



## National COVID Cohort Collaborative

*The gates to the amusement park are open*

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*Science through Synergy*



Plans to unite our students, faculty and staff and UAB's mission to fight COVID-19



COVID-19 Enterprise Research Initiative

Informatics

Informatics Gateway

Bioinformatics

Clinical Research Informatics

Trainings

Team

BERD

Panels

Funding Opportunities

Grant Help

Research Implementation

OnCore

Commercialization

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## Informatics

CCTS Informatics provides the resources and expertise (both bioinformatics and clinical informatics) to support biomedical collaboration and consultation across the translational research spectrum. We offer help with study design; access to summary, limited (de-identified), and fully identified data sets; innovative tools to support clinical, translational, and outcomes research; and data analytic services. Our vision is to build a vibrant community of collaborating informaticians not only across the CCTS Hub with its academic medical system, but also across the regional CCTS Partner Network and national CTSA Consortium.

[National COVID-19 Data Access](#)

[National COVID-19 Data Access](#)

[N3C is Open for Business. Learn How to Get Started.](#)

The [National COVID Cohort Collaborative \(N3C\)](#) has created a large, centralized data resource available to the research community to study COVID-19 at a scale and statistical power not possible within any single institution. N3C has assembled a standardized collection of clinical, laboratory and diagnostic data from hospital electronic health records and health care plans across the country for analysis within an accessible, cloud-based data enclave. [Here is how you can get involved:](#)





## Data levels or tier



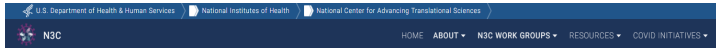
National  
COVID  
Cohort  
Collaborative

Access Level	Level 1 – Synthetic	Level 2 – Deidentified		Level 3 - LDS
Data Type	Synthetic Data	Aggregate Data (i.e., summary statistics)	HIPAA Safe Harbor	HIPAA Limited Data Set
Description	Computational data derivative statistically resembles original data	Counts and summary statistics representing 10+ individuals	Data stripped of 18 direct identifiers called out in the HIPAA Privacy Rule	Data that is stripped of all PHI under HIPAA except dates and zip codes





<https://covid.cd2h.org/N3C>  
<https://ncats.nih.gov/n3c>



## National COVID Cohort Collaborative (N3C)

The COVID-19 global emergency raises many difficult care and healthcare management questions: How can we identify the right cohort of candidates for a given patient? How can we efficiently and effectively assemble the right cohort? How can we rapidly deploy clinical decision support tools when new knowledge is emerging? How can we coordinate and share data across institutions to improve patient care and outcomes?



National  
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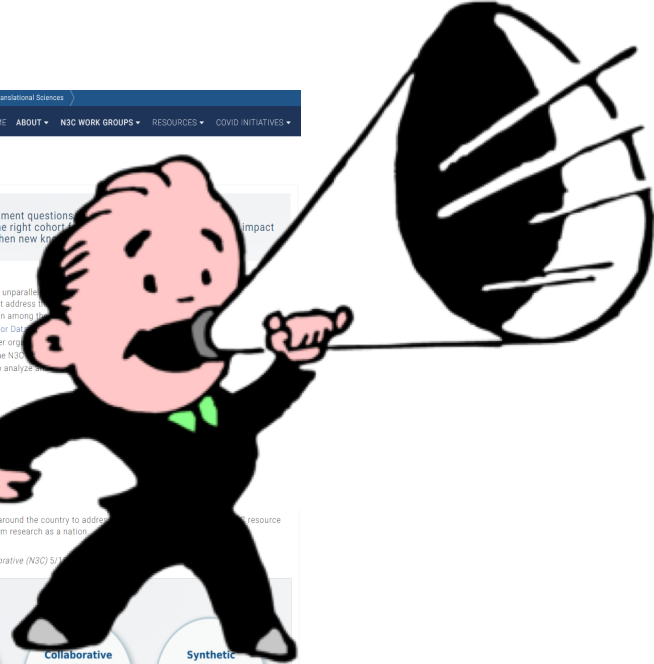
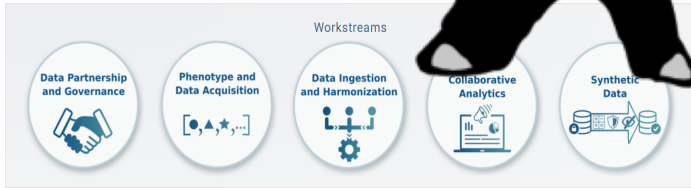
By leveraging our collective data resources, unparalleled clinical expertise, and advanced computational capabilities, we can synergize discoveries that address the most pressing clinical and public health questions. The National COVID Cohort Collaborative (N3C) is a collaboration among the National Center for Advancing Translational Sciences (NCATS) Program hubs, the National Center for Data to Health (NCDSH), the National Center for Human Genome Research (NCHGR), the National Center for Human Genome Research (NCHGR), and other partner organizations. The N3C is a collaborative effort to advance translational research in COVID-19 clinical data, expand our ability to analyze and share data, and improve patient care and outcomes through collaborative pandemic data sharing.

### What the N3C is building:

- An EHR-based limited data set of COVID-19 patients and controls for row-level data access
- A secure, FedRAMP-compliant analytical environment where tools and algorithms can be rapidly deployed and tested
- A resource that is complementary and synergistic with individual institutional and consortia efforts
- A place for data harmonization, mapping, and curation driven by the Center for Data to Health
- A vehicle for stewardship coordinated and supported by NCATS

The coronavirus pandemic presents a unique opportunity to bring together top informatics experts from around the country to address the most pressing clinical and public health questions. The N3C offers a valuable contribution, not only for aiding the COVID-19 crisis, but for transforming how we perform research as a nation.

View slide deck from the NIAID Data Science Series webinar: *Realizing the National COVID Cohort Collaborative (N3C) Strategy*



# CALLING ALL...

Population Health Scientists  
Outcomes Researchers  
Data Wranglers  
Biostatisticians  
Epidemiologists  
Clinical Informaticists  
Coding Experts (R a/o Python)  
AI / Machine Learning Leads

For more information, connect with  
Bob Kimberly ([rpk@uab.edu](mailto:rpk@uab.edu)) or  
Jennifer Croker ([jcroker1@uabmc.edu](mailto:jcroker1@uabmc.edu))  
Jim Cimino ([ciminoj@uab.edu](mailto:ciminoj@uab.edu))





# N3C Data Use Agreements

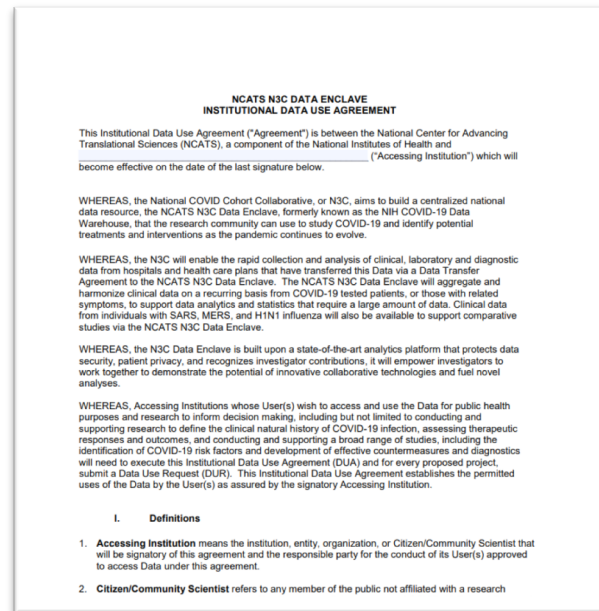
<https://ncats.nih.gov/n3c>



(N3C Forms and Resources Tab > N3C Data Access > NCATS N3C Data Use Agreement Form)

An **N3C Data Use Agreement (DUA)** is executed by NCATS and a research institution (or directly with a researcher in the case of a citizen/community scientist who is not affiliated with an institution). It is strongly recommended that researchers ensure that their home institution has executed a DUA with NCATS before they begin the process of applying for data access.

Email for Legal Notices: [NCATSPartnerships@mail.nih.gov](mailto:NCATSPartnerships@mail.nih.gov)





# First time user prerequisites



1. Register at  
N3C



2. Signed  
DUA



3. HSP / Security  
Training

## 1. Data Access Preparation

Register at [N3C](#)

Confirmation your institution has an executed [Data Use Agreement \(DUA\)](#)

Acquire an [ORCID ID](#) (free and quick) to assure author attribution

## 2. Two Factor Authentication

NCATS requires two factor authentications for access to the N3C data enclave so before you apply for a DUR downloaded a two-factor authentication app on your smartphone, or tablet

## 3. Current (last 3 years) Training Requirements

Completion of [2020 Information Security, Counterintelligence, Privacy Awareness, Records Management Refresher, Emergency Preparedness Refresher](#).

Completion date of **Human Subjects Research training** (LDS or DeID only)

## 4. IRB Approval

If requesting access to the limited dataset, you must upload a PDF copy of your institution's IRB determination letter

## 5. Draft your Data Use Request Application





# Overview of the Data User Request (DUR) Process

## 1. Draft your Data Use Request Application

Research Projects Require:

**Title:** (xxx)

**Project Description:** (must be COVID-19 Related)

**Project Rationale:** The project rationale is used by the Data Access Committee, (DAC) to assess the level of data/data tier being requested (Limited Data Set (LDS), De-Identified (DeID), or Synthetic). User should describe the minimum necessary level of data needed to conduct research

**Upload IRB Approval, if applicable**



1. Submit  
DUR



2. Data Access  
Committee Approval



3. Work Bench  
Access

2. Investigator submits a Data Use Request.

3. Data Access Committee (DAC) Reviews and Approves the research project

4. Investigators are given access to the analytics workbench



# Stay Connected



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## CCTS

Center for Clinical and Translational Science

### CCTS Opportunities at a Glance

Learning	Collaborations	Research
<ul style="list-style-type: none"><li>Clinical Data/2b2</li><li>I-Corps@NCATS</li><li>Drop-in Clinics</li><li>Friday Fellows</li></ul>	<ul style="list-style-type: none"><li>Partner Network</li><li>TriNetX</li><li>SHARe</li><li>SE SHRINE</li></ul>	<ul style="list-style-type: none"><li>Panels</li><li>Grant Library</li><li>Protocol Implementation</li><li>Find a Clinical Trial</li></ul>
Funding	Innovation	Impact
<ul style="list-style-type: none"><li>CCTS Pilots</li><li>Research Vouchers</li><li>Mini-Sabbaticals</li><li>Drug Discovery</li></ul>	<ul style="list-style-type: none"><li>Informatics Gateway</li><li>Kaizen Platform</li><li>Drugs/Devices (AD4)</li><li>I-Corps@NCATS</li></ul>	<ul style="list-style-type: none"><li>CCTS Achievements</li><li>Undiagnosed Diseases</li><li>Community Health</li><li>OnCore</li></ul>



[www.uab.edu/ccts](http://www.uab.edu/ccts)



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