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Name of Journal: *World Journal of Clinical Cases*

Manuscript NO: 61198

Manuscript Type: ORIGINAL ARTICLE

Retrospective Study

Clinical diagnosis of severe COVID-19: A derivation and validation of a prediction rule

Validated predictive rule for COVID-19

Abstract

BACKGROUND

The widespread coronavirus 2019 (COVID-19) disease has led to high morbidity and mortality. Therefore, early risk identification of critically ill patients remains to be crucial.

AIM

Clinical diagnosis of severe COVID-19: A derivation and validation o



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<https://pubmed.ncbi.nlm.nih.gov/32930963>

The **prediction rule** is based on eight simple patient characteristics that were independently associated with study outcomes. It is able to stratify COVID-19 patients into four severity classes, with in-hospital mortality rates of 0% in group 1, 6-12.5% in group 2, 7-20% in group 3 and 60-86% in group 4 across the derivation and validation sample.

Derivation and Validation of Clinical Prediction Rules for ...

<https://pubmed.ncbi.nlm.nih.gov/33204755>

We used a public health case management data system to build and validate 4 accurate, well-calibrated, robust **clinical prediction** rules for **COVID-19** mortality in Ontario, Canada. While these rules need external **validation**, they may be useful tools for management, risk stratification, and **clinical** tr ...

Cited by: 1**Author:** David N Fisman, Amy L Greer, Michael Hill...**Publish Year:** 2020

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<https://academic.oup.com/ofid/article/7/11/ofaa463/5917864> ▼

Oct 05, 2020 · The discriminative ability of our rules (as reflected in AUC > 0.9 in both the **derivation and validation** sets) places them among the upper tier of current **COVID-19 prediction** rules; the parsimoniousness of these rules and their conversion to an easy-to-calculate point score allows easy incorporation into **clinical** care.

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Cited by: 1

Author: Fabrizio Foieni, Girolamo Sala, Jason G...

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Publish Year: 2020

[Clinical features of COVID-19 mortality: development and ...](https://www.thelancet.com/journals/landig/article/...)

<https://www.thelancet.com/journals/landig/article/...>

A diagnosis of COVID-19 was determined by positive PCR-based clinical laboratory testing for SARS-CoV-2. Data were internally stored and managed by the Mount Sinai Data Warehouse. After anonymisation and removal of protected health information, the data were released in a text-delimited format for research purposes.

Cited by: 12

Author: Arjun S. Yadaw, Yan chak Li, Sonali Bos...

Publish Year: 2020

[Early prediction of disease progression in COVID-19 ...](https://www.nature.com/articles/s41467-020-18786-x)

<https://www.nature.com/articles/s41467-020-18786-x>

Oct 02, 2020 · The **clinical** and CT characteristics of patients who progressed to **severe COVID-19** (progressive group) and patients who did not (stable group) in the **derivation** ...