

Toward a Common Research Agenda in Infection - Associated Chronic Illnesses

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Patient-Driven Data: ME/CFS subset of Long COVID

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Solve M.E.: at the intersection of Science, Patient Empowerment and Policy

- National non-profit patient advocacy organization, established in 1987
- Co-founder of The Long Covid Alliance
- Long COVID Alliance begun building the foundations for establishing a new Infection Associated Chronic Conditions Patient Advocacy Coalition

Mission

Be a catalyst to make myalgic encephalomyelitis (aka chronic fatigue syndrome; ME/CFS), Long Covid and other infection-associated diseases widely understood, diagnosable and treatable

Policy Guided by Prior Evidence and Experience

- ME/CFS often triggered by an infection ¹
- Previous infection outbreaks led to a chronic condition in some people ²

Summary: H.R.7057 — 116th Congress (2019-2020)

[All Information](#) (Except Text)



There is one summary for H.R.7057. [Bill summaries](#) are authored by [CRS](#).

Shown Here:

Introduced in House (05/28/2020)

Understanding COVID-19 Subsets and ME/CFS Act or the U.C.S. ME/CFS Act

This bill requires the National Institutes of Health to support research on myalgic encephalomyelitis/chronic fatigue syndrome among COVID-19 (i.e., coronavirus disease 2019) patients and survivors. This is a serious, chronic, and multisystem disease associated with survivors of viral infections. In addition, the Department of Health and Human Services may carry out a public awareness campaign about post-viral chronic neuroimmune diseases.

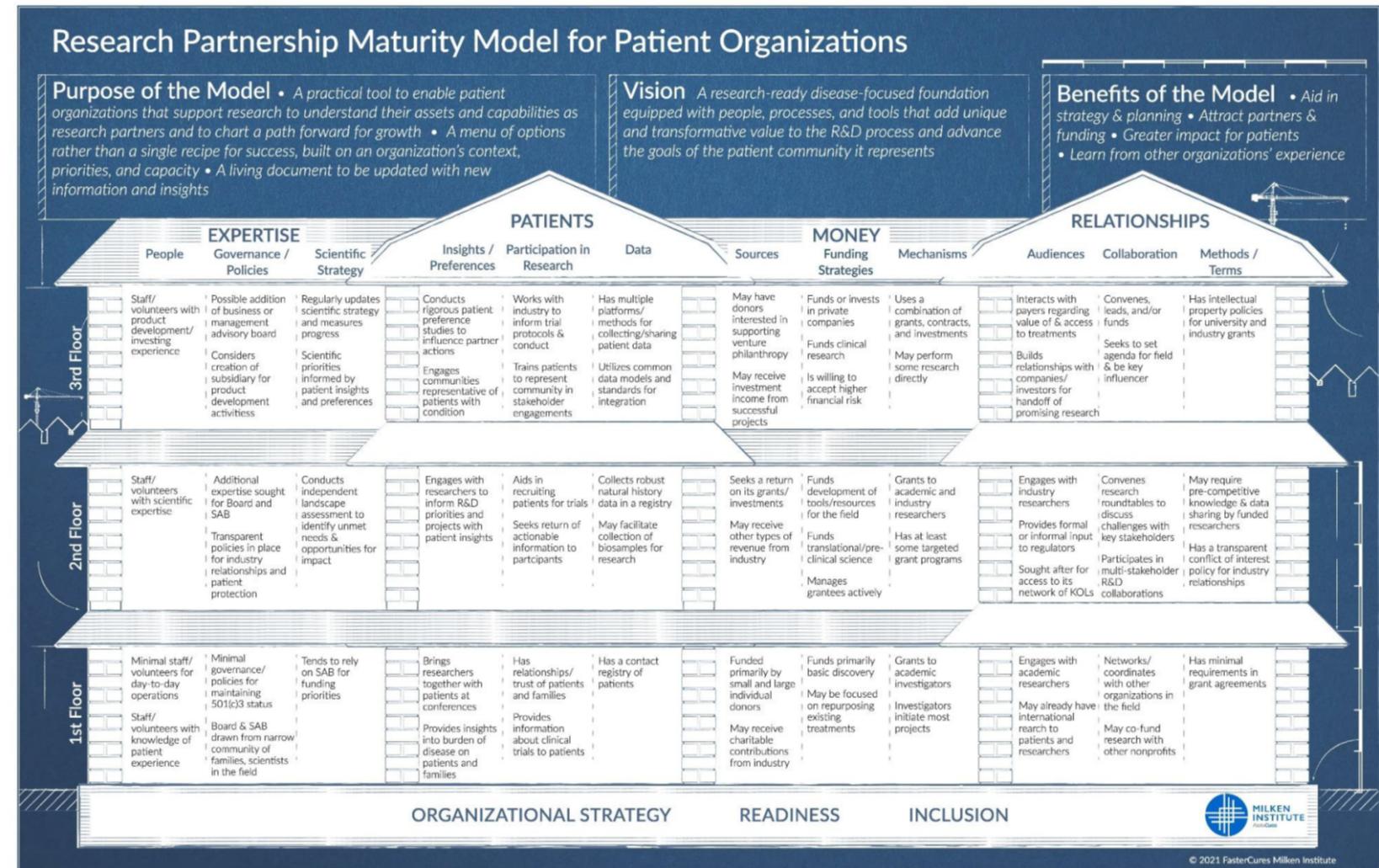
Naess et.al., Postinfectious and chronic fatigue syndromes: clinical experience from a tertiary-referral centre in Norway. *In Vivo*, 2010

Islam et.al., Post-viral fatigue and COVID-19: lessons from past epidemics, *Fatigue: Biomedicine, Health & Behavior*, 2020

“Research-ready” Patient Organization

Adding distinctive value to the R&D process to address the needs of the patients it represents

- Expertise
- Patients
- Money
- Relationships



The Milken Institute



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Patient Organizations Play Unique Role

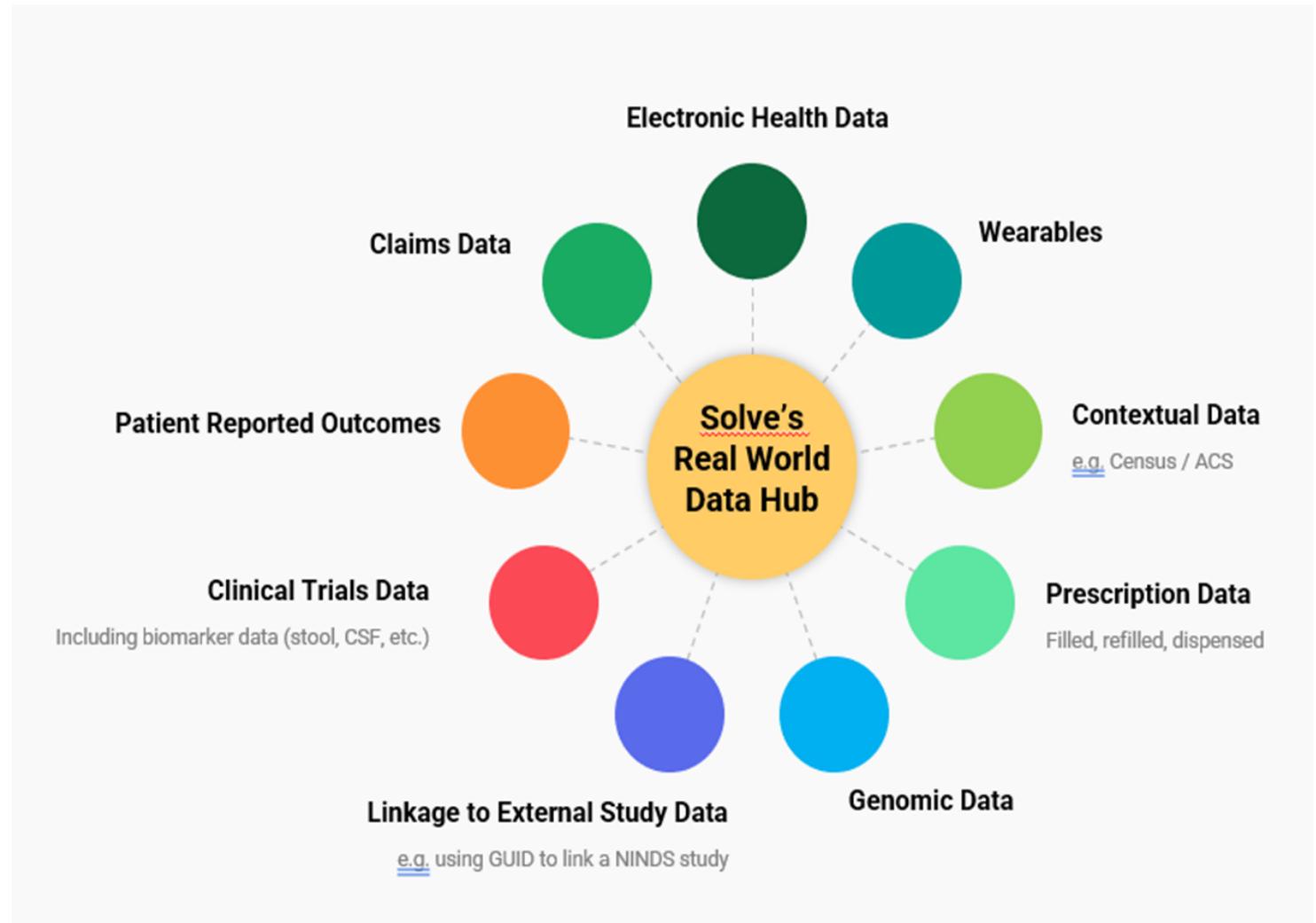
- Insights
- Preferences
- Participation in research
- Collection of patient-driven data

Patient-driven data platforms

- Patient empowerment
- Democratizing research
- Decentralizing tools, removing barriers
- Increase inclusivity and equity
- Converging traditional and innovative research

Solve's Patient-Driven Platform

- IRB governed, online, observational longitudinal study ¹
- 7,000 Participants: people with ME/CFS, Long COVID, and controls
- ME/CFS launched May 2020
- Covid-19 launched December 2020
- Transitioning to a new platform towards a larger and more diverse cohort
- Enable recruitment to nested clinical studies
- Expedite diagnostic and therapeutic progress



Ramiller et. al., The Facilitation of Clinical and Therapeutic Discoveries in Myalgic Encephalomyelitis/Chronic Fatigue Syndrome and Related Diseases: Protocol for the You + ME Registry Research Platform. *JMIR Res Protoc.* 2022

Demographics

Characteristic	ME/CFS (n=4410)	Long Covid >12months (n=270)
Female	83%	83%
Median Age (yrs.)	50	46
White/Caucasian	92%	82%
Working Fulltime	16%	31%
Disabling symptoms*	31%	22%
Onset	40% Infection trigger	59% +PCR

*independent of whether receiving disability benefits or not

Long COVID Cohort: Selected Symptoms

Characteristic	>12 months (n=270)
Fatigue	96%
Brain Fog	87%
Headaches	83%
Marked physical or mental fatigue/exhaustion after minimal activity that lasts for a long time	74%
Muscle pain	67%
Dizziness or faintness when standing up	61%
Shortness of breath	57%

Meeting Diagnostic Criteria for ME/CFS

48% of people living with Long COVID symptoms persisting for more than one year meeting Institute of Medicine criteria

- 1** Not being able to participate in routine activities that were possible before becoming ill, such as work, school, social life, and/or personal life, that:
 - Lasts for more than 6 months
 - Is accompanied by fatigue that is:
 - Often serious
 - Just started (not lifelong)
 - Not the result of ongoing activities
 - Not from more than usual effort
 - Not made better by rest
- 2** Post-exertional malaise (PEM). Worsening of symptoms after physical, mental, or emotional effort that would not have caused a problem before the illness. This is sometimes referred to as "crashing" by people with ME/CFS.
- 3** Unrefreshing sleep. People with ME/CFS may not feel better even after a full night of sleep (e.g., feeling just as tired upon waking up as before going to bed).

In addition, at least one of the following symptoms is also required:



Impaired memory or ability to concentrate. People with ME/CFS may have trouble remembering, learning new things, concentrating, or making decisions.



Orthostatic Intolerance (symptoms that occur when standing upright). People with ME/CFS may feel lightheaded or dizzy when standing upright and may even faint.

IOM Criteria: www.cdc.gov/me-cfs

Conclusion

- A looming crisis: nearly half of people living with Long COVID symptoms persisting for more than one year, meet the diagnostic criteria for ME/CFS
- Form Follows Function: a common research agenda should inform a complementary NIH structure
- A common research agenda supports a stronger advocacy voice
- Taking first steps to establish a broader patient coalition

Get Involved

A new coalition is being formed to bring together U.S. patient advocacy organizations, patient partners (IACC patients, caregivers, and those interested in IACC healthcare) and community-based organizations to collectively champion for the needs of the infection-associated chronic condition community — and we're inviting you to get involved!

This coalition is being developed by Long COVID Alliance, with support from CDC Foundation, Solve ME, COVID-19 Longhauler Advocacy Project, Patient-Led Research Collaborative, and Dysautonomia International.

Learn more: contact@iaccpac.org

THANK YOU!

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