Large Vesico-Vaginal Fistula Caused by a Foreign Body

Massinde AN, Kihunrwa A

Departments of Obstetrics and Gynecology, Bugando Medical Centre Box 1370, Mwanza and Catholic University of Health Science and Allied Sciences, Box 1464, Mwanza, Tanzania

Abstract

Foreign body is a rare cause of vesico-vaginal fistula most often reported in developed countries. In developing countries obstructed labor is the commonest cause of fistula. A nulliparous 19-year-old female presented with a 3-week history of a foreign body in the vagina causing urinary incontinence and offensive vaginal discharge. Her guardian allegedly inserted the foreign body after she refused a pre-arranged marriage. A plastic container was removed from the vagina under general anesthesia. A large vesico-vaginal fistula was discovered, which was successfully surgically repaired. We recommend urgent removal of the foreign body, preferably under general anesthesia. However, if the history or physical examination reveals prolonged exposure, repair of the fistula should be delayed to allow for adequate debridement in order to prevent any life-threatening complications.

Keywords: Developing countries, Fistula, Foreign body, Vagina

Introduction

Vesico-vaginal fistula is commonly caused by obstructed labor, gynecological surgery, occasionally due to malignancy and rarely foreign body; in most cases being ring pessaries. Cases of a foreign body in the vagina have been reported mostly in developed countries. Foreign body within the vagina can result in major complications if left unmanaged for a long period of time. We present a case of forcefully inserted foreign body within the vagina that resulted in extensive vesico-vaginal fistula.

Case Report

A nulliparous 19-year-old female presented with a 3 week history of a foreign body in the vagina. Her uncle allegedly forcefully inserted the foreign body after she refused a pre-arranged marriage. The presence of this foreign body was associated with purulent and offensive vaginal discharge, dysuria and leakage of urine from the vagina.

On examination she was afebrile with stable vital signs. The patient was found to have suprapubic tenderness on palpation.

Examination of the genitalia could not be performed due to severe pain.

A plain pelvic radiograph showed an opacified object within the pelvic cavity [Figure 1].

The clinical radiographic impression was a foreign body in the vagina with associated bladder injury.

The patient was examined in theatre under general anaesthesia. The findings were perineal excoriation and clearly identifiable leakage of urine from the vagina. A plastic container was removed from the vagina under general anesthesia. A large vesico-vaginal fistula was discovered, which was successfully surgically repaired. We recommend urgent removal of the foreign body, preferably under general anesthesia. However, if the history or physical examination reveals prolonged exposure, repair of the fistula should be delayed to allow for adequate debridement in order to prevent any life-threatening complications.

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the tissue inward using interrupted sutures (polysorb #2-0). Water-tight repair of the bladder was achieved by single layer closure and confirmed by negative dye test (methylene blue). Then the repair of the vaginal wall with polysorb suture #0 was performed in a transverse direction. The post-operative course was unremarkable. The Foley catheter was removed on day 14 with no leakage of urine through the vagina. Despite involvement of a counselor, psychiatrist and hospital social worker, the patient chose not to initiate legal proceedings.

She was discharged with advice to abstain from intercourse for 3 months and we have recommended elective caesarean section should she fall pregnant in the future.

**Discussion**

Similar cases have been described by other institutes.[2-6] In these cases foreign bodies in the vagina have been noted to not only cause fistulas, but have also resulted in ureteric obstruction due to formation of bladder stones and ascending infection with possible peritonitis.[4-7]

Since our patient presented late, the foreign body embedded deep within the vaginal tissue causing significant fibrosis. This increased the difficulty of repair.[2,3] During the initial examination under anesthesia the fistula appeared to be small, but we subsequently discovered the actual deformity to be more than twice the anticipated size after clearing of debris and desquamation.

This incident has significant implications for the patient physically, psychologically and socially. We have endeavored to provide support for her psycho-social rehabilitation but with limited engagement. In future pregnancy we have recommended elective caesarean section as the mode of delivery. As a nulliparous woman, predicting the outcome of her vaginal delivery would be uncertain (untried pelvis). Even an uncomplicated vaginal delivery may result in the breakdown of tissue and recurrence of this fistula. First repair of fistula has a significantly better outcome than repeated repair.[8] The finding of fibrotic tissue in this case means that if one had to perform a repeat repair, successful closure is not guaranteed.

When a physician is faced with a case of the foreign body within the vagina, we recommend urgent removal of the foreign body, preferably under general anesthesia. However, if the history or physical examination reveals prolonged exposure, repair should be delayed to allow for adequate debridement in order to prevent any life-threatening complication.

**References**


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