

**PP-170****The role of surgery in the modern multimodal therapy of malignant musculoskeletal tumors****M. Adamesteanu**, I. Lascar*Clinical Emergency Hospital Bucharest, Bucharest, Romania*

Introduction: Surgery and associated radiation therapy has been the mainstay of treatment for malignant musculoskeletal tumors for the past decades, but are they still actual in the rapidly developing field? What are the implications of genetic typing, targeted therapy, markers, new chemotherapeutic drugs and radiation regimens for the curative surgery of sarcomas?

Methods: We review the most recent reported data on available diagnostic procedures, preoperative workup, radical excision of primary and secondary tumors, limb-sparing surgery indications, complex soft tissue reconstructions, the utility of prognostic and diagnostic markers, advances in chemotherapy and radiation therapy protocols and the results of targeted therapy in selected cases and their influence on the surgical therapy of sarcomas.

Results: Our goal is to propose an actual treatment algorithm for malignant musculoskeletal tumors, taking all new breakthroughs into account. Surgery confirms its life-saving role in patients with malignant musculoskeletal tumors. All new developments in the field of imaging studies, adjuvant/neoadjuvant therapy increase overall survival and decrease disease-related morbidity by allowing more conservative surgery.

Conclusion: Surgeons must keep up with latest news in musculoskeletal oncology in order to provide their patients with the best individualized therapy.

Keywords: New therapeutic methods; Surgical therapy; Treatment algorithm