

## CASE REPORTS

# Removal of Numerous Vesical Magnetic Beads with a Self-Made Magnetic Sheath

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## ABSTRACT

**Introduction.** Sexual curiosity and the quest for sexual excitement are the most frequent reasons for patients to introduce foreign bodies into the urethra or the bladder. Imagination and surgical skill are essential for urologists to retrieve such vesical foreign bodies.

**Aim.** The aim of this study was to describe a novel method for retrieving vesical magnetic beads, which were inserted for autoeroticism by a male adolescent, with a self-made “magnetic sheath.”

**Methods.** A 21-year-old young man inserted more than one hundred small magnetic beads into his urethra for sexual excitement, which lately caused symptoms of gross hematuria, frequent urination, and acute lower abdominal pain when walking or urinating. We invented a magnetic sheath by fixing a magnetic bead on the tip of an F9.5 ureteral access sheath to remove the foreign bodies in a minimally invasive way.

**Main Outcome Measure.** The feasibility of using magnetic sheath to remove vesical foreign bodies; and operation duration.

**Results.** Under direct visualization of an F8/9.8 ureteroscope, the magnetic sheath could firmly attach to the magnetic bead inside the bladder and could easily pull out 5 to 15 beads each time. It took about 5 minutes to remove all of the 125 magnetic beads by utilizing our magnetic sheath.

**Conclusions.** The self-made magnetic sheath can make the task of removal of magnetic foreign bodies easy to urologists, requiring less time and surgical skills. The new equipment provides a new method for urologists to deal with the challenging task of removing metal vesical foreign bodies which were self-inserted for masturbation. **Zeng S-X, Li H-Z, Zhang Z-S, Lu X, Yu X-W, Yang Q-S, Ma C, Xu C-L, and Sun Y-H. Removal of numerous vesical magnetic beads with a self-made magnetic sheath. J Sex Med 2015;12:567–571.**

**Key Words.** Autoerotism; Foreign Body; Magnetic Beads; Urinary Bladder

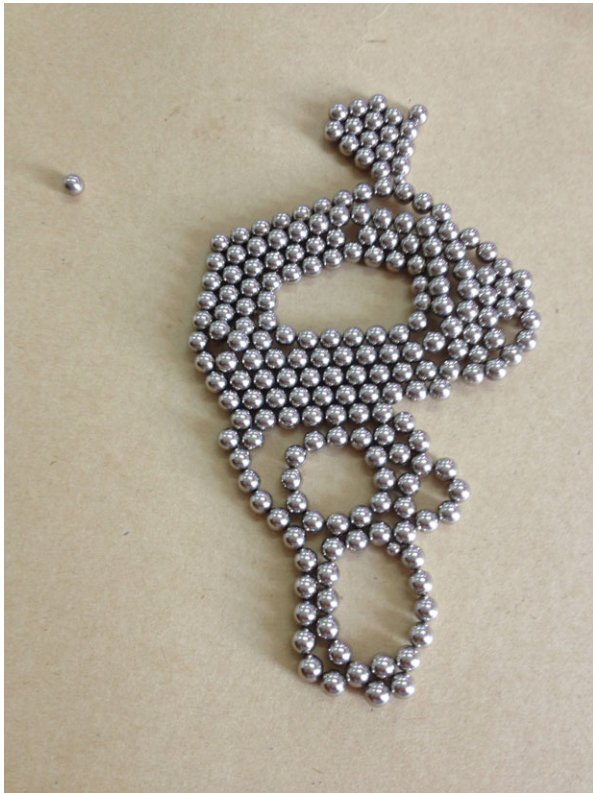
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## Introduction

The most common motive associated with foreign bodies of the genitourinary tract is autoerotic stimulation or sexual curiosity [1,2]. Van Ophoven and deKernion reviewed more than 800 single case reports on foreign bodies and found masturbation and sexual curiosity are the leading causes of urethral or vesical foreign bodies. Different types of foreign bodies in the bladder



**Figure 1** Magnetic beads measuring 3 mm in diameter, attaching each other strongly, can be transformed into different shapes.

have been reported, the majority of them are really impressive [3,4]. How to remove these foreign bodies in the bladder with the least trauma to the patients poses a great challenge to the urologist. Imagination and surgical skill are essential for a urologist to retrieve a vesical foreign body, which depend on the nature of the foreign body. To the limit of our knowledge, nephroscopes, Yttrium aluminium garnet laser, and even ureteral catheter have been creatively used by urologists to remove different kinds of vesical foreign bodies [2,5,6]. Herein, we described an unusual case of large numbers of vesical magnetic beads self-inserted by a university student for sexual excitement, and we created a novel method to remove these magnetic beads efficiently and conveniently.

## Patients and Methods

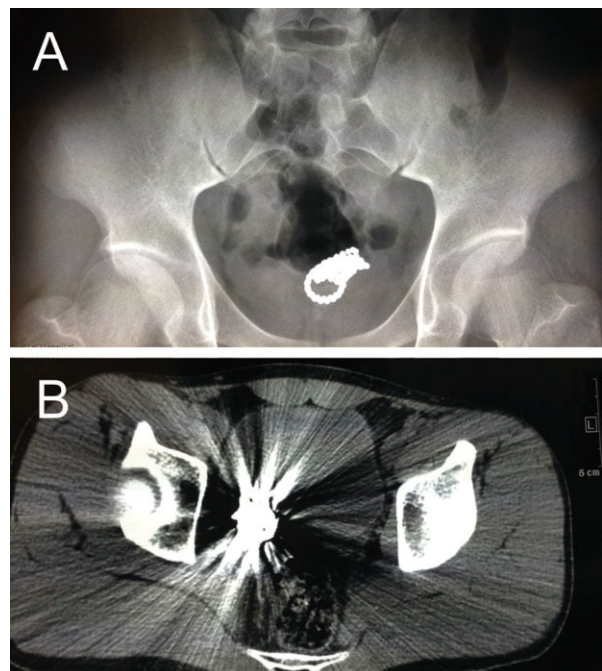
### Case Presentation

A 21-year-old unmarried university student with no history of psychiatric disorder was admitted to our emergency room, complaining of gross hema-

turia, frequent urination, and acute lower abdominal pain when walking or urinating. The patient embarrassedly informed us that he accidentally inserted more than one hundred small magnetic beads into his urethra about 1 week earlier, the reason why he did this was that he coincidentally found inserting the magnetic beads (Figure 1) into urethra could gain sexual satisfaction. He had tried such kind of behavior several times, but the magnetic beads chain unexpectedly broke during masturbation last week. He strongly hoped we could deal with the foreign body in a minimally invasive way. Physical examination was unremarkable, except for a slight tenderness in the suprapubic region. Urinalysis showed leukocyturia and hematuria, but urine culture was negative. An anteroposterior pelvic X-ray showed magnetic beads curled up completely in the bladder (Figure 2A). Computed tomography (CT) was unable to distinguish the foreign body and peripheral structure because of metal artifacts (Figure 2B).

### Technique Innovation

In order to remove these magnetic beads safely and efficiently, we came up with a novel method to remove these foreign bodies by taking advantage



**Figure 2** Anteroposterior pelvic X-ray demonstrated numerous metal beads curled up in the bladder (A). The effect of pelvic plain computed tomography (CT) scan was affected by metal artifacts.

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