

## Pathogenetic Aspects of the Effect of Water with a High Chemical Content

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**Abstract:** High chemical compositional groundwater pathogenesis to the organism chemical of substances directly and indirectly effect with explained. Water contained chemical compounds blood vein to the walls and whole organs in the parenchyma accumulation and substances exchange directly and indirectly effect with depend Damaged in this physico -chemical in cells of processes violation with will pass In this cell membrane conductivity increases or subsides.

**Keywords:** Water radiolysis, atomic hydrogen, hydroperoxyl radicals, hydrogen peroxide, disulfide compounds, macrophytes.

Among external influences, one of the most common influences in modern times is drinking water with different composition. It has been proven that excessive amounts of salts, macro and micro elements, chemical and biological composition of water have a negative effect on the organs and systems of the body. Morpho-functional changes in the kidney as a result of groundwater consumption is a pathological condition of the organism, caused by the influence of doses of chemical elements and compounds higher than the maximum allowed standards. Changes in the body under the influence of high chemical content water consumption, including the morphological characteristics of organs, and the development of treatment and preventive measures to reduce the impact of groundwater with a high chemical content have not lost their relevance.

Researchers-scientists of today's leading scientific centers in the world have determined the maximum doses of exposure to the body of underground waters with a high chemical content, the duration of their irreversible and irreversible pathological processes in the body, the level of influence of underground waters with a high chemical content on the body and organs, purifying water for consumption. those who conducted research and published their results on the production and use of tools. In addition, groundwater with a high chemical content causes morpho-functional changes in the kidney.

It consists of studying the morpho-functional changes in the kidney as a result of groundwater consumption and the effect of bioactive supplements (in the case of Bukhara region).

Among the sources of water pollution, the most important place is occupied by industrial and household waste water. These wastewaters contain various acids, phenols, hydrogen sulfate, ammonia, copper, zinc, mercury, cyanide, arsenic, chromium and other toxic substances, oil, petroleum products, which are dangerous for living organisms, together with the wastewater used in industrial enterprises. joining rivers, lakes and reservoirs and polluting them. One of the factors of fulfilling these tasks, i.e. preventing the pollution of water resources and providing the population with clean drinking water, is the economical use of water resources, the reduction of used water and the improvement of water resources protection measures. Another of these issues is that it is allowed to discharge wastewater into the water body only on the condition that the pollutant content of the water body does not exceed the established standards and that the water user delivers and cleans such wastewater to the level determined by the nature protection and sanitary control authorities.

These wastewaters contain acids, phenols, hydrogen sulfate, ammonia, heavy metals, and other toxic substances that are harmful to humans and other living organisms. is polluting. In addition to high chemical substances, river waters are also polluted by sewage from livestock farms. Manure from livestock farms dissolves due to wastewater, which is added to the water of rivers, streams and lakes.

As a result of the chemicalization of agriculture, a lot of mineral fertilizers are applied to the land and toxic chemicals are used against pests. As a result, when nitrogen and phosphorus compounds accumulate in water bodies, algae grow and develop very quickly. Due to the increase in biomass in the water, 10 oxygen is consumed a lot. This worsens the conditions for fish and other aquatic animals to live.

During human life, many harmful and unnecessary products of metabolism are formed. These products are not used by tissue cells and must be removed from the body. In addition, the body should be free from various harmful substances, foreign substances, medicinal substances, organic substances, excess water and salts. Man release in processes kidneys , lungs , skin , digestion system , livers participation is enough Chikaruv of members main The function of the body is internal environment turgor permanence from providing consists of Subtraction members are always each other with organic connected being , of one activity violation another subtraction of the body activity to the violation reason will be

As a result of consumption of groundwater, various pathomorphological changes in the kidney of experimental animals are recorded in 66.7-86.7% of cases, and such negative changes, even if the level and intensity are low, are observed under the influence of consumption of groundwater, they are proven to indicate the development of diseases in the kidney. the importance of diagnosis and treatment in storage is indicated;

Pathological morphological changes of different intensities observed in the kidney of laboratory animals as a result of groundwater consumption are accompanied by pathophysiological signs such as fullness, edema, hemolysis, plasmatic coagulation. are recommended as morphological prognostic criteria for identification;

The third stage is the preparation of histological blocks. A microtome was used to prepare the blocks. The obtained paraffin slices were attached to a slide smeared with a mixture of protein and glycerol (1:1 ratio) and dried in a thermostat at 37°C, thus preparing for the next step.

The fourth stage is painting and cutting. The blocks were stained, and the organ structure was clearly observed under a Chinese-made HL-19 trinocular microscope with software, designed for observing biological micro-objects, and based on the unequal chemical composition of the tissue structures. Traditional dyes used for the preparation of a large number of histological preparations were used for staining.

The intensity of functional changes in the kidney among patients who took the biologically active supplement "Lemon water" as a preventive biocorrection to prevent changes in the kidney after drinking groundwater was lower than in patients who did not take this biopreparation. Prophylactic biocorrection affected the level and intensity of functional changes in the kidney among patients, and there is a practical difference with the contingent of patients who did not receive this biopreparation .

1. Jumaeva.A.A., Nurov.A.S. HYGIENIC PRINCIPLES OF FEEDING CHILDREN AND ADOLESCENTS // Central Asian Academic Journal of Scientific Research, (2022).-P. 258-263.
2. Nurov.A.S. STRATEGIES AND APPROACHES TO REACH OUT-OF-SCHOOL CHILDREN AND ADOLESCENTS // EUROPEAN JOURNAL OF MODERN MEDICINE AND PRACTICE(2023/3/30).-P. 56-58
3. Nurov.A.S. Key Considerations for Assessing School Food Environments// AMALIY VA TIBBIYOT FANLARI ILMIY JURNALI, (2023/3/30).-P. 85-87
4. Nurov.A.S. Disruption of Natural Systems Affects Health // AMALIY VA TIBBIYOT FANLARI ILMIY JURNALI, (2022/11/15).-P. 258-260
5. Nurov.A.S. The Importance of Ecology for Children's Health and Well-Being // AMALIY VA TIBBIYOT FANLARI ILMIY JURNALI, (2022/11/15).-P. 238-240

6. Nurov.A.S. CHANGES IN TASTE AND FOOD INTAKE DURING THE MENSTRUAL CYCLE // *Science and innovation*, (2022).-P. 251-253
7. Nurov.A.S. Causes of Rational Eating Disorders in Children and Adolescents // *AMERICAN Journal of Pediatric Medicine and Health Sciences*. *AMERICAN Journal of Pediatric Medicine and Health Sciences*, (2023).-P.236-239
8. Nurov.A.S. Current Problems in Providing the Population with Clean Drinking Water // *AMERICAN Journal of Pediatric Medicine and Health Sciences*. *AMERICAN Journal of Pediatric Medicine and Health Sciences*, (2023).-P.240-242
9. Nurov.A.S. The Role of Water in the Spread of Infectious and Non-Infectious Diseases // *AMERICAN Journal of Pediatric Medicine and Health Sciences*. *AMERICAN Journal of Pediatric Medicine and Health Sciences*, (2023).-P.243-245
10. Nurov.A.S. Existing Problems in Providing the Population With Drinking Water Through Underground Water Sources // *AMALIY VA TIBBIYOT FANLARI ILMIY JURNALI*, (2023).-P.77-79
11. Nurov.A.S. Cleaning of Open Water Bodies From Waste Water From Production Enterprises // *AMALIY VA TIBBIYOT FANLARI ILMIY JURNALI*, (2023).-P.80-82
12. Nurov.A.S. Sanitary Protection of Water Bodies and The Process of Natural Cleaning in Water Bodies// *AMALIY VA TIBBIYOT FANLARI ILMIY JURNALI*, (2023).-P.83-85