

Decision support for prediction and management of Long Covid Syndrome (LCS)

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



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1. Describe your project through three key words / key phrases that identify it.

Interventions, prediction and management of Long Covid. Hence, elucidating the predisposing factors and mechanisms for the development of Long Covid Syndrome (LCS).

2. In terms of impact, what are the most concrete results your project has or will achieve?

The project aims to understand and mechanisms of LCS, developing tools and knowledge to support physicians in accurately managing LCS which has a significant impact on sufferers as well as their surroundings.

Long COVID is collecting data from six cohort, mechanistic, biomarker and interventional studies to validate the predictive artificial intelligence algorithms and to produce information and gain an understanding on the combination of factors that lead to certain clustering of patients into different groups with specific symptoms. A machine learning and AI-informed Long Covid Prediction Support (LCPS) tool will be developed for the use of clinicians to predict the LCS and its possible clinical manifestations in patients.

3. Please describe your project overall impact at the European level

The results of our study will develop and improve the care of patients suffering from the long-term effects of COVID-19 infection everywhere in Europe. Thanks to European open data policy our study results can be used in further studies about LCS.

4. As an applicant, what advice would you have wanted in the Horizon project design process? What support did you receive from National Contact point (NCP) and your organisation, and what improvement of support would you benefit from?

As data sharing between different research institutes is challenging, advice on the best practices would have been useful.

As a clinician and researcher, I would put more focus on improving the care of many vulnerable patient groups and especially on studying the effectiveness of different interventions.

