



Sixth International
Joint Meeting on
**THORACIC
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11th International Meeting on General Thoracic Surgery



Hospital
Universitari
Sagrat Cor

10th International Workshop on Surgical Exploration of the
Mediastinum and Systematic Nodal Dissection



5th Meeting of the Thoracic Oncology, Thoracic
Surgery, Techniques & Transplant, Respiratory Nursing
and Respiratory Physiotherapy Areas of the Spanish
Society of Pneumology and Thoracic Surgery (SEPAR)



3rd Joint Meeting of the Spanish Society of
Thoracic Surgery (SECT)



30th Congress of the "Asociación Iberoamericana
de Cirugía Torácica" AIAC



10th International Workshop on Surgical Exploration of the
Mediastinum and Systematic Nodal Dissection



PRIMARY MALIGNANT BONE TUMORS OF THE CHEST WALL

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*Thoracic bone wall tumors are rare, accounting for less than 5% of all bone tumors. They are most often found on the ribs and more rarely on the sternum or clavicle. Surgery plays a key role in their therapeutic management through parietal resection. *Study the medical and surgical management of primary malignant bone tumours of the chest wall. *We report a retrospective study about 19 cases of primary malignant bone tumors of the chest wall collected in the thoracic surgery department of Abderrahman Mami Hospital in Ariana over a 25 years-period. *The mean age was 37.2 years, with a sex ratio of 0.72. Parietal swelling (n=8) and chest pain (n=13) were the most common symptoms. All cases were unilateral. The tumors were located on the left (n=9) and on the right (n=10). Involvement was in 1 rib in 14 cases, in 2 ribs in 3 cases and in 3 ribs in 2 cases. Histological types were Chondrosarcoma (n=13), Ewing's sarcoma (n=10), plasmacytoma (n=5), malignant lymphoma (n=2), and malignant histiocytofibroma (n=1). Neoadjuvant chemotherapy was offered in 5 patients with Ewing's sarcoma. All patients were operated on. Surgical procedures were a rib resection removing the tumour (n=16) and surgical biopsy (n=3). Adjuvant chemotherapy was indicated in 3 patients with Ewing's sarcoma, 2 patients with chondrosarcoma and one case of lymphoma. Radiotherapy was adjuvant to surgery in 4 patients. Postoperative occurrences were noted in 3 cases. The mean time to recurrence in our series was 13.6 months. *Primary malignant bone tumors are dominated by chondrosarcomas, Ewing's sarcomas, and plasmacytomas. A multidisciplinary management is required involving the thoracic surgeon, the plastic surgeon and the radio and chemo therapist.