Case Report

Granular cell tumour of clitoris: a case report

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INTRODUCTION

Granular cell tumour is an uncommon entity accounting for only 0.5% of all soft tissue tumours.¹ These tumours are of benign nature in 98% cases, only 2% being malignant.² The granular cell tumours are more common in black women.³ Around 7-15% of all granular cell tumours occur in the vulva with clitoris being the most common site.⁴,⁵ There have also been reported cases involving the ovary, uterus, cervix, vagina, mons pubis and episiotomy scar. Granular cell tumour of clitoris is a rare phenomenon. Surgical excision remains the mainstay of treatment. In the malignant varieties, adjuvant chemoradiation is suggested although the response is poor. Although the origin of granular cell tumour remains an enigma, the origin from schwann cells has been proposed as the most appropriate. We report a rare case of granular cell tumour of clitoris in a female of reproductive age group with the appropriate surgical approach.

CASE REPORT

A 42 year old woman presented with complaints of an asymptomatic lump in the clitoris. She had been observing the lump for the past 3-4 months which was painless, did not grow in size and caused no trouble. However, the patient was apprehensive of the location and nature of the lump and requested its removal. On examination, a small approximately 1.5 cm firm supple mass was felt in the body of clitoris which had smooth well defined margins. Granular cell tumour of clitoris is a rare phenomenon. Surgical excision remains the mainstay of treatment. In the malignant varieties, adjuvant chemoradiation is suggested although the response is poor. Although the origin of granular cell tumour remains an enigma, the origin from schwann cells has been proposed as the most appropriate. We report a rare case of granular cell tumour of clitoris in a female of reproductive age group with the appropriate surgical approach.

ABSTRACT

Granular cell tumour (GCT) is tumours showing neuroectodermal differentiation. It occurs mostly in the dermis and subcutaneous tissue and occurrence in the muscle layer is rare. The most common site is the head and neck region. It has been known to occur in the vulva, with clitoris being a very rare site. Granular cell tumours are slow growing tumours, which are mostly asymptomatic. We report a case of lump in the clitoris in a 42-year-old woman which was managed with surgical excision. Histopathology confirmed the diagnosis of granular cell tumour. Very few cases of granular cell tumour of clitoris have been reported in literature till date. Although mostly benign, the differential diagnosis of granular cell tumour should be borne in mind by the clinicians in cases of clitoral lump.

Keywords: Clitoris, Granular cell tumour, Reproductive age group

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neurovascular structures on the dorsal side. A small incision was given on the ventral surface after fixing the lump from dorsal side with the finger of the other hand. The lump was held with allis forceps and dissected out using mosquitoes and metzenbaum scissors. The lump was sent for histopathological examination. The post operative period was uneventful. The histopathology report confirmed the diagnosis as granular cell tumour. The patient was followed up for one year with no recurrence.

Granular cell tumours are slow growing tumours, mostly asymptomatic. At times, they may present with pain and itching. The incidence of granular cell tumour in the vulva is around 15% and around 98% of them are benign.\(^5\) Till date, very few cases have been reported in the clitoris. Reported recurrence rate with clear margin is 2.8%.\(^7\) The malignant form of granular cell tumors is highly aggressive, responds poorly to radiation or chemotherapy and may sometimes have fatal outcomes where lesions are present in organs such as the lung or liver.\(^8\) Guo N et al, reported that surgery after isophosphamide, etoposide, and cisplatin neoadjuvant chemotherapy was successful in a GCT of the uterine cervix and there was no recurrence.\(^9\)

Clinically, poor prognostic factors are rapid tumor growth, tumor size > 4 cm, invasion into adjacent tissues, history of local recurrence, and older age.\(^10\)

Differential diagnosis of clitoral lumps includes epidermoid cysts, pilonidal cysts, paraurethral cysts, dysontogenetic cysts of paramesonephric or mesonephric origin and dermal adnexal tumour.\(^11\) Non-hormonal causes of clitoromegaly include lymphoma, rhabdomyosarcoma, endodermal sinus tumour, leiomyoma, genital neurofibromatosis, and distant metastatic disease.

Golchaj J et al, reported a case of multiple granular cell tumour present simultaneously at various sites. Hence during follow-up, extragenital areas, such as oral cavity and trunk, should also be evaluated.\(^12\)

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