Systolic and Diastolic Function

## Evaluation of cardiac function by two-dimensional speckle tracking echocardiography in uncomplicated COVID-19 survivors

Akbulut M.; Tan TS.; Gerede DM.; Kozluca V.; Dincer I.

Ankara University, Cardiology, Ankara, Turkey

## Funding Acknowledgements: Type of funding sources: None.

5COVID-19 is a multi-systemic infectious disease. Nearly 20-30% of hospitalized patients have evidence of acute myocardial involvement, portending a poorer prognosis. However, not much is known about the long-term cardiac effects of the disease. Also, there is a growing concern about the cardiac sequelae of COVID-19 among survivors. In this study, we aimed to investigate the long-term cardiac effects in patients with prior mild-moderate COVID-19 infection, using both conventional and speckle tracking echocardiographic imaging modalities. A total number of 58 patients who have been diagnosed with COVID-19 within the previous six months and 20 age-, sex- and risk factor-matched healthy adults were included. All patients underwent a comprehensive echocardiographic examination. Both conventional and two-dimensional speckle tracking echocardiographic measurements were done. Also, serum cardiac biomarkers were obtained on the day of echocardiographic examination. Compared with healthy controls, COVID-19 survivors had similar left and right ventricular systolic function at six months. Also, left and right atrial peak systolic strain values did not differ between the groups. Long-term cardiac sequelae of COVID-19 infection are still widely unknown, resulting in concern among survivors. This study is valuable in putting forth the unaffected systolic and diastolic myocardial function on long-term in uncomplicated COVID-19 cases and may decrease the survivors' anxiety and the number of unnecessary applications to cardiology clinics.





Abstract Figure. Right ventricle strain analysis

