Office of the Chief Scientist Updates
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April 18, 2018
The Precision Medicine Initiative (PMI)

A federal effort launched in 2015

**MISSION:** To enable a new era of medicine through research, technology, and policies that empower patients, researchers, and providers to work together toward development of individualized care.
The All of Us Research Program

- The cornerstone of the larger PMI – led by the NIH
- One million or more volunteers, reflecting the broad diversity of the U.S.
- Opportunities for volunteers to provide data on an ongoing basis
- Data will inform a variety of research studies

Mission

To accelerate health research and medical breakthroughs, enabling individualized prevention, treatment, and care for all of us.

https://allofus.nih.gov/
ONC PMI Activities

• Sync for Science Pilot

• Sync for Science Application Programming Interface (API) Privacy and Security

• Sync for Genes

https://healthit.gov/topic/precision-medicine
• With a click of a button, individuals will be able to voluntarily share their health data to help scientists perform groundbreaking research

Patients Sharing EHR Data

http://syncfor.science/
S4S As Component of All of Us DV Program

- ~700,000 HPO Recruits
- ~300,000 Direct Volunteers

EHR Data via Custom Data Extraction

EHR Data via Sync for Science + Other Services

Direct Volunteer focus… but not exclusive
S4S Pilot Provider Clinical Sites – Patients in All of Us S4S Pilot

- External Site
- AoU FQHC
- AoU HPO

Map of clinical sites across the United States.
With a few clicks, research participants can share their EHR data.
Sync for Science Application Programing Interface (API) Privacy and Security

• Technical and administrative testing, analysis, and assessment of APIs developed under the S4S Pilot Project

• In accordance with applicable PMI Privacy and Trust Principles (PMI Privacy Principles) and the PMI Data Security Policy Principles and Framework (PMI Security Principles)

https://www.healthit.gov/apiprivacysecurity
Sync for Genes

• To standardize the sharing of genomic information between laboratories, providers, patients, and researchers

• Phase 1

• Recently launched Phase 2
Sync for Genes: Phase 2

- Utah Newborn Screening; Utah Health Information Network; Intermountain Healthcare
- Lehigh Valley Health Network & Foundation Medicine
- National Marrow Donor Program & Stanford Lab
- Weill Cornell & Standard Molecular
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