Development and validation of a prognostic model to predict clinical deterioration in hospitalized patients with COVID-19

**Authors and Affiliations**

Javid Azadbakht1, MD, Sina Rashedi2, MD, MPH, Soheil Kooraki3, MD, Hamed Kowsari4, MD, \*Elnaz Tabibian5, MD, MPH  
1 Department of Radiology, Kashan University of Medical Sciences, Kashan, Iran.  
Email: [Javidazadbakht2@gmail.com](mailto:Javidazadbakht2@gmail.com)

2 School of Medicine, Tehran University of Medical Sciences, Tehran, Iran.

Email: [sinarashedi73.sr@gmail.com](mailto:sinarashedi73.sr@gmail.com)  
3 University of California Los Angeles, Los Angeles, CA, USA.  
Email: [Soheil.kooraki@gmail.com](mailto:Soheil.kooraki@gmail.com)  
4 Kashan University of Medical Sciences, Kashan, Iran.

Email: [kowsari\_h@yahoo.com](mailto:kowsari_h@yahoo.com)  
5 Department of Radiology, Tehran University of Medical Sciences, Tehran, Iran. Email: [elnaz.tabibian@gmail.com](mailto:elnaz.tabibian@gmail.com)

\*Corresponding author:

Address: Department of Radiology, Medical Imaging Center, Imam Khomeini Hospital Complex, End of Keshavarz Blvd., Tehran, Iran.  
Postal Code: 1419733141.  
Email: [elnaz.tabibian@gmail.com](mailto:elnaz.tabibian@gmail.com)  
Tel: +98-21-61190  
Fax: +98-21-61190

# Running title: COVID-19 MODEL FOR CLINICAL DETERIORATION

Funding: This research did not receive any specific grant from funding agencies in the public, commercial, or not-for-profit sectors.

# Declarations of interest: None.