MAJOR AUTOHAEMOTHERAPY AND OTHER METHODS USED IN OZONE THERAPY

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Introduction

• The presented materials were received in the Centre of Ozone Therapy (the city of Nizhny Novgorod) and Department of Ozone Therapy of Nizhny Novgorod State Medical Academy that for the last 10 years have been involved in the study of therapeutic procedures, patients’ management and post-graduate special training of doctors from Russia and other countries providing help in getting the necessary equipment.
Materials and Methods

• Every year about 1000 patients undergo a course of treatment in the Centre of Ozone Therapy equipped with 8 ozone generators (“Kvazar”-ozonators, manufactured in Russia) that make it possible to carry out nearly all the known procedures using various methods of Ozone Therapy.
• Every year we perform
• - more than 1000 procedures of major autohaemotherapy;
• - more than 2000 drip phleboclysis of ozonated saline;
• - more than 700 rectal insufflations of ozone/oxygen mixtures;
• - about 200 procedures of minor autohemotherapy;
• - about 500 procedures of external gazation in plastic bags;
• - about 8000 subcutaneous and intracutaneous injections of ozone/oxygen mixtures.
Major Autohaemotherapy

• The procedures of **major autohaemotherapy** are done according to traditionally accepted method. Plastic container is filled with 50ml of saline with 0,25 ml of heparin, to prevent blood coagulation and improve its flow property, and then with 100ml of venous blood. After that the blood is saturated with ozone/oxygen mixture and sent back to venous bloodstream.

• Russian Medical Regulation Act does not require the medical personnel to have special training in transfusiology, for a doctor deals with patient’s auto blood which excludes the possibility of any complications that might occur when dealing with the transfusion of donor’s blood.

• To facilitate the procedure of Major Autohemotherapy in our practice we use a roll-type peristaltic pump with microprocessor monitoring system making it possible to pump the blood and send it back to venous bloodstream. The pump is designed to regulate the blood-flow rate and is equipped with the safety system which prevents the possibility of air getting into the vein during the reinfusion with ozonized blood.
Procedure of Major Autohaemotherapy
Drip Phleboclysis of Ozonated Saline

- However in Russia an alternative method to Major Autohemotherapy has become widely spread and more popular. It is known as **drip phleboclysis of ozonated saline**. The method is simple to use. Sterile saline on being barbotaged with ozone/oxygen mixture in a flask is to be infused intravenously. (The detailed description is presented in the manual “Ozone Therapy in Practice” - [www.ozonmed.ru](http://www.ozonmed.ru)). The method proved to be quite efficient and is performed with very low ozone concentrations (1-3mg/l) and doses (50-600mcg)

- Any assumptions that sodium hypochloride is formed on ozonizing the saline were found to be irrelevant. There were carried 3 special trials which revealed the amount of hypochloride to be too insignificant to produce any influence on human body.
Treatment Results for Drip Phleboclysis of Ozonated Saline

• To show the efficiency of ozonated saline we present the results of treatment of the most common diseases in the table in the next slide (50% symptoms decrease was regarded as reliable improvement)
## Treatment Results for Drip Phleboclysis of Ozonated Saline

<table>
<thead>
<tr>
<th>Pathology</th>
<th>Number of patients</th>
<th>Reliable improvement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ischemic heart disease</td>
<td>180</td>
<td>91 %</td>
</tr>
<tr>
<td>Discirculartory encephalopathy</td>
<td>78</td>
<td>92 %</td>
</tr>
<tr>
<td>Atherosclerosis obliterans of lower limbs vessels</td>
<td>129</td>
<td>96 %</td>
</tr>
<tr>
<td>Chronic gastritis</td>
<td>101</td>
<td>95 %</td>
</tr>
<tr>
<td>Ulcer</td>
<td>69</td>
<td>95 %</td>
</tr>
<tr>
<td>Osteoarthrosis deformans</td>
<td>108</td>
<td>88 %</td>
</tr>
<tr>
<td>Bronchial asthma</td>
<td>42</td>
<td>86 %</td>
</tr>
<tr>
<td>Secondary immunodeficiency disease</td>
<td>44</td>
<td>84 %</td>
</tr>
<tr>
<td>Diabetes mellitus</td>
<td>90</td>
<td>89 %</td>
</tr>
</tbody>
</table>
Subcutaneous Injections of Ozone/Oxygen Mixtures

• Subcutaneous injections of ozone/oxygen mixtures can be used in different cases

• First of all, as a variant of acupuncture, where alongside with ozone therapy producing general immunomodulating effect, ozone/oxygen mixture is injected into biologically active points, that significantly increase the effect of treatment.

• Below we present the schemes to use biologically active points, proved to be very efficient in the treatment of bronchial asthma and diseases of gastro-intestinal tract.
Points for Subcutaneous Injections

Bronchial Spasm Control

Prevention Of Bronchial Spasm
Points for Subcutaneous Injections

- Chronic gastritis and ulcer
- Chronic cholecystitis
- Chronic pancreatitis
Subcutaneous Injections of Ozone/Oxygen Mixtures in Cosmetology

- Thirdly, ozone/oxygen mixture is used subcutaneously in cosmetology to treat cellulitis, extensive problem zones being injected with up to 2,5 - 3,0 l of gas.
- Intracutaneous injections of gas mixtures are successfully used to get rid of the wrinkles and improvement of eldering skin.
External Gazation with Ozone/Oxygen Mixture

- External gazation with ozone/oxygen mixture in plastic bags is commonly used in the treatment of purulent wounds, burns and long healing trophic ulcers. However, this procedure is used in obliterating lesions of lower limbs without evident ulcers. Oxygen was found to penetrate intact skin and decrease tissue hypoxia responsible for the disease severity.
- The procedure of external gazation with ozone/oxygen mixture in plastic bags is carried in addition to major autohemotherapy or drip phleboclysis of ozonated saline that saves the time of the treatment procedure.
External Gazation with Ozone/Oxygen Mixture

• Special panama-hats are used in the treatment of the hair-covered part of the head as it is shown in the figure.
External Gazation In Otolaryngology

• The procedures of external gazation are effectively used in otolaryngology, being easy to perform and giving efficient result.

• In cases of otopyosis or fungal otitis the procedure of external gazation is done with the use of ordinary ear-stick with cotton tip. Before the procedure the ear canal is to be sanated with damp cotton plug. Then an ear stick is taken, a cotton tip is to be wet, and inserted into the ear. A needle with 10ml syringe is inserted into another tip and ozone/oxygen mixture, ozone concentration being 5-7mg/l is slowly introduced into the ear duct as shown in the picture in the next slide. The procedure is to be done every day up to 5-8 times.
External Gazation of Otitis
External Gazation of Sinusitis

• In cases of sinusitis gazation with ozone/oxygen mixture is performed in the following way. The nasal cavity is washed with distilled water or physiological solution by using a syringe. Then two 10ml syringed are filled with ozone/oxygen mixture, ozone concentration being 10mg/l. Patient is asked to make a deep inhale and hold up the breathing so that the gas mixture does not get into respiratory ducts. Then ozone/oxygen mixture from two syringes is intensively pushed trough the nostrils (as shown in the picture in the next slide) and then the patient quickly closes the nostrils with fingers for 10 seconds upon which exhales through the nose and the mouth. The number of daily procedures is to be from 5 to 10.

• It is advisable to teach your patients to inhale and exhale correctly and have a few training procedures without ozone/oxygen mixture before you start the treatment procedures.
External Gazation Of Sinusitis
Russian Ozone Generator “Kvazar”

- All the presented procedures are done with the use “Kvazar” ozone generator, manufactured in Russia and designed to meet all the requirements of specialists involved in ozone therapy and to perform all the procedures known in the world in this field of medicine. It is easy to work with and can be used as a portable for its dimensions are 30-30-40 cm and it weighs 6,5kg
- Ozone generator “Kvazar” is certified for use in the European countries the and is ☼ marked.
- It is delivered together with Ozone Therapy Room Kit including with 5mm medical tube (length-10m), rectal insufflation nozzle-adaptors- 20, 3-tip attachment, nozzle-lid for water ozonizing containers -1, Syringe-distributor nozzle -1, plastic bags for external gazation -3, needle to ozonize the solutions – 6, sterile plastic containers for major autohemotherapy – 20.
Ozone Generator “Kvazar”
• Thank you for your attention