

Chondroblastoma Of Right Distal Femur

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INTRODUCTION:

Chondroblastomas are rare locally aggressive benign cartilaginous neoplasm that arises in the epiphysis of a long bone in skeletally immature patients and frequently located in the secondary centers of ossification. We present a case of chondroblastoma of right distal femur with locking knee symptoms after a sport injury.

REPORT:

A 15-year-old boy came to us with intermittent right knee pain, swelling and locking sensation with limitation of movement since two months after falling on a flexed knee during a ping pong match. He sought treatment at the local clinic and was treated as soft tissue injury of right knee. In view of persistent symptoms, he came to our centre for further treatment.

Physical examination revealed swelling of the knee with tenderness at distal femur and medial joint line. No signs of infection were observed and laboratory data were within normal limits.

The radiographs revealed juxtaarticular expansile lytic lesion at medial femoral condyle with sclerotic border. MRI findings suggested Giant Cell Tumour (GCT) of the right distal femur.

He underwent extended bone curettage and bone cement insertion of right distal femur. HPE result showed as chondroblastoma.

Repeated MRI after 9 months post operation showed no evidence of recurrence.

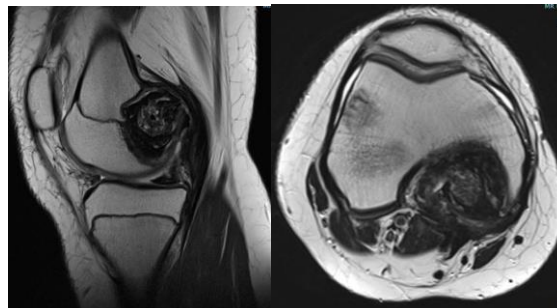


Figure 2: MRI image of right knee

CONCLUSION:

Locking knee have been frequently associated with sport-related injury and MRI imaging is a useful tool to evaluate the cause. Extended curettage with adjuvants like high-speed burr, phenol and cementation can reduce the risk of recurrence. Chondroblastoma is a no-wait lesion and can lead to significant morbidity to the patient.

REFERENCES:

1. Wang F, Li J, Yu D, Wang Q. Chondroblastoma of the distal femoral metaphysis: A case report with emphasis on imaging findings and differential diagnosis. *Medicine (Baltimore)*. 2018 Apr;97(17):e0336. doi: 10.1097/MD.00000000000010336. PMID: 29702979; PMCID: PMC5944485.



Figure 1: Xray image of right knee