LLMs/Generative AI in Health and Medicine

An Issue Framing Conversation
To improve health for all by advancing science, accelerating health equity, and providing independent, authoritative, and trusted advice nationally and globally.
By augmenting human performance, AI has the potential to markedly improve productivity, efficiency, workflow, accuracy and speed, both for (clinicians) and for patients… What I’m most excited about is using the future to bring back the past: to restore the care in health care.

Eric J. Topol, MD
NAM Leadership Consortium

A venue for stakeholder leaders in public, private, and independent organizations from key sectors in health and health care to collaborate under the auspices of the National Academy of Medicine for action on their common interests in advancing effectiveness, efficiency, equity, and continuous learning in health, medical care, and biomedical science.
NAM Leadership Consortium

- Patients and families
- Clinicians
- Health care delivery organizations
- Public health practitioners
- Health care payer organizations
- Quality, safety and standards organizations
- Research organizations
- Digital health developers
- Health product manufacturers and innovators
- Government agency heads
  (AHRQ, CDC, CMS, DoD, FDA, HRSA, NIH, ONC, VA)
Collaborative Action

A learning health system is one in which science, informatics, incentives, and culture are aligned for continuous improvement, innovation, and equity—with best practices and discovery seamlessly embedded in the delivery process, individuals and families active participants in all elements, and new knowledge generated as an integral by-product of the delivery experience.

NAM Leadership Consortium Charter

**Science:** Evidence Mobilization Action Collaborative (EMAC)

**Informatics:** Digital Heath Action Collaborative (DHAC)

**Incentives:** Value Incentives & Systems Action Collaborative (VISAC)

**Culture:** Culture Inclusion & Equity Action Collaborative (CIEAC)
NAM Digital Health Action Collaborative

Co-Chairs

Peter Lee
Microsoft
DHAC Co-Chair

Kenneth Mandl
Harvard University
DHAC Co-Chair

Network Organizations

- Mayo Clinic
- Walmart
- Atrium Health
- MITRE
- Blue Cross Blue Shield
- CVS Health
- Elevance Health
- Kaiser Permanente
- UnitedHealth Group
- Dep. Veterans Affairs
- Families USA
- AHRQ
- CMS
- FDA
- NIH
- ONC
- OSTP
- Amazon
- Apple
- AstraZeneca
- Oracle/Cerner
- Epic
- Intel
- Google
- Komodo Health
- Microsoft
- Philips
- Samsung
- Alliance for AI in Health
- AMIA
- Digital Medicine Society
- HIMSS
- Duke University
- Harvard University
- New York University
- Stanford University
- UCSF
- Vanderbilt University
- Washington University
- Yale University

Slide 7
NAM President’s Remarks

Victor Dzau
President, National Academy of Medicine
Meeting Planning Committee

• Dianne Babski, National Institutes of Health
• Matthew Diamond, U.S. Food and Drug Administration
• Peter Embi, Vanderbilt University Medical Center
• Jackie Gerhart, Epic
• Judy Wawira Gichoya, Emory University School of Medicine
• Jennifer Goldsack, Digital Medicine Society (DiMe)
• Jennifer Layden, Centers for Disease Control and Prevention
• Thomas Maddox (Chair), Washington University School of Medicine
• Troy Sarich, Janssen Pharmaceuticals
Meeting Overview

Thomas Maddox
BJC Healthcare/Washington University School of Medicine
Planning Committee Chair
# Agenda

## Welcome, Introductions & Meeting Overview  
8:30 – 9:00 AM ET

- **Michael McGinnis**, National Academy of Medicine  
- **Victor Dzau**, National Academy of Medicine  
- **Thomas Maddox**, BJC Healthcare/Washington University School of Medicine

## Emerging Health Applications and Opportunities in Generative AI  
9:00 – 10:30 AM ET

**Speakers:**
- **Peter Lee**, **Sebastien Bubeck**, Microsoft  
- **Pete Clardy**, Google

**Reactors:**
- **Philip Payne**, Washington University in St. Louis  
- **Jackie Gerhart**, Epic  
- **Vincent Liu**, Kaiser Permanente  
- **Steven Waldren**, American Academy of Family Physicians

## Leveraging Publicly Funded Health Datasets in Research  
10:45 – 12:15 PM ET

**Facilitator: Jennifer Goldsack**, Digital Medicine Society

**Speakers:**
- **Marzyeh Ghassemi**, Massachusetts Institute of Technology  
- **Christopher Chen**, Washington Health Care Authority  
- **Nigam Shah**, Stanford University  
- **Christina Silcox**, Duke Margolis Center for Health Policy  
- **Christopher Khoury**, American Medical Association
## Agenda Continued

### Networking Lunch
12:15 pm ET

### The Path Forward for Oversight of Generative AI
1:00 – 1:15 PM ET

**Speaker:** Matthew Diamond, Food and Drug Administration

### Improving Sector Alignment through Generative AI Governance
1:15 – 2:30 PM ET

**Facilitator:** Peter Embi, Vanderbilt University

**Speakers:**
- Brian Anderson, MITRE
- Suchi Saria, Bayesian Health and Johns Hopkins
- Timothy Hsu, AFDO/RAPS Healthcare Products Collaborative
- Deven McGraw, Invitae
- Marc Rotenberg, Center for AI and Digital Policy

### Federal Policy and Governance Considerations for LLMs/Generative AI
2:45 – 4:15 PM ET

**Facilitator:** Troy Tazbaz, Food and Drug Administration

**Speakers:**
- Gil Alterovitz, Department of Veterans Affairs
- Kathryn Marchesini, Office of the National Coordinator for Health Information Technology
- Robert Valdez, Agency for Healthcare Research and Quality
- Reva Schwartz, National Institute of Standards and Technology
- Christine Cutillo, National Institutes of Health