Case Report

Intermammary pilonidal sinus: rare location of a common condition

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Received: 11 June 2020
Revised: 30 July 2020
Accepted: 05 December 2020

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ABSTRACT

Pilonidal sinus in the intermammary region is a rare location of an inflammatory condition commonly occurring in the natal cleft. It is typically characterised by a pus and hair containing cavity in the skin lined by granulation tissue connecting the skin surface. A 22 year-old female presented with chronically discharging sinuses in the intermammary region with recurrent abscess formation for one year duration. Although a rare location, clinical diagnosis of pilonidal sinus was made. Complete excision of sinus tract with abscess cavity with primary closure was performed under general anaesthesia. Histopathological examination confirmed pilonidal sinus. On follow up, the scar was healthy with no keloid formation. Pilonidal sinus may rarely occur in intermammary region. Complete excision and primary closure is the mainstay treatment.

Keywords: Intermammary pilonidal sinus, Pilonidal abscess, Chronic discharging sinus

INTRODUCTION

Pilonidal sinus (PNS) is a common inflammatory condition caused by penetration of hair into the epidermis of the skin. It is characterized by a pus and hair containing cavity in the skin lined by granulation tissue.1 It typically presents as a chronic discharging sinus with recurrent abscess formation. Typically PNS occurs in the natal cleft. Rarely, it affects other areas of the body like groin, axilla, umbilicus, interdigital web, suprapubic area, nose, clitoris, prepuce, penis, or occiput. Intermammary pilonidal sinus is an extremely rare condition with very few cases reported in literature.2 - 7 We describe the case of a 22 year old female with a pilonidal sinus in the intermammary region.

CASE REPORT

A 22 years old female presented with a chronic discharging sinus in the intermammary region since one year. She was previously misdiagnosed and treated as recurrent fungal infection. But her symptoms persisted. The local examination revealed multiple discharging sinuses in the intermammary region. Her X-ray, erythrocytic sedimentation rate (ESR) and Mantoux test were normal, thus ruling out tuberculosis. She underwent complete excision of sinus tracts with primary closure under general anaesthesia.

Figure 1: Mass as demonstrated on physical examination.
Histopathology revealed pilonidal sinus tract with acute on chronic inflammation. The patient underwent laser epilation of the chest wall to prevent recurrence. She was also advised silicone dressing for prevention of keloid formation. On follow up, the scar was healthy with no keloid formation after six months.

**DISCUSSION**

The word “pilonidal” is derived from the Latin words pilus ("hair") and nidus (”nest”). Ever since its first report in 1833, pilonidal disease has always been in controversy with regards to its aetiology. However, the most accepted aetiology is that of an acquired pathology with multiple contributing factors. It is still unknown whether hair (either loose or native to the region) are the primary cause or whether the hair follicles become infected leading to microabscesses and PNS.8

The commonest location of pilonidal sinus is the natal cleft. 97.8% of pilonidal sinuses are seen in the sacrococcygeal region and intermammary location is extremely rare.9

Sacroccocygeal pilonidal sinus is a common disorder among young hairy adults, of age group from 15-30 years, with a 3:1 male-to-female ratio. However, intermammary pilonidal sinus is seen mostly in young obese females with bulky breast.7 It has been proposed that tight brassiers increase the pressure in the intermammary region and enhance skin penetration by hair. The pilonidal sinus typically presents as chronic discharging sinus with recurrent abscess formation. In the intermammary region, a few other conditions may mimic the clinical picture like hidradenitis suppurativa, pyoderma gangrenosum, syphilis or tuberculosis.10

It was reported that hairiness is among the most important risk factor for developing PNS. However, this risk factor has not been mentioned in case of an intermammary PNS.7

The most commonly used treatment modality for typical PNS is surgery which classically includes local excision. Depending upon the presence of contamination the wound is either left to heal by secondary intention or a primary closure is done. Post-operative wound complications are known leading to increased morbidity. Another alternative for wound closure is the use of local flaps. However, flap may not be required for closure in case of intermammary PNS due to the presence of lax skin in that region which can be mobilised for cover.7

Non-surgical therapies described for PNS include phenol injection or topical polyphenols.11,12 Laser epilation as primary treatment for PNS have also been tried with promising results.13,14 The new technique with excision and tension-free primary closure using fibrin glue in order to obliterate the dead space and to promote wound healing has also been described.15 However, for intermammary PNS, excision with primary closure remains the mainstay of treatment.7

**CONCLUSION**

Intermammary pilonidal sinus is a relatively rare presentation of a common condition. Complete excision with primary closure is the mainstay of treatment. Due precaution for prevention of keloid formation is mandatory for excellent cosmetic results especially in young females.

Funding: No funding sources
Conflict of interest: None declared
Ethical approval: Not required

**REFERENCES**
