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Cytokine spectrum of patients with osteosarcoma

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Background: To study the spectrum of patients with osteosarcoma.

Methods: 42 patients with histological, verified osteosarcoma were examined, who have been treated at National Cancer Center from 2009 to 2011, male patients predominated – 55.4%, female – 44.6%, correspondingly. Average of patients made up 19.5. For study serum concentration of cytokines was used test – systems of «Vector-Best», Novosibirsk, 2011. Studied cytokine spectrum was presented IL-1 β , TNF- α , IL-2, IL-6, IL-10 and VEGF.

Results: Serum concentration of IL-1 beta, TFN-alpha and IL-2 in the group of patients with osteosarcoma were increased in 2; 2.4 and 1.5 times correspondingly relative significance of control group. Investigations showed, that serum concentration of IL-1 and IL-6 were increased in 1.3 and 23 times correspondingly, than significance of control group (pConclusion: Thus, obtained data show significant changes in cytokine spectrum of patients' blood with osteosarcoma, which have important significance in forming and progressing of malignant process. Detected disbalance in the contents of main cytokine of immune system in patients with osteosarcoma serves important diagnostic and prognostic criteria in determination further treatment tactics in patients with osteosarcoma.

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