IDeA-CTR N3C Investigator Engagement Event: Jumpstarting Access to Clinical Data for COVID-19 Research

IDeA Institutional Development Award | CTRnet Clinical & Translational Research Network

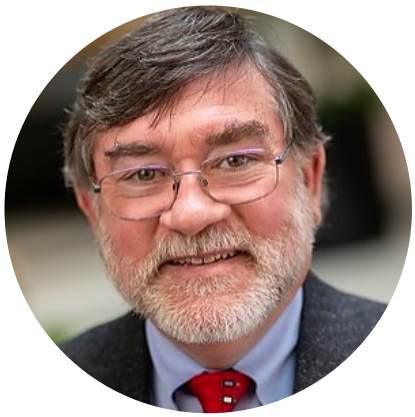
National COVID Cohort Collaborative

Thursday, February 17, 2022 | 2:00-5:00 PM EST

Zoom Registration

Featuring:

Keynote Speaker



Christopher G. Chute, MD, DrPH
N3C Co-Principal Investigator
Bloomberg Distinguished
Professor of Health Informatics
Johns Hopkins University

IDeA-CTR Leadership

Sally L. Hodder, MD
West Virginia
Clinical and Translational
Science Institute

Clifford J. Rosen, MD
Northern New England
Clinical and Translational
Research Network

Michele McGuirl, PhD
National Institute of General
Medical Sciences

Delaware-CTR ACCEL — Accelerating Clinical and Translational Research

DaCCoTA — Dakota Cancer Collaborative on Translational Activity

Mississippi Center for Clinical and Translational Research

PIKO — Center for Pacific Innovations, Knowledge and Opportunities

Advance RI-CTR — Advance Rhode Island Clinical & Translational Research

Great Plains IDeA | Clinical and Translational Research

Northern New England Clinical & Translational Research Network

The Alliance — Hispanic Alliance for Clinical & Translational Research

LA CaTS — Louisiana Clinical & Translational Science Center

OSCTR — Oklahoma Shared Clinical and Translational Resources NIGMS U54 GM104938

Partnering for Better Health — WVCTSI West Virginia Clinical and Translational Science Institute

U54GM104942-06S4

IDeA-CTR N3C Investigator Engagement Event:
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Program

2:00-2:30pm EST — **Opening Remarks**

Welcome

Sally Hodder, MD
Associate Vice President for Clinical and Translational Science, West Virginia University; Director, West Virginia Clinical and Translational Science Institute; Principal Investigator, IDeA-CTR N3C

Clifford Rosen, MD
Director, Center for Clinical and Translational Research, Maine Medical Center; Co-Principal Investigator, Northern New England Clinical and Translational Research Network

Michele McGuirl, PhD
Chief of the Research Advancement Programs Branch, Division for Research Capacity Building, National Institute of General Medical Sciences

2:30-3:30pm EST — **CTR N3C Research Studies**

Vignettes from across the IDeA-CTR N3C Network

What is the Best Therapy for COVID-19?

J. Zachary Porterfield, MD, PhD
Assistant Professor of Microbiology, Immunology & Molecular Genetics, University of Kentucky

Bradley S. Price, PhD
Assistant Professor of Business Data Analytics, Management Information Systems Department, West Virginia University

Association of Vitamin D Prescribing and Clinical Outcomes in Adults Hospitalized with COVID-19

Kimberly Murray, MPP
Senior Research Analyst
Maine Medical Center Research Institute

Higher Hospitalization and Mortality Rates among SARS-CoV-2 Infected Persons in Rural America

Jerrod Anzalone, MS
Clinical Research Informatics Specialist
University of Nebraska Medical Center

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Program

3:30-4:15pm EST

Keynote

The National COVID Cohort Collaborative (N3C): A Social Experiment in Collaborative Research

Christopher G. Chute, MD, DrPH
Bloomberg Distinguished Professor of Health Informatics, Professor of Medicine, Internal Medicine, Johns Hopkins University;
N3C Co-Principal Investigator

4:15-4:45pm EST

Orientation

Getting Started with N3C

Shawn T. O'Neil, PhD, MS
Assistant Professor of Research, Center for Health AI, University of Colorado Anschutz Medical Campus; N3C Training Coordinator

4:45-5:00pm EST

Closing Remarks

Navigating N3C at Your IDeA-CTR Site

Sharon J. Patrick, MS, MPA, CPCS
Data Resources Manager, West Virginia Clinical and Translational Science Institute

Elizabeth S. Chen, PhD
Interim Director, Center for Biomedical Informatics, Brown University; Director, Advance-CTR Biomedical Informatics, Bioinformatics, and Cyberinfrastructure Enhancement Core

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Featured Speaker Bios

Christopher G. Chute, MD, DrPH

Bloomberg Distinguished Professor of Health Informatics, Professor of Medicine, Internal Medicine, Johns Hopkins University

Dr. Chute is the Bloomberg Distinguished Professor of Health Informatics, Professor of Medicine, Public Health, and Nursing at Johns Hopkins University, and Chief Research Information Officer for Johns Hopkins Medicine. He is also Section Head of Biomedical Informatics and Data Science. He received his undergraduate and medical training at Brown University, internal medicine residency at Dartmouth, and doctoral training in Epidemiology and Biostatistics at Harvard. He is Board Certified in Internal Medicine and Clinical Informatics, and an elected Fellow of the American College of Physicians, the American College of Epidemiology, HL7, the American Medical Informatics Association, and the American College of Medical Informatics (ACMI), as well as a Founding Fellow of the International Academy of Health Sciences Informatics; he was president of ACMI 2017-18. He is an elected member of the Association of American Physicians. His career has focused on how we can represent clinical information to support analyses and inferencing, including comparative effectiveness analyses, decision support, best evidence discovery, and translational research. He has had a deep interest in semantic consistency, harmonized information models, and ontology. His current research focuses on translating basic science information to clinical practice, and how we classify dysfunctional phenotypes (disease). He became founding Chair of Biomedical Informatics at Mayo Clinic in 1988, retiring from Mayo in 2014, where he remains an emeritus Professor of Biomedical Informatics. He is presently PI on a spectrum of high-profile informatics grants from NIH spanning translational science including co-lead on the National COVID Cohort Collaborative (N3C). He has been active on many HIT standards efforts and chaired ISO Technical Committee 215 on Health Informatics and chaired the World Health Organization (WHO) International Classification of Disease Revision (ICD-11).

Sally L. Hodder, MD

Professor of Medicine, Director of the West Virginia Clinical and Translational Science Institute, Associate Vice President for Clinical and Translational Research at West Virginia University and Principal Investigator, IDeA-CTR N3C

Dr. Hodder is a seasoned physician with extensive experience leading large scientific programs and serving as Principal Investigator for several important NIH-funded awards. After completing her medical training, she worked in Kenya and observed first-hand the emergence of AIDS in Africa. Subsequently, she served on the Case Western Reserve University School of Medicine faculty until being recruited to Bristol-Myers-Squibb in 2000. From 2003-2005, she served as Vice President of Virology Medical Affairs, Bristol-Myers-Squibb, a position in which she was responsible for administering a $47 million annual budget and 50-member department that included clinical trials execution and management. In 2005, Hodder was recruited to New Jersey Medical School, in Newark, NJ to build an HIV program in a community where HIV prevalence was nearly 3% but where (at that time) there was not an active NIH Division of AIDS adult clinical trials site. Her program was successfully awarded NIH support for both HIV treatment as well as prevention clinical trials. Under Dr. Hodder's leadership, effective community outreach in Newark, NJ was realized, enabling enrollment and retention of large numbers of trial participants. As Protocol Chair for the HIV Prevention Trials Network 064 trial (a study of HIV incidence and risk behaviors among 2,099 US women), she worked effectively with investigator teams from multiple sites to successfully create and execute this study. In September 2014, Dr. Hodder accepted a position at West Virginia University to direct the West Virginia Clinical and Translational Science Institute and to serve as PI for the Clinical and Translational Research grant, a U54 cooperative agreement with the National Institute of General Medical Sciences, to develop clinical and translational research infrastructure for purposes of improving health outcomes in West Virginia. Leveraging her expertise in infectious diseases, Dr. Hodder has directed the West Virginia Clinical and Translational Science Institute to combat the ongoing COVID-19 pandemic through a variety of projects. As a result, Dr. Hodder and team have brought in over $6 million in federal funding for innovative COVID-19 research projects. Dr. Hodder earned her bachelor's degree in chemistry from Mount Holyoke College and a medical degree from the Case Western Reserve University School of Medicine. After medical school, Hodder received post-graduate training at the University of California San Francisco and Case Western Reserve University.

Michele McGuirl, PhD

Chief of the Research Advancement Programs Branch, Division for Research Capacity Building, National Institute of General Medical Sciences

Dr. McGuirl is Chief of the Research Advancement Programs Branch in the Division for Research Capacity Building at the NIH National Institute of General Medical Sciences (NIGMS) where she oversees the Centers of Biomedical Research Excellence (COBRE) Phase I initiative and manages COBRE grants. Prior to that, Dr. McGuirl served as a program director for grants in the biophysical studies of protein structure and function for the Division of Biophysics, Biomedical Technology, and Computational Biosciences and as program director in the NCI Center for Cancer Training. Before joining the NIH, she was an NIGMS-funded researcher and faculty member at the University of Montana. Her research interests have included electron transfer, metallo-biochemistry, protein folding, and amyloid diseases. Dr. McGuirl earned a BS in chemistry from the University of Massachusetts and a PhD in biochemistry from Montana State University. She conducted postdoctoral research at The California Institute of Technology.

Clifford J. Rosen, MD

Director of the Center for Clinical and Translational Research at MaineHealth, Co-Principal Investigator of the Northern New England Clinical and Translational Research Network, Senior Scientist at Maine Medical Center Research Institute, Professor of Medicine, Tufts University School of Medicine

Dr. Rosen is the Principal Investigator for the Northern New England Clinical and Translational Research Network (U54) that stresses clinical translation of basic investigations. He served seven years as Chair of the External Advisory Committee for the Mayo CTSI and previously served on the IOM Committee on the CTSA program. He currently oversees the Rosen Musculoskeletal Laboratory at the Maine Medical Center Research Institute (MMCRI) and is a board certified endocrinologist. Dr. Rosen has more than twenty-five years of continuous NIH funding, first at The Jackson Laboratory and subsequently at MMCRI. In 2007, Dr. Rosen moved from The Jackson Laboratory to MMCRI where he was appointed senior scientist and director of clinical and translational research. In the last ten years, the Rosen laboratory has been studying mesenchymal stem cell fate with particular reference to the switch between pre-adipocytes and pre-osteoblasts, and with a focus on the bioenergetic programs of those progenitors. Dr. Rosen is chair of the governance committee for the CTR N3C network. He has been an Associate Editor at *New England Journal of Medicine* for almost 7 years, and a Senior Editor at *eLife*. Dr. Rosen has published 550 peer-reviewed publications in Journals such as *Nature, Nature Medicine, Cell, Cell Metabolism, PNAS, New England Journal, Journal of Clinical Investigation and Lancet.*

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Speaker Bios

Jerrod Anzalone, MS

Mr. Anzalone is a clinical research informatics specialist and PhD student in Biomedical Informatics at the University of Nebraska Medical Center. His primary research interests are in applied clinical and operational informatics and the secondary analysis of healthcare data for research. Mr. Anzalone plays an active role in N3C, and co-leads the Rural Health Domain Team alongside Ms. Kim Murray, Dr. William Hillegass, and Dr. Will Beasley.

Elizabeth S. Chen, PhD

Dr. Chen is Interim Director of the Brown Center for Biomedical Informatics (BCBI), Associate Professor of Medical Science, and Associate Professor of Health Services, Policy & Practice at Brown University. She is also Director of the Advance-CTR Biomedical Informatics, Bioinformatics, and Cyberinfrastructure Enhancement Core. Within BCBI, Dr. Chen leads the Clinical Informatics Innovation and Implementation (CI^3) Laboratory that is focused on leveraging EHR technology and data to improve healthcare delivery and biomedical discovery. Specific research interests include clinical documentation, clinical decision support, health information needs, standards and interoperability, natural language processing, and data mining and machine learning. Dr. Chen received a BS in Computer Science from Tufts University and PhD in Biomedical Informatics from Columbia University.

Kimberly Murray, MPP

Ms. Murray is a Senior Research Analyst at the Center for Interdisciplinary Population Health Research at Maine Medical Center Research Institute. For over 26 years, Ms. Murray has pursued interests in variation in health care delivery and outcomes, health care appropriateness and overtreatment, and quality improvement. Recent topics of study include opioid treatment and overdose, and in the past year, COVID treatments and outcomes in N3C.

Shawn T. O'Neil, PhD, MS

Dr. O'Neil is an Assistant Professor of Research with the Center for Health AI at the University of Colorado Anschutz Medical Campus. He serves as the Training Coordinator for N3C and Data Engineer for the Translational and Integrative Sciences Lab (TISLab). Dr. O'Neil earned his BS in Computer Science at Northern Michigan University and later MS and PhD in the same subject at the University of Notre Dame, where he focused on sequence-based bioinformatics algorithms and uses. Dr. O'Neil is the author of A Primer for Computational Biology with OSU Press and has developed and taught several courses and workshops in bioinformatics at Notre Dame and Oregon State University.

Sharon J. Patrick, MS, MPA, CPCS

Ms. Patrick is the CTR N3C Manager and Clinical Research Design, Biostatistics and Epidemiology Manager at the West Virginia Clinical and Translational Science Institute. She works closely with the CTR N3C Investigator Navigators and Analysts as well as other key personnel with N3C research projects.

J. Zachary Porterfield, MD, PhD

Dr. Porterfield is a physician-scientist with PhD training as a virologist and clinical training in Infectious Disease who is appointed Assistant Professor at the University of Kentucky in the Department of Microbiology/Immunology, the Division of Infectious Disease, and the Department of ENT Surgery. His basic science interests focus on informing vaccination and cure efforts for HIV through study of factors that modulate infectivity in HIV and the tissue reservoirs where HIV remains hidden from the immune system. In addition, his lab has a strong translational and clinical research focus with work on the interface between clinical care and research and major projects focused on Dissemination and Implementation of best practices in rural and at-risk populations. He is currently the Principal Investigator of the adaptive drug trial for COVID-19 at the University of Kentucky and supports seven other clinical trials for COVID-19 in addition to serving on advisory boards for the clinical and research response to the pandemic.

Bradley S. Price, PhD

Dr. Price is an Assistant Professor of Business Data Analytics in the Management Information Systems Department in the John Chambers College of Business and Economics at West Virginia University. Dr. Price's expertise is developing novel statistical machine learning methods with applications in business and healthcare operations. He is also the Chief Data Scientist for the State of West Virginia's Governor's Joint Inter-Agency Taskforce on COVID-19 and Co-Director of the Biostatistics, Epidemiology, and Research Design Core for West Virginia Clinical and Translational Science Institute. He holds a PhD from the University of Minnesota School of Statistics, and prior to joining WVU was on the faculty of the University of Miami School of Business Administration.

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IDeA-CTR N3C Network

DELAWARE-CTR ACCEL
ACCELERATING CLINICAL AND TRANSLATIONAL RESEARCH

Advance RI-CTR
Advance Rhode Island
Clinical & Translational Research
Cite: U54GM115677

The Alliance
Hispanic Alliance for Clinical & Translational Research

DaCCoTA
DAKOTA CANCER COLLABORATIVE ON TRANSLATIONAL ACTIVITY

GREAT PLAINS IDeA | Clinical and Translational Research

LA CaTS
LOUISIANA CLINICAL & TRANSLATIONAL SCIENCE CENTER

NORTHERN NEW ENGLAND CLINICAL & TRANSLATIONAL RESEARCH NETWORK

MCCTR MISSISSIPPI CENTER FOR CLINICAL AND TRANSLATIONAL RESEARCH

OSCTR Oklahoma Shared Clinical and Translational Resources
NIGMS U54 GM104938

PIKO
Center for Pacific Innovations, Knowledge and Opportunities

PARTNERING FOR BETTER HEALTH
WVCTSI
West Virginia Clinical and Translational Science Institute

U54GM104942-06S4

IDeA-CTR N3C Education Committee

- Amber Abel (WV-CTR)
- Jerrod Anzalone, MS (GP-CTR)
- Will Beasley, PhD (OK-CTR)
- Liz Chen, PhD (RI-CTR; *Chair*)
- Karen Crowley, MS, PhD (RI-CTR)
- Ivette Emery, PhD (NNE-CTR)
- Mary Helen Mays, PhD, MSHI, MBA, MPH, RD (PR-CTR)
- Kim Murray, MPP (NNE-CTR)
- Sharon Patrick, MS, MPA, CPCS (WV-CTR)