Osteosarcoma in left atrium treated with autotransplant

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A 45-year-old man was admitted due to an acute neurological deficit. An intracranial mass was diagnosed and removed. The histo-pathological study suggested a metastatic lesion from a sarcoma. Then a positron emission tomography, a computed tomography, and a magnetic resonance were performed. Such studies revealed a left buttock lesion and a left atrium calcificed mass located in posterior atrial septum without haemodinamic repercussion. Owing to the tumour characteristics, a osteogenic osteosarcoma was suspected. The patient underwent cardiac surgery procedure. The mass (8 × 10 cm) was located in atrial septum, invaded the infero-postero-lateral left atrial wall, and protruded into pericardium. Another three small satellite tumours in right ventricular septum, right ventricular free wall, and mitral cord were found. To remove all the tumours the heart was first explanted and then neoplastic masses were resected. Heart autotransplant was done by atrial reconstruction. Post-operative outcome was satisfactory and dealt without complications. The histopathological study did not distinguish clearly the primary and metastatic masses. The patient received systemic chemotherapy but some early intracranial, bone, and muscular metastatic lesions were found.