Primary Aneurysmal Bone Cyst of Patella: A Case Report

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Introduction: Aneurysmal bone cysts represent less than 1% of all bone tumors with tendency to develop in metaphysis. In this study, we aimed to report an unusual region for primary aneurysmal bone cyst.

Materials and Methods: A 20-year-old male patient presented with moderate knee pain. He suffered direct trauma to his knee six months ago. There were no local tenderness and swelling. Knee range of motion was normal. Plain radiographs revealed an osteolytic lesion at the patella and CT study was performed for further evaluating. Tru-cut biopsy was performed and reported as aneurysmal bone cyst. For definitive surgery, intralesional curettage via anterior approach and additional cauteterization with phenol and alcohol was performed. Grafting with allogenic corticocancellous bone was applied to fill the cavity. He fully recovered surgery with no complications. At postoperative 3rd month he had no complaints and gained full knee ROM.

Results: Bone tumors of patella are rare and mostly are chondroblastoma, giant cell tumor, solitary or aneurysmal bone cyst. Generally, they are benign and giant cell tumor is the most frequent one. Primary aneurysmal cysts are rare and usually seen at young females. They are often associated with trauma.

Conclusion: According to Enneking classification our patient had Stage II lesion. Thorough curettage, cauteterization with phenol and alcohol followed by allogenic bone grafting is a successful treatment protocol for this type of lesions.

Keywords : Primary Aneurysmal Bone Cyst, Patella, Bone Tumor

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