

Rare Entity of Multifocal Giant Cell Tumour of Tendon Sheath: Separate Lesions Affecting Three Digits in Same Hand

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INTRODUCTION:

Multiple giant cell tumour of tendon sheath (GCTTS) originating from same tendon sheath is rare and usually involves index finger.¹ We describe a rare case of multiple GCTTS over right flexor pollicis longus (FPL), and flexor digitorum superficialis (FDS) of right middle and little finger.

REPORT:

A 56-year-old lady, right hand dominant, presented with an insidious swelling in the right thumb, little finger and wrist, associated with occasional pain. Initial swelling appeared in the volar aspect of right thumb followed by wrist and little finger. The swellings measured 2x2cm at the base of thumb, 1x1cm at the base of little finger (Figure 1). They were firm with no overlying skin changes. Allen test and slip sign were negative and no neurological deficit. Right hand radiograph demonstrated soft tissue swelling over volar aspect of right hand while the MRI revealed two separate lesions arising from tendon of right FPL tracking to tendons of FDS of right middle finger at carpal tunnel region and FDS of right little finger. Excision biopsy done concurred with the imaging findings (Figure 2). Histopathological examination confirmed the diagnosis of GCTTS (Figure 3).



Figure 1: Clinical Picture of Right Hand



Figure 2: Intraoperative Picture of The Lesions

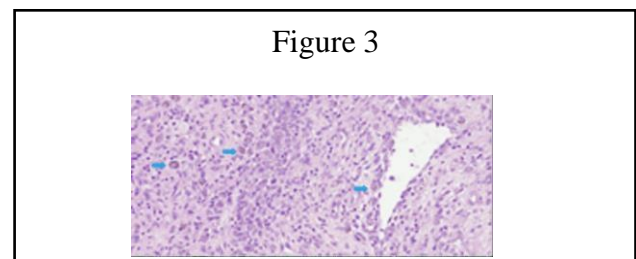


Figure 3: HPE shows scattered ladybird-like cells (blue arrow) with a rim of cytoplasmic pigment amidst mononuclear cells and foamy histiocytes

CONCLUSION:

This is a rare entity of GCTTS presented multifocal in different digits. Occurrence of GCT along tendon length as separate swellings supports the hypothesis of tumour cell migrating along synovial fluid within tendon sheath and is confined within the narrowing point of tendon sheath.

REFERENCES:

1. Ansari MT et al. Multifocal giant cell tumors of tendon sheath along a single tendon: A case report with review of literature. *J Clin Orthop Trauma* 2020;11:690-3.