

## **Bactericidal and anti-inflammation characteristics of preparation “Unimag”**

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In spite of numerous methods and remedies, treatment of pyo-septic processes remains problematic, that calls for an urgency of research of new effective remedies in this direction.

Offered by us Preparation “Unimag” represents magnetic fluid, stable suspension of high disperse magnetite. High disperse magnetite particles are spherical form, 10-15 nanometers in size, X-Ray contrast and magnet-sensitive.

Unimag is registered by pharmacological committee of Georgia as the bactericidal and anti-inflammation preparation for the external use and the lavage of different cavities for treating pyo-septic processes with difference etiology and location.

Investigations showed that Unimag is characterized by bactericidal and bacteriostatic activity, adsorbs and blocks the toxic components as metabolic as bacterial origin, increases the functional activity of micro-and macrophages.

Unimag decreases the quantity of pathogenic microbes in the area of pathology, increases their sensitivity to the different antibacterial preparations. Morphological investigations showed, that magnetite adsorbs on the surface of tissue at the lesion places (Fig. 1), and hinders the penetration of infection depth of tissue. Unimag decreases the concentration of pro-inflammatory

cytokines in the blood serum and increases the processes of proliferation.

All above mentioned determine the efficiency of preparation Unimag in treating of pyo-septic processes of difference etiology and location.

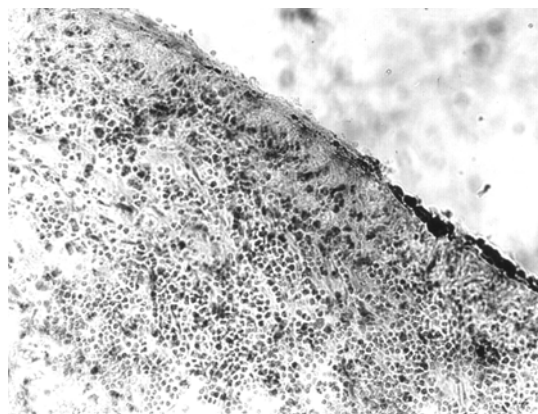


Figure 1: High disperse magnetite particles on the surface of inflamed tissue. Light microscopy x 300, H&E