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Nota di contenuto	Part I: Basic Research and Experimental Therapy -- Chapter 1 Genetics of Osteosarcoma -- Chapter 2 Basic Research for Osteosarcoma Lung Metastasis (LM8) -- Chapter 3 Immunotherapy for Osteosarcoma -- Part II: Clinical Features -- Chapter 4 Outcome of Treatment for Osteosarcoma of the Extremities over the Last 20 Years: Report from 11 Referral Centers in Japan -- Chapter 5 Osteosarcoma in the Elderly: Clinical Features and Outcome -- Chapter 6 Prognostic Factors for Osteosarcoma Patients -- Part III: Chemotherapy -- Chapter 7 Neoadjuvant Chemotherapy Developed in Japan -- Chapter 8 Neoadjuvant Chemotherapy (OOS-A, B, C, D regimens) -- Chapter 9 Caffeine-Potentiated Chemotherapy for Osteosarcoma -- Part IV: Surgery -- Chapter 10 Endoprosthetic Reconstruction for Extremity Osteosarcoma -- Chapter 11 Limb-Salvage Surgery and Reconstruction for Skeletally Immature Childhood Osteosarcoma: Extendible Endoprostheses -- Chapter 12 Limb-Salvage Surgery for Pelvic Osteosarcoma Chapter 13 Management of Postoperative Infection after Limb Salvage Surgery in Osteosarcoma Patients -- Part V: Surgery : Biological Reconstruction -- Chapter 14 Biological Reconstruction for Extremity Osteosarcoma: Long Term Results and Current Concept of Intraoperative Extracorporeal Irradiated Bone Graft (IORBG) -- Chapter 15 Biological Reconstruction for Extremity

Osteosarcoma: Pasteurized Autogenous Bone Graft -- Chapter 16
Biological Reconstruction for Extremity Osteosarcoma: Liquid Nitrogen
Treated Tumor-Bearing Bone Graft -- Chapter 17 Biological
Reconstruction for Extremity Osteosarcoma: Distraction Osteogenesis
Technique -- Chapter 18 Limb-Saving Surgery Using In Situ Preparation
(ISP) Method -- Part VI: Unresectable / Metastatic Disease.-< Chapter
19 Carbon Ion Radiotherapy for Un resectable Osteosarcoma of the
Trunk -- Chapter 20 Treatment of Osteosarcoma Patients with
Pulmonary Metastasis -- Chapter 21 Long-Term Outcomes and Quality
of Life (QOL) in Survivors of Pediatric and Adolescent Osteosarcoma.

Sommario/riassunto

This book reviews the brilliant progress made in the past three decades in clinical outcomes for osteosarcoma patients treated with a multidisciplinary approach, including limb-salvage surgery combined with neoadjuvant multidrug chemotherapy and aggressive management of pulmonary metastasis. Osteosarcoma was a miserable disease for adolescents and young adults until the early 1970s, with a survival rate that was less than 10–15% even after amputation for affected limbs because of the progression of pulmonary metastasis. With the development of neoadjuvant chemotherapy for osteosarcoma, including high-dose methotrexate, doxorubicin, cisplatin, and ifosfamide during the late 1970s and the 1980s, however, the prognosis has dramatically improved. Limb-salvage surgery for patients with extremity osteosarcoma is now a gold-standard surgical procedure for more than 90% of patients with localized disease. Additionally, aggressive pulmonary metastasectomy for patients with lung metastasis from osteosarcoma has contributed to improvement of their survival. More recently, carbon-ion radiotherapy has also been introduced for patients with unresectable osteosarcoma of the trunk, as in the spine and pelvis. In this volume the author provides valuable descriptions of an important new treatment modality for a multidisciplinary approach for osteosarcoma patients.
