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PATIENT NAME : TALATHI SANDESH SUDHAKAR  
PASSPORT/NRIC : S2720033H  
DATE OF BIRTH : 04/12/1966  
REFERRING PHYSICIAN : DR Lingaraj Krishna  
DATE OF SERVICE : 11/09/2024  
ACCESSION NUMBER : 10469656  
STUDY PERFORMED : MRI RIGHT KNEE

#### MRI RIGHT KNEE WITHOUT CONTRAST

Clinical concern: Right knee medial meniscus tear and PFOA

Technique: Axial, sagittal, coronal intermediate weighted fat saturated; coronal T1-weighted and sagittal intermediate weighted high resolution scans of the knee were obtained on a 1.5 Tesla magnet.

Comparison made with previous study (offsite) dated 5 Nov 2023.

#### Summary findings:

1. **New** medial meniscus full thickness tear: Oblique tear involving the posterior horn-body junction of the medial meniscus sagittal image 28 with background intrasubstance mucoid change. The anterior horn and anterior root of the medial meniscus is intact. Posterior root attachment is also not detached. Peripheral meniscocapsular junction tear on coronal image 22 with tear of meniscotibial ligament. Menisconfemoral ligament is intact.
2. Full thickness cartilage ulceration involving weightbearing medial femoral condyle measuring 0.5 cm with peripheral subchondral bone oedema in the medial femoral condyle on coronal image 23. Diffuse articular cartilage thinning involving the medial tibial plateau with worse corresponding anteromedial tibial plateau bone marrow lesion.
3. New: Full thickness cartilage ulcer on the posterior lateral tibial plateau on coronal image 22 measuring 0.2 cm without subchondral bone oedema. Lateral femoral condyle articular cartilage is intact. Lateral meniscus is intact.
4. ACL mucoid change. Intraosseous oedema within the tibial eminence attachment of the anterior cruciate ligament without avulsion fracture.
5. Baker's cyst measuring 5.7 by 1.5 cm without cyst wall rupture.
6. Unchanged PFOA: Irregular patellar apex articular cartilage ulcer measuring 1.1 x 1 cm on axial image 14 with mild subchondral bone oedema. Partial thickness femoral trochlear groove and inferior medial femoral trochlear cartilage ulcer measuring 1.5 by 2 cm with patchy subchondral bone oedema.

#### Detailed findings:

##### Menisci and Ligaments

Oblique tear involving the the posterior horn-body junction of the medial meniscus sagittal image 28 with background intrasubstance mucoid change within the meniscal body and posterior horn without meniscal root avulsion. The anterior horn and anterior root of the medial meniscus is intact. Posterior root attachment is also not detached. Peripheral meniscocapsular junction tear on coronal image 22 with tear of meniscotibial ligament. Menisconfemoral ligament is intact.

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Lateral meniscus is intact. No discoid configuration. Posterior fascicles of lateral meniscus are intact.

Fibres of the anterior cruciate ligament demonstrate mucoid change. The ACL is taut in knee extension, running parallel relative to the intercondylar roof with intact femoral and tibial footprints. No ligament transection. No ligament transection. Intraosseous oedema within the tibial eminence attachment of the anterior cruciate ligament without avulsion fracture.

Posterior cruciate ligament is intact. Femoral and tibial footprints are intact.

Both collateral ligaments are intact. Grade 2 sprain of the medial collateral ligament with periligamentous oedema. Mild inferomedial stripping of the medial collateral ligament from the tibial cortex.

The popliteal tendon, and popliteal myotendinous junction are normal. Popliteofibular and arcuate ligament complex are intact. Conjoined tendon insertion on the fibular head is intact. No arcuate fracture arising from the fibula.

#### Bones and cartilage

Femorotibial and tibiofibular alignment are preserved. Full thickness cartilage ulceration involving weightbearing medial femoral condyle measuring 0.5 cm with peripheral subchondral bone oedema in the medial femoral condyle on coronal image 23. Diffuse articular cartilage thinning involving the medial tibial plateau with corresponding anteromedial tibial plateau bone marrow lesion, on coronal image 18.

Full thickness cartilage ulcer on the posterior lateral tibial plateau on coronal image 22 measuring 0.2 cm without subchondral bone oedema. Lateral femoral condyle articular cartilage is intact.

No osteochondral loose body. No subchondral fracture line.

Proximal tibiofibular joint is congruent.

#### Extensor mechanism

Quadriceps tendon, patella and patellar tendon are intact. No patella alta or baja variant. Proximal patellar tendinosis at inferior pole of patella without retraction or osseous avulsion.

The patella has equally sized facets without lateral tilt. No significant lateral subluxation. Both patellar retinacula are intact.

Femoral trochlear sulcus angle is normal. No significant lateralisation of the tibial tuberosity relative to trochlear groove.

Irregular patellar apex articular cartilage ulcer measuring 1.1 x 1 cm on axial image 14 with mild subchondral bone oedema. Partial thickness femoral trochlear groove and inferior medial femoral trochlear cartilage ulcer measuring 1.5 by 2 cm with patchy subchondral bone oedema.

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Muscles around the knee joint, tibial and peroneal nerves, iliotibial band and pes anserine tendons are normal.  
Baker's cyst measuring 5.7 by 1.5 cm without cyst wall rupture.

Effusion in the suprapatellar pouch with non thickened medial synovial plica.

Proximal gastrocnemius tendons are intact.

Interpreted and electronically signed by - DR. KENNETH SHEAH, MBBS(LONDON), FRCR(UK),MMED  
(DIAGNOSTIC RADIOLOGY), FORMER FELLOW HARVARD MEDICAL SCHOOL/MGH  
at 12/09/2024 11:10

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