

KEY PARTNERS











Scripps Research Translational Institute





Institute for Clinical and Translational Science



Institute of Translational Health Sciences ACCELERATING RESEARCH. IMPROVING HEALTH.

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knowledge and improve patient outcomes.

share, and use.

The N3C is a partnership amongst CTSA hubs, distributed clinical data networks (PCORnet, OHDSI, ACT/i2b2, TriNetX), and other organizations. The N3C aims to improve the efficiency and accessibility of analyses with COVID-19 clinical data, expand our ability to analyze and understand COVID, and demonstrate a novel approach for collaborative pandemic data sharing.

CD2H COMMUNITY CORES & PROJECTS



Resource Discovery

- Science of translational science research platform to find resources and expertise
- New models to support attribution of translational research artifacts
- InvenioRDM research product repository
- Data inventory and API registry and tools

N3C WORKSTREAMS

OVERVIEW

With the ever-increasing volume of complex and fragmented health data that have the

potential to revolutionize the efficiency and efficacy of healthcare, a challenge lies in

identifying and utilizing these data to transform patient care and accelerate research discoveries. Translational research institutions across the country house a wealth of

clinical data. However, these data, in addition to data generated by the healthcare

system, other researchers, and personal tracking devices, are difficult to access,

To realize the full potential of these data, the informatics community strives to build an infrastructure to unite the data ecosystem, 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

NATIONAL COVID COHORT COLLABORATIVE



- Create a common data use agreement (DUA)
- Designate a central IRB and central protocol
- Establish a Data Access Committee



Informatics Maturity & Best Practices

- Informatics maturity model for CTSA hubs
- Informatics best practices playbook
- Governance best practices



- Identify COVID-19 patients and controls and help partners extract and contribute data



Next Generation Data Sharing

- Harmonizing clinical data models such as FHIR, ACT/i2b2, PCORnet, and OMOP;
- Healthcare Open Terminology (HOT) ecosystem provides value set mapping, graph operations, and terminology development tools



- Secure cloud-based data sharing for CTSA hubs
- Infrastructure for shared apps in the cloud
- Cloud-based Sandboxes for Natural Language Processing, Data Quality, and Machine Learning tools and best practices
- DREAM challenges to bring algorithms to data
- Standard cloud-based DUA



 Harmonize EHR data provisioned via OMOP, ACT/i2b2, PCORnet, or TriNetX into a single data model to enable analytics over a nationwide large-scale dataset



- Build a secure data enclave and collaborative portal to deploy machine learning and other analytical tools
- Clinical scenarios & Data: Define key questions
- Tools & Resources: Deploy user interfaces and machine learning methods
- Dashboards: Track progress and matchmake participants







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