



# Are Low Level Lasers Effective in Treating Covid19 Virus?

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## Editorial

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## Editorial

Scientists are concerned about a new virus that has infected 11 million people and killed more than 500000 around the world. The virus, which emerged in the Chinese city of Wuhan in December, is a coronavirus and belongs to the same family as the pathogen that causes severe acute respiratory syndrome, or SARS. It causes a respiratory illness called COVID-19, which can spread from person to person [1,2].

## Effects and Mode of Operation of Intravenous Low-Level-Laser-Therapy of the Blood

One under laser blood irradiation, anti-inflammatory effects was observed that improved the immunologic activity of the blood 1.2. A fundamental finding was the positive influence on rheological properties of the blood which is of greatest interest to surgery, angiology and cardiology in particular 2. A diminishing tendency of aggregation of thrombocytes and an improved deformability of erythrocytes result in an improved oxygen supply and with that to a decrease of partial carbon dioxide pressure, which is particularly relevant to wound healing 3. Furthermore, the activation of phagocytic activity of macrophages was proved in conjunction with structural modifications. A positive effect on the proliferation of lymphocytes and B and T-cell-subpopulations could be verified too [3].

Laser therapy has biostimulative and tissue regenerative properties as well as antimicrobial, anti-inflammatory and analgesic effects. Studies on its effects in respiratory disease have shown improvement in both gas exchange and pulmonary function, as well as enhanced immunity and other

health Benefits [4]. An example of the use of a low-power laser in pneumonia was used as part of routine treatment the findings demonstrate that method, these data allow infrared laser therapy to be recommended for rehabilitation of elderly patients with pneumonia [5].

Intravenous laser therapy has had a favorable effect on the clinical course of acute pneumonias, accelerating the terms of pneumonia resolution and promoting and earlier and more complete restoration of the blood stream and normalization of the hemostasis [6]. Blue laser light of different wavelengths has been reported to have positive effects on our immune system. It can be used for anti-microbial photodynamic therapy (for bacterial, viral, and parasitic diseases) [7,8]. Given all of the above, low-power lasers can be effective in reducing Covid19 virus infection and also in immunizing the body's cells. Therefore, we can answer our hypothesis that low power lasers are a safe way to improve patients with Covid19.

## References

1. (2020) WHO Coronavirus Disease (COVID-19) Dashboard.
2. Lodish H, Berk A, Zipursky SL, Matsudaira P, Baltimore D, et al. (2000) Molecular Cell Biology, 4<sup>th</sup> (Ed.). New York.
3. Momenzadeh S, Abbasi M, Ebadifar A, Aryani M, Bayrami J, et al. (2015) The Intravenous Laser Blood Irradiation in Chronic Pain and Fibromyalgia. J Lasers Med Sci 6(1): 6-9.
4. Rindge D (2005) Laser Acupuncture and Respiratory Disease. Acupuncture Today 6(2): 1-5.
5. Lutař AV, Egorova LA, Shutemova EA (2001) Laser therapy of elderly patients with pneumonia. Clinical Trial 3: 15-18.

6. Korochkin IM, Platonova TK, Kapustina GM, Belov AM, Alekseeva OG (1989) Intravenous laser therapy in multimodal treatment of acute pneumonia Sov Med 7: 22-26.
7. Razzaghi MD, Kamani E (2020) Role Low-Power Blue Laser With a Wavelength of 405 Nm in Increasing the Level of Nitric Oxide in Increasing the Resistance of Cells to the Virus (COVID-19) and its Effect on Virus (COVID-19) Mortality in Vitro. OSP J Case Rep 2(3): 1-3.
8. Kamani E, Razzaghi M (2020) Application of laser blue light with a wavelength of 405 nm in the treatment of patients with the virus COVID-19. J Lasers Med Sci 11(4): 361-362.

