

## New study results confirm the value of calprotectin in management of COVID-19 patients

Gentian Diagnostics AS is pleased to announce that the results from a study conducted in collaboration with Charité – Universitätsmedizin Berlin and Labor Berlin have been published in the Letter to the Editor in the scientific journal "Journal of Infection" [1].

The study has evaluated the performance of calprotectin in prediction of severe events e.g. admission to intensive care unit (ICU), multiorgan failure (MOF) and mortality in COVID-19 patients presented at the Emergency Department (ED).

66 patients presented to the ED with suspected Sars-CoV-2 infection were prospectively enrolled in the study. Using PCR testing in pharyngeal swabs, 47 patients tested as negative, and 19 patients were diagnosed with COVID-19. The performance of calprotectin was compared with the performance of routinely used biomarkers: lactate, C-reactive protein (CRP) and procalcitonin (PCT).

The study results show high performance of calprotectin in prediction of MOF and admission to the ICU, and it also suggests calprotectin as a valuable biomarker for early management in COVID-19 patients evaluated in the ED. The authors conclude that the data strongly argue that calprotectin might represent an addition to the biomarker repertoire in the ED, since it seems to perform better than traditional biomarkers.

The conclusion from this study supports calprotectin as a novel and useful discriminator in COVID-19 patients admitted to the ED, with respect to disease outcome, e.g. MOF and ICU admission, and calprotectin measurement in blood samples being easily applicable in routine laboratories.

Several recent studies have reported increased levels of calprotectin in patients with severe SARS-Cov-2 infection, as well as the possibility of calprotectin to differentiate between mild and severe forms of the disease, and its ability to predict the need for mechanical ventilation and mortality [2-6].

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