

**CASE REPORT****PENILE ENTRAPMENT IN NECK OF HARD PLASTIC BOTTLE – A RARE CASE****Dinesh Kumar Barolia**

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Penile Strangulation, Rare Case.**ABSTRACT**

Penile strangulation by various constricting devices like metallic ring and neck of hard plastic bottle is a rare injury. These objects are used for auto erection of penis but this type of unusual practice can lead to entrapment of penis, strangulation and necrosis. Penile entrapment is an acute surgical emergency which required immediate surgical intervention to remove the constricting device. We report a case where a 37 years old man presented at surgical outdoor with entrapment of penis in neck of hard plastic bottle. The penile constricting device was removed without any additional trauma to penis.

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**INTRODUCTION**

Entrapment of penis in neck of hard plastic bottle is not a usual presentation. So many cases of penile incarceration have been reported in the medical literature. Penile entrapment injuries can cause simple penile engorgement to ulceration, necrosis, urinary fistula or even penile gangrene [1]. They need urgent intervention to prevent complications. Men are using a variety of objects for incarceration, such as wedding rings, metal washers, and plastic bottle necks. The new case study reported in the Archives of Sexual Behavior, the patient had put a six centimeter metal pipe around the base of his penis that had a diameter of just two centimeters [2].

**Case report**

A 37 year's old man came in surgery outdoor with chief complaint of swelling of penis. When he was examined, there was a neck of hard plastic bottle over shaft of penis. We took history then he told that he wear the neck of plastic bottle for masturbation in last night. After wearing the neck of plastic bottle penis becomes engorged that's why he was unable to remove the neck of plastic bottle. Next day he came to surgery out door with penile swelling. On examination there was an ulcer over glans penis and distal to constricting device penis was edematous. He was conscious, oriented with time place and person. Patient was taken in emergency operation theatre, penis and surrounding parts were painted with povidine iodine and draping was done. Effort was done to remove the neck of bottle by applying pressure over edematous penis. But we were unable to remove the bottle neck. Then try to cut with surgical blade but could not possible to cut because neck of bottle was too hard. Then we cut the neck of bottle by iron cutting scissor without any trauma to the penis. There was a circumferential ulcer beneath

the neck of bottle. After three hours observation, patient was discharged from hospital.



**Fig 1** Edematous and ulcerated penis distal to the entrapment with hard plastic bottle neck



**Fig 2** Circumferential ulcer over penis and hard plastic bottle neck after removal.

**DISCUSSION**

Penile incarceration from metallic and non-metallic objects has been reported throughout the world since 1755. The largest series reported by Dakin in 1948 [3]. Penile incarceration is defined as the placement of metallic or non-

metallic objects over the penis that restricts the flow of blood out of the genitals. By keeping more blood in the penis, the result is a firmer and longer-lasting erection. This type of activity usually done for enhance sexual arousal or pleasure, or because they have a fetish for it [4]. Penile entrapment caused by metallic and non-metallic constricting devices leads to various range of injury. Metallic device causes more injury than non-metallic. AL Bhat et al (1999) categorized these injuries as follows [1]

Grade I - Edema of distal penis. No evidence of skin ulceration or urethral injury  
Grade II- Injury to skin and constriction of corpus spongiosum but no evidence of urethral injury. Distal penile edema with decreased penile sensation.  
Grade III - Injury to skin and urethra but no urethral fistula. Loss of distal penile sensations.  
Grade IV - Complete division of Corpus spongiosum leading to urethral fistula and constriction of corpus cavernosa with loss of distal penile sensations.  
Grade V - Gangrene, necrosis, or complete amputation of distal penis. The present case had penile edema and ulcer. So, categorized in grade second as per AL Bhat grading. The method of choice for removal of constricting device depends upon type, size, and time since strangulation and availability of the equipment. These methods may be aspiration of corpora, saws, grinders, and dental drills etc. [5, 6, and 7].

## **CONCLUSION**

Entrapment of penis is an emergency and challenging

condition for surgeons. This required urgent intervention to prevent complication by available facilities and surgeons as skill.

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