



Spectrum of Suspected Cardiomyopathy Due to COVID-19: A Case Series

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Abstract: The effects of COVID-19 on the cardiovascular system remains understudied given the early stage of the pandemic. Several case series and case reports have been published on COVID-19 related cardiomyopathies; however, there is often a lack of baseline echocardiographic data confirming a normal cardiac health prior to infection. Here we examine four patients with preserved left ventricular systolic function on prior echocardiogram who developed *de novo* cardiomyopathies which following COVID-19 infection. The study comprised of four individuals with an average age of 80.5 years, 75% of which were white males. 50% of cases were suspected to have Takotsubo CM vs. myocarditis while the remaining half were diagnosed as myocarditis. Left ventricular systolic function dropped from a normal range to an average of 30% during COVID-19 infection in these individuals. Moreover, half of the cases later died. In conclusion, the COVID-19 pandemic has demonstrated its ability to cause several serious cardiovascular complications with associated worsening of prognosis. Repeat TTE showed recovery of systolic

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