

IDIOPATHIC CALCINOSIS CUTIS OF THE MEDIAL CANTHUS OF EYE: A CASE REPORT

Richa Jindal, Priya Jain, Molly Joseph, Sripriya Krishnan, Sheetal Malpani, Jagriti Yadav, Kuldeep Kaur

Department of Pathology St. Stephens Hospital, Tis Hazari New Delhi.

***Corresponding Author: Dr. Priya Jain**

Department of Pathology St. Stephens Hospital, Tis Hazari New Delhi.

Article Received on 24/12/2016

Article Revised on 14/01/2017

Article Accepted on 04/02/2017

ABSTRACT

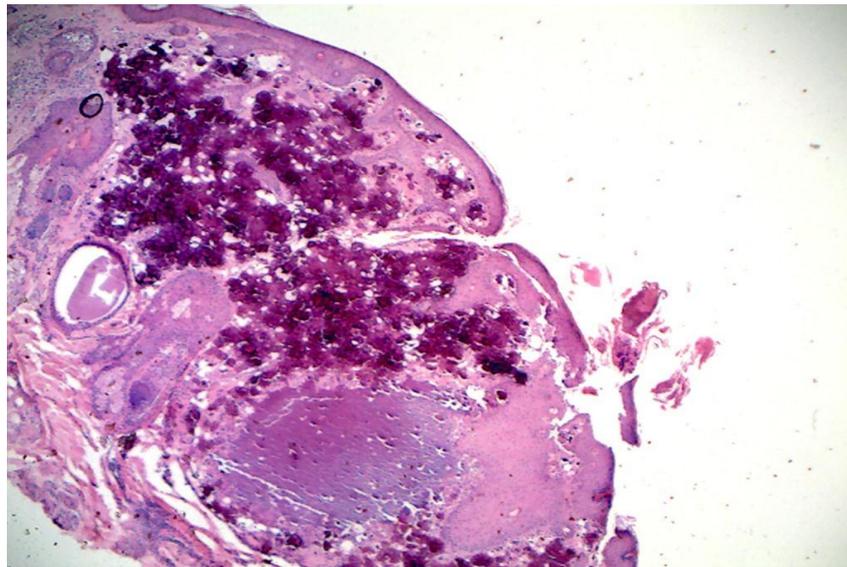
Calcinosis cutis is characterized by deposition of calcium salts under the epidermis. Though it is seen commonly in sites such as scrotum, vulva, breast.^[1] It is extremely rare in medial canthus of eye. Only one case has been reported so far in the literature.^[2] Calcinosis cutis can be classified into five subtypes: dystrophic, metastatic, idiopathic, iatrogenic and calciphylaxis.^[3] We report a rare case report of idiopathic calcinosis cutis in medial canthus of eye in a 30 year old healthy male.

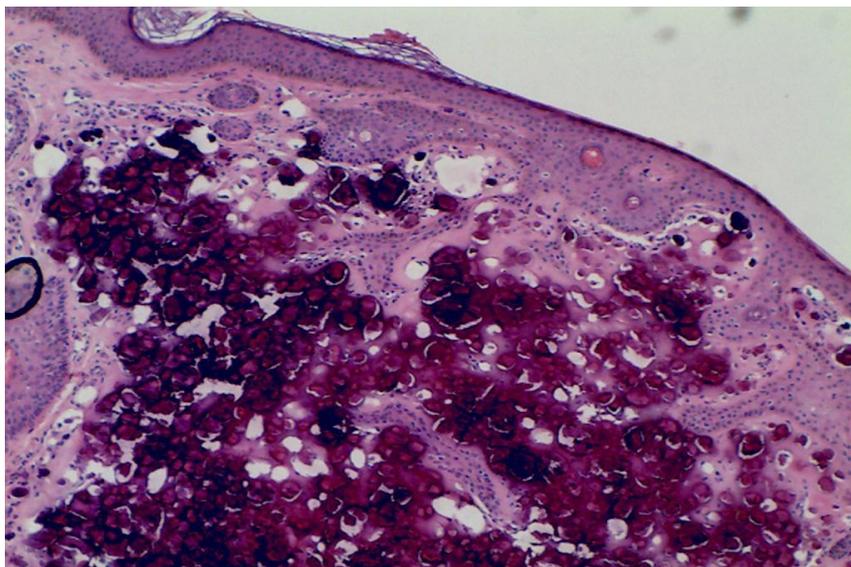
KEYWORDS: idiopathic, calcinosis cutis, medial canthus.**CASE REPORT**

A 30 year old male presented with a slowly growing, palpable whitish mass measuring 5mmX5mm in medial canthus of right eye. The patient had no history of trauma or any systemic disorder. His cornea was clear and visual acuity was 4/6. Excision was done for cosmetic reasons. The excisional biopsy was sent to department of pathology. Serum calcium and phosphates were normal.

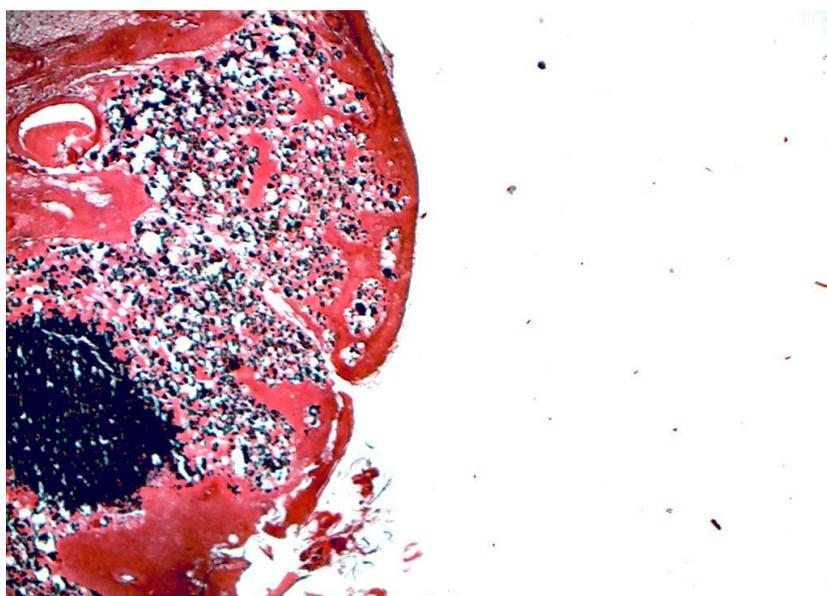
Kidney function tests were within normal limits. There was no history of trauma or any relevant family history.

On histopathological examination amorphous basophilic deposits were seen in the dermis. The epidermis showed acanthosis and hyperkeratosis. Special Von Kossa stain was applied on the section which confirmed the presence of calcium.

**H& E STAINED SECTION SHOWING BASOPHILIC DEPOSITS IN SUBEPITHELIUM(10X)**



HIGH POWER VIEW SHOWING BASOPHILIC DEPOSITS (40x)



VON KOSSA STAIN SHOWING BLACKISH DEPOSITS OF CALCIUM (10x)

DISCUSSION

Calcinosis cutis of medial canthus of eye is a rare entity. Diagnosis is made mainly on the basis of histopathological examination. There are five subtypes of calcinosis cutis. The dystrophic calcification occurs as a result of tissue damage with normal serum calcium levels.^[4] The metastatic subtype is associated with systemic disorders and have abnormally raised serum calcium levels. The iatrogenic type of calcinosis cutis is generally due to side effect after intake of any medication.^[5]

Calciophylaxis presents with calcification in small vessels. Our case was categorized as idiopathic calcinosis cutis as serum calcium was normal with no systemic disorder. There was no history of trauma also.

Calcinosis cutis of the eye is mistaken clinically with molluscum contagiosum, milia, verucca, xanthoma and sebaceous cyst. The diagnosis is made on histopathology and special stains like Von Kossa are important for confirmation of diagnosis. Complete excision is the treatment of choice and clinical follow up upto 3 months is necessary as it may reoccur.

Calcinosis cutis should be considered in any nodule involving the eye. Clinical follow up is necessary as regrowth may occur. Appropriate laboratory investigations should be done to rule out metastatic and dystrophic subtypes as they are more threatening to eye.

REFERENCES

1. Llamas-Velasco M, Eguren C, Santiago D, et al. Calcinosis cutis and Sjigren's syndrome. *Lupus*, 2010; 19: 762-4.

2. Limaiem F, Bouslema S, Haddad I, Abdelmoula, Bouraoui S, Lahmar A, et al. Milia like idiopathic calcinosis cutis of the medial canthus. *Nas Dermatol.* 2013; 4(2): 212-4.
3. Reiter N, El-Shabrawi L, Leinweber B, Berghold A, Aberer E: Calcinosis Cutis: part II. Treatment options. *J Am Acad Dermatol.* 2011; 65: 15-22.
4. Guerhazi A, Grigoryan M, Cordoliani F, Kerob D: Unusually diffuse idiopathic calcinosis cutis. *Clinical Rheumatology.* 2007; 26: 268-70.
5. Goldminz D, Barnhill R, McGuire J, Stenn KS. Calcinosis cutis following extravasation of calcium chloride. *Arch Dermatol,* 1988; 124: 922-5.