Biography

Eran Bendavid
Associate Professor of Medicine (Primary Care and Population Health)
Medicine - Primary Care and Population Health

**CLINICAL OFFICES**
• Infectious Diseases
  300 Pasteur Dr Rm S101D
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**Bio**

My work broadly investigates the drivers of population health improvements in developing countries. I study how economic, political, and natural environments affect population health. I use a mix of experimental, econometric, qualitative, modeling, and demographic tools to produce insights and strategies for improving health. A sample of current projects address the following questions:

• What role does US foreign aid play in reducing mortality and improving equity in developing countries?
• What forms of engagement in health improvements - social marketing, public health interventions, or community empowerment, for example - work, and which do not?
• What effect do malaria control programs have on child mortality?
• What combination of prevention strategies are most cost-effective for Africa’s HIV epidemic?
• What is the evidence that foreign aid for health is good diplomacy?
• Which populations are most vulnerable to the effects of climate conditions on the availability of food?

**CLINICAL FOCUS**
• Infectious Disease

**ACADEMIC APPOINTMENTS**
• Associate Professor, Medicine - Primary Care and Population Health
• Affiliate, Stanford Woods Institute for the Environment

**BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS**
• Faculty Fellow, Center for Innovation in Global Health (2015 - present)

**PROFESSIONAL EDUCATION**
• Fellowship: Stanford Hospital and Clinics (2009) CA
Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS
My research interests involve understanding the relationship between policies and health outcomes in developing countries. I explore how decisions about foreign assistance for health are made, and how those decisions affect health and health delivery systems in recipient countries. I further explore issues of resource allocation in low and middle-income countries through disease modeling and cost-effectiveness analyses.

Teaching

COURSES

2017-18

• Microbes and Society: OSPSANTG 60 (Aut)
• Outcomes Analysis: BIOMEDIN 251, HRP 252, MED 252 (Spr)

2016-17

• Analysis of Costs, Risks, and Benefits of Health Care: BIOMEDIN 432, HRP 392 (Aut)
• Outcomes Analysis: BIOMEDIN 251, HRP 252, MED 252 (Spr)

2015-16

• Outcomes Analysis: BIOMEDIN 251, HRP 252, MED 252 (Spr)

2014-15

• Outcomes Analysis: BIOMEDIN 251, HRP 252, MED 252 (Spr)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)
Sung Eun Choi, Allison Pitt, Christopher Weyant

Postdoctoral Faculty Sponsor
Aleksandra Jakubowski, Zachary Wagner-Rubin

Doctoral Dissertation Advisor (AC)
Michael Harris

Doctoral Dissertation Co-Advisor (AC)
Nathan Lo

Postdoctoral Research Mentor
Publications

PUBLICATIONS

- **Sources of variation in under-5 mortality across sub-Saharan Africa: a spatial analysis.** *The Lancet. Global health*
  Burke, M., Heft-Neal, S., Bendavid, E.
  2016

- **Health Aid Is Allocated Efficiently, But Not Optimally: Insights From A Review Of Cost-Effectiveness Studies.** *Health affairs*
  Bendavid, E., Duong, A., Sagan, C., Raikes, G.
  2015; 34 (7): 1188-1195

- **Changes in Child Mortality Over Time Across the Wealth Gradient in Less-Developed Countries** *PEDIATRICS*
  Bendavid, E.
  2014; 134 (6): E1551-E1559

- **HIV Development Assistance and Adult Mortality in Africa** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*
  Bendavid, E., Holmes, C. B., Bhattacharya, J., Miller, G.
  2012; 307 (19): 2060-2067

- **The Cost-Effectiveness of Preexposure Prophylaxis for HIV Prevention in the United States in Men Who Have Sex With Men** *ANNALS OF INTERNAL MEDICINE*
  Juusola, J. L., Brandeau, M. L., Owens, D. K., Bendavid, E.
  2012; 156 (8): 541-U144

- **The US Global Health Initiative Informing Policy With Evidence** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*
  Bendavid, E., Miller, G.
  2010; 304 (7): 791-792

- **Differentiated Human Immunodeficiency Virus RNA Monitoring in Resource-Limited Settings: An Economic Analysis.** *Clinical infectious diseases*
  Negoescu, D. M., Zhang, Z., Bucher, H. C., Bendavid, E.
  2017; 64 (12): 1724-1730

- **Disease ecology, health and the environment: a framework to account for ecological and socio-economic drivers in the control of neglected tropical diseases** *PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES*
  2017; 372 (1722)

- **Effect of Meat Price on Race and Gender Disparities in Obesity, Mortality and Quality of Life in the US: A Model-Based Analysis** *PLOS ONE*
  Pitt, A., Bendavid, E.
  2017; 12 (1)

- **Mortality along the continuum of HIV care in Rwanda: a model-based analysis** *BMC INFECTION DISEASES*
  Bendavid, E., Stauffer, D., Remera, E., Nsanzimana, S., Kanter, S., Mills, E. J.
  2016; 16

- **Feasibility of achieving the 2025 WHO global tuberculosis targets in South Africa, China, and India: a combined analysis of 11 mathematical models.** *The Lancet. Global health*
  2016; 4 (11): e806-e815

- **Cost-effectiveness and resource implications of aggressive action on tuberculosis in China, India, and South Africa: a combined analysis of nine models.** *The Lancet. Global health*
  2016; 4 (11): e816-e826
• Cost-effectiveness and resource implications of aggressive action on tuberculosis in China, India, and South Africa: a combined analysis of nine models. *Lancet Global Health*
  2016; 4 (11): e816-e826

• Past and Future Performance: PEPFAR in the Landscape of Foreign Aid for Health. *Current HIV/AIDS Reports*
  Bendavid, E.
  2016; 13 (5): 256-262

• Assessment of global guidelines for preventive chemotherapy against schistosomiasis and soil-transmitted helminthiasis: a cost-effectiveness modelling study. *Lancet Infectious Diseases*
  2016; 16 (9): 1065-1075

• Antiretroviral Treatment Scale-Up and Tuberculosis Mortality in High TB/HIV Burden Countries: An Econometric Analysis. *PLOS ONE*
  Yan, I., Bendavid, E., Korenromp, E. L.
  2016; 11 (8)

  2016; 10 (8)

• Cost-Effectiveness of HIV Preexposure Prophylaxis for People Who Inject Drugs in the United States. *Annals of Internal Medicine*
  Bernard, C. L., Brandeau, M. L., Humphreys, K., Bendavid, E., Holodniy, M., Weyant, C., Owens, D. K., Goldhaber-Fiebert, J. D.
  2016; 165 (1): 10-?

• Sustainable HIV treatment in Africa through viral-load-informed differentiated care. *Nature*
  2015; 528 (7580): S68-S76

• Health and Economic Implications of National Treatment Coverage for Cardiovascular Disease in India: Cost-Effectiveness Analysis. *Circulation: Cardiovascular Quality and Outcomes*
  Basu, S., Bendavid, E., Sood, N.
  2015; 8 (6): 541-551

• Reply to Young et al. *Clinical infectious diseases*
  2015; 61 (7): 1207-1208

• Cost-effectiveness of improvements in diagnosis and treatment accessibility for tuberculosis control in India. *International Journal of Tuberculosis and Lung Disease*
  Saen, S., Bendavid, E., Goldhaber-Fiebert, J. D.
  2015; 19 (9): 1115-?

• Risk of Cardiovascular Events Associated With Current Exposure to HIV Antiretroviral Therapies in a US Veteran Population. *Clinical infectious diseases*
  2015; 61 (3): 445-452

• International aid and natural disasters: a pre- and post-earthquake longitudinal study of the healthcare infrastructure in leogane, haiti. *American Journal of Tropical Medicine and Hygiene*
  Kligerman, M., Barry, M., Walmer, D., Bendavid, E.
  2015; 92 (2): 448-453
• Mortality changes after grants from the Global Fund to Fight AIDS, tuberculosis and malaria: an econometric analysis from 1995 to 2010. *BMC Public Health*
  Yan, I., Korenromp, E., Bendavid, E.
  2015; 15 (1): 977-?

• Comparing Decisions for Malaria Testing and Presumptive Treatment: A Net Health Benefit Analysis *Medical Decision Making*
  Basu, S., Modrek, S., Bendavid, E.
  2014; 34 (8): 996-1005

• Government health insurance for people below poverty line in India: quasi-experimental evaluation of insurance and health outcomes *BMJ-British Medical Journal*
  Sood, N., Bendavid, E., Mukherji, A., Wagner, Z., Nagpal, S., Mullen, P.
  2014; 349

• Disease control implications of India's changing multi-drug resistant tuberculosis epidemic. *PloS One*
  Suen, S., Bendavid, E., Goldhaber-Fiebert, J. D.
  2014; 9 (3)

• Comparative effectiveness and cost-effectiveness of antiretroviral therapy and pre-exposure prophylaxis for HIV prevention in South Africa. *BMC Medicine*
  Alistar, S. S., Grant, P. M., Bendavid, E.
  2014; 12: 46-?

• Risk of Cardiovascular Disease from Antiretroviral Therapy for HIV: A Systematic Review *Plos One*
  2013; 8 (3)

• Risk of cardiovascular disease from antiretroviral therapy for HIV: a systematic review. *PloS one*
  2013; 8 (3)
• Considerations in assessing the evidence and implications of aid displacement from the health sector. *PLoS medicine*
  Batniji, R., Bendavid, E.
  2013; 10 (1)

• Performance of serum biomarkers for the early detection of invasive aspergillosis in febrile, neutropenic patients: a multi-state model. *PloS one*
  2013; 8 (6)

• Balancing Immunological Benefits and Cardiovascular Risks of Antiretroviral Therapy: When Is Immediate Treatment Optimal? *CLINICAL INFECTIONOUS DISEASES*
  Negoescu, D. M., Owens, D. K., Brandeau, M. L., Bendavid, E.
  2012; 55 (10): 1392-1399

• Cost Effectiveness of Screening Strategies for Early Identification of HIV and HCV Infection in Injection Drug Users *PLOS ONE*
  Cipriano, L. E., Zaric, G. S., Holodniy, M., Bendavid, E., Owens, D. K., Brandeau, M. L.
  2012; 7 (9)

• Characteristics of US Emergency Departments That Offer Routine Human Immunodeficiency Virus Screening *ACADEMIC EMERGENCY MEDICINE*
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• HIV and Africa's elderly: the problems and possibilities. *AIDS*
  Bendavid, E., Ford, N., Mills, E. J.
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• HIV Treatment as Prevention: Systematic Comparison of Mathematical Models of the Potential Impact of Antiretroviral Therapy on HIV Incidence in South Africa *PLoS MEDICINE*
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• HIV treatment as prevention: systematic comparison of mathematical models of the potential impact of antiretroviral therapy on HIV incidence in South Africa. *PLoS medicine*
  2012; 9 (7)

• United States aid policy and induced abortion in Sub-Saharan Africa *BULLETIN OF THE WORLD HEALTH ORGANIZATION*
  Bendavid, E., Avila, P., Miller, G.
  2011; 89 (12): 873-880

• Health system determinants of infant, child and maternal mortality: A cross-sectional study of UN member countries *GLOBALIZATION AND HEALTH*
  Muldoon, K. A., Galway, L. P., Nakajima, M., Kanters, S., Hogg, R. S., Bendavid, E., Mills, E. J.
  2011; 7

• Comparative Analysis of Old-Age Mortality Estimations in Africa *PLOS ONE*
  Bendavid, E., Seligman, B., Kubo, J.
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• Assessing effectiveness and cost-effectiveness of concurrency reduction for HIV prevention *INTERNATIONAL JOURNAL OF STD & AIDS*
  Enns, E. A., Brandeau, M. L., Igeme, T. K., Bendavid, E.
  2011; 22 (10): 558-567

• The cost-effectiveness of symptom-based testing and routine screening for acute HIV infection in men who have sex with men in the USA *AIDS*
  2011; 25 (14): 1779-1787

• The relation of price of antiretroviral drugs and foreign assistance with coverage of HIV treatment in Africa: retrospective study *BRITISH MEDICAL JOURNAL*
  Bendavid, E., Leroux, E., Bhattacharya, J., Smith, N., Miller, G.
• Comparative Effectiveness of HIV Testing and Treatment in Highly Endemic Regions/archives of internal medicine
  2010; 170 (15): 1347-1354

• AIDS and declining support for dependent elderly people in Africa: retrospective analysis using demographic and health surveys/brtish medical journal
  Kautz, T., Bendavid, E., Bhattacharya, J., Miller, G.
  2010; 340

• The relationship between HIV testing, stigma, and health service usage/aids care- psychological and socio-medical aspects of AIDS/HIV
  Young, S. D., Bendavid, E.
  2010; 22 (3): 373-380

• Cost-effectiveness of antiretroviral regimens in the World Health Organization’s treatment guidelines: a South African analysis/aids
  Bendavid E, Grant PM, Talbot A, Owens DK, Zolopa A
  2010

• Switch from enfuvirtide to raltegravir in virologically suppressed HIV-1 infected patients: Effects on level of residual viremia and quality of life/journal of clinical virology
  2009; 46 (4): 305-308

• Expanding Antiretroviral Options in Resource-Limited Settings-A Cost-Effectiveness Analysis/aidS-journal of acquired immune deficiency syndromes
  2009; 52 (1): 106-113

• The President’s Emergency Plan for AIDS Relief in Africa: An Evaluation of Outcomes/annals of internal medicine
  Bendavid, E., Bhattacharya, J.
  2009; 150 (10): 688-U5

• Cost-effectiveness of Strategies for Monitoring the Response to Antiretroviral Therapy in Resource-Limited Settings Reply/archives of internal medicine
  Bendavid, E., Owens, D. K.
  2009; 169 (9): 904-905

• Cost-effectiveness of HIV monitoring strategies in resource-limited settings - A Southern African analysis/archives of internal medicine
  2008; 168 (17): 1910-1918

• Monitoring of antiretroviral therapy in low-resource settings/lancet
  Bendavid, E.
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• Systematic review: The effects of growth hormone on athletic performance/annals of internal medicine
  2008; 148 (10): 747-U59

• Complication rates on weekends and weekdays in US hospitals/american journal of medicine
  Bendavid, E., Kaganova, Y., Needleman, J., Gruenberg, L., Weissman, J. S.
  2007; 120 (5): 422-428

• Hospital workload and adverse events/medical care
  2007; 45 (5): 448-455

• Data withholding and the next generation of scientists: Results of a national survey/academic medicine
  Vogeli, C., Yucel, R., Bendavid, E., Jones, L. M., Anderson, M. S., Louis, K. S., Campbell, E. G.
• Should US hospitals go 24/7? *American Journal of Medicine*
  Weissman, J. S., Bendavid, E.
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• Data-sharing and data-withholding in genetics and the life sciences: results of a national survey of technology transfer officers. *Journal of health care law & policy*
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