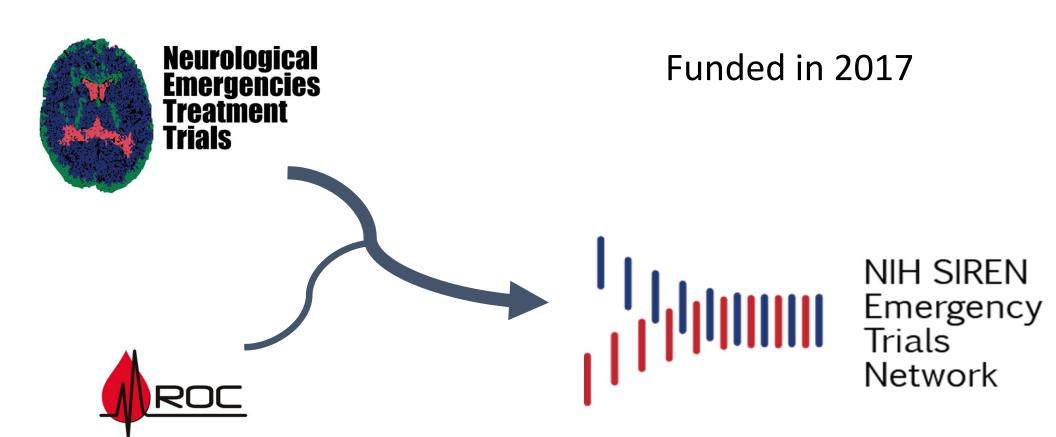


Overview









#### Specific aims

- 1. diligently recruit, efficiently perform, and widely disseminate the most scientifically and clinically important trials in emergency patient care
- 2. create a **culture of clinical trials that is collaborative**, multidisciplinary, diverse and inclusive through leadership, openness, and engagement
- **3. transform the emergency research enterprise** through innovative design, patient stakeholder engagement, better operational strategies

#### Design principles and organizational values

- Focus on early treatment.
- Focus on meaningful outcomes for patients.
- Focus on **efficiency**.
- Focus on collaboration.
- Focus on transforming the clinical trials enterprise.

### Multiple PI Leadership Plan - CCC

- Bill Barsan
- Robert Silbergleit
- Clif Callaway



## Multiple PI Leadership Plan - DCC

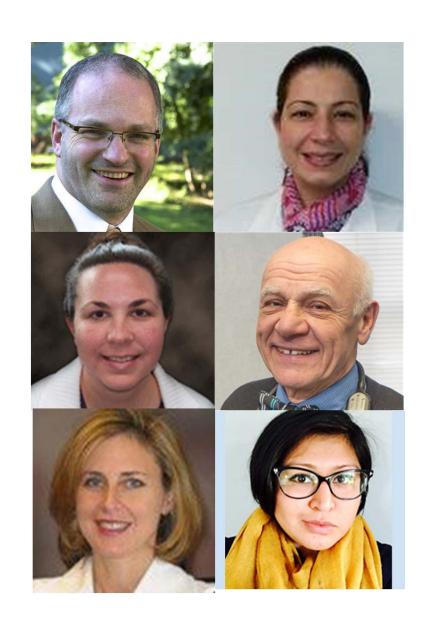
- Yuko Palesch
- Valerie Durkalski

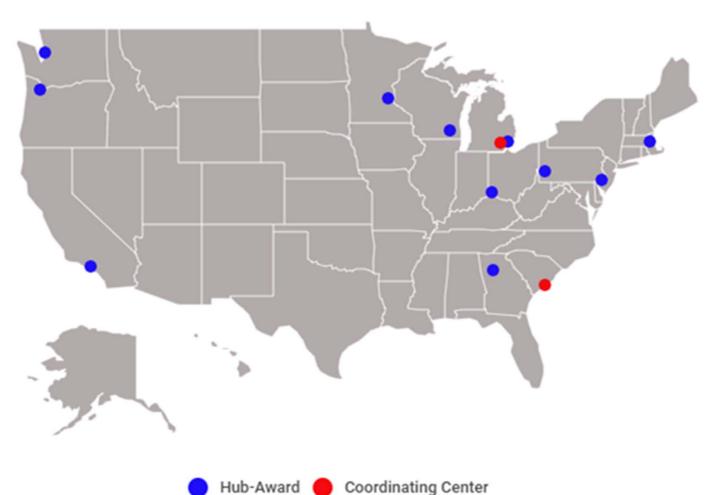




#### NIH Program Leadership

- Jeremy Brown (NINDS)
- Carolina Mendoza-Puccini (NINDS)
- George Sopko (NHLBI)
- Emily Tinsley (NHLBI)
- Robin Conwit (NINDS)
- Lupe Aquino (NCATS)





#### **SIREN Grant Awards**

Massachusetts General Hospital
Temple University
University of Pittsburgh
Wayne State University
University of Cincinnati
Emory University
Medical College of Wisconsin
University of Minnesota
University of Washington
Oregon Health Sciences University
University of California Los Angeles

#### **Coordinating Centers**

University of Michigan

Medical University of South Carolina

#### Scope of Portfolio

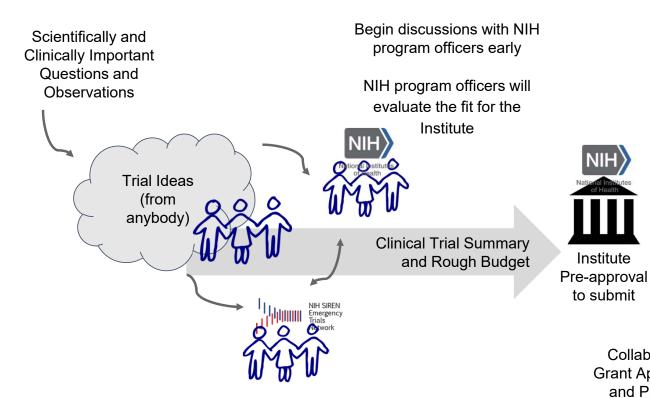
Late learning phase or confirmatory phase trials

Patient oriented outcomes

Controlled efficacy to registry based RCT

Appropriate sized for our scalable network

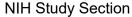
Primary focus on neurological, cardiac, lung and blood (NINDS/NHLBI) Secondary focus on other IC portfolios, and health services



Begin discussions with SIREN leadership early as well.

SIREN leadership will evaluate fit for the network, contribute to concept, and relay to site PI's

SIREN will NOT be a layer of scientific peer review





Revise



to submit

Grant application(s)

Collaborative **Grant Application** and Protocol Development with input from Sites, Patients, and Others III

Institute Council



**Grant Award** 

Grant Award to Scientific Pl's Institution with major subaward to CCC

DCC may be paired grant or subaward depending on Institute

#### **Potential Sources of Trials**

#### Current and Pipeline SIREN trials

#### **Current:**

Hyperbaric Oxygen Brain Injury Trial (HOBIT)

Brain Oxygen Optimization in Severe TBI-Phase 3 (BOOST3)

#### Pipeline:

ICECAP (Influence of Cooling Duration on Outcome in Cardiac Arrest Patients)

CHEST PAIN (Comparative Health Effectiveness of Strategies Testing Pain Assessment of Ischemia Noninvasively)

#### **HOBIT** (Hyperbaric Oxygen Brain Injury Trial)

PIs: Gaylan Rockswold, William Barsan, Byron Gajewski, Renee Martin

Adaptive Phase 2 trial evaluating 7 different dose tiers for Hyperoxia in severe TBI (GCS 3-8); 200 patients

Primary outcome: > 50% probability of success in a Phase 3 trial

Work began on HOBIT in 2014

First grant submitted 4/2016

Funded in 9/2017

# BOOST3 (Brain Oxygen Optimization in Severe TBI—Phase 3)

Pls: Ramon Diaz-Arrastia, William Barsan, Lori Shutter, Sharon Yeatts

Phase 3 trial to determine whether management strategies based on brain tissue oxygen monitoring and ICP management improves outcome from severe TBI (GCS 3-8) compared to management based on ICP alone; 1094 patients

Primary Outcome: Sliding dichotomy GOS-E at 6 months

Work began in 2015

Funded in 7/2018

# ICECAP (Influence of Cooling Duration on Outcome in Cardiac Arrest Patients)

PIs: Will Meurer, Rob Silbergleit, Romer Geocadin, Sharon Yeatts, Ramesh Ramakrishnan

Phase 3 trial to characterize the duration/response curve for hypothermia in comatose survivors of cardiac arrest; will determine this for both shockable and non-shockable rhythms

Primary Outcome: mRS at 90 days following cardiac arrest

Original design part of the ADAPT-IT project 2010-2015

Grant submitted and reviewed 2018; Resubmission in process

### CHEST PAIN (Comparative Health Effectiveness of Strategies Testing Pain Assessment of Ischemia Noninvasively)

PIs: Alan Storrow, David Maron, Clif Callaway, Valerie Durkalski Non-inferiority trial comparing an in hospital noninvasive testing strategy vs outpatient follow up in patients with low risk chest pain Primary outcome: All cause mortality at 30 days; 16,700 patients Grant submitted and reviewed in 2018; Resubmission in process

## QUESTIONS?