Importance of Radiation Therapy in Multicomponent (Immunopolychemoradiotherapy) Treatment of Patients with Primary Mediastinal B-cell Large Lymphoma: the Review of the Literature and own Observations

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Abstract

For the first time there are represented data on the role of radiation therapy and positron-emission tomography with $^{18}$F-FDG (PET) in multicomponent immunochemo-radiation treatment of 30 patients with primary mediastinal B-cell large lymphoma (PMLCL) who were followed-up in one centre — Russian Research Centre for Radiology and Surgical Technologies during 2005–2012. It is stated that medicinal component of the treatment (immunochemotherapy by R-CHOP scheme) results in a complete remission only in 37.9% of patients. Radiation therapy given to all patients promotes more than twofold increase of complete remissions rate (uncertain complete); in irradiation twice a day no radiation pulmonitis revealed. PET assists to obtain more specific information concerning stages of the disease and improvement of the therapy effectiveness evaluation. Immunochemo-radiation therapy of patients with PMLCL is an effective therapeutic approach and gives good late results: 5-year survival rate and survival free of progression are 89.1 ± 7.5 and 93.3 ± 6.5% respectively. Radiation therapy is an important and necessary component of complex treatment of PMLCL patients.

Key words: Primary Mediastinal B-cell Large Lymphoma, Immunopolychemotherapy, Radiation Therapy.

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