Recurrent Perianal Sinus in Young Girl Due To Pre-sacral Epidermoid Cyst

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Abstract

Pre-sacral epidermoid cysts are rare development cysts resulting from dysembryogenesis mostly diagnosed in middle aged women. We report a case of pre-sacral epidermoid cyst presenting with recurrent perianal sinus in young girl. Generally pre-sacral epidermoid cysts are seen in adult age group but it is rare presentation in young age group. We report a rare case of presacral epidermoid cyst occurring in a young female.

Keywords: Coccygectomy, epidermoid cyst, Peri anal sinus, Young girl

Introduction

Pre-sacral epidermoid cysts are rare development cysts resulting from dysembryogenesis mostly diagnosed in middle aged women. Generally pre-sacral epidermoid cysts are seen in adult age group but it is rare presentation in young age group. Epidermoid cysts are benign unilocular lesions filled with clear fluid. These cysts are lined with stratified squamous epithelium. [1] There are three major complication of pre sacral developmental cysts. These are infections, bleeding and malignant degeneration3, which are the cause for intervention. Most of the time these are asymptomatic. [2] In our case it was the infective complication of epidermoid cyst which led to sinus formation.

Case Report

A young girl presented in our outpatient department with pus discharging from perianal sinus for the past 2 years. In addition, she was also having continuous dull pain in the lower abdomen along with constipation. Two years back, she was operated for this problem with misdiagnosis as fistula-in-ano. After 1 year period of remission, the sinus recurred. Then onwards, it persisted until the date of presentation.

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Local examination revealed a pus discharging from sinus at 6 o'clock position which was about 3 cm posterior to anal opening. Digital rectal examination revealed a bulge in the retrorectal area [Figure 1]. Compression over the swelling led to discharge of pus through the sinus opening.

Laboratory tests were within normal limits. immunoglobulin G (IgG), immunoglobulin A (IgA), immunoglobulin M (IgM) antibodies along with polymerase chain reaction (PCR) for tuberculosis were negative. Ultrasonography of the abdomen was normal. Sinogram revealed a large pre-sacral filling defect [Figure 2]. After pre-operative assessment the cyst (8-10 cm) was completely excised along with the sinus tract through posterior approach with coccygectomy [Figure 3]. Post-operative period was uneventful.



Figure 1: Peri-anal sinus with discharging pus

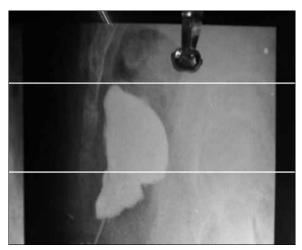


Figure 2: Sinogram showing 6 o'clock sinus tract communicating with huge cavity pre-sacral area

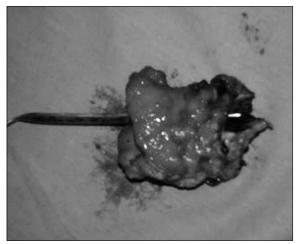


Figure 3: Excised specimen of cyst with sinus



Figure 4: Cavity after removal of sinus

Histopathology of excised specimen revealed it to be a case of epidermoid cyst lined with stratified squamous epithelium. No recurrence was noted after 2 years of follow-up.

Discussion

Epidermoid cysts are benign unilocular lesions filled with clear fluid. These cysts are lined with stratified squamous epithelium.^[1] Pre-sacral epidermoid cysts are uncommon in young girls and presentation as perianal sinus is still rare. This lesion is mostly found in middle-aged women and most of the time it is asymptomatic.^[2]

There are three major complications of pre-sacral developmental cysts, which are the cause for surgical intervention. These complications are infection, bleeding and malignant degeneration.^[3] In our case, it was the infective complication of epidermoid cyst which led to sinus formation. Because of improper investigations and diagnosis, it was treated as fistula-in-ano in the past with no relief.

A case of incidentally found large pre-sacral epidermoid cyst in young female was excised trans abdominally. [4] Other surgical options include a posterior approach, trans abdominal approach, combined approach or trans rectal approach. [5] We chose to operate through posterior approach in this case [Figure 4]. In a study, seven patients with retrorectal cysts have been misdiagnosed and treated as fistula-in-ano, pilonidal cyst, perianal abscess, lower-back pain, post-traumatic pain, post-partum pain and proctalgia fugax before correct diagnosis. [6] Our case was also misdiagnosed and treated as fistula-in-ano elsewhere with no relief. Pre-sacral epidermoid cysts have also been reported to be communicating with spinal CSF cavity. [7] but it is extremely rare.

Imaging with ultrasound is helpful in large pre-sacral epidermoid cyst with high clinical suspicion, but it is not always helpful to diagnose the disease, if the size of a cyst is small. In present case ultrasound imaging was more helpful as the size of cyst was large. We recommend ultrasound for all large pre-sacral epidermoid cyst.

Conclusions

Pre-sacral epidermoid cysts presenting as perianal sinus are uncommon in young girls. If misdiagnosed, it may be the cause of prolonged morbidity because of inadequate treatment. Therefore, high degree of clinical suspicion and proper investigations are needed in younger females presenting as perianal sinus.

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