Cervical Stenosis - An Unusual Clinical Presentation

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Abstract

Outflow tract obstruction of female genital tract can lead to varied presentations depending on many factors. Most of the obstructions are congenital and usually occur in the lower part. A rare case of obstruction of cervical opening is reported. 37 years old lady with two previous cesarean deliveries reported with complaints of lower abdominal pain along with difficulty in passing urine, she was detected to have a lower abdominal lump. Imaging studies suggested retention cyst. Examination under anesthesia showed obliterated external cervical opening. Dilatation resulted in extrusion of large quantity of chocolate material. She made good postoperative recovery but the cause of cervical stenosis was not clear.

Keywords: Cervical stenosis; Hematometra; Urinary retention

Introduction

Outflow tract obstruction of female genital tract can lead to varied presentations depending on the site of obstruction, cause of obstruction and the age at the time of manifestation. Menstrual blood gets collected proximal to the obstruction and this collection can result in amenorrhea (cryptomenorrhoea), abdominal pain and pressure symptoms on lower urinary tract anteriorly and rectum posteriorly. Most of the obstructions are congenital in nature as imperforate hymen but some may be acquired also like after cervical electrocoagulation. We present an unusual case of acquired cervical stenosis which was a diagnostic dilemma.

Case Report

37 yrs old lady with two previous deliveries reported with complaints of pain in lower abdominal area along with difficulty in passing urine of 4 to 5 months duration. Pain was constant but got worse while passing urine, there was increased frequency of micturition and sense of incomplete evacuation but there was no burning while passing urine. She had two living children; both delivered by CS, last CS was performed 8 yrs back. The couple was using male condom as a method of contraception. Her menstrual cycles were absent for the last six to seven months but occasionally she had complained of altered blood stained vaginal discharge. General and systemic examination was essentially normal. Abdominal examination revealed a lump corresponding to 22 weeks size of pregnancy (Figure 1). The mass was firm to cystic in consistency. On internal examination the cervix and uterus could not be felt but a large mass was felt in the vagina, continuous with abdominal mass; whose mobility was restricted.

The mass appeared to be arising from anterior vaginal wall. A provisional diagnosis of anterior vaginal wall cyst was made and imaging studies performed. The ultrasound was suggestive of retention cyst (Figure 2). CT scan too pointed towards retention vaginal cyst (Figure 3). Since the diagnosis was not dear; the case was taken up for detailed examination under anesthesia, the mass was occupying the whole of vagina hence one could not go beyond the mass to locate the cervix, detailed per speculum examination under anesthesia revealed a small discolored spot (Figure 4) which when probed exuded tarry material (Figure 5). A diagnosis of cervical stenosis with retained blood was made and cervical
opening was dilated to allow the collected blood to drain out. Appx 700 ml (Figure 6) of dark chocolate material was removed and cervix attained almost normal appearance and now the uterus could be palpated distinctly which appeared of normal size and shape. The lump abdomen had disappeared.

Ultrasound repeated 48 hrs later showed normal uterus with bulky cervix (Figure 7) indicating that the collection of blood was in cervical canal. Postoperatively the patient had uneventful recovery and her symptoms had disappeared; she was pain free and was able to pass urine normally. She was examined after her next menstrual cycle, per speculum examination was normal, and endocervical curettage did not show any evidence of malignancy. She has been
followed up for six months, has been menstruating regularly and there is no recurrence.

**Discussion**

Development of female genital tract is highly complex and can result in many malformations of either fusion or recanalisation defects. These abnormalities are rare; [1] commonest obstruction of female genital tract is imperforate hymen, which results in accumulation of menstrual blood in the vagina resulting in hematocolpos. Diagnosis is usually made in childhood or at menarche with onset of cyclical pain and primary amenorrhoea [2]. Uncommon presentations include urinary retention [3], recurrent urinary tract infection or backache [4]. Hematocolpos can also occur in elderly women following vaginal occlusion secondary to radiotherapy or labial synechiae as a result of inflammatory conditions [5]. Cervical stenosis is a rare condition and can result from many causes like congenital cervical stenosis, chronic infection, surgical trauma like cone biopsy [6,7] cryotherapy or due to a tumor mass like a polyp or cervical cancer, post radiation or cervical endometriosis.

One rare cause of cervical stenosis has been described as CS [8], our patient too had undergone two CSs but her symptoms were not antedating surgery. The cause of such severe stenosis of cervix in our case was not clear. One of the differential diagnoses was cervical endometriosis but that was unlikely as there were no discolored nodules on the cervix and symptoms of endometriosis were absent. Cervical stenosis after cone biopsy is a recognized but rare complication [9]. Uterine cervical os [10], may appear normal, invisible, or may show a dimple, or a blue bulging membrane, in our case discolored opening was visible. Most of the cases can be diagnosed by ultrasonography; CT and MRI are rarely required [11]. Treatment is simple dilatation but at times recurrence [12] occurs for which different modalities have been used like catheter, stent or intrauterine device [13].

**References**