

## COVID-19 for the Long Haul

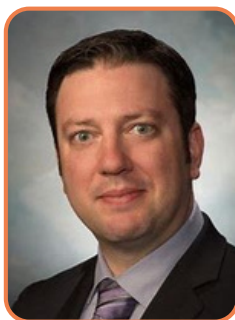
Since the onset of the COVID-19 pandemic, there have been reports of people experiencing persistent symptoms in the weeks to months after the initial infection. Early studies in Europe reported persistence of symptoms in 87% of patients discharged from the hospital. It quickly became evident that persistent symptoms after COVID-19 are not restricted to those who were critically ill or hospitalized, but can occur in patients who had mild symptoms and never needed to be hospitalized. Current projections show that up to 10 million US survivors of symptomatic COVID-19 will become long-haulers, potentially showing a myriad of symptoms that persist for weeks and months after recovery, making it important for providers to gain a deeper comprehension on how COVID-19 infects the body, what organs may be potentially injured long-term, and how that may translate to physical deficits. This activity focuses on symptomatic COVID-19 survivors across the lifespan who are medically stable, but surprisingly not returning quickly to their pre-morbid health status and/or pre-morbid activity levels. This activity was designed to provide healthcare clinicians with the most up to date information on the presentation, immunopathogenesis, and treatment options for COVID-19 Long Haulers. At the conclusion of this live video conference, participants will be able to:

- Describe the likely causes for COVID-19 long-haulers' symptoms and discuss the multi-system approach to identify potential long-term physical problems.
- Identify the multi-organ involvement that may occur with long-COVID.
- Anticipate and treat the needs of COVID long-hauler survivors.

**September 21, 2022**  
**6:00 - 7:00 PM**  
**Video Conference**

This is a LIVE video conference.  
Registration is REQUIRED.

**Register at**  
**[www.eehcme.org](http://www.eehcme.org)**



**Speaker:**  
**Nicholas**  
**Mathenia, DO**

Join us as we welcome Dr. Nicholas Mathenia, a board certified neurologist with Edward Neurosciences Institute. Dr. Mathenia received his medical degree from the Chicago College of Osteopathic Medicine and completed his neurology residency at the University of Illinois at Chicago. He most recently was a Neurophysiology Fellow at the University of Chicago. He is a member of American Academy of Neurology and American Medical Association.

## Why is this important?

**32.7% of COVID-19**  
**outpatients developed**  
**long-haul symptoms**

**31.3% of hospitalized**  
**patients became**  
**long haulers**

**Persistent symptoms &**  
**functional impairment**  
**even in patients with**  
**uncomplicated COVID-19**



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