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ON THE ISSUE OF USING OZONE THERAPY IN MEDICINE

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ABSTRACT

This article discusses which medical professionals use ozone therapy. As it can be seen from the article, the first scientists who used ozone therapy were German scientists, and then gradually scientists from Ukraine, Russia and Central Asia also started using it.

KEYWORDS

Ozone in the treatment of laryngitis, medicine, therapeutic remedy, treatment of arachnoiditis.

INTRODUCTION

In the last 2 centuries, the usage of ozone in medicine has successfully started. The use of ozone therapy as a remedy was first reported in the XIX century in Germany. The German scientist Schonbein (1848)

reported the use of ozone for the treatment of patients with pulmonary tuberculosis by inhaling ozone. After that there were numerous reports of the use of ozone in various diseases in the ENT organs,

skin, surgery. Another German scientist E. Payr reported the result of treating the purulent meningitis by endolumbar insufflation of ozone in 1935. At the same time the author emphasizes the high bactericidal effect of the input ozone. In the former USSR ozone began to be used as a therapeutic remedy since the 50s of the last century (Vetokhin. I.A. 1959, 1963). They used ozone in the treatment of laryngitis, pharyngitis and tonsillitis. They have developed a special technique for obtaining ozone using the Darsonval device. In the medical practice of neurosurgery ozone is used as a therapeutic remedy since the 70s of the last century (Madyarov. S.D. 1972, Bolgaev. A.B. Mamadaliyev 1977, 1984). We used ozone for the treatment of arachnoiditis of the brain of traumatic etiology by endolumbar injection. Ozone was obtained according to our Bolgaev method. A.B. In 1977 device adaptations for endolumbar gas injection. According to Razumovsky. S.D in 1974, ozone in high concentration has a detrimental effect on tissues. This property of ozone is used in the treatment of cancer. For checking the formation of ozone Vetokhin. I.A. 1959 proposed iodine-a starch strip of filtered paper that turns blue in the presence of ozone concentration in the air with above 1% ozone-oxygen mixture. Ozone was administered for diseases of the brain in a sitting position. And with diseases of the spinal cord in a supine position. We conducted endolumbar ozone insufflation in 60 patients with cerebral arachnoiditis, in patients with spinal cord injury. Experimental studies in 30 rabbits. Our medical and experimental studies have shown that ozone as a therapeutic agent has already justified itself. At the present stage, ozone therapy is successfully used in traumatology, neurosurgery, diseases of ENT organs, surgery, therapy (Bolgaev. A.B 1977, 1990, 1998, 2003, 2010, 2015, Apsattarov. E.A 1994, Groshcheva. S.A 1997, Sharmukhammedov 1997). Let's focus on a specific example of the use of ozone in surgical practice. The

big interest is the work of A.A. Apsattarov devoted to the treatment of acute purulent cholangitis with an ozone-oxygen mixture. The treatment of acute purulent cholangitis for use in 47 patients. All patients during endoscopic manipulations or intraoperatively were injected through the biliary system with ozone-oxygen mixture (20-30 ml). The obtained results showed that the use of ozone-oxygen mixture for choledacho sanitation, both during endoscopic manipulations and during surgery, allows for the relief of acute purulent cholangitis in a short time (2-3 days) without antibacterial therapy. The general condition of patients improves, jaundice disappears. This allowed 26 patients (55%), to avoid cavity, 5 (11%) are extracted from the relief of cholangitis before surgery, and intraoperative sanitation. Performed in the remaining 16 patients (34%) observed, reduced the risk after surgical studies. Groshcheva. S.A. wrote the results of treatment by ozone therapy in the complex treatment of trophic ulcers, panaracies in 1997. Today ozone therapy is actively being introduced into the practice of internal diseases. The discovery of *Helicobacter pylori* served as the basis for the revision of previous ideas about the etiology, pathogenesis and methods of diagnosis and treatment of gastric ulcer and duodenal ulcer, as well as chronic gastroduodenitis. The bactericidal effect of ozone was the basis for the use of ozonated distilled water. In the treatment of peptic ulcer disease associated with *Helicobacter pylori* as one of the bactericidal remedies. Muldaeva. G.M. 1997 using ozonated distilled water in combination with histamine H-receptor blockers and antibiotics for the treatment of 130 patients with gastric ulcer and 12 duodenal ulcer achieved good results. With such a combination of therapeutic remedies, the author managed to stop the pain syndrome of dyspeptic phenomena in a shorter time. A high degree of erosion of *Helicobacter pylori* gastroduodenal mucosa was achieved the terms of epithelization of the ulcerative

defect were clarified. The author has established the economic efficiency of this method of treatment of gastric ulcer and duodenal ulcer and recommended practical activity by a therapist. Today, ozone therapy is widely introduced into the practice of obstetricians and gynecologists, for the treatment of inflammatory diseases of the uterus and its appendages. Thus, ozone therapy is increasingly used in practical medicine. The next step is to developed the optimal concentration of the ozone-oxygen mixture. For the treatment of various diseases and injuries of the human body.

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