

BREAKTHROUGH IN RADIOLOGY DIAGNOSIS

CASE OF : TENO-SYNOVIAL GIANT CELL TUMOUR / SYNOVIAL SARCOMA.

PATIENT DETAILS

Name: SXXXX KXXXX

Age: 25 Yrs M

Investigation: MRI LITTLE FINGER

CLINICIAN DETAILS

Name: Dr XXXXX XXXXX

RADIOLOGIST DETAILS

Name: DR KIRPAL CHAUHAN
MD , RADIOLOGIST

TECHNICIAN : RUSHIL PATEL



FINDINGS

- 1.WELL-DEFINED MILDLY LOBULATED ALTERED SIGNAL INTENSITY LESION NOTED SUPERFICIAL TO FLEXOR TENDON OVER THE PALMAR ASPECT OF LITTLE FINGER IN CLOSE RELATION WITH FLEXOR TENDON AND ITS TENDON SHEATH.
- 2.THE LESION INVOLVES SUBCUTANEOUS TISSUE AND REACHES UP TO SKIN SURFACE.

CASE OF TENO-SYNOVIAL GIANT CELL TUMOUR / SYNOVIAL SARCOMA.

RADIOLOGICAL FINDINGS

1.EVIDENCE OF WELL-DEFINED MILDLY LOBULATED ALTERED SIGNAL INTENSITY LESION IS NOTED SUPERFICIAL TO FLEXOR TENDON OVER THE PALMAR ASPECT OF LITTLE FINGER. THE LESION IS IN CLOSE RELATION WITH FLEXOR TENDON AND ITS TENDON SHEATH. THE LESION INVOLVES SUBCUTANEOUS TISSUE AND REACHES UP TO SKIN SURFACE.THE LESION IS SEEN EXTENDING PROXIMALLY FROM THE LEVEL DISTAL THIRD OF PROXIMAL PHALANX AND REACHING UP TO THE LEVEL OF HEAD OF MIDDLE PHALANX DISTALLY.

2.LESION APPEARS MINIMALLY HYPERINTENSE TO MUSCLE ON T1 AND T2-WEIGHTED IMAGES. THE LESION APPEARS VIVIDLY HYPERINTENSE ON PD FS IMAGES. THE LESION SHOWS MULTIPLE T1-T2 HYPOINTENSE FOCI WITHIN POSSIBILITY OF CALCIFICATIONS.

3.SUBTLE PD FS HYPERINTENSITY IS NOTED INVOLVING BONE MARROW OF DISTAL ASPECT OF PROXIMAL PHALANX AND PROXIMAL ASPECT OF MIDDLE PHALANX POSSIBILITY OF BONE MARROW EDEMA.

NO INTRA-ARTICULAR EXTENSION OF THE LESION IS NOTED.

FLEXOR TENDON AT THE LEVEL OF LESION SHOWS NORMAL INTRA-TENDINOUS SIGNAL INTENSITY. NO PERITENDINOUS FLUID COLLECTION IS NOTED.

NO EVIDENCE OF EROSION OR PERIOSTEAL REACTION OF UNDERLYING BONES IS NOTED.

DIFFERENTIALS TO BE CONSIDERED ARE TENO-SYNOVIAL GIANT CELL TUMOUR / SYNOVIAL SARCOMA.

CLINICAL PROFILE

H/O TRAUMA FALL FROM 2 WHEELER

C/O PAIN AND SWELLING OVER LITTLE FINGER AND DIFFICULTY IN MOVEMENT

PROCEDURE

MR STUDY HAVE BEEN PERFORMED ON 1.5 TESLA 8 CHANNELS SYSTEM WITH HIGH STRENGTH GRADIENT, SAGITTAL T1W, T2W, GRE; AXIAL T2W & GRE AND CORONAL FAT SUPPRESSED IMAGES HAVE BEEN OBTAINED.



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EDITION

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