



Low Level Laser Therapy & PNEUMONIA clinical research

Degree of endogenous intoxication in children with acute pneumonia in the presence of hypotrophy

[Article in Ukrainian] **Gafarova FM, Abduzhabbarova ZM**. Children with acute pneumonia in the presence of hypotrophy derive no benefit from conventional therapy, with no change for the better being noted in the degree of endogenous intoxication. Endotoxemia has been shown to be alleviated by endovascular laser irradiation of blood included in the complex of therapeutic means of remediation used in acute pneumonia against the background of hypotrophy, which fact permits reducing the volume of medicamentous therapy. The above treatment option has also been found to exert a beneficial effect on the course of the illness.

Lik Sprava. 2002 Jul-Sep;(5-6):36-9.

Parameters of membrane permeability, microcirculation, external respiration, and trace element levels in the drug-laser treatment of pneumonia

[Article in Russian] **Amirov NB**.

AIM: To study effects of laser therapy in combined treatment of pneumonia on external respiration function, membrane permeability, microcirculation and serum trace elements.

MATERIAL AND METHODS: 142 pneumonia patients were randomly divided into two groups: 96 patients treated with drugs and laser radiation (the study group) and 46 patients treated with drugs only (control group).

RESULTS: In the study group there was more pronounced reduction in cell membrane permeability, a rise in concentrations of iron and chromium in the blood serum, improvement of microcirculation. These changes closely correlated with those in immunity, external respiration function.

CONCLUSION: Laser therapy is an effective method of pneumonia treatment and can be included in relevant combined schemes.

Vopr Kurortol Fizioter Lech Fiz Kult. 2001 May-Jun;(3):15-8.

LOW-LEVEL LASER THERAPY IN PATIENTS WITH PNEUMONIA

Kustova N.L., Yemelyanova L.A. Urals State Medical Academy, Yekaterinburg, Russia
We compared the effectiveness of complex treatment including transcutaneous low-level laser radiation of chest by He-Ne laser /66 patients/, AsGa laser/68 patients/, magnetlaser therapy/66 patients/ and decimeter-wave therapy /62 patients/. We used individual laser radiation dosing method according to V.M. Lisienko and R.I Mintz / 1987/. All three types of laser therapy have beneficial influence on inflammation process in patients with pneumonia, having positive effects on laboratory and rentgenological symptoms. After such treatment patients recover two times faster, especially after infrared laser radiation or its combination with magnettherapy. Structural optical serum properties evaluation with the help of polarization microscopy and refractometry methods showed that there are many liquid crystals of different types in the beginning of pneumonia. There is feedback between serum refraction index and severity of pneumonia, existence of complications. After treatment serum refraction index average values returned to normal in all four groups of patients. Laser therapy improves immune status of patients. Magnetlasertherapy and infra-red laser radiation are the most effective, including cases of lingering disease. Individual laser radiation dosage stimulates phagocytosis. According to the above-mentioned complex treatment of pneumonia can include low-level laser radiation.

Vopr Kurortol Fizioter Lech Fiz Kult. 1995 May-Jun;(3):12-4.

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