NATIONAL CENTER FOR DATA TO HEALTH

KEY PARTNERS

OREGON CLINICAL & TRANSLATIONAL Research Institute (OHSU)

JOHNS HOPKINS INSTITUTE for CLINICAL & TRANSLATIONAL RESEARCH

ITHS Institute of Translational Health Sciences — Accelerating Research. Improving Health. — UNIVERSITY of WASHINGTON

Washington University in St. Louis — Institute of Clinical and Translational Sciences

Northwestern University NUCATS Clinical and Translational Sciences Institute

The University of Iowa — Institute for Clinical and Translational Science

Sage BIONETWORKS

Scripps

The Jackson Laboratory

OVERVIEW

There is an ever-increasing volume of complex and fragmented health data being generated that have the potential to revolutionize the efficiency and efficacy of healthcare. The challenge is in identifying and utilizing these data to transform patient care and accelerate research discoveries. Translational research centers across the country house a wealth of clinical data. However these data, like the diversity of data being generated by the larger healthcare system, basic researchers, and personal tracking devices, are difficult to access, share, and use. In order to realize the potential of these data, the informatics community must build the infrastructure to tie the data ecosystem together, enable innovative new analytics, and promote effective collaboration across the researcher-clinician spectrum. The National Center for Data to Health (CD2H), led by Oregon Health & Science University, was launched by NIH in the fall of 2017 to accelerate the translation of data into medical knowledge and better patient outcomes.

GET INVOLVED WITH CD2H

The CD2H supports a vibrant and evolving collaborative informatics ecosystem for the CTSA Program and beyond. We strive to engage the larger community and to serve as a portal for industry partnerships with the national CTSA Program. The CD2H harnesses and expands an ecosystem for translational scientists to discover and share their software, data, and other research resources. Our initiatives are focused on creating a framework for effectively promoting collaborative innovation in health informatics to improve patient outcomes. We invite and encourage you to get involved with the CD2H by sharing how we can help, joining one of our workgroups, or by actively participating in developing solutions through one of our Idea-to-Implementation projects.

ONGOING CD2H COMMUNITY CORES & PROJECTS

	CORE: Resource Discovery	CORE: Informatics Maturity & Best Practices	CORE: Next Generation Data Sharing	CORE: Tools & Cloud Infrastructure
Projects by thematic area: Data, Standards, Ontologies	Science of Translational Science Research Platform InvenioRDM: Invenio Research Data Management platform	Research Informatics and open science maturity model	Harmonizing clinical data models and building an adaptor Health Open Terminology FHIR server	Secure cloud-based infrastructure for CTSA hub data sharing Open Source Clinical Enterprise Data Warehouse (EDW) data browser (Leaf)
Software, Tools, Algorithms	Educational harmonization		EHR2HPO (semantic phenotyping tool using standards such as LOINC)	Patient mortality prediction DREAM Challenge
People, Expertise, Attribution	Architecting Attribution	CTSA Data Sharing Governance Pathways Reusable Data best practice Portal		Competitions tool for CTSA community peer review

More info at ctsa.ncats.nih.gov/cd2h/get-involved; see also completed projects at github.com/data2health/roadmap