

JOINT EVENT ON

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Metabolic competition the tumor-tumor bearing: using the amino acids at doses comparable to their physiological levels**P Karavay¹ and L Nefyodov²**¹Grodno State Medical University, Belarus²Hrodna State University, Belarus

On the basis of the experimental data, we suggest that the differences discovered in certain amino acid concentrations in blood plasma, red blood cells and tumors are criteria in early diagnostics of primary cancerous growth as well as in estimation of the efficacy of specific cancer treatment. Clinical studies on biological fluids and tumors of 1,495 patients with cancer of the mammary gland, lungs, prostate, ovaries, bladder or digestive tract showed significant changes in physiological concentrations of amino acids which either directly or indirectly regulate processes of antitumor response, oncogenesis, immunogenesis and apoptosis were shown. Our strategy of application of amino acids as medicinal preparations includes a targeted effect on the functional and metabolic relationships which are changed in specific pathology through the effect on the regulatory mechanisms of intermediate metabolic reactions, limiting stages of metabolic flows, utilization of energy substrates and transport systems restricting the processes of amino acids pool formation. The creation methodology of pathogenetic compositions of amino acids and their derivatives on the basis of their physiological concentration for practical application of their regulatory effects in oncology was discussed.