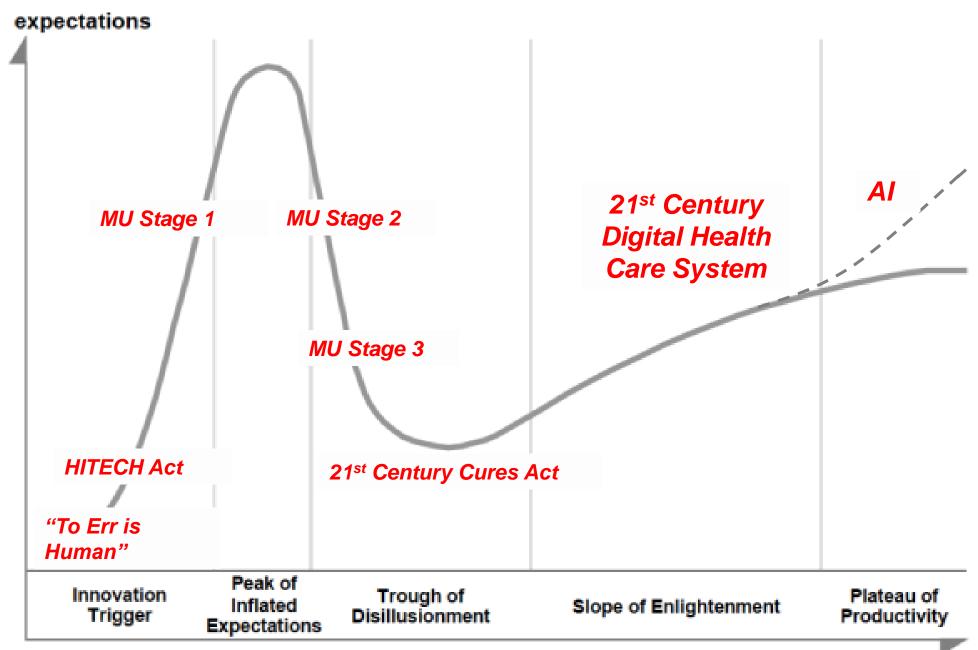


# **Sequoia Project Annual Meeting 2024**

HHS Assistant Secretary Micky Tripathi



ONC > ASTP TEFCA FHIR® Information Blocking Health AI

# ONC > ASTP

# ONC is now the Assistant Secretary for Technology Policy



FOR IMMEDIATE RELEASE July 25, 2024

**Contact: HHS Press Office** 

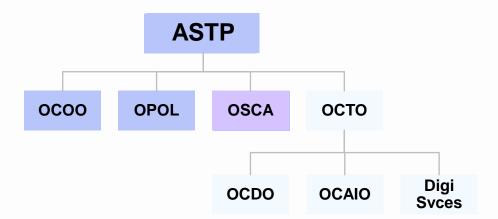
202-690-6343 media@hhs.gov

# HHS Reorganizes Technology, Cybersecurity, Data, and Artificial Intelligence Strategy and Policy **Functions**

The U.S. Department of Health and Human Services (HHS) today announced a reorganization that will streamline and bolster technology, cybersecurity, data, and artificial intelligence (AI) strategy and policy functions.

Opportunities in data and technology in healthcare and human services have grown significantly in recent years. Historically, responsibility for policy and operations has been distributed across the Office of the National Coordinator for Health Information Technology (ONC), the Assistant Secretary for Administration (ASA), and the Administration for Strategic Preparedness and Response (ASPR). This reorganization will clarify and consolidate these critical functions, as follows:

- · ONC will be renamed the Assistant Secretary for Technology Policy and Office of the National Coordinator for Health Information Technology (ASTP/ONC);
- . Oversight over technology, data, and AI policy and strategy will move from ASA to ASTP/ONC, including the HHS-wide roles of Chief Technology Officer, Chief Data Officer, and Chief Al Officer; and
- The public-private effort between the health sector and the federal government on cybersecurity ("405(d) Program") will move from ASA to ASPR, joining the other health sector cybersecurity activities already located in ASPR's Office of Critical Infrastructure Protection, and advancing the Department's one-stop-shop approach to healthcare cybersecurity.



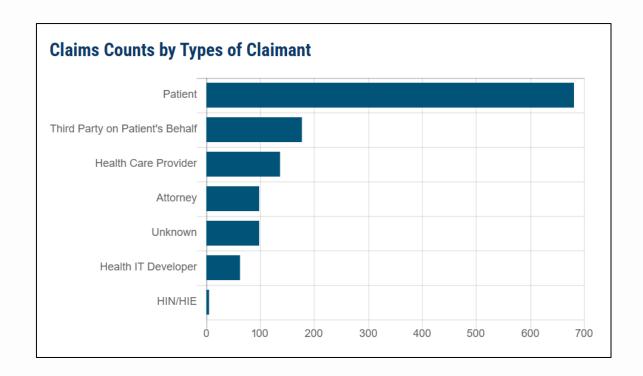
- Consolidates and focuses management resources within the Secretary's office
- Establishes HHS focus on technology innovation as a key mission priority and enabler
- Formalizes department-level and cross-agency work that ONC has already been doing
- Builds on well-established ONC coordination, technical, policy, and regulatory chassis

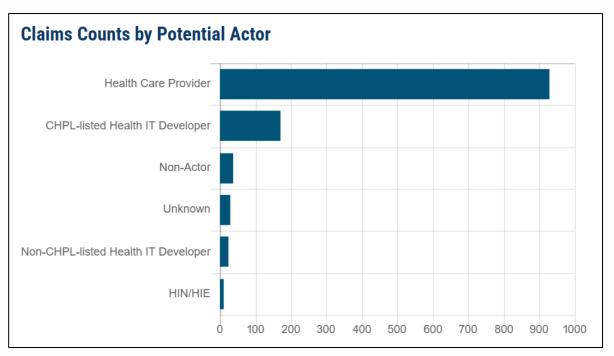


# Information Blocking

# Steady stream of information blocking complaints

- 1143 complaints passed to OIG as of 11/30/2024
- About 1 every business day



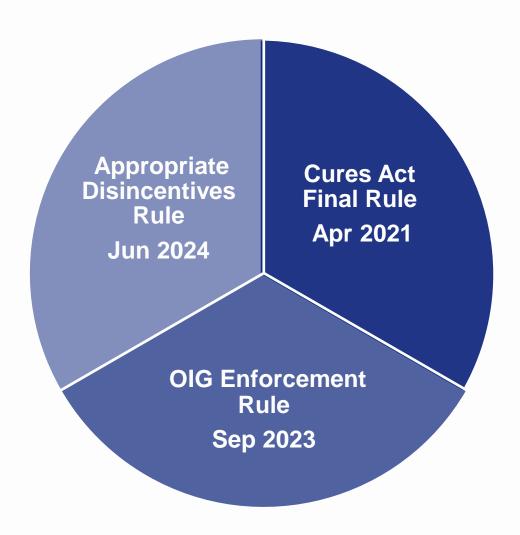


83% of complaints by or on behalf of patients

81% of complaints against providers



# **Information Blocking Regulatory Framework Now in Place**



Interoperability

# Getting Real about Information Blocking and APIs

Micky Tripathi | OCTOBER 8, 2024



### **Provider**

- · Doesn't publish service base URLs
- Doesn't provide same day access to EHI where available
- Doesn't allow patients to transmit EHI to 3<sup>rd</sup> party
- · Restricts API to patient access and not B2B
- Imposes false regulatory hurdles such as BAA for patientauthorized app

# **Certified health IT developer**

- · API documentation not available or unsusable
- 3<sup>rd</sup> party apps closed out by onerous fees, contracts, IP requirements
- Provider endpoints not accessible to 3<sup>rd</sup> party apps
- Failure to respond to API access requests



# FHIR®

### **CURES ACT FINAL RULE**

2021 Standards-based Application Programming Interface (API) Certification Criterion

2022

Achieving a Major Milestone: Health IT Developers Certify to Cures Update

Robert Anthony | FEBRUARY 10, 2023

2024

Global Edition Government & Policy

# HTI-2 proposed rule includes new certification criteria for payer and public health IT

2024

### Adding new standard for dynamic registration

Dynamic client registration using HL7 FHIR® Unified Data Access Profiles (UDAP™) Security IG
 v1 0 0

### Adding new standards-based API workflow capabilities

- API-based workflow triggers using HL7® CDS Hooks Release 2.0
- Verifiable health records using SMART Health Cards Framework v1.4.0 and HL7<sup>®</sup> SMART Health Cards: Vaccination and Testing IG v1.0.0
- API-based event notifications using HL7® FHIR® Subscriptions R5 Backport IG v1.1.0

- 1. Interoperability → Interactivity
- 2. HTI-2 NPRM: Broaden and Deepen FHIR Adoption
- 3. FHIR API integration with network shared services (e.g., patient and endpoint look-up)
- 4. Speak up for patients:
  - SMART Health Links
  - Scheduling
  - Imaging

# TEFCA

# **TEFCA Go-Live**









# **Designated QHINs as of October 2024**



























# First federal health agency joins **TEFCA** via eHealth Exchange

Indian Health Service moves forward on interoperability by selecting the health information network as its designated QHIN under the national agreement.

By Andrea Fox | December 09, 2024 | 03:45 PM

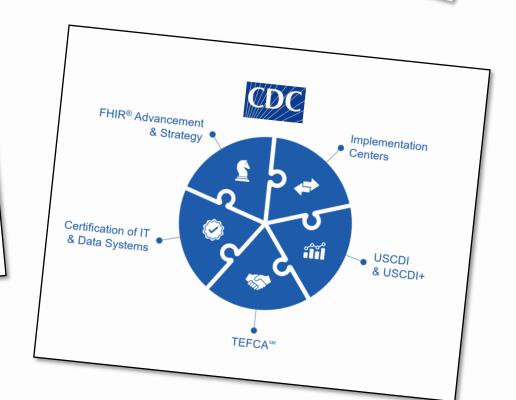
VHA Touts TEFCA to Streamline Patient

# Vulnerable Americans Win When **EHRs Work With Social Security**



Posted to Politics November 25, 2024 by David Camp, Ladd Wiley

With a use case for Social Security disability claims, every American healthcare organization on TEFCA could send medical records to the SSA electronically, regardless of their EHR. This would provide a better experience for the millions of Americans who submit disability claims, save the SSA money they spend on paper records, and reduce uncompensated care provided by hospitals nationwide.





# **TEFCA Framework Addressing Growing Market Needs for Trust and Scale**

# **April 2024**



# July-August 2024

# **Multiple Policy Releases:**

- Treatment Required Response
- Delegates
- Health Care Operations
- Public Health
- Governance, Security, Cooperation
- SSRAA (dynamic client registration)
- Required response to patient-initiated FHIR/OAuth queries

# November 2024

What Makes TEFCA Different: New Standard Operating Procedure Strengthens Trust

Micky Tripathi and Mariann Yeager, CEO, The Sequoia Project (the TEFCA Recognized Coordinating Entity) | DECEMBER 10, 2024



# Health Data, Technology, and Interoperability: Trusted Exchange Framework and Common Agreement (HTI-2) Final Rule

ASTP's HTI-2 final rule finalizes certain Trusted Exchange Framework and Common Agreement<sup>TM</sup> (TEFCA<sup>TM</sup>)-related proposals from the HTI-2 proposed rule to advance interoperability and support the access, exchange, and use of electronic health information. The HTI-2 final rule amends the information blocking regulations by including definitions related to the TEFCA Manner Exception. It also implements provisions to support the reliability, privacy, security, and trust within TEFCA.

- The HTI-2 Final Rule finalizes a new part of the Code of Federal Regulations (CFR) for provisions related to TEFCA in 45 CFR Part 172. These final provisions further implement the Public Health Service Act section 3001(c)(9) as added by the Cures Act and provide greater transparency of TEFCA processes.
- The HTI-2 Final Rule makes no changes to the TEFCA Manner Exception (§ 171.403) and adopts the TEFCA-related definitions as proposed.

# **TEFCA Implementation Updates and Roadmap**

# **Transactions (thru Aug 2024)**

Patient searches: 486,415,622\*

• Document queries: 4,906,280

Document retrieve: 2,592,841

# TEFCA live participants (thru Q2 2024)\*\*

Total directory entries: 10,385

Hospitals: 439

Physician offices: 5,255

Mental health centers: 58

LTPAC: 150

Public health agencies: 37

Individual clinicians: 116,505

Payers: 0

# **Treatment**

"Optional" exchange

# **Health Care Operations**

 Launching 10x10 Payer-Provider TEFCA sprints for exchange of clinical and claims data – multiple efforts being launched

# Individual access

- Patient notification of record exchange
- Individual access enhancement to support technologyonly apps
- Adoption of secure, portable, verifiable patient identity and governance for TEFCA-wide trust

Federal partners: SSA, VHA, FDA, CMS (CMMI), NIH

<sup>\*</sup>Patient searches go to all QHINs

<sup>\*\*</sup>Number of available facility endpoints as defined by Participants

# Health Al

# Health Al Regulation and Collaboration

### Core Infrastructure

JULY 21, 2023

FACT SHEET: Biden-Harris
Administration Secures Voluntary
Commitments from Leading Artificial
Intelligence Companies to Manage the
Risks Posed by AI

BRIEFING ROOM > STATEMENTS AND RELEASES



National Al Research Resource



US AI Safety Institute



# Health Care Products



Artificial Intelligence/Machine Learning (AI/ML)-Based Software as a Medical Device (SaMD) Action Plan

January 2021



**HTI-1 Rule: Algorithm Transparency** 

# Health Care Uses



ACA Section 1557: Non-Discrimination in Health Programs and Activities



February 06, 2024 06:34 PM

CMS outlines limits on Medicare Advantage Al usage

ALISON BENNETT in 🖂

DECEMBER 14, 2023

# Delivering on the Promise of AI to Improve Health Outcomes

BRIEFING ROOM . BLOG

28 providers and payers have joined today's commitments: Allina Health, Bassett Healthcare Network, Boston Children's Hospital, Curai Health, CVS Health, Devoted Health, Duke Health, Emory Healthcare, Endeavor Health, Fairview Health Systems, Geisinger, Hackensack Meridian, HealthFirst (Florida), Houston Methodist, John Muir Health, Keck Medicine, Main Line Health, Mass General Brigham, Medical University of South Carolina Health, Oscar, OSF HealthCare, Premera Blue Cross, Rush University System for Health, Sanford Health, Tufts Medicine, UC San Diego Health, UC Davis Health, and WellSpan Health.

# Starting Jan 1, 2025: EHR Vendors Required to Provide "Nutrition Label" for Al-based Technologies Offered in their Products

Details and output of the intervention

Intervention development details and input features

Quantitative measures of performance

\_\_\_\_2

Purpose of the intervention

Process used to ensure fairness in development of the intervention

Ongoing maintenance of intervention implementation and use

Cautioned Out-of-Scope Use of the intervention

External validation process

Update and continued validation or fairness assessment schedule

- Establishes transparency to Providers to empower local Al governance
- Complements FDA device regulations
- Motivates market to FAVES principles
  - Fair
  - Accurate
  - Valid
  - Effective
  - Safe



DRAFT / PRE-DECISIONAL / FOR HHS INTERNAL USE ONLY (FOIA Exemption 5 - Deliberative Process Privilege)

# Strategic Plan for the Use of Artificial Intelligence in Health and Human Services

### DRAFT

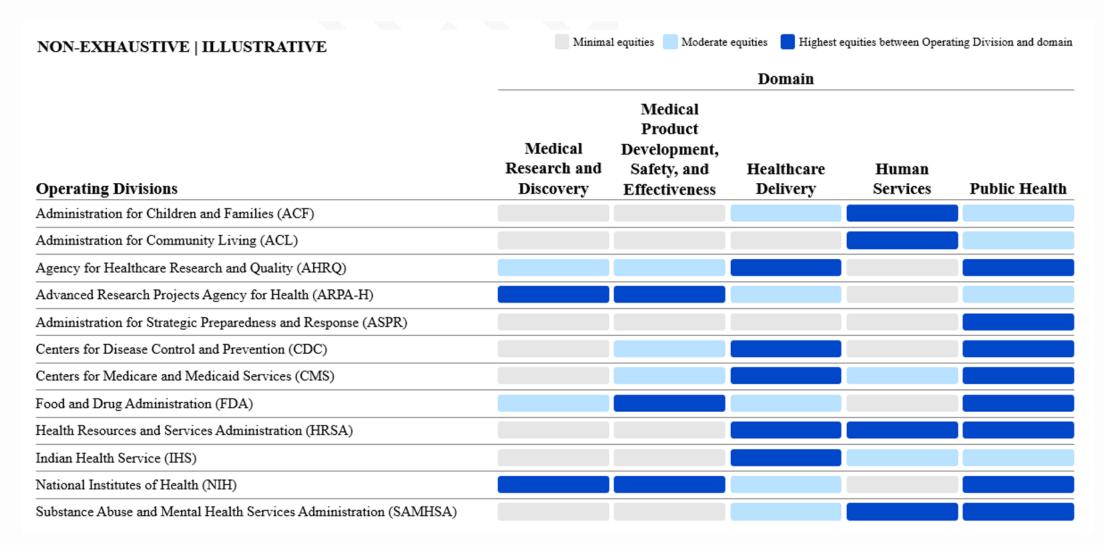
November 2024

United States Department of Health and Human Services





# HHS has significant AI equities across the value chain





# **HHS AI Strategic Plan**

# **Key Policy Levers**

- Regulations, policies, and guidance
- Grants and funding programs and procurement
- Public education and outreach
- Internal infrastructure and operations



# Main Policy Objectives

- 1. Encourage health Al innovation and adoption
- 2. Promote trustworthy AI development and use
- 3. Democratize AI technologies and resources
- 4. Cultivate Al-empowered workforces and organization cultures



# This year, be thankful for Aline a future in which making health care more accurate and less expensive for accordance archings you're accordance arching sour form a constant and doctors devote more and more statutary, yet it is already promising transform how physicians do their jobs. The care archings of their political leanings: A statute in which the political leanings: A statistical intelligence is revolutionizing medicine, making health care more accurate and less expensive forms and more statuted in the statute of the political leanings: A statistical intelligence is revolutionizing whether the statistical intelligence is revolutionizing to the statistical intelligence is revolutionized to use them in screening and doctors devolutione more administration which is a statistical intelligence is revolutionized to use them in screening and doctors devolution more attraction which is a statistical intelligence is revolutionized to use them in screening and doctors devolution are required to use them in screening and doctors devolution more attraction which is a statistical intelligence is revolutionized and doctors devolution more attraction which is a statistical intelligence is required to use them in screening and doctors devolution are required to use them in screening and doctors devolution are required to use them in screening and doctors devolution are required to use them in screening and them in screening and doctors devolution are required to use them in screening and doctors devolution are required

other review mar results for breast cancer screenings, wante also showing that AI reduced the workload of radiologists by 68 percent.

The benefit here is twofold: The technology can help detect cancer at earlier stages, making it easier to treat. It is also better at determining which tumors are benign, limiting the number of unnecessary and expensive biopsies that patients must endure (as well as the anxiety that comes with the procedures). The purpose is not to eliminate humans in medicine; it is to give them better tools to help their patients. Then again, as AI models

assisted physicians in diagnosing patients with that of chatbots alone found that the bots performed considerably better. Given a patient's case history and symptoms, the chatbot alone scored an average of 90 percent in correctly diagnosing their condition. Physicians using the technology scored only 76 percent on average - just marginally better than the 74 percent average for humans with no AI help at all.

Al can also speed up care in emergency settings. One study found that hospitals that used AI to detect strokes from a patient's brain scans were

unusual or unexpected circumstances.

already are. But it could free up physicians' time dedicated to mundane tasks and cut seemingly interminable wait times at medical practices.

Arguably, AI's greatest promise is the one that's hardest to see: its potential to turbocharge medical research. For instance, AlphaFold2, the artificial intelligence program developed by Google Deep-Mind, has started to crack the code on how proteins

ake their specific shapes, a question that has confounded scientists for decades. This is important because the shape of proteins governs virtually every task carried out in the body, from delivering oxygen through the blood to controlling a person's appetite. In the past century, understanding these complex molecules took years of painstaking work. Machine learning is reducing that time frame to a tiny fraction. Such research power could uncover clues to therapies for an enormous variety of

The challenge with all these exciting developments, of course, is that AI technology can be expensive to adopt. It also requires a lot of energy, which will put pressure on the electrical grid and might accelerate climate change if powered by carbon-intensive sources. The federal government can help address these problems by, for example, offsetting new demand for electricity by expanding the grid with cleaner energy, including nuclear power.

The emergence of AI has provoked great alarm in recent years, and for good reason. The technology could disrupt the economy, upending industries in unpredictable ways. Its awesome power deserves caution, but not fear. Americans can take comfort in the fact that, when it comes to medicine, this bit of human ingenuity has been a force for good - and will probably continue to be.

