



Creating an Optimal
Environment for Quality
Healthcare for Individuals,
Families, and Communities

AI in Quality Measurements

Opportunities and Challenges in Health AI for a Resilient Health System

April 8th, 2024



COMMUNITIES

FAMILIES



INDIVIDUALS



RESILIENT



READY





CMS 2024
Quality
Conference
Resilient and Ready Together

Creating an Optimal
Environment for Quality
Healthcare for Individuals,
Families, and Communities

Brian Anderson, MD
Chief Executive Officer
Coalition for Health AI, Inc.



Introduction



CHAI

Coalition for Health AI



Who We Are

- **Over 2000+ Private Sector Organizations:**
 - Health Systems, Payors, Device Manufacturers, Technology Companies, Patient Advocates
- **US Govt Partners:**
 - HHS, FDA, ONC, NIH, CMS, White House OSTP, AHRQ, VA, NIST, CDC, OCR
- Formally became **501c6 non-profit** in Jan 2024

Who we are



Over 1300 private sector organization members

Including Health Systems, Payors, Device Manufacturers, Technology Companies, Patient Advocates

Founding Members



Industry Partners



US Government Partners



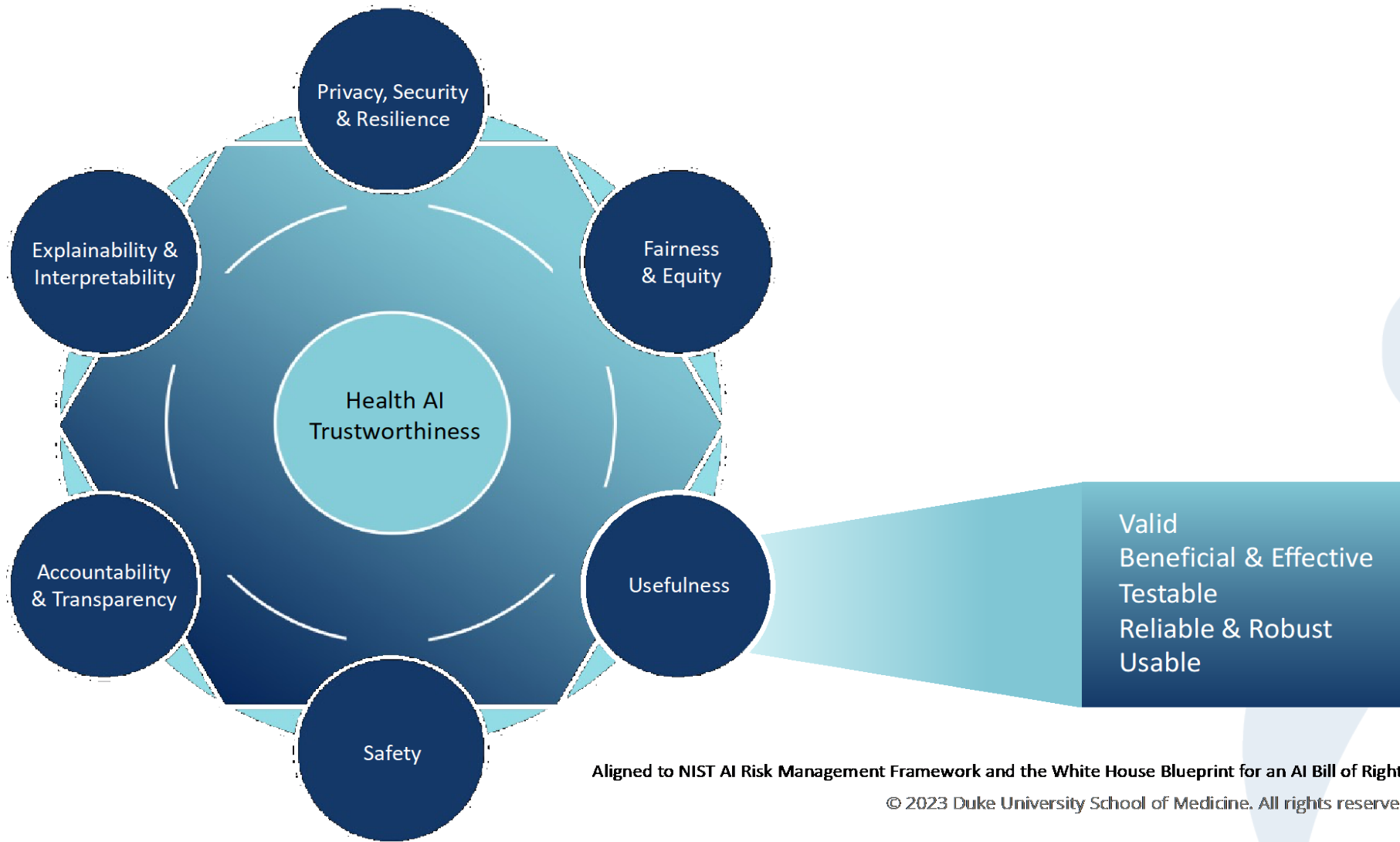


BLUEPRINT FOR TRUSTWORTHY AI IMPLEMENTATION GUIDANCE AND ASSURANCE FOR HEALTHCARE

COALITION FOR HEALTH AI

VERSION 1.0 _ APRIL 04, 2023

Core Principles for Responsible Health AI



Aligned to NIST AI Risk Management Framework and the White House Blueprint for an AI Bill of Rights

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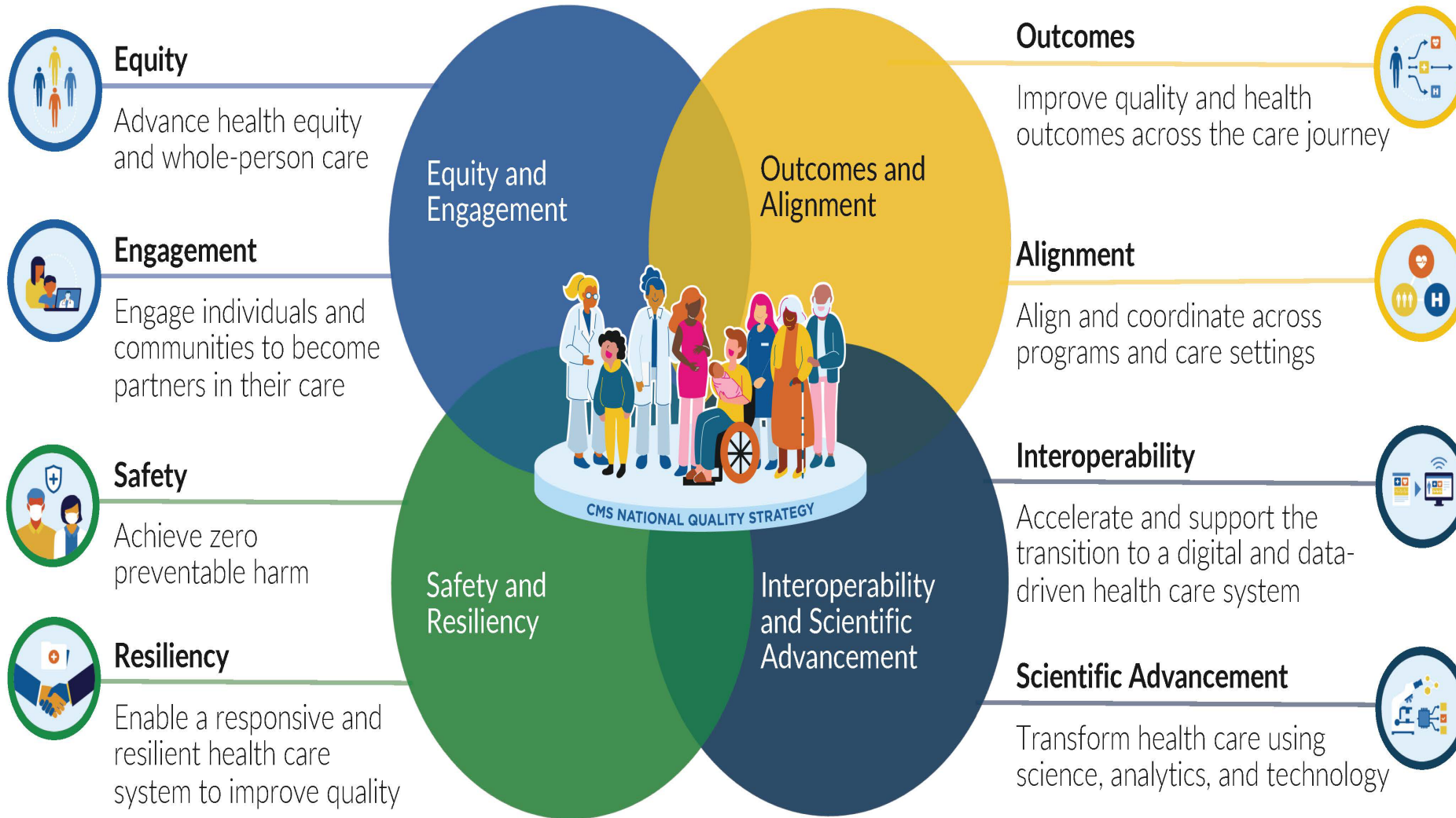
Health AI Quality Assurance Labs



A Federated Network of Labs - All Models are Local

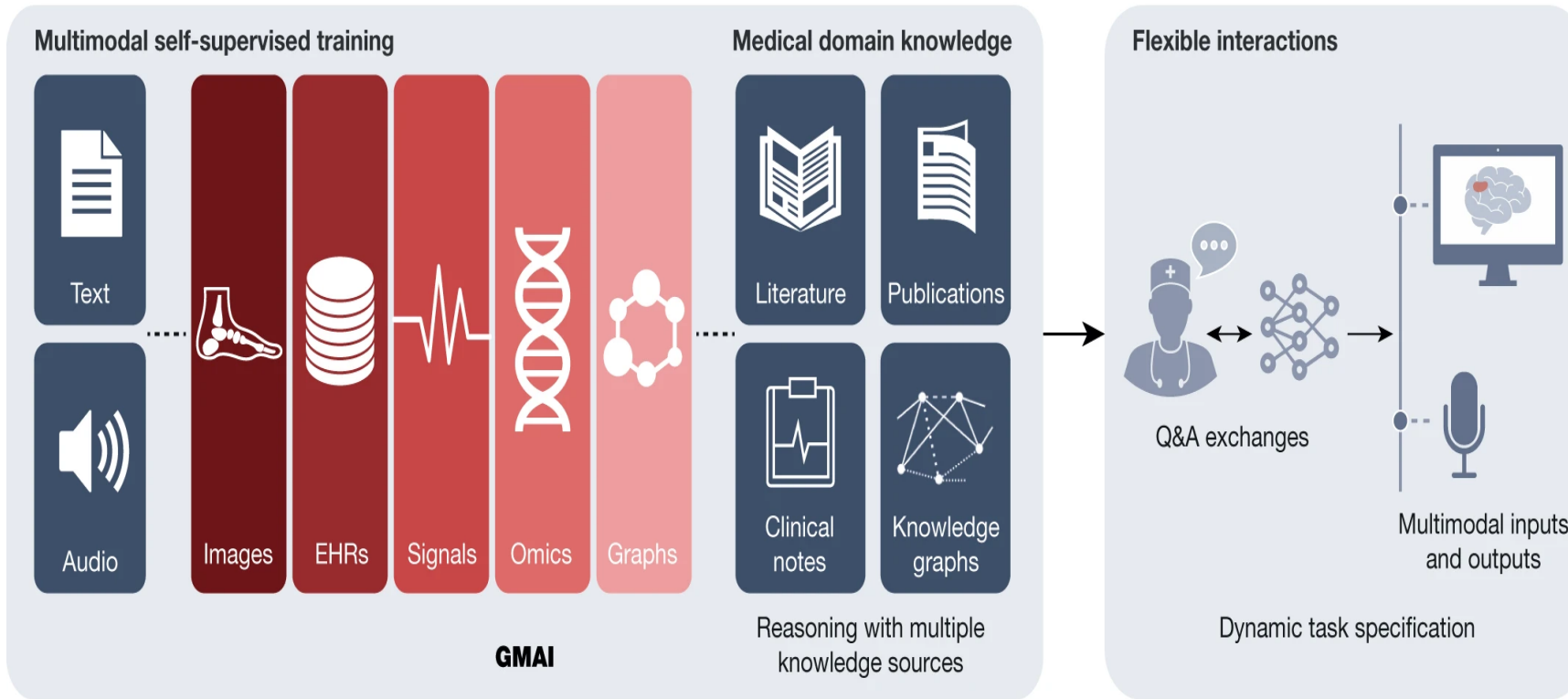


CMS National Quality Strategy Goals



Foundational Models for Medicine – an Approach to Quality Improvement

a



b



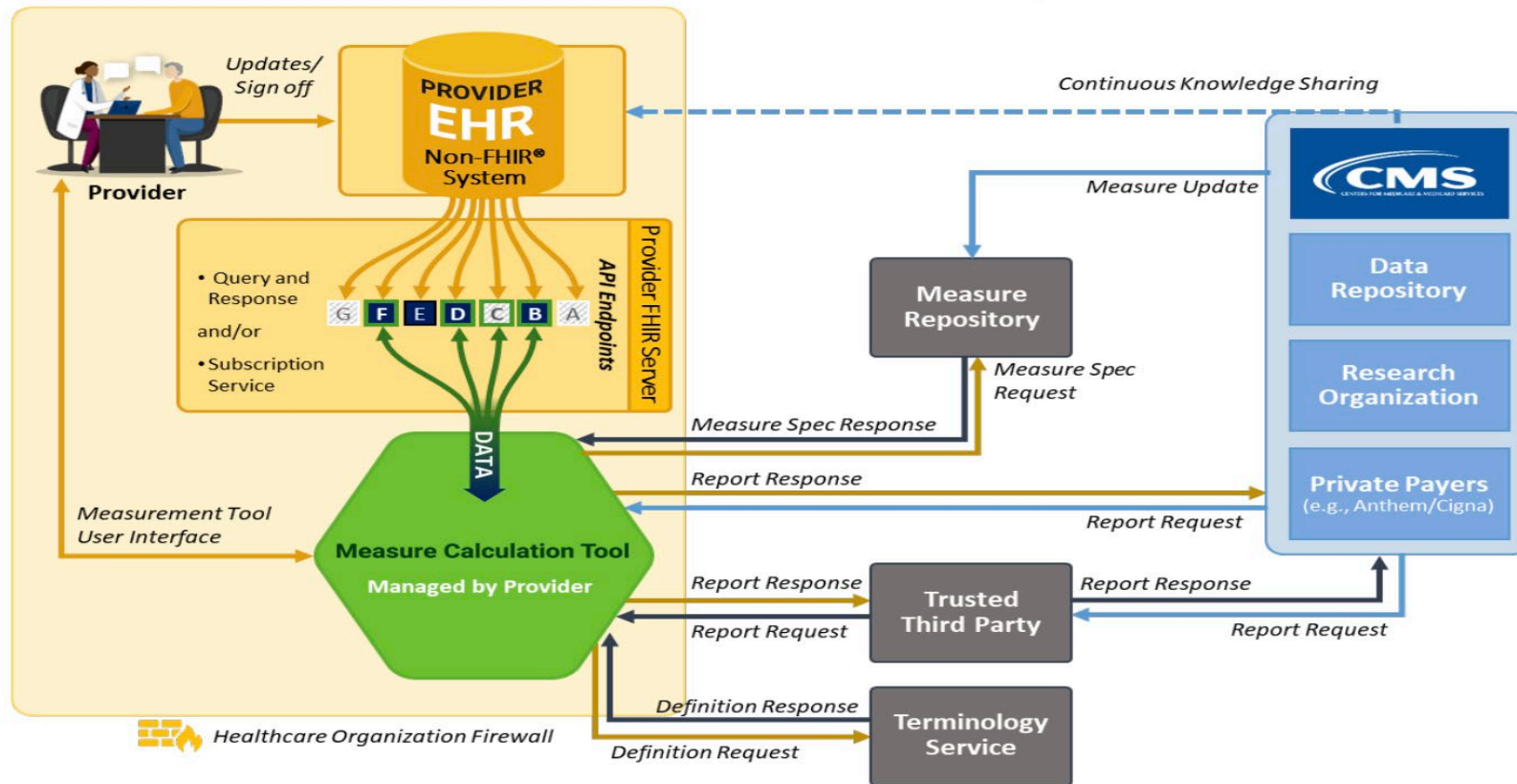
Regulations: Application approval; validation; audits; community-based challenges; analyses of biases, fairness and diversity

Bridging the Gap between Risk Prediction & Quality Improvement

- Model Development for Outcome Risk Prediction & Stratification
 - CMS AI Outcome Challenge
 - ▲ Bias Mitigation
 - ▲ Transparency
 - ▲ Explainability & Interpretability
- Tying Quality Improvement Metrics to Clinical Outcomes
- Weighting & Instructional Tuning for Equity
- Causal Machine Learning & “Patients Like This”

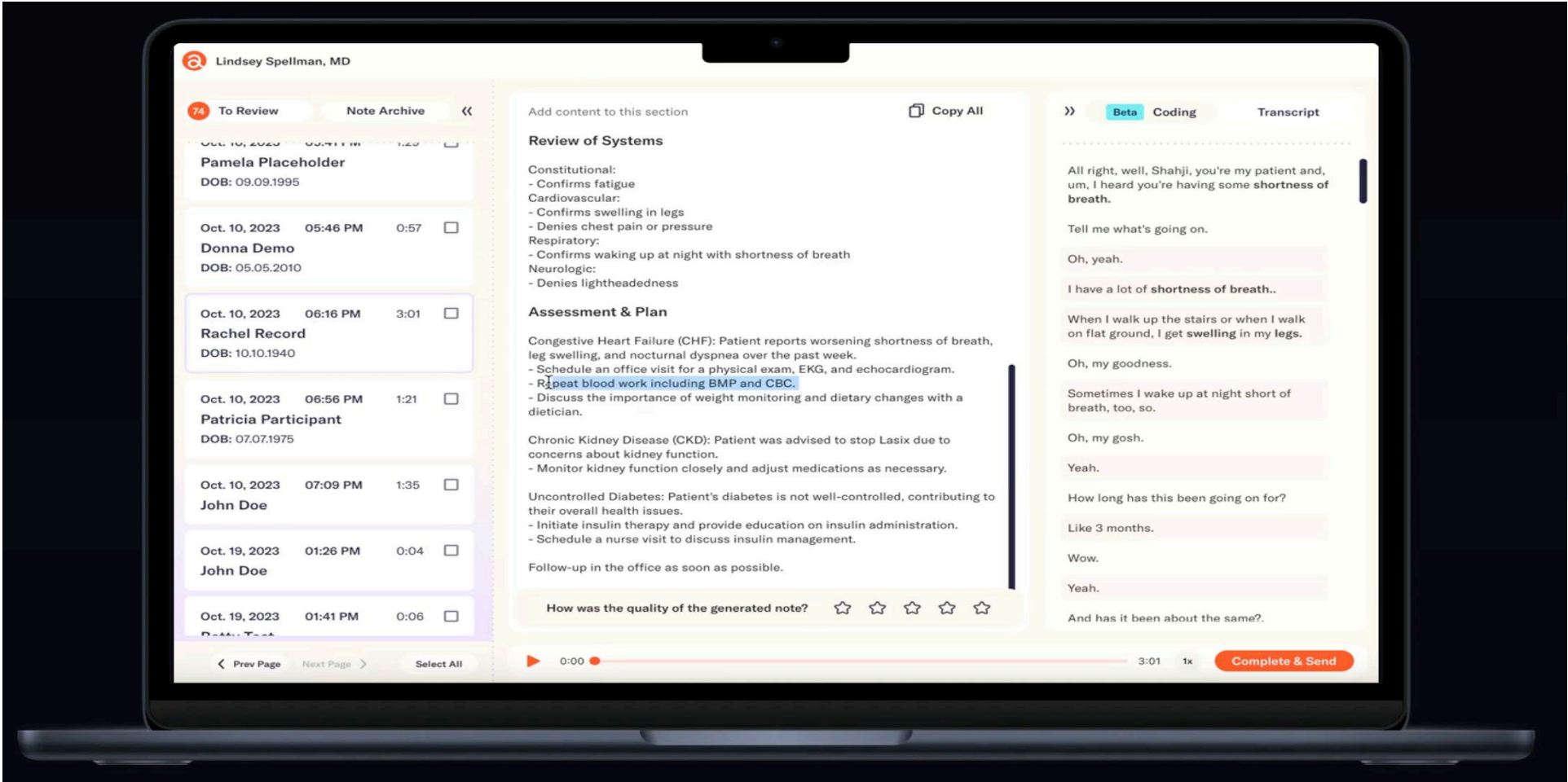
Reducing Burden – the power of LLMs

Rethinking digital Quality Measures (dQMs) and Measurement Calculation Tools (MCTs)



Generative AI and Summarization

Automating Measurement Capture *from Conversation to Orders*



Thank
you!

