

# *Deteriorating Patient and COVID-19: alert no.2*

Evidence and Evaluation for Improvement Team (EEvIT)  
25 March 2021

This is the second of a planned series of quarterly alerts for new publications on the topic of patient deterioration and COVID-19. The citation and full-text links for these publications are listed below in the following themes: [general](#), [identification](#), [management](#), and [treatment](#). This list contains literature published between December 2020 and March 2021.

## Deterioration (general)

BMJ Best Practice. Coronavirus disease 2019 (COVID-19). 2020 [cited 2021 Mar 25]; Available from: <https://bestpractice.bmj.com/topics/en-gb/3000201>

National Institute for Health and Care Excellence. COVID-19 rapid guideline: managing COVID-19 [online]. 2021 [cited 2021 Mar 25]; Available from: <https://www.nice.org.uk/guidance/ng191>

## Identification

Adamuz J, González-Samartino M, Jiménez-Martínez E, Tapia-Pérez M, López-Jiménez M-M, Rodríguez-Fernández H, *et al.* [Risk of acute deterioration and care complexity individual factors associated with health outcomes in hospitalised patients with COVID-19: a multicentre cohort study.](#) *BMJ Open.* 2021;11(2):e041726-e.

Baker KF, Hanrath AT, Schim van der Loeff I, Kay LJ, Back J, Duncan CJ. [National Early Warning Score 2 \(NEWS2\) to identify inpatient COVID-19 deterioration: a retrospective analysis.](#) *Clin Med.* 2021;21(2):84-9.

Chen S-L, Feng H-Y, Xu H, Huang S-S, Sun J-F, Zhou L, *et al.* [Patterns of Deterioration in Moderate Patients With COVID-19 From Jan 2020 to Mar 2020: A Multi-Center, Retrospective Cohort Study in China.](#) *Front Med.* 2020;7:567296-.

Galassi L, Schena D. [The Modified National Early Warning Score \(m-NEWS\) for COVID-19-Infected Patient Evaluation: a Proof-of-Concept.](#) *SN Compr Clin Med.* 2021:1-2.

Gupta RK, Harrison EM, Ho A, Docherty AB, Knight SR, van Smeden M, *et al.* [Development and validation of the ISARIC 4C Deterioration model for adults hospitalised with COVID-19: a prospective cohort study.](#) *Lancet Respir Med.* 2021.

Paranjape N, Staples LL, Stradwick CY, Ray HG, Saldanha JJ. [Development and validation of a predictive model for critical illness in adult patients requiring hospitalization for COVID-19.](#) *PLoS One.* 2021;16(3):e0248891.

Richardson D, Faisal M, Fiori M, Beatson K, Mohammed M. [Use of the first National Early Warning Score recorded within 24 hours of admission to estimate the risk of in-hospital mortality in unplanned COVID-19 patients: a retrospective cohort study.](#) *BMJ Open.* 2021;11(2):e043721.

Su Y, Ju M-J, Xie R-C, Yu S-J, Zheng J-L, Ma G-G, *et al.* [Prognostic Accuracy of Early Warning Scores for Clinical Deterioration in Patients With COVID-19](#). *Front Med.* 2021;7:624255-.

Yitao Z, Mu C, Ling Z, Shiyao C, Jiaojie X, Zhichong C, *et al.* [Predictors of clinical deterioration in non-severe patients with COVID-19: a retrospective cohort study](#). *Curr Med Res Opin.* 2021;37(3):385-91.

## Management

Hajjar LA, Costa I, Rizk SI, Biselli B, Gomes BR, Bittar CS, *et al.* [Intensive care management of patients with COVID-19: a practical approach](#). *Ann Intensive Care.* 2021;11(1):36.

## Treatment

Kaptein FHJ, Stals MAM, Huisman MV, Klok FA. [Prophylaxis and treatment of COVID-19 related venous thromboembolism](#). *Postgrad Med.* 2021:1-9.

Our other quarterly reports can be found here:

[Deteriorating Patient and COVID-19 Quarterly Update 1](#)

[Deteriorating Patient and COVID-19 Quarterly Update 3](#)

[Deteriorating Patient and COVID-19 Quarterly Update 4](#)