

Heart-related test results may indicate risk of death in patients with COVID-19

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New research published in the *European Journal of Clinical Investigation* identifies cardiovascular test results that might help to identify patients hospitalized with COVID-19 who face an especially high risk of dying.

Out of 1,401 patients with a confirmed diagnosis of COVID-19 admitted to seven Italian centers, 226 (16.1%) underwent transthoracic

echocardiography within 48 hours of admission. In-hospital death occurred in 68 patients (30.1%). Low left ventricular ejection fraction, low tricuspid annular plane systolic excursion, and [acute respiratory distress syndrome](#) were independently associated with in-[hospital mortality](#).

"Clinical and echocardiographic parameters of disease severity might help to determine which [patients](#) with COVID-19 are at higher risk for in-hospital mortality," said lead author Angelo Silverio, MD, of the University of Salerno, in Italy.

More information: Angelo Silverio et al, Clinical conditions and echocardiographic parameters associated with mortality in COVID-19, *European Journal of Clinical Investigation* (2021). [DOI: 10.1111/eci.13638](#)

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