhaber-Fiebert, J. D.  
1800; 15 (12): e0010086
  - **Quantile Markov Decision Processes** *OPERATIONS RESEARCH*  
Li, X., Zhong, H., Brandeau, M. L.  
2021
  - **Quantile Markov Decision Processes.** *Operations research*  
Li, X., Zhong, H., Brandeau, M. L.  
2021; 70 (3): 1428-1447

- **Effectiveness of Policies for Addressing the US Opioid Epidemic: A Model-Based Analysis from the Stanford-Lancet Commission on the North American Opioid Crisis.** *Lancet Regional Health. Americas*  
Rao, I. J., Humphreys, K., Brandeau, M. L.  
2021; 3
- **Who Are the Gatekeepers? An Examination of Diversity in INFORMS Journal Editorial Boards** *SERVICE SCIENCE*  
Newhouse, L. J., Brandeau, M. L.  
2021; 13 (3): 109-132
- **Personalization of Medical Treatment Decisions: Simplifying Complex Models while Maintaining Patient Health Outcomes.** *Medical decision making : an international journal of the Society for Medical Decision Making*  
Weyant, C., Brandeau, M. L.  
2021: 272989X211037921
- **Assessing Interventions That Prevent Multiple Infectious Diseases: Simple Methods for Multidisease Modeling.** *Medical decision making : an international journal of the Society for Medical Decision Making*  
Claypool, A. L., Goldhaber-Fiebert, J. D., Brandeau, M. L.  
2021: 272989X211033287
- **Modeling the Cost-Effectiveness of Interventions to Prevent Plague in Madagascar.** *Tropical medicine and infectious disease*  
Malloy, G. S., Brandeau, M. L., Goldhaber-Fiebert, J. D.  
2021; 6 (2)
- **Effectiveness of Face Masks in Reducing the Spread of COVID-19: A Model-Based Analysis.** *Medical decision making : an international journal of the Society for Medical Decision Making*  
Rao, I. J., Vallon, J. J., Brandeau, M. L.  
2021: 272989X211019029
- **Partial Personalization of Medical Treatment Decisions: Adverse Effects and Possible Solutions.** *Medical decision making : an international journal of the Society for Medical Decision Making*  
Weyant, C., Brandeau, M. L.  
2021: 272989X211013773
- **THE EFFECT OF INTERVENTIONS TO REDUCE COVID-19 IN A LARGE URBAN JAIL**  
Malloy, G. S. P., Puglisi, L., Brandeau, M. L., Harvey, T., Wang, E.  
SAGE PUBLICATIONS INC.2021: E220-E221
- **EFFECTIVENESS OF FACE MASKS IN REDUCING THE SPREAD OF COVID-19: A MODEL-BASED ANALYSIS**  
Rao, I., Vallon, J., Brandeau, M. L.  
SAGE PUBLICATIONS INC.2021: E20-E21
- **DEFER, TEST, OR MODIFY? IDENTIFYING THE OPTIMAL PORTFOLIO OF BLOOD SAFETY INTERVENTIONS**  
Russell, W., Custer, B., Brandeau, M. L.  
SAGE PUBLICATIONS INC.2021: E16-E18
- **OPTIMAL SURVEILLANCE OF HIV AMONG PEOPLE WHO INJECT DRUGS**  
Fairley, M., Brandeau, M. L., Gonsalves, G.  
SAGE PUBLICATIONS INC.2021: E280-E282
- **ASSESSING INTERVENTIONS THAT PREVENT MULTIPLE INFECTIOUS DISEASES: SIMPLE METHODS FOR MULTI-DISEASE MODELING**  
Claypool, A., Goldhaber-Fiebert, J. D., Brandeau, M. L.  
SAGE PUBLICATIONS INC.2021: E335-E337
- **Optimal allocation of limited vaccine to control an infectious disease: Simple analytical conditions.** *Mathematical biosciences*  
Rao, I. J., Brandeau, M. L.  
2021: 108621
- **Predicting the Effectiveness of Endemic Infectious Disease Control Interventions: The Impact of Mass Action versus Network Model Structure.** *Medical decision making : an international journal of the Society for Medical Decision Making*  
Malloy, G. S., Goldhaber-Fiebert, J. D., Enns, E. A., Brandeau, M. L.

2021: 272989X211006025

- **Cost-effectiveness of Treatments for Opioid Use Disorder.** *JAMA psychiatry*  
Fairley, M., Humphreys, K., Joyce, V. R., Bounthavong, M., Trafton, J., Combs, A., Oliva, E. M., Goldhaber-Fiebert, J. D., Asch, S. M., Brandeau, M. L., Owens, D. K.  
2021
- **Optimal portfolios of blood safety interventions: test, defer or modify?** *Health care management science*  
Russell, W. A., Custer, B., Brandeau, M. L.  
2021
- **Effectiveness of interventions to reduce COVID-19 transmission in a large urban jail: a model-based analysis.** *BMJ open*  
Malloy, G. S., Puglisi, L., Brandeau, M. L., Harvey, T. D., Wang, E. A.  
2021; 11 (2): e042898
- **Optimal allocation of limited vaccine to minimize the effective reproduction number.** *Mathematical biosciences*  
Rao, I. J., Brandeau, M. L.  
2021: 108654
- **Early detection of COVID-19 outbreaks using human mobility data.** *PLoS one*  
Guan, G., Dery, Y., Yechezkel, M., Ben-Gal, I., Yamin, D., Brandeau, M. L.  
2021; 16 (7): e0253865
- **Health outcomes and cost-effectiveness of diversion programs for low-level drug offenders: A model-based analysis.** *PLoS medicine*  
Bernard, C. L., Rao, I. J., Robison, K. K., Brandeau, M. L.  
2020; 17 (10): e1003239
- **Optimizing interventions across the HIV care continuum: A case study using process improvement analysis** *OPERATIONS RESEARCH FOR HEALTH CARE*  
Barrow, G. J., Fairley, M., Brandeau, M. L.  
2020; 25
- **Optimizing Interventions Across the HIV Care Continuum: A Case Study Using Process Improvement Analysis.** *Operations research for health care*  
Barrow, G. J., Fairley, M., Brandeau, M. L.  
2020; 25
- **Implementing Analytics Projects in a Hospital: Successes, Failures, and Opportunities** *INTERFACES*  
Scheinker, D., Brandeau, M. L.  
2020; 50 (3): 176–89
- **PREVENTION AND CONTROL OF DENGUE AND CHIKUNGUNYA IN COLOMBIA: A COST-EFFECTIVENESS ANALYSIS**  
Claypool, A., Brandeau, M. L., Goldhaber-Fiebert, J. D.  
SAGE PUBLICATIONS INC.2020: E85–E87
- **Estimation of COVID-19 Basic Reproduction Ratio in a Large Urban Jail in the United States.** *Annals of epidemiology*  
Puglisi, L. B., Malloy, G. S., Harvey, T. D., Brandeau, M. L., Wang, E. A.  
2020
- **Predicting and improving patient-level antibiotic adherence.** *Health care management science*  
Rao, I. n., Shaham, A. n., Yavneh, A. n., Kahana, D. n., Ashlagi, I. n., Brandeau, M. L., Yamin, D. n.  
2020
- **Public Health Interventions with Harms and Benefits: A Graphical Framework for Evaluating Tradeoffs.** *Medical decision making : an international journal of the Society for Medical Decision Making*  
Pitt, A. L., Goldhaber-Fiebert, J. D., Brandeau, M. L.  
2020: 272989X20960458
- **Health outcomes and cost-effectiveness of treating depression in people with HIV in Sub-Saharan Africa: a model-based analysis.** *AIDS care*  
Zhong, H. n., Arjmand, I. K., Brandeau, M. L., Bendavid, E. n.

2020: 1–7

- **PREDICTING THE EFFECTIVENESS OF INTERVENTIONS FOR INFECTIOUS DISEASE CONTROL: THE ROLE OF MODEL STRUCTURE**  
Malloy, G., Goldhaber-Fiebert, J. D., Enns, E. A., Brandeau, M. L.  
SAGE PUBLICATIONS INC.2020: E377
- **DIVERSION PROGRAMS FOR LOW-LEVEL DRUG OFFENDERS: HEALTH OUTCOMES AND COST-EFFECTIVENESS**  
Brandeau, M. L., Bernard, C.  
SAGE PUBLICATIONS INC.2020: E374
- **PREDICTING THE EFFECTIVENESS OF INTERVENTIONS FOR INFECTIOUS DISEASE CONTROL: THE ROLE OF MODEL STRUCTURE**  
Malloy, G., Goldhaber-Fiebert, J. D., Enns, E. A., Brandeau, M. L.  
SAGE PUBLICATIONS INC.2020: E118
- **META-MODELLING FOR POLICY SIMULATIONS WITH MULTIVARIATE OUTCOMES**  
Zhong, H., Yazdi, G., Wang, J., Nolen, S., Linas, B. P., Brandeau, M. L., Salomon, J.  
SAGE PUBLICATIONS INC.2020: E69–E70
- **PREDICTING PATIENT-LEVEL ANTIBIOTIC ADHERENCE**  
Rao, I., Shaham, A., Yavneh, A., Kahana, D., Chodick, G., Ashlagi, I., Yamin, D., Brandeau, M. L.  
SAGE PUBLICATIONS INC.2020: E45–E46
- **COST-EFFECTIVENESS OF INTERVENTIONS TO PREVENT PLAGUE IN MADAGASCAR**  
Malloy, G., Andrews, J., Brandeau, M. L., Goldhaber-Fiebert, J. D.  
SAGE PUBLICATIONS INC.2020: E116–E117
- **Improving the efficiency of the operating room environment with an optimization and machine learning model** *HEALTH CARE MANAGEMENT SCIENCE*  
Fairley, M., Scheinker, D., Brandeau, M. L.  
2019; 22 (4): 756–67
- **Personalizing Medical Treatment Decisions: Integrating Meta-Analytic Treatment Comparisons with Patient-Specific Risks and Preferences.** *Medical decision making : an international journal of the Society for Medical Decision Making*  
Weyant, C., Brandeau, M. L., Basu, S.  
2019: 272989X19884927
- **Quantifying Positive Health Externalities of Disease Control Interventions: Modeling Chikungunya and Dengue.** *Medical decision making : an international journal of the Society for Medical Decision Making*  
Claypool, A. L., Brandeau, M. L., Goldhaber-Fiebert, J. D.  
2019: 272989X19880554
- **A modified HIV continuum of care: A six-year evaluation of a viral load cascade at a hospital-based clinic in Kingston, Jamaica** *INTERNATIONAL JOURNAL OF STD & AIDS*  
Barrow, G. J., Brandeau, M. L.  
2019; 30 (8): 748–55
- **OR Forum-Public Health Preparedness: Answering (Largely Unanswerable) Questions with Operations Research-The 2016-2017 Philip McCord Morse Lecture** *OPERATIONS RESEARCH*  
Brandeau, M. L.  
2019; 67 (3): 700–710
- **A modified HIV continuum of care: A six-year evaluation of a viral load cascade at a hospital-based clinic in Kingston, Jamaica.** *International journal of STD & AIDS*  
Barrow, G. J., Brandeau, M. L.  
2019: 956462419839514
- **Optimal timing of drug sensitivity testing for patients on first-line tuberculosis treatment** *HEALTH CARE MANAGEMENT SCIENCE*  
Suen, S., Brandeau, M. L., Goldhaber-Fiebert, J. D.  
2018; 21 (4): 632–46
- **Improving the efficiency of the operating room environment with an optimization and machine learning model.** *Health care management science*

- Fairley, M., Scheinker, D., Brandeau, M. L.  
2018
- **Modeling Health Benefits and Harms of Public Policy Responses to the US Opioid Epidemic** *AMERICAN JOURNAL OF PUBLIC HEALTH*  
Pitt, A. L., Humphreys, K., Brandeau, M. L.  
2018; 108 (10): 1394-1400
  - **Modeling Health Benefits and Harms of Public Policy Responses to the US Opioid Epidemic.** *American journal of public health*  
Pitt, A. L., Humphreys, K., Brandeau, M. L.  
2018: e1–e7
  - **Dynamic Learning of Patient Response Types: An Application to Treating Chronic Diseases** *MANAGEMENT SCIENCE*  
Negoescu, D. M., Bimpikis, K., Brandeau, M. L., Iancu, D. A.  
2018; 64 (8): 3469–88
  - **Dynamic Learning of Patient Response Types: An Application to Treating Chronic Diseases.** *Management science*  
Negoescu, D. M., Bimpikis, K., Brandeau, M. L., Iancu, D. A.  
2018; 64 (8): 3469-3970
  - **Anticipated burden and mitigation of carbon-dioxide-induced nutritional deficiencies and related diseases: A simulation modeling study.** *PLoS medicine*  
Weyant, C., Brandeau, M. L., Burke, M., Lobell, D. B., Bendavid, E., Basu, S.  
2018; 15 (7): e1002586
  - **Anticipated burden and mitigation of carbondioxide-induced nutritional deficiencies and related diseases: A simulation modeling study** *PLOS MEDICINE*  
Weyant, C., Brandeau, M. L., Burke, M., Lobell, D. B., Bendavid, E., Basu, S.  
2018; 15 (7)
  - **Cost-effectiveness of alternative strategies for provision of HIV preexposure prophylaxis for people who inject drugs** *AIDS*  
Fu, R., Owens, D. K., Brandeau, M. L.  
2018; 32 (5): 663–72
  - **Structural Sensitivity in HIV Modeling: A Case Study of Vaccination.** *Infectious Disease Modelling*  
Bernard, C. L., Brandeau, M. L.  
2017; 2 (4): 399–411
  - **Dynamic treatment selection and modification for personalised blood pressure therapy using a Markov decision process model: a cost-effectiveness analysis** *BMJ OPEN*  
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