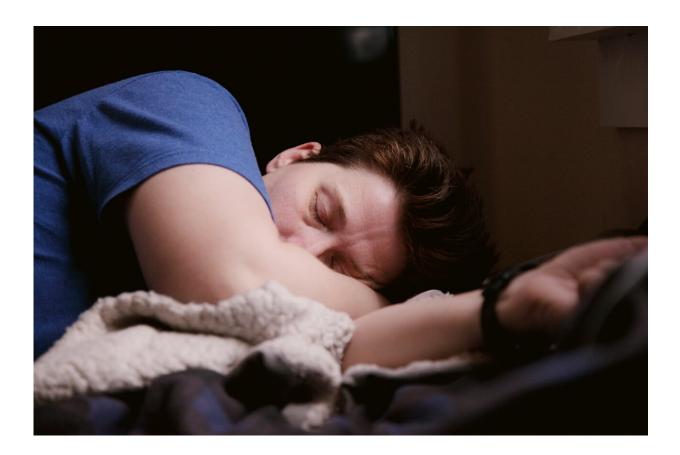


## Similar symptoms, biological abnormalities underlie long COVID and chronic fatigue syndrome

June 10 2023



Credit: Unsplash/CC0 Public Domain

Long COVID and myalgic encephalomyelitis/chronic fatigue syndrome are debilitating conditions with similar symptoms. Neither condition has



diagnostic tests or treatments approved by the Food and Drug Administration (FDA) and each cost the United States billions of dollars each year in direct medical expenses and lost productivity. Doctors and researchers have wondered what are the underlying biological abnormalities that may cause symptoms, and whether these abnormalities are similar in the two illnesses.

A review article authored by senior investigators at Brigham and Women's Hospital and Harvard Medical School, and the Mailman School of Public Health and Vagelos College of Physicians and Surgeons of Columbia University, addresses these questions. In it, the authors review 559 scientific publications. The authors compared the symptoms of both conditions, noting their great similarity, and then showed that very similar underlying biological abnormalities have been found in both conditions, abnormalities involving the brain, immune system, heart, lungs, gut, and energy metabolism.

"By making a side-by-side comparison of what is known about each type of abnormality, in each of these two illnesses, our review serves as a 'road map' to identify areas that require further research," said Anthony L. Komaroff, MD, senior physician in the Brigham Department of Medicine and professor of medicine at Harvard Medical School. "We hope that identifying those abnormalities for which the evidence is strongest will help focus the search for improved <u>diagnostic tests</u> and effective treatments."

The study is published in the journal Frontiers in Medicine.

**More information:** Anthony L. Komaroff et al, ME/CFS and Long COVID share similar symptoms and biological abnormalities: road map to the literature, *Frontiers in Medicine* (2023). DOI: 10.3389/fmed.2023.1187163



## Provided by Brigham and Women's Hospital

Citation: Similar symptoms, biological abnormalities underlie long COVID and chronic fatigue syndrome (2023, June 10) retrieved 3 May 2024 from https://medicalxpress.com/news/2023-06-similar-symptoms-biological-abnormalitiesunderlie.html

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.