



Holzheim, April 20, 2020_2

DiaSys Parameters in COVID-19 Monitoring

Procalcitonin Measurement in COVID-19

Procalcitonin (PCT) is a sensitive marker for severe and systemic bacterial infections like sepsis. The expression of PCT is stimulated in nearly all tissues by inflammatory markers in response to severe bacterial infections.

Recent studies focusing on viral SARS-CoV-2 infections report the increase of PCT in severe cases of COVID-19, even predicting worse outcome. [1,2] In these cases, increased PCT levels are interpreted as an indicator for bacterial coinfection or superinfection. [2-4]

Aside from underlying medical conditions and risk factors, coinfections and superinfections are a major cause for mortality in viral sepsis. [5]

IFFC Guidelines on COVID-19 strongly suggest PCT testing in patients with severe cases of COVID-19, intending the early identification and treatment of bacterial coinfections in such complex medical conditions. [6]

For detailed information on DiaSys Procalcitonin FS, please refer to <https://www.diasys-diagnostics.com/products/reagents/immunoturbidimetry/reagent-details/227-procalcitonin-fs/reagent.show>.

With continuous information about “Laboratory Diagnostics in COVID-19”, we want to support you in marketing DiaSys products in times of the pandemic. For all information we published on this topic, please refer to our newly created BLOG: <https://www.diasys-diagnostics.com/blog/>. For further details on DiaSys assays, please have a look at our website: <https://www.diasys-diagnostics.com/>.

Andreas Baecker

Product Manager Reagents

References:

1. Lippi, Plebani, 2020, CCLM, <https://doi.org/10.1515/cclm-2020-0198> published online: March 03, 2020
2. Lippi, Plebani, 2020, Clinica Chimica Acta, 505, 190–191.
3. Kotula, Moore *et al*, 2018, J. Pediatr. Pharmacol. Ther. 23, 466–472.
4. Baumann, Baer, *et al*. 2017, Front. Pediatr, 5, 183 (open access)
5. Dolin, Papadimos *et al*. 2019, Microbiology Insights, 12 1-8.
6. <https://www.ifcc.org/ifcc-news/2020-03-26-ifcc-information-guide-on-covid-19/> (accessed last April 4, 2020)