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Case Study

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# A MISSED CASE OF SYNOVIAL HYPERTROPHY WITH MULTIPLE LOOSE BODY (SYNOVIAL CHONDROMATOSIS) DURING TOTAL KNEE REPLACEMENT SURGERY

Dr. Yash Pandey\*<sup>1</sup>, Dr. Suraj Sundarraj Joseph<sup>2</sup>, Dr. Venkata Kiran Pillella<sup>3</sup>, Dr. Madhukar<sup>4</sup>

PG Scholar<sup>1,2</sup>, Assistant Professor<sup>3</sup>, Professor<sup>4</sup> Sree Balaji Medical College and Hospital Chromepet, Chennai.

Corresponding Author: Dr. Yash Pandey

PG Scholar, Sree Balaji Medical College and Hospital Chromepet, Chennai.

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## **ABSTRACT**

Synovial Chondromatosis is a condition in which cartiledginous osteocartiledginous bodies develop in the synovial membrane of Joints or their communicating bursae remesembling sago (snowstorm knee). These loose body tends to go for calcification by metaplasia and further cause enchondral ossification. It can be managed by Synovectomy and Removal of loose bodies with favourable outcome but in cases with the damage to the articular surface simply synovectomy might not be sufficient. Here We present a case of 62 Years Male with Bilateral Osteoartherites of Knee With Right more than Left. Xray showed Kellegren Lawerence type 4 with range of movement of 0 degree to 90 degree with no Fixed Flexion Deformity with failure of all the conservative management planned for Total Knee Replacement. Intraoperatively Loose body were appreciated and synovial hypertrophy was found, were removed and send for biopsy. Artheroplasy was performed and paitent was discharged after removal of sutures. Patient was advised to review after 1 week 1 month and 3 month and outcome was assessed with knee society score.

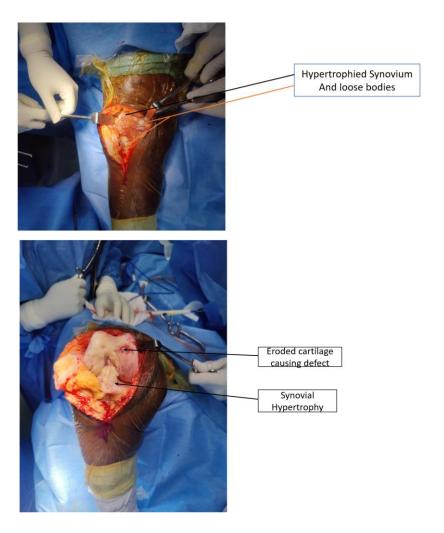
KEYWORDS: Cartiledginous osteocartiledginous, Kellegren Lawerence, Artheroplasy.

# CASE PRESENTATION

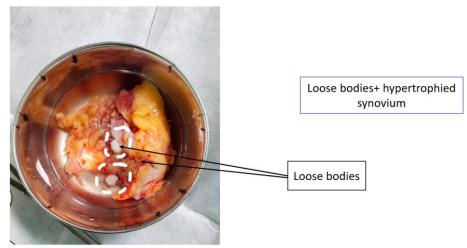
62 Year Male complaints of Pain over Both knee since last 10 years Right knee more than Left dull aching on and off aggrevated since last 1 month which was associated with difficulty in climbing stairs, squatting down, sitting crosses legs and sitting of floor and relieved on rest and Medication. On examination there was no swelling scar sinus no redness no warmth Medial Joint line tenderness present, flexion upto 100 degree and was associated with crepitus. No ligament instability ray showed Severe Osteoarherities and patient was planned for Replacement surgery.

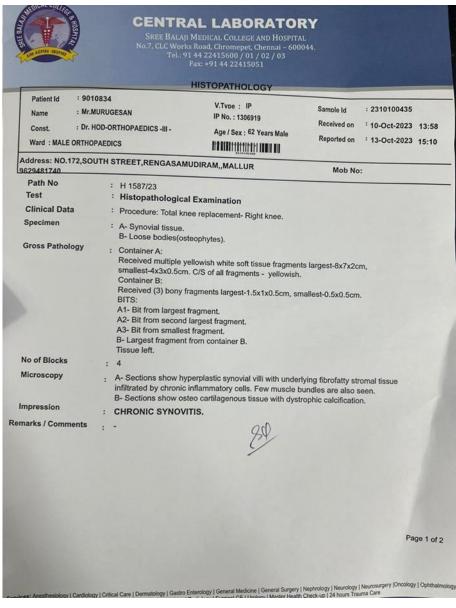


During the procedure we found Hypertrophied Synovium and mulitple loose bodies, All the Loose bodies were removed and Hypertrophied synovium was debrided articular cartiledge removed and Total Knee arthroplasty was performed.



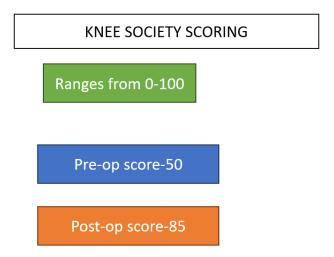
Harvested loose bodies and Hypertrophied Synovium were sent for Histopathology





Report obtained under the Impression of Chronic Synovities

Knee Range Of Motion exercise adviced with weight bearing as tolerated Patient was discharged after Suture Removal with knee society scoring - 85



### DISCUSSION

Synovial Chondromatosis is Monoarticular synovial proliferative disease characterized by metaplastic proliferation of cartilaginous nodules in the synovial membrane of joints, bursae and tendon sheaths.

The proliferated nodules detacha and moves freely in the joint which may calcify or ossify.

According to Milgram classification

Stage 1 is active lesion of the synovium without free bodies and metaplasia of the synovium.

Stage 2 is transitional lesions with active intra synovial proliferation along the free loose bodies and it may remain within proliferated membrane.

Stage 3 is Muliple loose bodies in joint space and synovities.

It is characterised by slow progressive loss of movement associated with stiffness.

Can be associated with Warmth erythma Tenderness Decrease in ROM (progressive).

Investigation can be done with Radiogram in standard AP Lateral view in which we can appreciate multiple loose bodies with calcification. In MRI we can observe initial cartilage nodules and in later stage calcification ossification can be appreciated.

Treatment can be Conservative or the Operative based on the severity of the Symptoms. Resection with synovectomy operated Artheroscopically or open. In case of Severe Osteoartheritis it can be followed up with Total knee Replacement surgery.

### **CONCLUSION**

A 62-year-old male with severe bilateral knee osteoarthritis, particularly in the right knee, experienced pain and difficulty with activities like climbing stairs and squatting. After conservative treatments failed, he underwent total knee replacement surgery. During the procedure, multiple loose bodies and hypertrophied synovium were discovered

and removed and found to be Synovial Chondromatosis. Post-surgery, the patient followed knee range-of-motion exercises and weight-bearing as tolerated, achieving a Knee Society Score of 85. Synovial Chondromatosis, a disease characterized by cartilaginous nodules in the synovial membrane, was implicated, requiring surgical intervention in this severe case.