

# The world heart federation global study on covid-19 and cardiovascular disease

Lana T

Maasstad Hospital, United States of America

## Abstract

The emergence of novel coronavirus disease 2019 (COVID-19), caused by the Severe Acute Respiratory Syndrome-Coronavirus-2 (SARS-CoV-2), has presented an unprecedented global challenge for the healthcare community. The ability of SARS-CoV-2 to get transmitted during the asymptomatic phase, and its high infectivity have led to the rapid transmission of COVID-19 beyond geographic regions facilitated by international travel, leading to a pandemic. To guide effective control and interventions, primary data is required urgently, globally, including from low- and middle-income countries where documentation of cardiovascular manifestations and risk factors in people hospitalized with COVID-19 is limited.

**Objectives:** This study aims to describe the cardiovascular manifestations and cardiovascular risk factors in patients hospitalized with COVID-19.

**Methods:** We propose to conduct an observational cohort study involving 5000 patients recruited from hospitals in low-, middle- and high-income countries. Eligible adult COVID-19 patients will be recruited from the participating hospitals and followed-up until 30 days post admission. The outcomes will be reported at discharge and includes the need of ICU admission, need of ventilator, death (with cause), major adverse cardiovascular events, neurological outcomes, acute renal failure, and pulmonary outcomes. **Conclusion:** Given the enormous burden posed by COVID-19 and the associated severe prognostic implication of CVD involvement, this study will provide useful insights on the risk factors for severe disease, clinical presentation, and outcomes of various cardiovascular manifestations in COVID-19 patients particularly from low and middle income countries from where the data remain scant.

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## Biography

Lana Turner had an acting ability that belied the "Sweater Girl" image MGM thrust upon her, and even many of her directors admitted that they knew she was capable of greatness (check out *The Postman Always Rings Twice*

(1946)). Unfortunately, her private life sometimes overshadowed her professional accomplishments