NATIONAL ACADEMIES Sciences Engineering Medicine

BOARD ON HEALTH CARE SERVICES |
FORUM ON ADVANCING DIAGNOSTIC EXCELLENCE

Diagnosis in the Era of Digital Health and Artificial Intelligence: A Workshop

THURSDAY, JULY 25, 2024—NATIONAL ACADEMY OF SCIENCES, ROOM 120

8:00 AM **BREAKFAST—NAS ROOM 120**

8:30 AM **Welcome and Opening Remarks**
Andrew Bindman, Kaiser Permanente
Forum Chair, Advancing Diagnostic Excellence

Workshop on Diagnosis in Digital Health and Artificial Intelligence Remarks
Daniel Yang, Kaiser Permanente
Planning Committee Chair

Keynote: History of Artificial Intelligence in Diagnosis
Michael Howell, Google Health

9:15 AM **Session 1: Using Artificial Intelligence and Digital Health Technology to Support Patients from Symptom Onset to Seeking Care**
Moderators: *Michael Howell, Google Health*
David Larson, Stanford University School of Medicine

Patient Advocate Perspective
Grace Cordovano, Enlightening Results

Ensuring the Safe and Secure Use of Patient Information
Lucia Savage, Omada Health

Patient Navigation of Digital Platforms to Understand Symptoms and Its Role in

Connecting to Care
John Whyte, WebMD

Panel Discussion/Audience Q&A

10:15 AM **Session 2: Utilizing Artificial Intelligence to Improve Information Gathering and Patient-Clinician Communication During Diagnosis**

Moderators: *Julia Adler-Milstein, University of California, San Francisco*
Gene Harkless, University of New Hampshire

Improving Information Gathering Through Natural Language Processing of Patient Signs and Symptoms in the Electronic Health Record
Kenrick Cato, University of Pennsylvania

Opportunities to Engage Patients in Diagnostic Safety Through Open Notes
Sigall Bell, Beth Israel Deaconess Medical Center

Deployment and Implementation of Artificial Intelligence Technologies in Task Prediction and Improving Linkages to Specialists
Jonathan Chen, Stanford University School of Medicine

Panel Discussion/Audience Q&A

11:15 AM **BREAK**

11:30 AM **Session 3: Leveraging Artificial Intelligence to Support Clinician Decision-Making**

Moderators: *Salahuddin Kazi, University of Texas Southwestern Medical Center*
Pari Pandharipande, The Ohio State University

Harnessing Artificial Intelligence to Enhance Diagnostic Reasoning
Adam Rodman, Beth Israel Deaconess Medical Center

Using Artificial Intelligence to Improve Radiology Workflow
Jason Poff, Greensboro Radiology

Artificial Intelligence Advancements in Radiology, Image Analysis, and Diagnosis in Research
Yvonne Lui, New York University Grossman School of Medicine

Panel Discussion/Audience Q&A

12:30 PM **LUNCH BREAK—NAS ROOM 120**

1:30 PM **Session 4: Advancing Health Equity Through Diagnostic Artificial Intelligence**

Moderators: *Thomas Cudjoe, Johns Hopkins University School of Medicine*
Maia Hightower, Equality AI

Mitigating Racial and Ethnic Bias in Clinical Algorithms

Kadija Ferryman, Johns Hopkins School of Public Health

Using Artificial Intelligence and Machine Learning Strategies to Advance Health Equity for Older Adults

Michael Cary, Duke University School of Nursing

Strategies to Address Digital Determinants of Health

Irene Dankwa-Mullan, Marti Health

Panel Discussion/Audience Q&A

2:30 PM **Session 5: A Vision for the Future of Diagnostic Excellence in Artificial Intelligence**

Moderator: *Daniel Yang, Kaiser Permanente*

Panelists:

- Ysabel Duron, The Latino Cancer Institute
- Craig Umscheid, Agency for Healthcare Research and Quality
- Prabhjot Singh, Peterson Health Technology Institute
- Eric Horvitz, Microsoft
- Judy Wawira Gichoya, Emory University

3:45 PM **Workshop Closing Remarks**

Daniel Yang, Kaiser Permanente

4:00 PM **MEETING ADJOURNS**