

BREAKTHROUGH IN RADIOLOGY DIAGNOSIS

CASE OF : GIANT CELL TUMOUR

PATIENT DETAILS

Name: SXXXX KXXXX

Age: 25 Yrs M

Investigation: MRI KNEE WITH
PROXIMAL TIBIA

CLINICIAN DETAILS

Name: Dr XXXXX XXXXX

RADIOLOGIST DETAILS

Name: DR KIRPAL CHAUHAN
MD , RADIOLOGIST

TECHNICIAN : RUSHIL PATEL



RADIOLOGICAL FINDINGS

1.EVIDENCE OF WELL-DEFINED EXPANSILE ECCENTRIC ABNORMAL SIGNAL INTENSITY LESION WITH NARROW ZONE OF TRANSITION NOTED IN UPPER TIBIAL EPIPHYSIS, METAPHYSIS AND SHAFT OF POSTERO-MEDIAL ASPECT OF LEFT TIBIA.

2.LESION IS SEEN INVOLVING SUB-CHONDRAL REGION OF MEDIAL TIBIAL ENDPLATE WITH AND ALSO EXTENDING IN TIBIAL INTER-CONDYLAR REGION.

3.LESION IS CAUSING SEVERE CORTICAL THINNING WITH MULTIFOCAL AREAS OF CORTICAL BREACH INCLUDING INVOLVEMENT OF ARTICULAR SURFACE OF MEDIAL TIBIAL ENDPLATE. COMPLETE FOCAL ARTICULAR CARTILAGE LOSS IS NOTED INVOLVING POSTERIOR TIBIAL ARTICULAR CARTILAGE OF MEDIAL TIBIOFEMORAL JOINT.

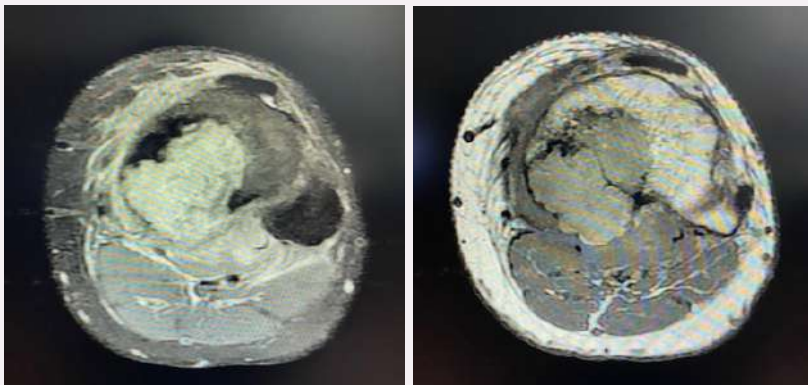
4.POSTERIORLY THE LESION IS SEEN EXTENDING INTO POPLITEUS MUSCLE.SURROUNDING MINIMAL BONE MARROW EDEMA IS NOTED.SURROUNDING SOFT TISSUE EDEMA IS NOTED IN THE INTRA-INTRAMUSCULAR PLANES.

5.SUBCUTANEOUS EDEMA IS NOTED INVOLVING ANTERIOR AND MEDIAL ASPECT OF UPPER TIBIA.MILD TIBIOFEMORAL AND PATELLOFEMORAL JOINT EFFUSION IS NOTED WITH EXTENSION INTO THE SUPRAPATELLAR RECESS.

6.INTERSTITIAL EDEMA IS NOTED IN ANTERIOR CRUCIATE LIGAMENT.

POSTERIOR CRUCIATE LIGAMENT APPEARS NORMAL.

POPLITEAL VESSELS APPEAR NORMAL.



FINDINGS

1.ABOVE-DESCRIBED FINDINGS SUGGEST POSSIBILITY OF BENIGN BONY TUMOUR-GIANT CELL TUMOUR OF LEFT UPPER TIBIA LIKELY WITH ARTICULAR EXTENSION AND SOFT TISSUE EXTENSION INVOLVING POPLITEUS MUSCLE.

CASE OF GIANT CELL TUMOUR

CLINICAL PROFILE

C/O PAIN AND SWELLING OVER KNEE AND UPPER TIBIA REGION.

N/H/O TRAUMA

PROCEDURE

SAGITTAL T2W & PD FAT SUPRESSED, CORONAL PD FAT SUPRESSED AND AXIAL T1W & AXIAL PD FAT SUPRESSED IMAGES THROUGH KNEE JOINT HAVE BEEN OBTAINED ON 1.5 TESLA WITH HIGH STRENGTH GRADIENTS.

DECEMBER
EDITION

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