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Chondrosarcoma of the femur. Total femoral replacement with modular prosthesis

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Introduction: Total femoral replacement with modular prosthesis is a feasible technique nowadays that can be used in cases of complete tumor involvement of the femur. This paper discusses a case where a low-grade chondrosarcoma had encompassed most of the femur.
Material and Patient: A 51 year old woman with pain in the anterior upper third of her left thigh for 3 months. Full mobility of the hip and knee. On initial x-ray, an expansive lytic lesion in the upper two-thirds of the femur. CT and MRI showed an expansive lytic lesion occupying the full length of the femur. PET-CT showed a heterogeneous metabolic increase in the femur, characteristic of a low-grade lesion. Free of disease in other locations. Biopsy confirmed the diagnosis of a low-grade chondrosarcoma.
Surgical Treatment: Complete resection of the femur. Reconstruction with femoral modular prosthesis. In the hip, a press-fit double mobility acetabular cup was used, and in the knee a cemented hinged knee prosthesis was implanted.
Results: One year later the patient tolerates walking without crutches and presents 0-90° knee flexion and extension. She has a score of 26 points on the MSTS scale.
Discussion: Chondrosarcoma is the second most common primary malignant bone tumor. The treatment of choice is surgery with resection of the affected compartment. Radio and chemotherapy are largely ineffective. Total femur replacement is a demanding technique which has allowed us to treat this case with a limb-sparing surgery.