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Project Reference No. : C7154-20GF

Project Title : A multinational big data Covid-19 Epidemiological Study on post-infection Outcomes (ACESO)

Project Coordinator : Professor Wong Ian Chi Kei

University : The University of Hong Kong

Layman Summary

Layman's Summary in English: COVID-19 has affected over 95 million people with over 2 million deaths worldwide (as of January 2021) and is associated with a wide range of acute severe adverse outcomes. However, medium-term (3-12 months since diagnosis) and long-term (beyond one year since diagnosis) outcomes remain unclear due to the novelty of the disease.

This research programme (ACESO) utilises four interconnected multinational projects to evaluate short-term, medium-term and long-term outcomes, with a focus on the latter two. ACESO encompasses seventeen de-identified healthcare/administrative databases from eleven countries/regions including HK, Asia-Pacific, Europe and the United States. Overall, these databases cover at least 213 million people and around 0.84 million confirmed COVID-19 cases (as of 25/06/2020). Project 1 examines the post-infection outcomes of COVID-19 patients, such as mortality, cardiovascular, respiratory, hepatic, immunological and neurological adverse outcomes, cancer, and healthcare resource utilisation. Project 2 identifies the risk factors associated with poor outcomes in patients diagnosed with COVID-19 and treatment patterns. Project 3 evaluates the effects of COVID-19 on mental health in the general population and vulnerable groups. Project 4 compares complications in pregnant women and adverse outcomes in children between mothers with

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Delegates from D²4H attended the InnoHK Launch Ceremony