

USE OF EXOGENOUS NITROGEN OXIDE (NO) IN TREATMENT OF PATIENTS WITH UPPER AIRWAYS DISEASES

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Inflammatory upper airways diseases play an important role among the pathological conditions of respiratory tract. Therefore, it is an urgent problem nowadays to search the new methods of treatment.

In our clinic we used nitric oxide gas flow (NOCGF) in the treatment of patients with inflammatory upper airways diseases. Nitric oxide was obtained from the atmospheric air with the help of the medical air plasma device "PLASON".

The efficiency of NO-therapy is based on the antimicrobial action, anti-inflammatory effect, associated with the stimulation of macrophage activity, induction of cytokines, immunoglobulins, influence on the microcirculation etc, thus NO influences the inflammatory process in the whole.

We applied this method in treatment of patients with different upper airways diseases including chronic sinusitis, chronic tonsillitis, chronic pharyngitis, paratonsillitis, paratonsillar abscess. Some patients got NO-therapy perioperative or in early postoperative period to activate the regeneration process and to prevent complications.

We worked out the treatment methods and estimated the efficiency of NO-therapy. As the result the effectiveness of NO-therapy was proved with the objective methods. Absolute contraindications were not found.

Carried out investigations showed the reasonability of NO-therapy in treatment of inflammatory upper airways diseases.