Accidental Bladder Injury during Elective Repair of a Strangulated Inguinal Hernia: A Preventable Complication with High Morbidity

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Abstract

Urinary bladder injury is usually rare and asymptomatic, and can occur during herniorrhaphy for misdiagnosed sliding hernia. It’s necessary to recognize a iatrogenic injury intra operatively, and institute treatment in the same operative session. Preoperative diagnosis can prevent possible to the bladder and ureter surgery and lead to quick recovery. The radiological examination is needed before any surgery, especially when the patient has concomitant urinary symptoms. If bladder hernia is suspected, we should imperatively perform preoperative radiology including ultrasound cystography, CT scan or MRI. Keeping a bladder catheter in situ can alert the surgeon in the event of bladder surgery.

Keywords: Bladder hernia, inguino scrotal hernia repair, retrograde cystography.

BACKGROUND

Inguinal hernia is a very common surgical disease world-wide. A sliding hernia is a type of hernia in which the contents one portion of a body cavity extends with the hernia sac into another body cavity. In a sliding bladder hernia, the urinary bladder herniates with the inguinal sac itself. [1] The main signs are : irreducible mass in the inguinal area, accompanied by urinary symptoms like urinary retention, difficulty with urination, and intermittent stages of urination, and this can lead to severe complications as bladder incarceration and necrosis, bladder hemorrhage, obstructive bladder dysfunction, and even renal failure [1, 2].

PRESENTATION OF CASE

A 69 year old man was referred to the emergency department of our surgical facility in may 2019 with abdominal pain and large inguino scrotal swelling hernia that appeared one week ago, he had no abnormalities and no surgical history, the examination revealed an inguinal hernia that extended to the scrotum that was non-reducible.

We didn’t do any radiology examinations. The patient underwent an open pre-peritoneal inguinal herniorrhaphy and the bladder was reduced with an injury to the bladder wall.
Catheterisation may also reduce the size of the hernia, nocturia, dysuria, and hematuria may be related to the bladder outlet obstruction [18], or secondary infection can accompanies that condition.

Cianco et al., reported that only 7% of the patients in their series had preoperative diagnosis, and 16% of the patients had the diagnosis after postoperative complications occurred [19]. As a result, for all patients older than 50 years of age for whom inguinal hernia repair is being planned, preoperative exclusion of this pathology should be made [20].

In conclusion, urinary bladder can herniate into the inguinal canal even though this pathology is rare. The preoperative diagnosis is important to prevent complications [21]. Although the conventional modalities are successful in making the diagnosis, CT can be an important aid in diagnosis [21].

**REFERENCES**


