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## Assection of neoadjuvant chemotherapy on volume surgical intervention in osteosarcoma of lower extremity

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**Background.** To estimate efficiency of neoadjuvant chemotherapy and its influence on volume of surgical intervention in osteosarcoma of lower extremity.

**Material and methods.** Treatment results of 122 patients with osteogenic sarcoma of tubular bones of lower extremity were studied. 34 patients (I group) are carried out system introduction antitumor preparations cyclophosphan 800 mg/m<sup>2</sup>, doxorubicin 60 mg/m<sup>2</sup>, cyplatin 100 mg/m<sup>2</sup>. 54 (II the group) - is carried out long intra arterial regional chemotherapy by scheme: doxorubicin 60 mg/m<sup>2</sup> 48 hours intra arterial (i/a) infusion, ciplatinin 100 mg/m<sup>2</sup> 6 hours (i/a) infusion and cyclophosphan 800 mg/m<sup>2</sup> (i/m). Long intra arterial regional chemotherapy under the similar scheme on the background of short-term hyperglycemia and local hyperthermia is carried out in 36 (III the group). Depending on efficiency from 1 to 4 courses of chemotherapy is carried out.

**Results.** 20 (58, 8 %) patients I group are made crippling operation (amputation or exarticulation), 14 (41, 2 %) - organ reserving operations (11-segmental resection with compression-destructed osteogenesis (CDO) by the device Ilizarev, 3-segmental resection of splint-bone). In II group, 30 patients (57, 7 %) are made crippling operations, 22 (42, 3 %) - reserved (10 -segmental resection with CDO, 7 - segmental resection of splint -bone, 5-segmental resection of bone with endoposthesis of the knee joint). In III group, 9 patients (25 %) are executed crippling operations, 27 (75 %) - preserving (20 - resection of bone with endoposthesis, 3-segmental resection with CDO, 4- segmental resection of splint- bone).

**Conclusion.** The application of long intra arterial chemotherapy on the background of local hyperthermia and short-term hyperglycemia increases the treatment efficiency of osteosarcoma of lower extremity bones and accordingly results in increase of quantity of organ reserving operations.

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