A new approach to detoxification and drainage of the extracellular matrix with toxic loads among residents of large cities

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Relevance

Environmental pollution by global ecotoxicants, primarily persistent organic compounds and the association of heavy metals, is of particular importance due to their unfavorable long-term medical and biological consequences (WHO, 2006). Bioaccumulation of such substances leads to a toxic load and can cause a variety of physical and mental disorders in the human body. In minimal concentrations, toxic elements have a destructive capacity in relation to individual tissues, with the development of degenerative-structural changes in them. Many chronic diseases, decreased immunity and disturbances in neuro-endocrine and autonomic regulation correlate with general toxic load. The majority of the population who consider themselves "healthy" long before the formation of various nosologies, there is a toxic load in the body. In large cities, various toxicants enter the body every day through the air saturated with industrial waste and exhaust gases from cars, poor-quality drinking water and food products that can be genetically modified, contain pesticides, preservatives, stabilizers, flavors, flavor enhancers and other achievements of modern civilization. Modern medicine with a developed pharmaceutical base becomes an unwitting accomplice of endoecological pollution of the human body. The abundance of drugs prescribed by doctors, the latest diagnostic and therapeutic techniques using various radiation (laser, radioactive, electromagnetic, infrared, etc.)) without taking into account the adaptation resources of a particular patient lead to a sharp increase in xenobial load. Once in the body, toxicants enter the blood, intercellular fluid, then into the cell, affecting their cell membranes and other structures. Inactivation of toxic substances in the body is carried out in the liver due to many processes of binding of toxicants with proteins and enzymes, substances of cell membranes, as well as oxidation or reduction with their conversion to the hydroxyl form and subsequent elimination. With an increasing xenobial load, the detoxification function of the liver dries up over time, while some of the toxins are deposited in certain tissues or organs in an unchanged or partially altered form. Moreover,

It should be noted that endotoxins are metabolized using the same processes as exotoxins, and under toxic load, they can begin to accumulate in the extracellular matrix, which forms the final

biophysical layer between cells and regulatory organs. Cells do not come into contact with blood vessels, nerves, veins, or lymphatic vessels, which deliver nutrients, signaling molecules, and remove toxins. Nutrients come from the capillaries to the loose connective tissue through the Krogh's cylinder, which is a transit area passing through the matrix, the lumen of which is controlled metabolically: the pH of the environment, the partial composition of carbon dioxide, etc. Moreover, the matrix is a unified system of instant information transfer throughout the body. At the same time, chronic stress can disrupt the processes of matrix renewal and promote the accumulation of toxins in it, since cortisol plays an important role in the metabolism and final detoxification of the extracellular matrix. Disintegration of many functions of the body as a biologically integral system can be caused by various endo- and exotoxins. Consequently, the problem of accelerated drainage of toxic substances from the body is most acute in modern large cities.

One of the most important detoxification and drainage systems in the human body is the lymphatic, the main function of which is to remove substances from the intercellular space that are not absorbed in the blood capillaries. Collecting excess fluid and decay products from the intercellular space, the lymph delivers them to the lymph nodes, of which there are 600-800 in the human body. In the lymph nodes, the fluid is purified from toxins, pathogens, cellular decay products and metabolism, and foreign substances. It is in the lymph nodes that "analysis" takes place and dynamic processes in the biosystem are directly or indirectly regulated. However, it should be borne in mind that the lymphatic system begins to work with overload when the viscosity and density of the extracellular fluid changes, when it is like a gel,

The aim of our study was to develop a new approach to reducingtoxic load of the population of the megalopolis due to the accelerated elimination of poisons from the body.

Materials and methods

We examined 26 patients of both sexes at the age from 5 to 65 years, who applied to our center with various diseases, who were diagnosed by the method of vegetative resonance test on the device "MINI-EXPERT-DT" with the drug selector "IMEDIS-BRT-PC" and software.

Research results

The ART method was used to determine the type of intoxication (chemical, microbial-parasitic, etc.) using preparations of the ONOM Dis series (3, 5, 7, 9, 10, 11, 16). The degree of toxicity was assessed by layer-by-layer testing (Platinum met. D60-400). Psychovegetative, endocrine loads, lymphatic burden, the state of enzyme systems, microelement homeostasis and

acid-base balance of tissues. The etiology of the pathological process was clarified using a test indicator (Intox 1), followed by filtration through it of the main toxicants and nosodes of some pathogens. Extremely valuable information was obtained from biological indices, of which there were 4-5 in each patient.

It should be noted that in all cases of the study there was a psychovegetative complication, the severity of which corresponded to 2-4 a.u., a violation of the acid-base balance towards acidification and a substantial toxic burden with a blockade of the mesenchyme of 1-3 degrees and its sublayers, lymphatic burden and stress of the endocrine system of 1-2 degrees. In 68% of cases, microbial and parasitic loads were tested.

To regulate the acid-base balance in the tissues, structured alkaline water was used, which was obtained from a Dion BLUE dispenser (manufacturer: ALLS BON KOREA CO, LTD). The proposed approach is based on the ability of structured alkaline water to penetrate into the cell through the "slagged" gel-like matrix due to the redox potential at the initial stages - 70-200 mV, which allowed the acidified organism to transfer to the mode of altered metabolism and mobilize the energy resource of the cell with its restoration. communication links. It is known that "living water" is a solution with enhanced electron-donor properties and, when it enters the body, normalizes metabolic processes (increases ATP synthesis, changes enzyme activity), stimulates tissue regeneration (increases DNA synthesis,

To reduce psycho-vegetative loads, Bach essences were used, the drainage of toxic compounds was carried out with detox preparations: Lymphomyosot, Nux-Vomica Gomaccord and Berberis Gomaccord ("Heel").

The effectiveness of therapy in terms of the degree of cleansing of the matrix, biological indices, other indicators of ART and subjective assessment of patients. The matrix began to clear within 6–8 days from the start of treatment, while in the proposed methods, detoxification and drainage of toxic compounds take much longer.

Conclusion. Thus, the use of structured alkaline waterwith a detox complex leads to the normalization of the acid-base balance, accelerates the detoxification of the matrix, triggers natural lymphatic drainage and the elimination of toxins.

Literature

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