

Debrief: EMA workshop on generating clinical evidence for treatment and prevention options for Long-COVID

PCWP/HCPWP meeting 28 February 2024



Workshop

- Workshop was conducted as a fully virtual event on the 17 Nov 2023
- Well attended by multiple stakeholders to address:
 - Methodology challenges of designing clinical studies for generating robust clinical evidence
 - Complexity of the pathophysiological mechanisms and clinical syndromes associated with Long-COVID that impacts the evaluation of possible therapeutic or preventive strategies in clinical trials

Objectives

- Foster the future identification of optimal clinical study designs and outcome measures
 to reliably assess efficacy for the multiple clinical syndromes of Long-COVID that can
 generate robust and reliable efficacy data needed for regulatory approval
- Facilitate future designing and approval of clinical studies for treatment and prevention options for Long-COVID



Panel discussion and open discussion

- Several important topics were covered
 - The needs of patients and special populations like paediatric and immunosuppressed patients
 - The role of any available animal models for Long-COVID
 - The potential study design
 - The advantages and disadvantages of patient-reported outcomes (PROs) as primary efficacy outcome
 - The use of biomarkers for more targeted investigations or to enrich the patient population

Key outcomes -1

- Patients are suffering tremendously due to some of the key chronic debilitating symptoms, and the associated economic and social consequences.
- Initiate clinical studies as soon as possible, to give patients a chance to access medicines under investigation in the secured environment of a clinical study
- Well-designed, double-blinded randomised clinical studies are essential to ensure generation of robust and reliable clinical evidence
- Based on the lessons learned from the SARS-COV-2 pandemic underpowered or duplicated studies with insufficient clinical study design should be avoided
- Need to increase collaborative effort to facilitate and initiate coordination of platforms studies in the EU, to better coordinate EU cohorts, and to establish EU patients registries, also for paediatric and immunocompromised patients

Key outcomes -2

Real-world evidence -> helpful to gather an increased understanding of the disease including its natural history

BUT:

- Challenge of different definitions and categorisation used across studies and public health institutions
- Important to strengthen the coordination of EU cohorts, to reach a common methodology, an agreement of definitions and to use the huge biobanking
- Consensus on an agreed operational case definition of Long-COVID and/or an applicable diagnostic ICD-10 definition for diagnosis across Europe
 - → Ensure **proper diagnosis and consistency** of the patient population **across studies** and **cohorts**

Paediatrics

- Adolescents should be included in adult clinical trials
- Conducting clinical studies in younger paediatric patients is very challenging:
 - Overall prevalence of Long-COVID is lower than in adults
 - Low test frequency for acute infection and the consequent difficulties in identifying patients
 - Considerably different Long-COVID clinical phenotypes compared to adults
 - Limited applicability of patient reported outcomes
 - Lack of established diagnostic criteria and biomarkers
- Establishing paediatric registries
 - → **Most valuable option for paediatrics** to gather information on the disease and treatment outcomes in this population

Animal models

- Role of animal models for Long-COVID to identify treatments to be tested in clinical trials is uncertain
- Increasing evidence that the hamster SARS-CoV-2 infection model could be of value for agents aimed at controlling viral replication

BUT

- → Validation and long-term data are missing
- → Further explore their relevance to human Long-COVID
- Initiation of randomised clinical studies should in principle not be postponed unless there are clearly identified risks



Clinical study design consideration

- First step an agreed operational case definition of Long-COVID and/or ICD-10 definition for diagnosis across Europe
 - → Ensure **proper diagnosis and consistency** of the **patient population** across clinical trials and cohorts.
- Treatment of Long-COVID should be prioritised over prevention
- Patients with the most severe clinical manifestations, e.g., exercise intolerance or chronic fatigue, should be addressed first
- Initial focus on **clinical phenotypes** or **symptom clusters** (I,e, ME/CFS (Myalgic Encephalomyelitis / Chronic Fatigue Syndrome) **irrespective of origin**
 - → Might be challenging, considering the overlap of symptoms from different clusters



Primary endpoint

Patient Reported Outcomes (PROs)

- Patient reported outcomes (PROs) are presently considered to be the **best** option
- Use of already well-known, disease specific PROs preferred, which should be adapted and validated for Long-COVID.
- Consider learnings and outcomes from PRO from other initiatives like RECOVER

Biomarker

- In proof-of-concept studies, to confirm the mechanism of action and biological plausibility
- Not yet sufficient clinical evidence to support the use of biomarkers as surrogates of efficacy
- Useful to enrich the patient population to select those who will benefit most from treatment

Conclusion

- Patients are in need of treatment now and investigations on potentially effective treatments should not be delayed.
- Off -label use of medicines that are not tested in scientifically sound clinical trials need to be avoided.
- Increased collaborative effort is needed to facilitate and initiate coordination of platform studies in the EU
- More funds to support the conduct of Long-COVID clinical trials in the EU should be made available
- Find a way to synergise and capitalise on the work done by the NIH Recovery initiative
- Summary report and a publication are currently drafted
- A further meeting will be organised in mid/end 2024 to take stock of the advancements gained and to check the state of play



Any questions?

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