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## Replacement of large joints in treatment of bone tumors

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**Background:** the analysis of results endoprosthesis of large joints in treatment of tubular bones tumors.

**Material and methods:** the analysis of results of surgical treatment in 154 patients who have been carried out by endoprostheses of large joints. 149 patients were with primary tumors and 5 with metastatic lesions, average age was 25 years. Men were 91, women - 63. By localization of tumor: in 21 case there was a lesion of proximal part of thigh bone, in 70 – distal part of femoral, in 28 – proximal part of shin-bone and in 35 – proximal part of humeral bone. By morphological structure, in 48 patients is revealed osteosarcoma, in 28 – chondrosarcoma in 1 – paraostal sarcoma, in 1 - reticulosarcoma, in 1 – angiosarcoma, in 1 – sarcoma of Ewing, in 68 – giant cellular tumor, in 6 – metastatic lesion.

Length of bone resection was from 8 to 24 sm.

**Results.** The complications have appeared in 32 patients (20,7 %), from them in 18 infections of lodge in prosthesis, in 14 instability endo prostheses, in 4 cases these complications were combined. In 11 cases infectious complications were stopped conservatively. Crippling operations in 4 patients, re – endoprostheses in-2, endoprosthesectomy with imposition of compression-destruction osteosynthesis in 1 patient are performed.

The reason of instability in 5 cases was loosing of endoptostheses legs in the marrowy channel, in 7 - destruction of design, in 1- reduction of construction (screw of articulated part), in 1- dislocations of the head of coxal prostheses. In 5 patients crippling operations, in 7 cases reendoptostheses, in 2 – reconstruction of endoprostheses are performed. A functional condition by scale MSTS: a knee joint - 76 % after resection of proximal part of shin bone and 91 % after resection of distal part of thigh bone, humeral joint - 75 %, coxal - 84 %.

**Conclusion.** Endoprostheses of large joints is an ideal and reliable method in surgical treatment of bone tumor provides the local control and allows receiving satisfactory functional results.

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