

THE USE OF OZONE THERAPY IN CHRONIC PURULENT MESOTYMPANITIS.

V. Shakhov,
The Medical Academy of Nizhni Novgorod, Russia.

A.

Edeleva.

Conventional therapy of chronic purulent otitis media has been actual for a number of years. It is mainly aimed a control of inflammatory process in otitis media in chronic mesotympanitis, accompanied by marked mucositis. The existence of numerous methods of mucosites treatment proves these techniques to be of insufficient efficiency. Ozone is known to produce a marked effect on cellular metabolism when it is used in definite concentrations. It contributes to the elimination of intracellular hypoxia, activation of carbonic, fat and protein exchange, bringing synthetically, regenerative and secretory functions of epithelial cell to normal level. Definite ozone concentrations produce bactericidal effect which is of no less importance in the course of chronic inflammatory process. We have developed an ozone therapy technique in controlling chronic mucositis of otitis media, based on ozone/oxygen irrigation of tympanic membrane and auditory tube mucous. 40 patients underwent a course of treatment that consisted of 7-10 daily procedures. Control group of 10 patients was on a conventional therapy. The results demonstrated that ozone therapy have no negative effect on internal ear or labyrinth function, even in prolonged applications of high ozone concentrations effecting mucous membrane of medial wall. Clinical effect was observed in inflammation control of mucous membrane, discharge reduction and restoration of auditory tube function. The use of ozone therapy in combination with complex therapy of chronic purulent mesotympanitis shortens the period of hospitalization. The developed method can be recommended as a stage during the preoperation preparation for myringoplasty.