

A Rare Case Of Giant Cell Tumor Of Fourth Metacarpal Left Hand In 44 Year Old Male – Case Report

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I. Introduction:

Giant cell tumor (GCT) is more common of primary bone tumors. GCT has very high chances of local recurrence with occasional metastatic potential, occurs in young adults of 16–35 years of age with female Predominance. It mostly affects physeal regions of long bone mainly distal end.

II. Case Report:

A 44-year, Male presented with Swelling over the dorso aspect of the left hand since six months. Patient was apparently asymptomatic 1 year ago. He developed swelling over the dorso-medial aspect localising over 4th metacarpal bone of the left hand since one year. Swelling was initially small in size, gradually increased overtime. Progressive in nature since 6 months. Associated with dull aching pain. On examination, there was swelling of 3cm×5cm over dorsum of the left hand, which was firm to hard in consistency, tender on palpation. The local rise of temperature was normal. The overlying skin was normal with no superficial dilated veins. The local signs were suggestive of a benign bony tumor arising from the base of fourth meta carpel of the left hand.



Clinical picture

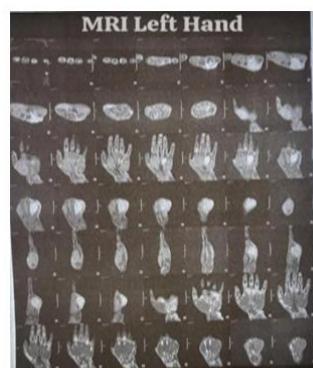


X-Ray: AP & Lat View

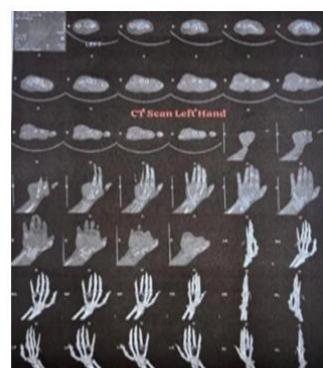


Oblique

X-Ray(AP & Oblique) ,- Revealed an expansile osteolytic lesion with coarse septations involving the fourth metacarpal base, Initially middle part of diaphysis and Later involved the whole metacarpal bone.



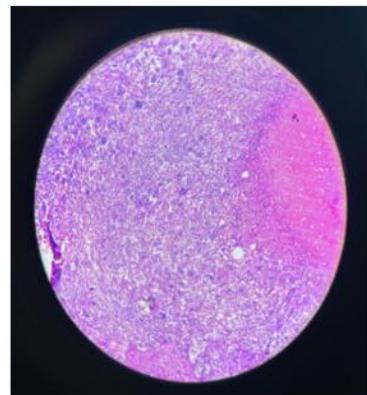
MRI Scan



CT Scan



EXCISION BIOPSY



Histopathology Slides: (low & high power)



IMMEDIATE POST OP



3 MONTHS FOLLOWUP



IMMEDIATE POST OP

Mangement: Surgical resection and reconstruction by fibular autograft and stabilized with a Mini locking plate, and k-wire fixation. The patient was given a Below Elbow cast immobilised for 6 weeks postoperatively.

III. Conclusion:

The treatment option varies from curettage to segmental resection to ray amputation depending upon the extent of disease progression and level of involvement.

Reference:

- [1]. Prashant K, Bhattacharyya TD, Frank H, Ram P. An Unusual Case Of Giant Cell Tumor Of First Metatarsal: A Rare Case Report and review of literature. Jorthop Case Rep 2016;6:3-6.
- [2]. Errani C, Ruggieri P, Asenizio MA, Toscano A, Colangeli S, Rimondi E, Et Al. Giant Cell Tumor Of The Extremity: A Review Of 349 Cases From A Single Institution. Cancer Treat Rev 2010;36:1-7