

# Limb Salvage in Giant GCT : An Approach

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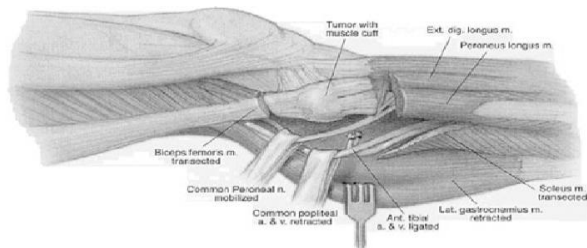


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## INTRODUCTION

- GCT proximal fibula accounts for 2.8-8%. It serves as a common site for both ABC and GCT

### TYPE II PROXIMAL FIBULA RESECTION



Aggressive lesion

Extra-articular  
Resection

6cm of normal diaphysis and anterior and lateral compartments, anterior tibial artery and peroneal nerve

## **We describe a giant arising from proximal fibula with modification in type-II resection**

- **A 45 years old male presented with progressive increase in swelling in right leg for the past 4 years.**
- **The swelling was 18x12x10 cm with CPN involvement.**
- **The swelling was lobulated with variegated consistency.**
- **There was restriction of knee flexion due to size of the tumor.**
- **Biopsy was suggestive of GCT.**
- **The tumor mass was mostly on the posterior aspect of the leg with 1 lobule medially and rest laterally.**



Patient was given injection DENOSUMAB for 5 weeks

Increased sclerosis after injection denosumab on x-rays

PRE

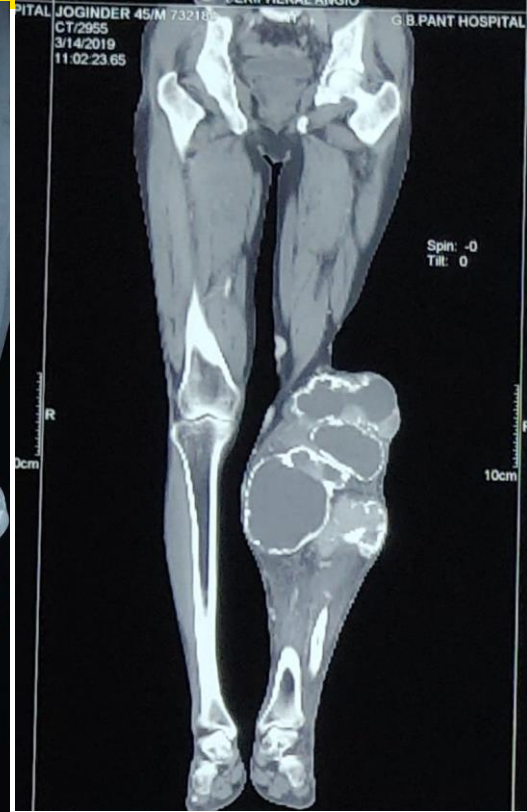
POST

CT-ANGIO

MRI



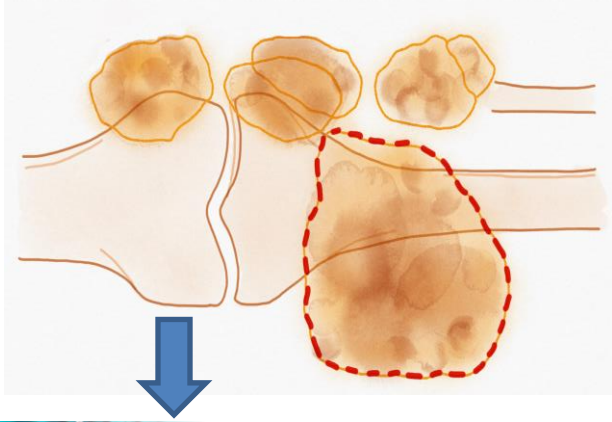
DENOSUMAB



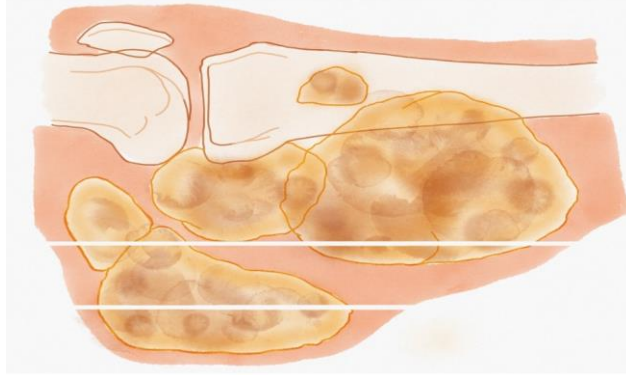


# Surgical approaches

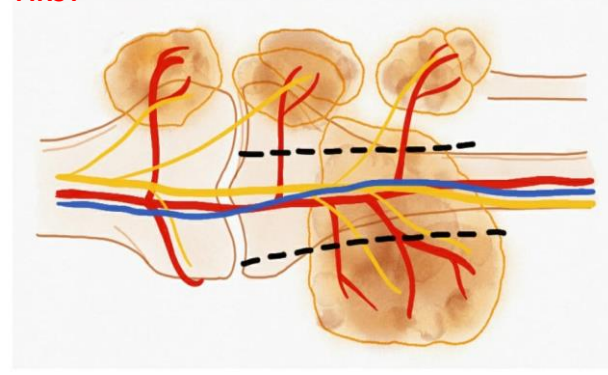
PLAN 1: OUR PLAN



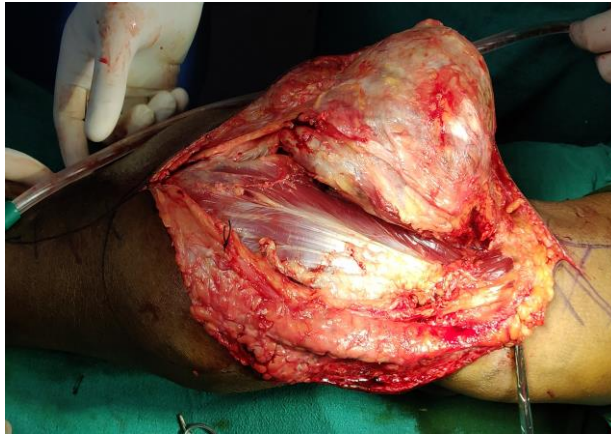
PLAN 2: LAYER WISE REMOVAL OF THE TUMOR



PLAN 3: DISSECT THE NEUROVASCULAR BUNDLE FIRST



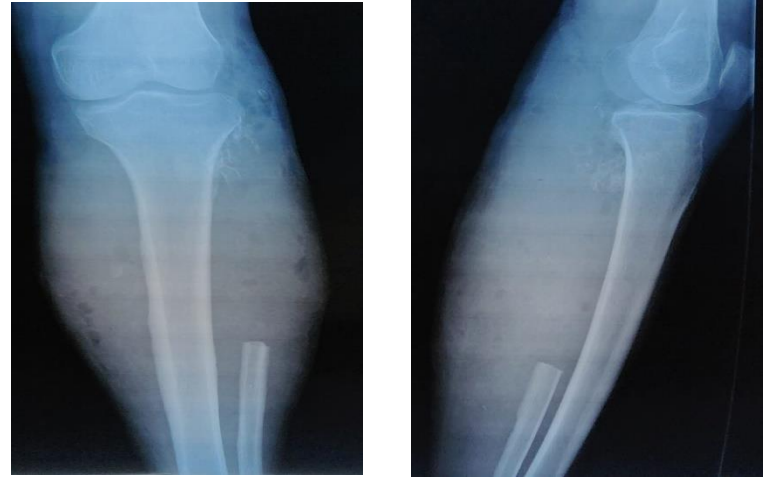
Prone position lazy S incision ,  
4 lobulated mass, 1 medially  
and 3 laterally



## RESULT

- Resection of proximal fibula GCT was done.
- The patient is walking with AFO full weightbearing with motor and sensory loss in the foot.
- Although the foot is surviving with NO skin COMPLICATIONS.

## POSTOP XRAY



## CONCLUSION

- Appropriate surgical approach must be planned & considered in cases of huge benign bone tumors. The limb salvage surgery is an option in such cases if planned and executed well.

## References

Kundu ZS, Tanwar M, Rana P, Sen R. Fibulectomy for primary proximal fibular bone tumors: A functional and clinical outcome in 46 patients. Indian J Orthop 2018;52:3-9