

# Artificial Intelligence in Medical Diagnosis

Co-hosted by the National Academy of Medicine and the U.S. Government Accountability Office



October 6, 2022 11:00 AM – 12:30 PM ET  
Zoom Webinar

## Presenter and Panelist Biographies

**Adewole (Ade) Adamson, MD, MPP**, is a board-certified dermatologist and assistant professor in the Department of Internal Medicine. His primary clinical interest is in caring for patients at high risk for melanoma of the skin, such as those with many moles (particularly atypical moles) or a personal and/or family history of melanoma. He is interested in how artificial intelligence can be leveraged to take care of this patient population. Adamson's research involves understanding patterns of health care utilization including overuse and underuse in dermatology. He is interested in how effectively and efficiently the health care system delivers care to patients with skin cancer, the most common type of cancer in the United States. He is passionate about health care disparities, access to specialty health care and health care costs. He speaks nationally about health care quality, value and the application of evidence-based medicine within dermatology. Adamson is a proud graduate of Morehouse College, where he received a Bachelor of Science in biology and French. He later earned a medical degree with honors at Harvard Medical School as part of the health sciences and technology program with the Massachusetts Institute of Technology. While in medical school he spent a year conducting basic science research in immunology at the National Institutes of Health and later earned a Master in Public Policy at Harvard Kennedy School as a Zuckerman fellow in the Center for Public Leadership. He completed his internship in internal medicine at The Mount Sinai Hospital followed by residency training in dermatology at the University of Texas Southwestern in Dallas. After graduation, he spent three years on faculty in the department of dermatology at the University of North Carolina at Chapel Hill.

**Barbara J. Evans, PhD, JD, LLM**, is Professor of Law and Stephen C. O'Connell Chair at University of Florida's Levin College of Law and Professor of Engineering at UF's Herbert Wertheim College of Engineering. Her work focuses on data privacy and the regulation of machine-learning medical software, genomic technologies, and diagnostic testing. She is an elected member of the American Law Institute, a Senior Member of the Institute of Electrical and Electronics Engineers and was named a Greenwall Foundation Faculty Scholar in Bioethics for 2010-2013. Before coming to academia, she was a partner in the international regulatory practice of a large New York law firm and is admitted to the practice of law in New York and Texas. She holds a BS in electrical engineering from the University of Texas at Austin, an MS & PhD from Stanford University, a JD from Yale Law School, an LLM in Health Law from the

University of Houston Law Center, and she completed a post-doctoral fellowship in Clinical Ethics at the MD Anderson Cancer Center.

**Karen Howard, PhD, MS, MEd**, leads teams of scientists, engineers, and analysts at GAO to provide insight, oversight, and foresight for the U.S. Congress through high quality analysis of science and technology issues and the related policy implications. She manages a broad portfolio of topics including forensic algorithms for law enforcement, pandemic preparedness, vaccine development, chemical weapons, artificial intelligence in health care, toxic chemicals and emerging contaminants, environmental quality, water scarcity, and a range of other science and technology issues. Dr. Howard received the 2021 Arthur S. Flemming Award for Leadership in Government Service. She has also received GAO's 2022 Distinguished Service Award, 2019 Meritorious Service Award, and others. Prior to joining GAO in 2007, Dr. Howard enjoyed a 12-year career as a high school chemistry and biology teacher. Dr. Howard holds a PhD in Environmental Chemistry, M.S. in Analytical Chemistry, M.S. in Education, and dual bachelor's degrees in Biology and Secondary Education.

**Constance "Connie" Lehman, MD, PhD**, is Professor of Radiology at Harvard Medical School, Founder and co-Director of the Breast Imaging Research Center at the Massachusetts General Hospital in Boston, MA. She received her undergraduate education from Duke University and her MD and PhD from Yale University. She has authored national and international recommendations and guidelines for breast cancer detection, diagnosis and treatment by the American Cancer Society, the American College of Radiology, and the National Comprehensive Cancer Network, and over 290 peer-reviewed scientific publications. Her current research has demonstrated the power of AI tools to exceed current methods to predict future breast cancer risk and to interpret mammograms. She has developed novel approaches to AI model development, global validation across diverse patient populations and rigorous analysis of performance after clinical implementation. Collectively, her experiences support methods to guide equitable, accurate, cost effective and value-based implementation of AI tools to improve patient outcomes.

**Steven Lin, MD**, is the Founder and Executive Director of the Stanford Healthcare AI Applied Research Team. He is an expert clinician, educator, researcher, and health system leader in the specialty of family medicine. Dr. Lin earned his MD from Stanford University School of Medicine and completed his training at Stanford's family medicine residency program. He is the Family Medicine Service Chief and the Head of Technology Innovation for the Division of Primary Care and Population Health at Stanford. Dr. Lin's focus is on the intersection of health services innovation, digital health and emerging technologies – specifically artificial intelligence and machine learning in healthcare. He is the author of over 350 scholarly works and conference presentations. Dr. Lin is currently the James C. Puffer/American Board of Family Medicine Fellow with the National Academy of Medicine.

**Dalia Powers, MSc**, is the Senior Vice President and Chief Information Officer of Data Platforms & Digital Channels across Humana. Dalia's organization builds cloud-native capabilities working

closely with enterprise partners on key initiatives. Dalia brings over 20 years of progressive leadership experience enabling technology and digital solutions mostly across Technology and Financial Services companies. Dalia started her career with IBM and led the Cloud Management Group at Dell/EMC. She also held Division CIO roles at Capital One and USAA. Most recently she served as the division CIO and SVP heading Enterprise Services across CBRE, where she delivered engineering excellence across the globe with responsibility for Enterprise Architecture, DevOps, cloud transformation, India Delivery Centers, the Agile Center of Excellence, and Innovation. Recently, Dalia was recognized as one of the Top 500 Business Leaders in Dallas, the Nation's Top CIOs by the National Diversity Council and one of the top Women Technology Executives in Dallas by the Dallas Business Journal. She is passionate about developing talent and volunteering her time serving on four non-profit advisory boards including: DallasCIO, DFW Alliance of Technology and Women (DFW\*ATW), Credera, and The Samaritan Inn. Dalia received a bachelor's degree in computer science and a minor in business administration from The American University in Cairo, a master's degree in computer science from Southern Methodist University and studied disruptive strategy at Harvard Business School.