

long COVID

Decision support for prediction and management of LCS

Challenges

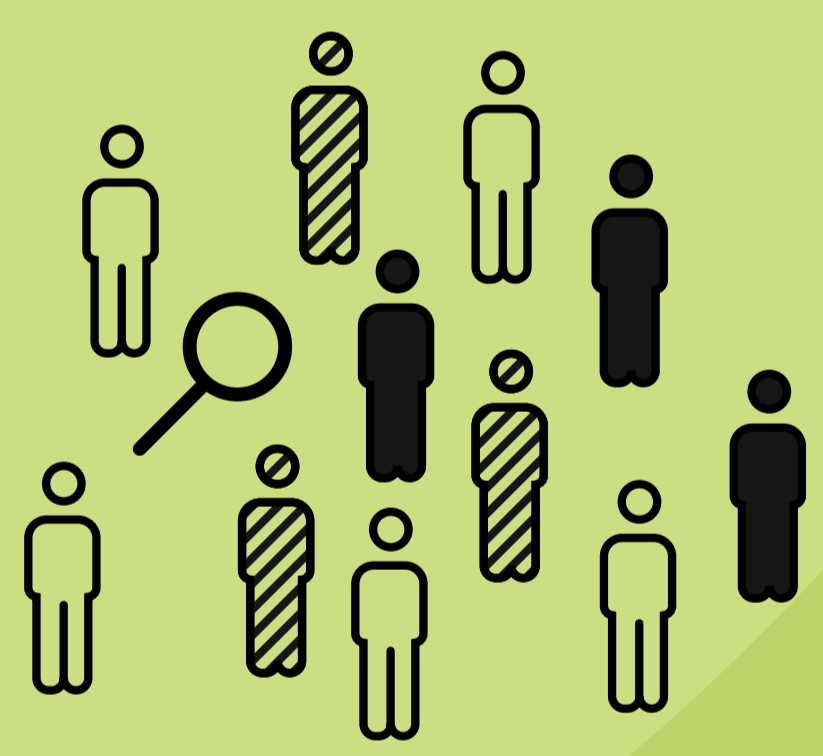
Although much is now known regarding appropriate clinical management of acute COVID-19, very little is known about clinical manifestations, risk factors and underlying mechanisms for development of the highly heterogeneous Long Covid Syndrome (LCS).

The Long COVID project, coordinated by Helsinki University Hospital (HUS), aims to understand the mechanisms of LCS by combining front-line expertise from the fields of clinical medicine, virology, metabolism, and immunology.

The project will study the pathogenesis of LCS by:

- ① conducting geographically diverse cohort and registry studies,
- ② conducting mechanistic studies,
- ③ using novel high-throughput methods for biomarker analysis, and
- ④ conducting interventional and follow-up studies on LCS patients.

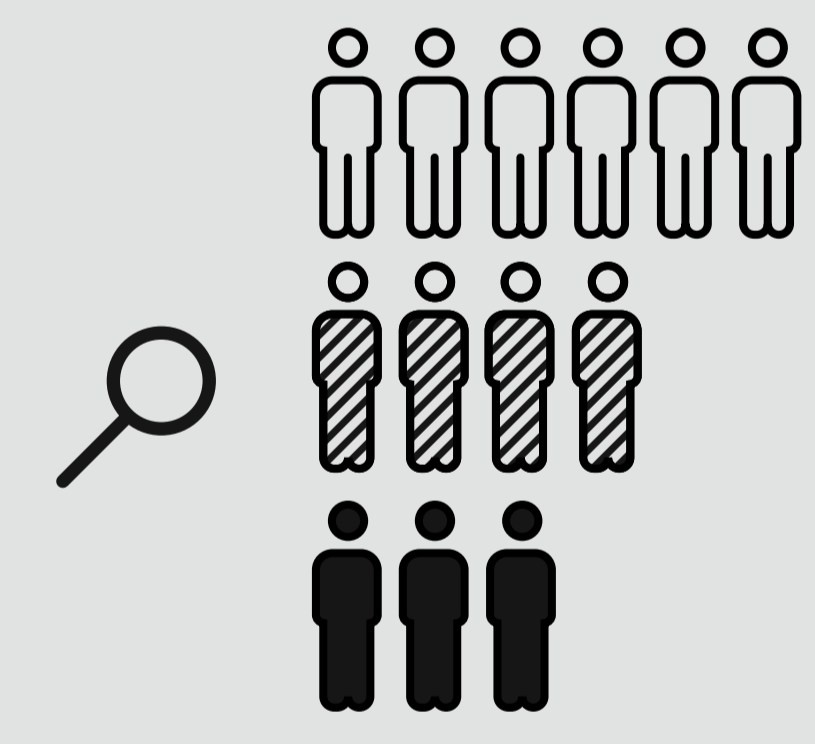
Objectives



Collect cohort data to develop patient stratification and biomarker prediction algorithms.



Identification of the dynamics of immune responses behind the long-term clinical outcomes in LCS using mechanistic studies.



Identify novel biomarkers to guide stratification of patients according to differential symptoms and disease manifestations.



Develop Machine Learning (ML) and Artificial Intelligence (AI)-based patient stratification and biomarker prediction algorithms.



Facilitate clinical interventional studies for the management of LCS.



Disseminate and exploit project results.



www.longcovidproject.eu

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lipotype

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