

NONSPECIFIC CELLULAR RESISTANCE DISORDERS  
INDUCED BY LOW DOSES OF RADIATION

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Some integral proofs of nonspecific cellular resistance was studied at liquidators of the consequences of Chernobyl AES crash 4-4,5 years ago radiation influence in doses 20-25 rem. The share of blood mononuclears with viral inclusion bodies and degree of its viral affect, metabolic and phagocytic monocyte activity in NBT-test (L. Filyov et al., 1985) were appraised. Lysosomal-cationic test was used for the revealing of functional state of granulocytes.

It was established that at all patients influenced by low doses of radiation there were increased proofs of viral affect of mononuclears in comparison with control group of healthy donors. At the same time most liquidators had functional defects of monocytes and granulocytes.

Consequently, there may occur nonspecific (antiviral) cellular resistance disorders under the influence of radiation low doses which in its turn may lead to development, unfavourable course, chronization of infection diseases, forming of immunocomplex pathology, neoplastic processes. The perspective way of prophylaxis radiation low doses induced unfavourable consequences is the correction of nonspecific cellular resistance disorders (Olifen, Interlock).