UT System 2025 AI Symposium in Healthcare

Peter WT Pisters, M.D.

President

The University of Texas MD Anderson Cancer Center

𝕏 @ppisters

THE UNIVERSITY OF TEXAS
MD Anderson
Cancer Center

Making Cancer History®

Many thanks to our teams today

Attendees + Speakers

Co-sponsors
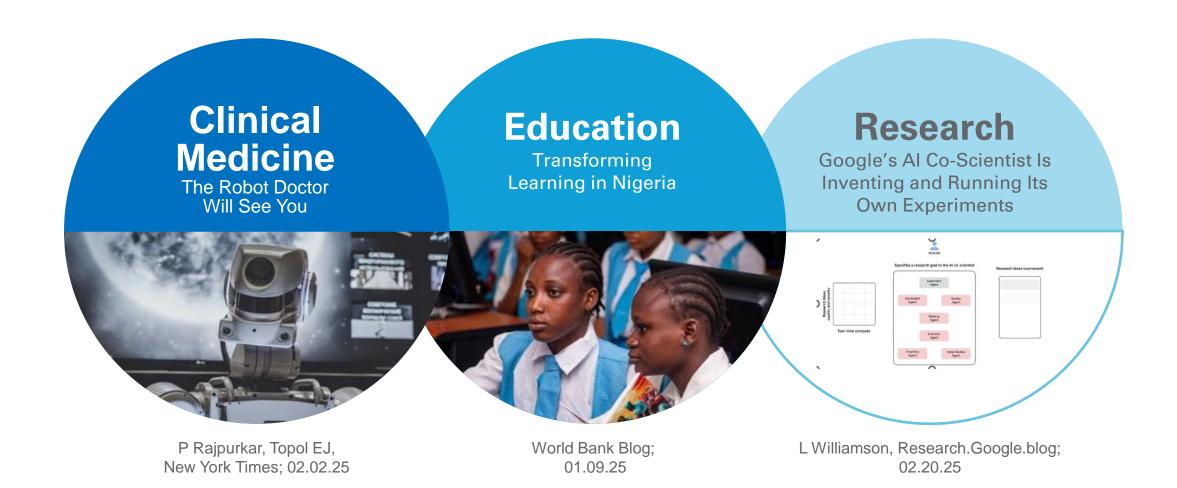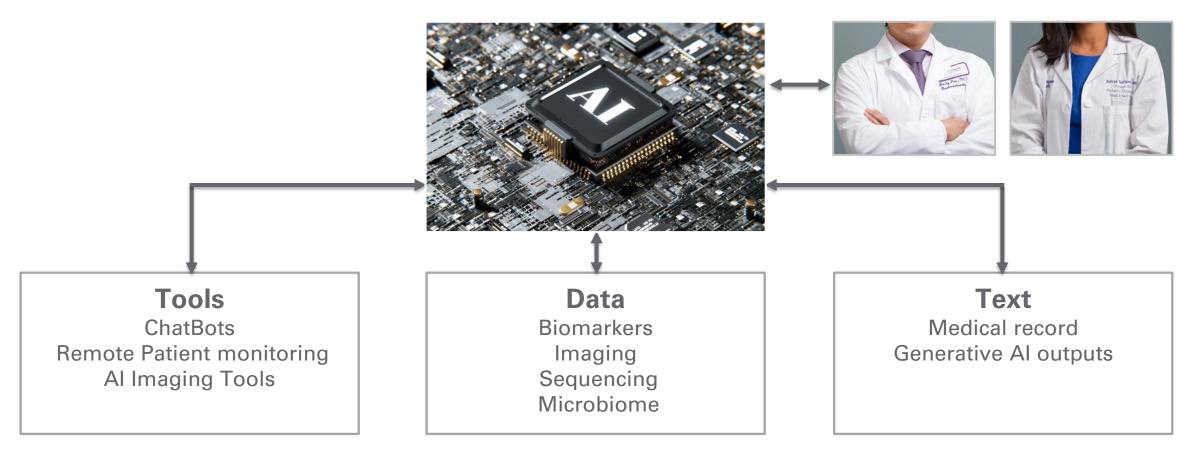
Support from

Our evolutionary step: We must embrace AI

Clinical Medicine
The Robot Doctor Will See You

Education
Transforming Learning in Nigeria

Research
Google's AI Co-Scientist Is Inventing and Running Its Own Experiments

P Rajpurkar, Topol EJ, New York Times; 02.02.25

World Bank Blog; 01.09.25

L Williamson, Research.Google.blog; 02.20.25

The rise of agentic AI teammates in medicine

Tools
ChatBots
Remote Patient monitoring
AI Imaging Tools

Data
Biomarkers
Imaging
Sequencing
Microbiome

Text
Medical record
Generative AI outputs

Modified from: Zou J, Topol EJ. Lancet 405:458; 2025.

Benchmarking AI's ability to handle complex healthcare scenarios

OpenAI launches HealthBench, an evaluation framework

- Developed in collaboration with 262 physicians across 60 countries,

- Includes 5,000 realistic health conversations and over 57,000 criteria to assess AI responses.

- Aims to address the challenge of fairly comparing different AI models in the healthcare domain.

- The dataset is open-source, allowing researchers and developers to use it to test and improve AI systems for medical applications.

A vision for the future

MD Anderson is harnessing these opportunities through the Institute for Data Science in Oncology
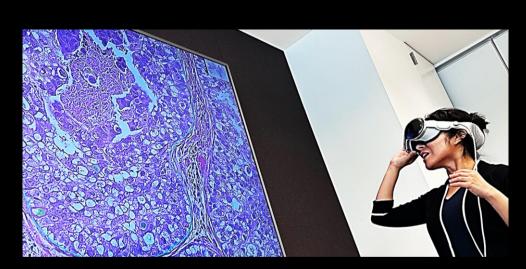
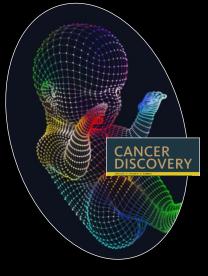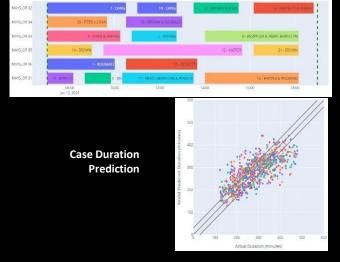| Quantitative Pathology and Medical Imaging	Single Cell Analytics	Computational Modeling for Precision Medicine	Decision Analytics for Health	Safety, Quality and Access

Spatial computing used to navigate tissue samples

CANCER DISCOVERY

The Virtual Child
Modelling the normal and cancer development of pediatric CNS

Case Duration Prediction

Operating Room (OR) Schedule Optimization