

Somalee Banerjee, MD, MPH

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EDUCATION

University of California, Berkeley

July 2016 – May 2017

Master of Public Health with specialty in Global Health

Kaiser Permanente, Oakland

July 2013 – July 2016

Internal Medicine Residency, Public Health Track

Washington University School of Medicine, St. Louis, MO

August 2009 – June 2013

Doctor of Medicine

Washington University, St. Louis, MO

August 2004 – December 2008

Bachelor of Arts (Biology - Neuroscience with Honors)

Bachelor of Fine Arts (Painting)

Licensures and Certification:

American Board of Internal Medicine, 2016 - Present

California State Medical Board License, 2014 - Present

Department of Justice DEA Controlled Substance Registration, 2014 – Present

Kaiser Permanente Patient Centered Information Systems Lean Leader, 2017 - Present

CURRENT PROFESSIONAL MEMBERSHIPS

American College of Physicians, Current Member

Society of General Internal Medicine, Current Member

American Medical Women's Association, Current Member, Artist-In-Residence

Hygge Health, Current Member

EXPERIENCE

Current Teaching and Mentoring Roles

Director of Global Health, Assistant Program Director, Internal Medicine Residency, Kaiser Permanente Oakland (2019 – Present)

Lecturer, School of Public Health, UC Berkeley (2022 – Present)

Volunteer Clinical Instructor, Department of Internal Medicine, UCSF (2019 – Present)

Curriculum Development

Global Health Curriculum Development, Internal Medicine Residency, Kaiser Permanente Oakland

ArtHeal, Art Museum Observation Based Curriculum Development, Pulitzer Museum of Art, St Louis

Art of Public Health Course, UC Berkeley

Humanities in Medicine Specialty KORE Pathway, Kaiser Permanente Oakland

Hospital and Research Appointments

Kaiser Permanente, Oakland

Internal Medicine Hospitalist Based Services, Physician

Director of Global Health, Humanities, Core Faculty, Internal Medicine Residency

July 2016 – Present

UCSF, San Francisco

Clinical Instructor

May 2019 – Present

Neerman, India

Senior Research Fellow

August 2017 – Present

Research

Kaiser Permanente Graduate Medical Education, Oakland, CA

Sub-Investigator

Kaiser Division of Research, Oakland, CA

Clinician Researcher

Aug 2014 – Present

- Lead research about hospital utilization within Kaiser Permanente amongst patients experiencing homelessness.
- Analyzed care utilization patterns of high cost care utilizers in the Kaiser Permanente Medicaid system.
- Assessed improvement in smoking cessation after implementation of EMR based changes in smoking cessation medication prescription for hospitalized patients.
- Sub-investigator in randomized controlled prospective clinical trials assessing efficacy of therapeutics against SARS-CoV-2

NEERMAN Research and Consulting, Center for Health Services Research –

Research Fellow

Sept 2017 – Present

- Leading development of the Center for Health Services Research within a large global health impact evaluation consulting firm

Washington University School of Medicine, Pediatrics,

St. Louis, MO, and Blantyre, Malawi – Research Assistant

June 2010 – June 2013

- Collected and analyzed data for a series of clinical trials examining the use of Ready-to-

eat-Therapeutic-Food and other outpatient therapies for children affected by severe and moderate acute malnutrition.

- Analyzed and synthesized data studying 12-week treatment of moderate acute malnutrition in children in Malawi.

Washington University School of Medicine, Neurosurgery, St. Louis, MO – Research Assistant

Aug 2005 –Dec 2008

- Developed and conducted a study of the role of anti-apoptotic protein Akt and its downstream effectors in hypoxic preconditioning against ischemic injury in the mouse brain.
- Performed microvessel rich preparations on mouse brains, occlusion surgeries on mouse arteries, protein isolation and assays, western blotting, spectrometry, and other experimental procedures.

Health System Design and Policy

Food for Peace, USAID, Washington DC, Oakland, CA – Design Consultant

Feb 2017 – Present

- Designed an educational toolkit for blockchain technology applications in aid delivery.
- Presented a symposium describing blockchain applications in development in partnership with The Cash Learning Partnership (CaLP) and USAID.

The Fund for Global Health, Seattle, WA – Advocacy Intern

Feb 2017 – Present

- Advocated at local and national levels towards funding for global health at USAID.

SEWA Rural, Gujarat, India – Visiting Resident Research Associate, Clinical Consultant

Oct 2014 – May 2016

- Collaborated with UCSF faculty to do a literature review of sickle cell disease in India.
- Designed clinic flow processes in their sickle cell clinic by implementing results of a systems assessment.
- Implemented community based outreach using community health workers to improve sickle cell care.
- Designed program print materials regarding sickle cell care to be used for funding purposes.

Kaiser Family Foundation, Menlo Park, CA – Designer, Clinical Consultant

Oct 2014-Nov 2014

- Developed infographics for JAMA as a part of the Kaiser Family Foundation.

INVITED PRESENTATIONS

Art and Medicine: Work by Hannah Wilke

Presented at the Pulitzer Foundation for the Arts. October 2021

Art of Medicine

Presented at Joy and Meaning in Medicine Grand Rounds. Kaiser Permanente. July 2021.

Art in Graduate Medical Education

Presented at American Medical Women's Association. July 2019.

Where is the Naloxone? Spatial Distribution of Nonprescription Naloxone and its Correlation with Opioid Overdose Death Distribution.

Presented at Final Interdisciplinary Master of Public Health Presentations. April 2017.

Social Determinants of Health, Where you Live Matters.

Presented at Kaiser Permanente Oakland Grand Rounds. October 2016.

Morbidity and Mortality Conference

Presented at Kaiser Permanente Oakland Grand Rounds. May 2016.

PUBLICATIONS

DeWaters AL, **Banerjee S**, Bruce J, Cooney R, Ellison HB, Haidet P, Mazotti L, Reilly JB, Gonzalo JD. Exploring clinician perspectives of systems-based practice: A physician training challenge. Clin Teach. 2024 Nov 6:e13840.

Banerjee S, Yassin M, Dyer WT, Thomas TW, Rodriguez LA, Schmittiel J. Hospital Readmissions Among Patients Experiencing Homelessness: An Electronic Health Record Data Study. Perm J. 2024 Mar 15;28(1):55-61.

Banerjee S, Alabaster A, Adams AS, Fogelberg R, Patel N, Young-Wolff K. Clinical impacts of an integrated electronic health record-based smoking cessation intervention during hospitalisation. BMJ Open. 2023.

Wagner Z, **Banerjee S**, Mohanan M, Sood N. Does the market reward quality? Evidence from India. Int J Health Econ Manag. 2023 Sep;23(3):467-505.

Engel T, Gowda D, Sandhu JS, **Banerjee S**. Art Interventions to Mitigate Burnout in Health Care Professionals: A Systematic Review. Perm J. 2023;27(2):184-194.

Rodriguez LA, Thomas TW, **Banerjee S**, Finertie H, et al. Identifying Predictors of Homelessness Among Adults in a Large Integrated Health System in Northern California. Perm J. 2023;27(1):56-71.

Banerjee S, Banerjee S, Bhagi A, et al. Blockchain technology for immunisation data storage in India: opportunities for population health innovation. BMJ Innovations. 2022;8(1).

Gottlieb RL, Vaca CE, Paredes R, **Banerjee S** et al. Early Remdesivir to Prevent Progression to Severe Covid-19 in Outpatients. N Engl J Med. 2022;386(4):305-315.

Banerjee S, Alabaster A, Kipnis P, Adams AS. Factors associated with persistent high health care utilization in managed Medicaid. Am J Manag Care. 2021;27(8):340-344.

Liu JC, **Banerjee S**, Bhagi A, et al. Blockchain technology for immunisation documentation in India: findings from a simulation pilot. The Lancet Global Health. 2021;9:S22.

Banerjee S, Kiyoi Y. Art and Critique in Medicine. Perm J. 2020;24:9-10.

Banerjee S, Kim E, Parker MM, Dlott R, Gilliam L, Adams AS. Clinical Response to Real-Time Patient Reported Diabetic Peripheral Neuropathy Symptoms. *Perm J*. 2019;23. doi:10.7812/TPP/18-180

Banerjee S. Optimizing the Distribution of Pharmacy-Dispensed Naloxone Using Spatial Mapping Techniques in Rural Areas. *J Drug Issues*. 2020;50(4):604-612.

Zachary Wagner, **Somalee Banerjee**, Manoj Mohanan, Neeraj Sood, Does the Market Reward Quality?: Evidence from India. *Lancet Global Health*. In Review.

Schmittziel JA, Gopalan A, Lin MW, **Banerjee S**, Chau CV, Adams AS. Population Health Management for Diabetes: Health Care System-Level Approaches for Improving Quality and Addressing Disparities. *Curr Diab Rep*. 2017 May;17(5):31.

Desai G, Dave K, **Banerjee S**, Babaria P, Gupta R. Initial outcomes of a comprehensive care model for sickle cell disease among a tribal population in rural western India. *Int J Community Med Public Health*. 2016; 3(5): 1282-1287.

Trehan I, **Banerjee S**, Murray E, Ryan KN, Thakwalakwa C, Maleta KM, Manary MJ. Extending supplementary feeding for children younger than 5 years with moderate acute malnutrition leads to lower relapse rates. *J Pediatr Gastroenterol Nutr*. 2015 Apr;60(4):544-9.

Adams AS, **Banerjee S**, Ku CJ. Medication adherence and racial differences in diabetes in the US: an update. *Diab Management*. 2015 Mar; 5(2):79-87.

Michaud J, Kates J, **Banerjee S**, Jankiewicz A, Rousseau D. The 2014 Ebola Outbreak. *JAMA*. 2014;312(14):1388.

SELECTED ABSTRACT PRESENTATIONS

Bruce J, **Banerjee S**. Innovating Systems Based Practice Education: A Learner-Centered Design Thinking Approach. AMA Health Systems Science Summit. Chicago, Ill. 2022.

Mazotti L, **Banerjee S**, Friedenberg S, Schlegel D, DeWaters A, Miller E, Wisnousky H, Cooney R, Reilly J, Gonzalo J. Systems-Based Practice: Readiness for change. AMA Health Systems Science Summit, Chicago, IL. 2022.

DeWaters AL, **Banerjee S**, Bruce J, Cooney R, Ellison H, Haidet P, Mazotti L, Reilly J, Gonzalo J. Exploring Graduate Medical Education Frontline Clinician Perspectives of the Systems-Based Practice Competency: A "Black Box" Calling for Re-design of Residency Training. AMA Health Systems Science Summit, Chicago, IL. 2022.

Banerjee S, Alabaster A, Adams AS. Predictors of Long-term High Healthcare Utilization among New Medicaid Enrolees. Poster presentation at the Society of General Internal Medicine Annual Meeting, May 2019, Washington D.C.

Banerjee S, Ma L, Adams AS. Factors Influencing Patient Decisions to Self-Titrate Medications for Diabetic Peripheral Neuropathy Treatment. Poster presentation at the Society of General Internal Medicine Annual Meeting, April 2017, Washington D.C.

Banerjee S, Dyer W, Adams AS. Change in Diabetes Management Following the System-Wide Implementation of a Diabetic Peripheral Neuropathy Screening Tool. American Diabetes Association 76th annual session, New Orleans LA, June 2016. Oral abstract presentation.

Banerjee S, Dave K, Desai G, Babaria P, Gupta R. Initial Outcomes of a Comprehensive Care Model for Patients with Sickle Cell Disease in a Tribal Population in Rural Western India. Abstracts of Consortium of Universities for Global Health, San Francisco, April 2016. Abstract and Poster Presentation.

Banerjee S, Dyer W, Adams AS. Diagnoses of Diabetic Peripheral Neuropathy after Implementation of Symptom Screener in a Large Health Plan. Northern California American College of Physicians Regional Meeting, San Francisco CA, Nov 2014. Abstract and Poster presentation.

Banerjee S, Gidday J. Ischaemic Protection: Akt-Mediated Signaling Mechanisms Operative After Hypoxic Preconditioning in the Cerebral Microvasculature (2009). *Washington University Undergraduate Research Digest, Volume 4, Issue 2*.

ONGOING RESEARCH SUPPORT

HOME Study, Permanente Medical Group
Banerjee (Sub-I) 6/1/2021 – 12/31/2023

The goal of this study is to study hospital readmissions by patients experiencing homelessness by utilization EMR documentation changes associated with SB1152. We are currently preparing a manuscript for publication.

India Grand Challenges Gates Foundation/BIRAC Grant (IDIA0198/04/17)
Banerjee (PI) 2/25/2019 – 8/1/2022

The goal of this study is to develop, implement and study a blockchain technology-based solution to connecting Indian government databases storing immunization data in India in partnership with the Indian Government.

Permanente Medical Group Delivery Sciences Grant (0206-20003-9852)
Banerjee (Co-PI) 5/16/2019 – 12/31/2020

The goal of this study is to assess hospital level health system factors for Medicare/Medicaid patients in the Kaiser Permanente system and its association with utilization of inpatient and emergency utilization. We are currently preparing a manuscript for publication.

Kaiser Community Benefit Research Grant
Banerjee (PI) 1/1/2020 – 12/31/2020

The goal of this study is to assess effects of an electronic medical record based intervention to improve smoking cessation at the point of hospital discharge for adult patients. Our manuscript is currently under review

American Medical Association, Reimagining Resident Grant
Banerjee (sub-investigator) 3/1/2020 – 12/31/2024

The goal of this study is to assess educational methods for teaching health systems policy and

systems based practice to graduate medical learners

Gilead grant for Randomized Study to Evaluate Safety and Efficacy of Remdesivir in participants with Moderate and Severe COVID-19 (GS-US-540-5774/5773)
Banerjee (sub-investigator) 3/15/2020 – 7/30/2020

Randomized controlled study of Selnexor for Severe COVID-19 (XPORT-CoV-1001)
Banerjee (sub-investigator) 6/1/2020 – 8/1/2020

HONORS

Mentor of the Year, Kaiser Permanente Oakland, Internal Medicine Residency (2024)
Teacher of the Year, Kaiser Permanente Oakland, Internal Medicine Residency (2022)
AMWA Artist in Residence (2019)
Clinton Global Initiative University Scholar (2013)
Ruth Bebermeyer Award, Washington University School of Medicine (2012)
Dr. Lee B. & Virginia G. Harrison Scholarship for internal medicine, Washington University School of Medicine (2012)
Paul Ambrose Scholar (2012)
New England Journal of Medicine Scholar at the 200th anniversary meeting (2012)
Trans-NIDDK Short-Term Training Program Grant (2010)
Stalker prize in the Health and Humanities, Washington University (2008)
Howard Hughes Medical Institute Summer Undergraduate Research Program Grant (2006)
Sigma Xi Research Award (2006)
Moog Scholarship recipient, Washington University (2005)