

# Hematologic alteration in ICU and non-ICU patients of COVID-19

Zahra Mozaheb<sup>1</sup>, Abolghasem Allahyari<sup>2</sup>, Mehrdad Sahranavard<sup>2</sup>, Hossein Rahimi<sup>3</sup>, Alireza Bari<sup>2</sup>, mostafa kamandi<sup>2</sup>, sajad ataei azimi<sup>2</sup>, mohammad moeini nodeh<sup>4</sup>, mohsed seddigh-shamsi<sup>2</sup>, ghazaleh ghorbannezhad<sup>2</sup>, Amir hossein barjasteh<sup>2</sup>, and Mohammad Zamiri Bidari<sup>5</sup>

<sup>1</sup>Mashhad University of Medical Sciences

<sup>2</sup>Affiliation not available

<sup>3</sup>MUMS

<sup>4</sup>Mashhad University of Medical Sciences Ghaem Hospital

<sup>5</sup>Mashhad University of Medical Sciences Faculty of Medicine

July 7, 2020

## Abstract

Corona virus spread easily and rapidly over countries and caused COVID-19 disease with several organ damage. Lymphopenia and elevation NLR, LDH and CRP in covid 19 patients could be a predictive factor, and when they become deeper during hospitalization show the patients to need ICU admission.

## Hosted file

manuscript main1.docx available at <https://authorea.com/users/339634/articles/465776-hematologic-alteration-in-icu-and-non-icu-patients-of-covid-19>

## Hosted file

main file.docx available at <https://authorea.com/users/339634/articles/465776-hematologic-alteration-in-icu-and-non-icu-patients-of-covid-19>

## Hosted file

Table 1.docx available at <https://authorea.com/users/339634/articles/465776-hematologic-alteration-in-icu-and-non-icu-patients-of-covid-19>

## Hosted file

Table2.docx available at <https://authorea.com/users/339634/articles/465776-hematologic-alteration-in-icu-and-non-icu-patients-of-covid-19>

## Hosted file

Table3.docx available at <https://authorea.com/users/339634/articles/465776-hematologic-alteration-in-icu-and-non-icu-patients-of-covid-19>

## Hosted file

Figure1-5.docx available at <https://authorea.com/users/339634/articles/465776-hematologic-alteration-in-icu-and-non-icu-patients-of-covid-19>