Management of Tumoral Calcinosisis-A Rare Case Report

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Abstract- Tumoral Calcinosisis an extremely rare benign condition frequently misdiagnosed, of unknown origin. It presents as calcified tumors, usually around the hips and buttocks, shoulder, elbow in muscle and subcutaneous tissue. Growth of such lesions is mostly slow and progressive in nature. Sometimes, ulceration of the overlying skin occurs with superadded secondary infection. This condition may be familial and is seen most often in black Africans. Approximately 1% prevalence of periarticular masses seen in secondary Tumoral Calcinosisis. A 30 years old male patient came to OPD at Taranath Govt. Ayurveda Medical College, Ballari on 04 April 2019 presented with complaints of palpable hard swelling on natal cleft with pain and itching for 2 months. Surgical excision was performed and recurrence was not observed in follow up period.

Index Terms- Tumoral Calcinosisis, gluteal region, Surgical excision

I. INTRODUCTION

Tumoral Calcinosisis is considered as an independent disease, in which there is calcium deposition in the soft tissue in periarticular regions. It is occurring without sex predilection and lesions primarily proliferate during first 2 decades of life1. A genetic disorder, recurrent soft tissue microtrauma or terminal renal failure are blamed to cause Tumoral Calcinosisis2. All these causes may lead to localized or generalized disturbances of calcium-phosphate metabolism which in turn causes Tumoral Calcinosisis. Approximately 1% prevalence of periarticular masses seen in secondary Tumoral Calcinosisis. Tumoral Calcinosisis can be subdivided etiologically into primary type with no associated diseases and secondary type that follows other disorders like hyperparathyroidism, malignancy, sarcoidosis, scleroderma, prolonged hemodialysis3.

II. CASE REPORT

A 30-year-old male patient visited to Out Patient Department (OPD) at Taranath Govt. Ayurveda College, Ballari, Karnataka on 04 April 2019 presented with complaints of palpable hard swelling on natal cleft with pain and itching for 2 months. No pus discharge was there. There was no history of trauma or any other significant medical illness. Patient had no history of Diabetes Mellitus, Hypertension or Thyroid problems and was not suffering from any other skin ailment or bleeding disorders. He was not under any medication for any ailments.

Personal History:  
Bowel: Regular  
Appetite: Good  
Micturition: Normal  
Sleep: Disturbed due to pain

Family History:  
Nothing significant

Physical examination:  
Patient was moderately built  
B.P: 130/80 mm of Hg  
P.R: 74/min

Specific Examination:  
Inspection: A swelling of 3*3cm was seen on natal cleft with absence of pus discharge. Inflammatory signs not elicited.  
Palpation: The swelling was tender, hard and fixed.

Investigation:  
Routine blood was normal, HIV test was negative. FNAC report was suggestive of Tumoral Calcinosisis.
Clinical Diagnosis: Tumoral Calcinosi

Management: Treatment of choice was complete excision of mass.

Pre-Operative notes:
- Informed and written consent was taken
- Part preparation
- Inj. Xylocaine (0.2 ml)- test dose
- Inj. TT (0.5 ml) IM

Operative notes:
Under all aseptic precautions, patient shifted to OT and put under prone position. The operative site was painted and draped. Inj. Xylocaine with adrenaline 2% - 5 ml infiltrated locally. The mass was held with Alli’s Tissue forceps and excised with the help of cautery. Apamargakharataila was applied. The wound was properly cleaned with betadine and dressing done with JatyadiTaila. Hemostasis maintained throughout the procedure. Patient withstood the procedure well. After stabilizing vitals patient shifted to the ward.

Post-Operative notes:
- Antibiotics and analgesics for 5 days
- Cleaning and dressing
- Oral medications: Sathavimshatikaguggulu(TID, After food), Gandhakarasayana (TID, After food) for 10 days.
- Sitz bath

Patient was reviewed 10 days later. Signs of healing of post-operative wound was observed. No recurrence was observed during follow up period.

III. DISCUSSION

Tumoral Calcinosi is a phosphocalcic metabolism anomaly, particularly among younger age groups and characterized by the presence of calcified masses in the juxta articular regions. Genetic disorders, recurrent soft tissue trauma, renal failure, hypervitaminosis D are among the main causes of Tumoral Calcinosi.

Patients usually present with multiple or solitary swellings related to the joints, discomfort, pain and joint movement limitation most commonly affecting the hip, elbow, shoulder, foot, wrist.

Diagnosis of Tumoral Calcinosi is mainly based on imaging modalities. Plain radiographs show the typical appearance of amorphous, multilobulated and cystic calcifications in a periarticular location. CT helps in determining the extension and relations of individual lesions. It usually shows cystic loculi with fluid levels caused by calcium layering giving rise to “the sedimentation sign”. MRI shows inhomogenous high signal intensity on T2-weighted sequences with two patterns frequently observed; diffuse lower signal intensity pattern, nodular pattern with alternating areas of high signal intensity and signal void.
Ultrasonography can also be of value in detecting loculated fluid collections.

IV. CONCLUSION

Tumoral Calcinosis is a rare case which is typically seen in peri-articular soft tissues exposed to repetitive trauma or prolonged pressure such as hips, elbows and shoulders. This 30-year-old male patient, with no family history and with no other biochemical, radiological abnormality was treated successfully with wide local excision with no recurrence.

REFERENCES


AUTHORS

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