

## Bubble the Trouble: A Rare Case of ACL Tenosynovial Giant Cell Tumor - A Case Report

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### INTRODUCTION:

Tenosynovial Giant Cell Tumor arising from the ACL ligament is relatively rare condition. It is benign, leaden in occurrence, and less commonly seen involving knee joint. The pathogenesis of its formation is uncertain, however it could be a consequence of lipid metabolism change, inflammation or benign neoplastic process. Clinical presentation might be uncertain and can somehow imitate other articular pathology for example PVNS or ganglion cyst formation.

### REPORT:

A 41 year old gentleman presented to our centre with complains of right knee pain associated with repetitive locking for the past 5 years. Physical examination was positive for ADT, Lachmann and medial MC Murray Test.

MRI reported a right medial meniscus tear and complete ACL tear however no evidence of nodule were reported. Since his main concern was repetitive locking of his knee, he was not keen for ACL Reconstruction. Arthroscopic meniscus repair was then carried out. During arthroscopy, incidental finding of a nodule was noted (Fig. 1), which was round and had a clear boundary arising from the tibial insertion of the ACL. Excision of the nodule was done and sent for histopathology examination.

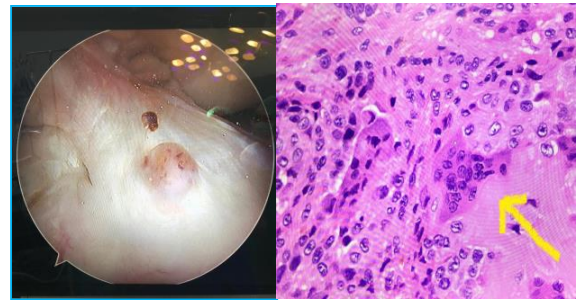


Fig. 1

Fig. 2

Fig. 1: The arthroscopy image of the nodule.

Fig. 2: The Histopathology H&E staining

Post operatively, he has no more episodes of locking. HPE result confirmed the nodule to show features of occasional osteoclast-like giant cells which points to GCT. (Fig. 2)

### CONCLUSION:

ACL Tenosynovial GCT incidence is rare, and lacking in recognition. Treatment with arthroscopic excision is safe and beneficial. However, close follow up is needed due to its high recurrence rate.

### REFERENCES:

1. Tenosynovial giant cell tumor of cruciate ligament: A case report and review: Nam Vu Tu <sup>a b</sup>, Nang Vo Sy Quyen <sup>a b</sup>, Minh Ho Ngoc <sup>a b</sup>, Hieu Pham Trung <sup>a b</sup>, Ba Son Nguyen <sup>b</sup>, Dung Tran Trung <sup>a</sup> [International Journal of Surgery Case Reports Volume 91](#), February 2022, 106771