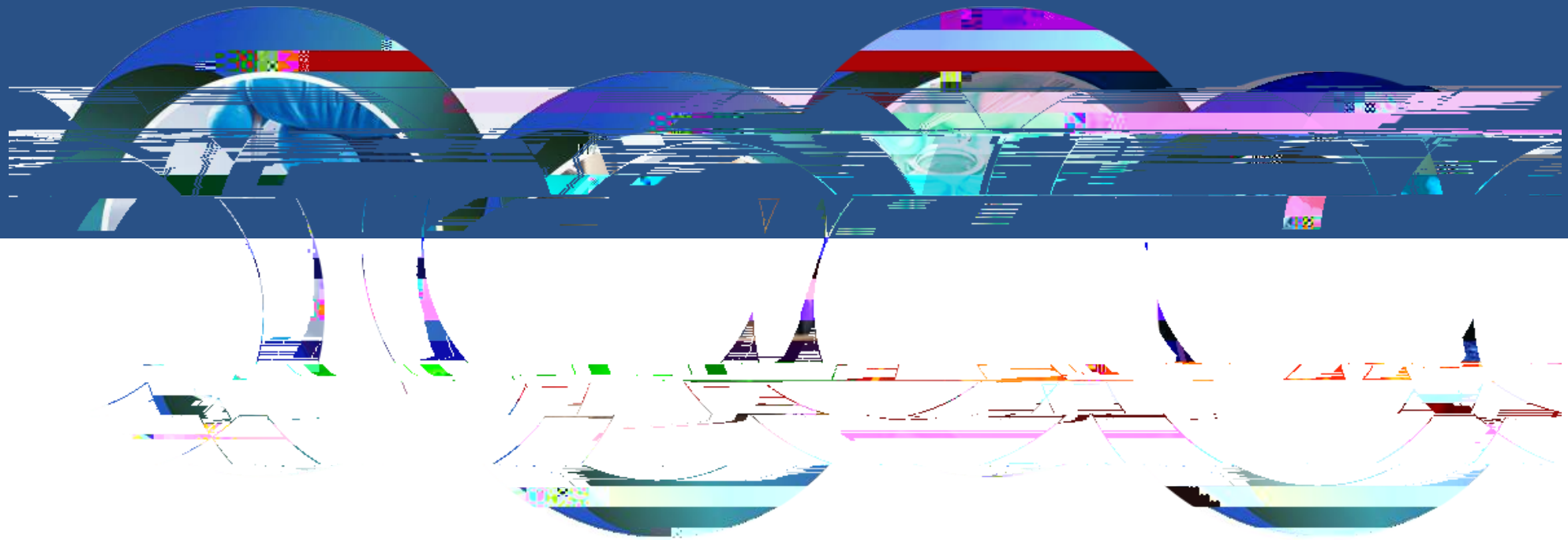
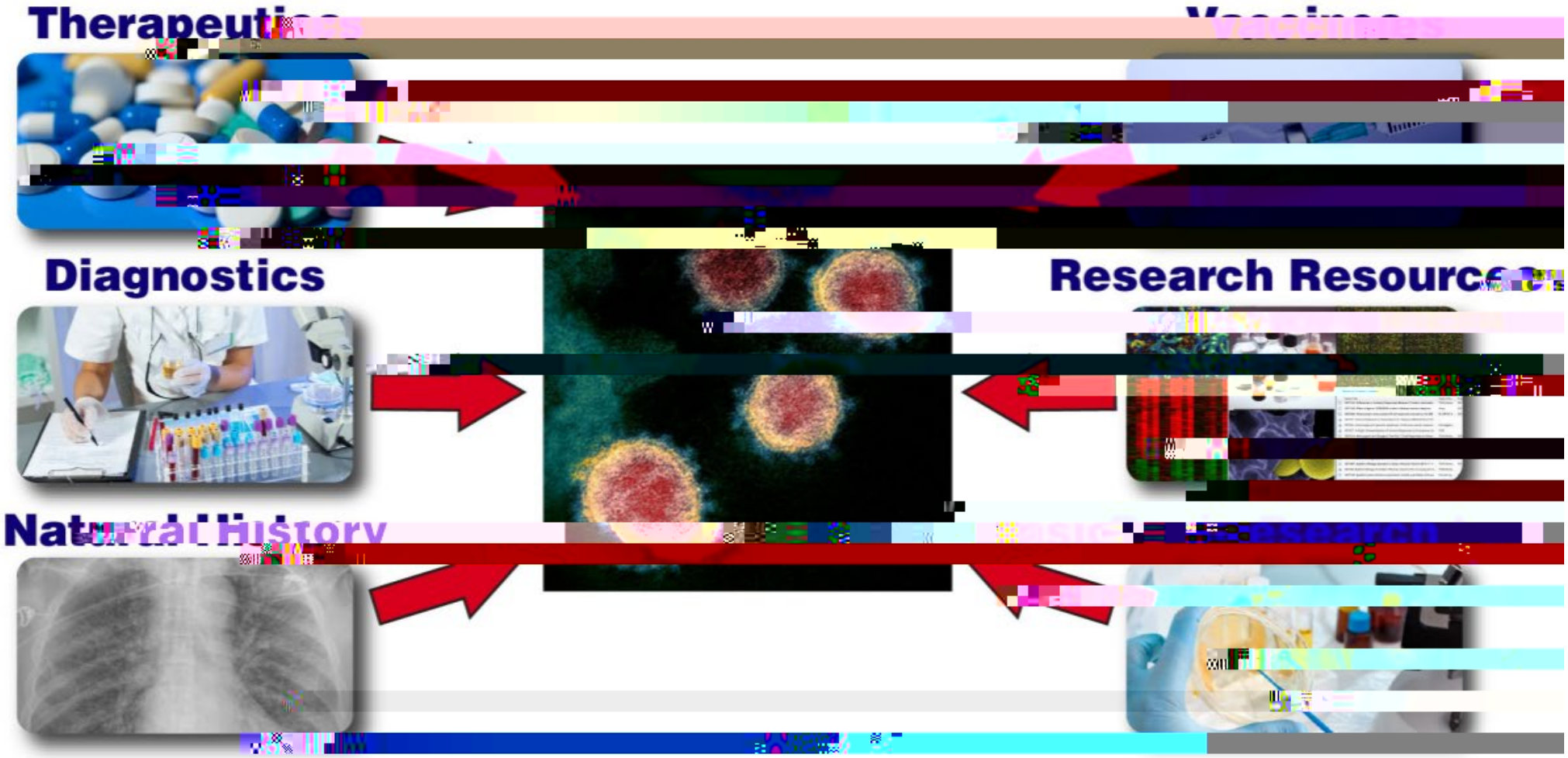


NIH National Ins ̨ utes ` Heal

NIH Research on COVID-19



NIH Research on COVID-19

How to address an emerging problem: recovery from SARS-CoV-2 infection?

There are many ongoing NIH resources that can be leveraged to better understand COVID recovery

Electronic Health Records and Health Systems studies; 10 million+ collective participants. E.g.,

- National COVID Cohort Collaborative (N3C) (EHR-based COVID)
-

NINDS supported projects related to COVID + ME/CFS

NIH NeuroCOVID Project (at NYU Langone)

- Database will collect information from clinicians about COVID-19-related

Intramural studies addressing long term neurological symptoms associated with COVID-19

Natural History of Post-Coronavirus Disease 19 Convalescence

Avi Nath (NINDS), Brian Walitt (NINR)

To observe and describe the range of medical syndromes that occur following an acute COVID-19 infection

Study population: 1000 adults who are within six months of their convalescence from an acute COVID-19 infection

Starting with telephone interviews and internet-based questionnaires; following phases = in depth evaluation at CC; focus on identifying patients who overlap with ME/CFS; longitudinal follow up

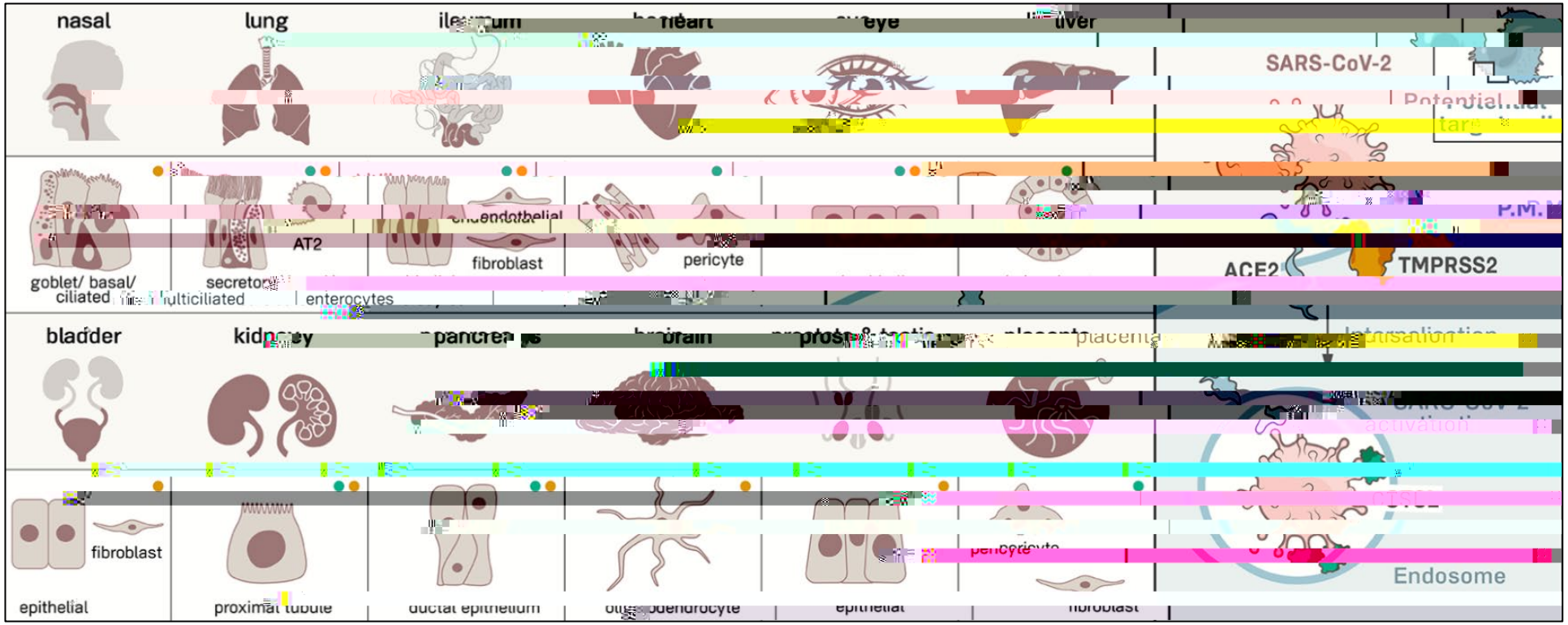
An Observational Study of Neurologic Function after COVID-19 Infection

Avi Nath (NINDS), Bryan Smith (NINDS)

To investigate structural abnormalities by brain MRI and other components of neurologic function in those with prior SARS-CoV-2 infection and persistent neurologic symptoms

Is SARS

COVID-19 Affects Multiple Organs



The Scientist, April 2020

NIH Post Acute Sequelae of SARS-CoV-2 Infection (PASC) Initiative

NIH Post Acute Sequelae of SARS-CoV-2

NIH PASC Research

Goal

- Rapidly improve our **understanding** of and **ability to treat** and prevent PASC

Key Scientific Questions

1. What are the clinical spectrum of and biology underlying recovery from acute SARS-CoV-2 infection over time?
2. For those patients who do not fully recover, what is the incidence/prevalence, natural history, clinical spectrum, and underlying biology of this condition? Are there distinct phenotypes of patients who have prolonged symptoms or other sequelae?
3. Does SARS-CoV-2 infection initiate or promote the pathogenesis of conditions 0V0.005 Tc 0

Research Approach

1.

-

2.

3.

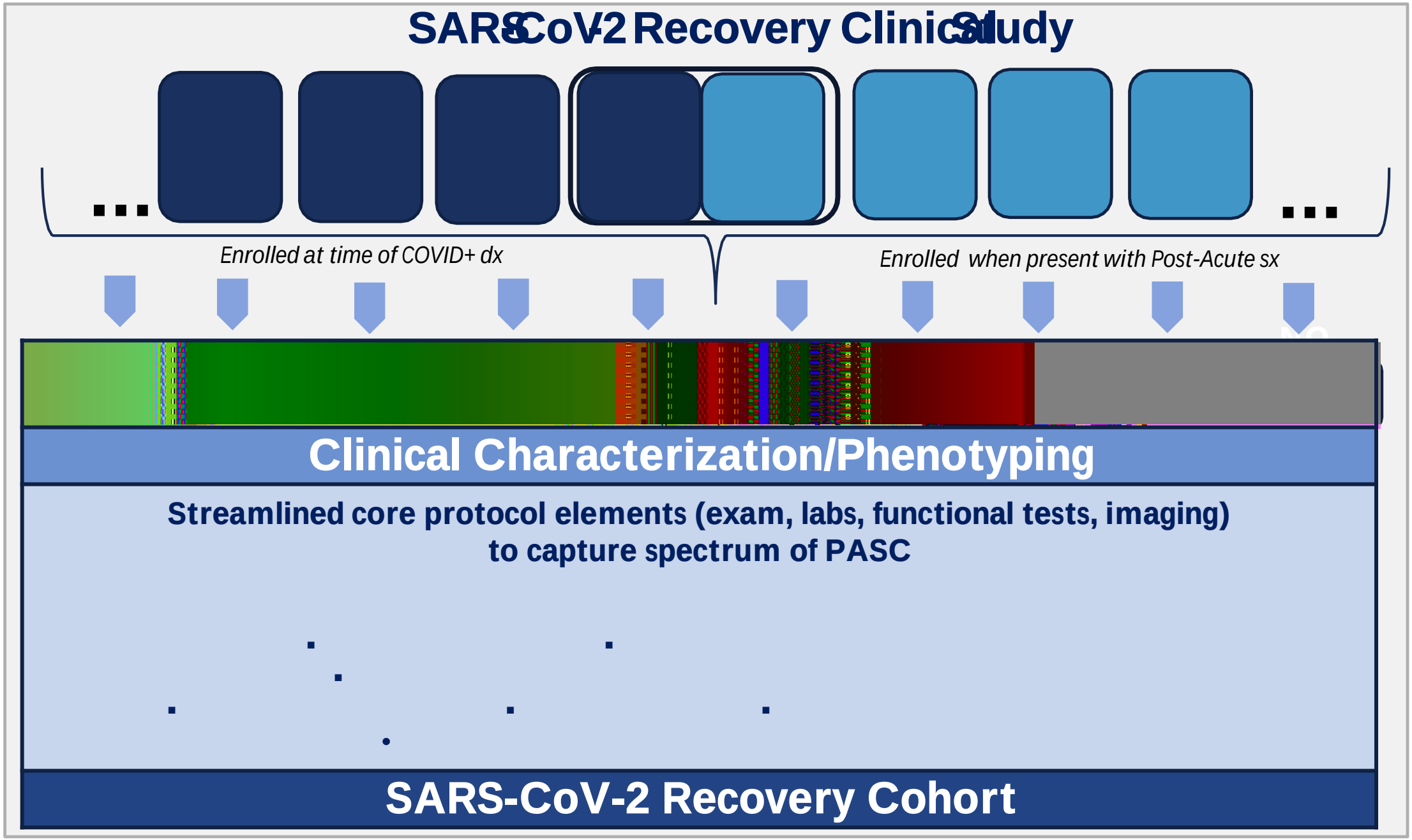
Notes:

Includes Peds Cohorts Studies

Includes new and leveraged ongoing studies

Broad Spectrum of Recovery Phenotypes

Individual protocols but use of core common protocol elements



PASC Initiative Components

SARS-CoV-2 Recovery	Investigator Consortium

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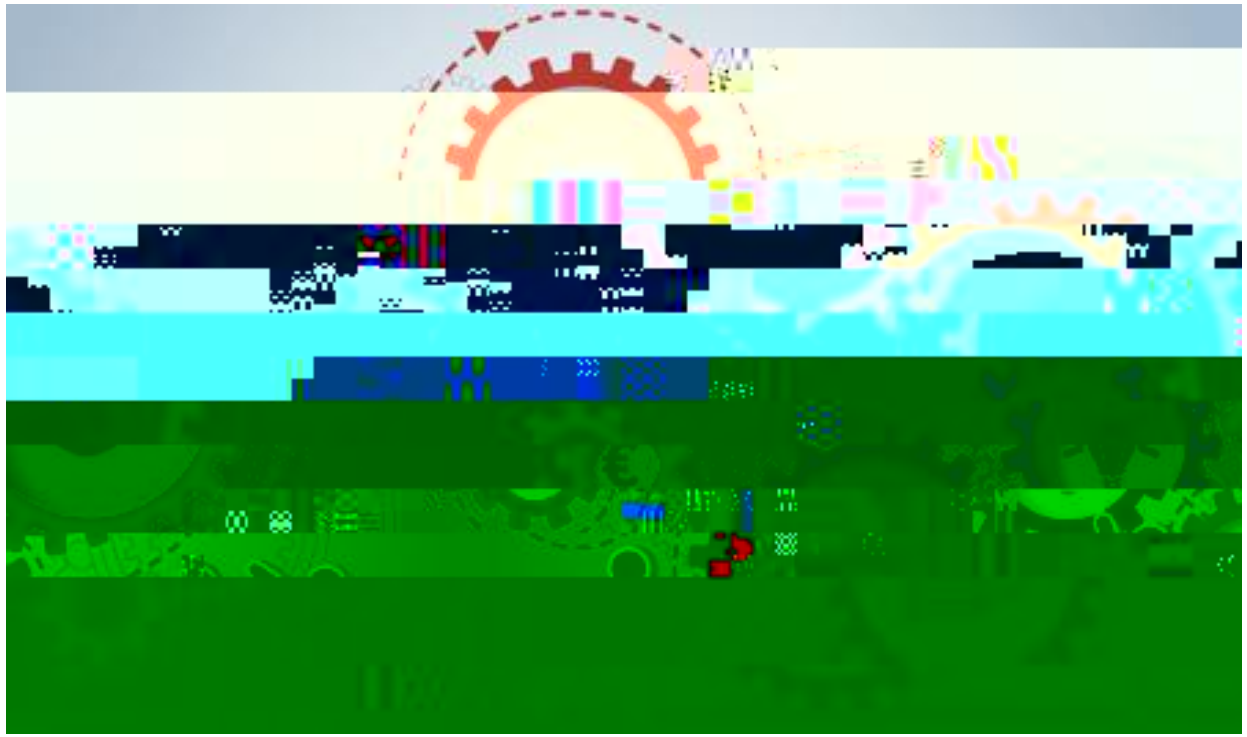
-
-



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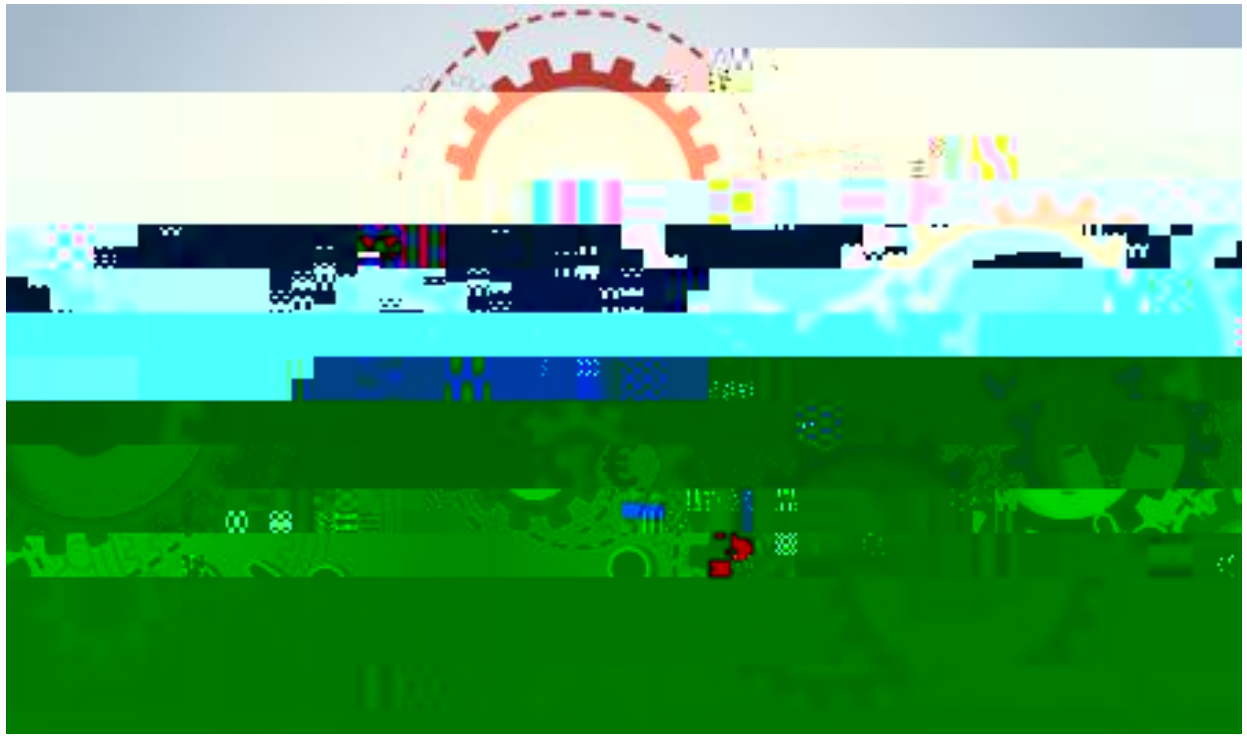
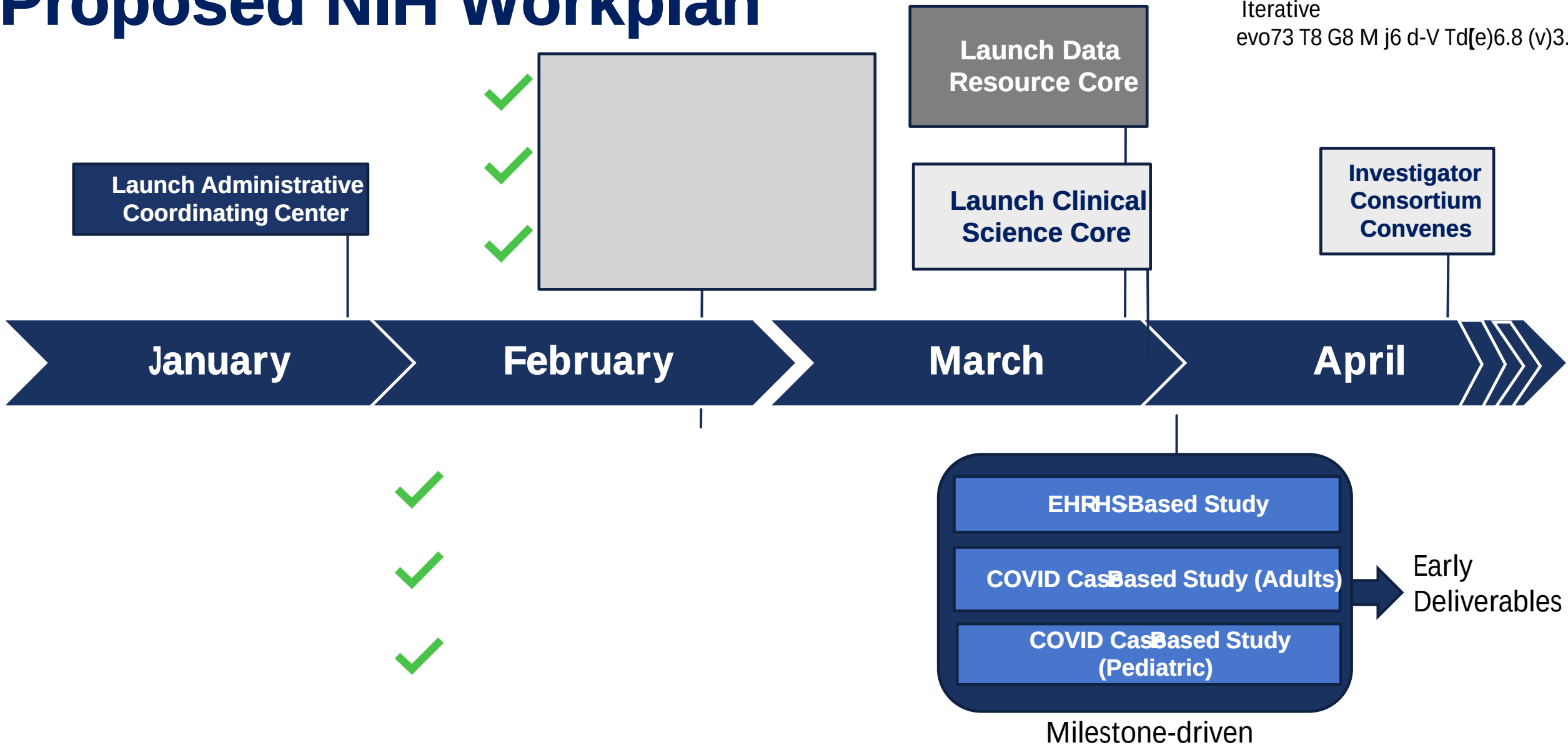
PASC Initiative Components

- The goals of the Recovery Cohort and Investigator Consortium will be supported by

2nd



Proposed NIH Workplan



Iterative
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Discussion