Hydronephrosis Secondary to Sliding Inguinal Hernia Containing the Ureter

Walid Atef Massoud, Pascal Eschwege, Pascal Hajj, Ayman Awad, Lahbib Aoubid Iaaza, Joseph Chabenne, Yacine Hammoudi, Stéphane Droupy, Gérard Benoit

INTRODUCTION
Herniation of the ureter occurs infrequently in a sliding inguinal hernia. Significant herniation may cause ureteral obstruction leading to hydronephrosis.(1,2)

CASE REPORT
A 62-year-old man presented with the left flank pain. Physical examination revealed a left reducible inguinal hernia. Ultrasoundography showed a mild left ureterohydronephrosis. Computed tomography scan demonstrated a loop of the left ureter in the inguinal hernia sac (Figures 1 and 2).

At operation, a large indirect sliding inguinal hernia was found. The ureter was dissected free of the sac, then reduced, and herniorrhaphy was done. Convalescence was uneventful and follow-up ultrasonography showed resolving of the left hydronephrosis.

DISCUSSION
Scrotal herniation of the ureter is an extremely rare and often misdiagnosed condition with
possible serious surgical complications. It is often determined during inguinal hernias surgery or sometimes fortuitously.\(^{(1)}\) Most reported cases have occurred in obese men during the 5\(^{th}\) and 6\(^{th}\) decades of life.\(^{(2,3)}\) However, there may be another factor, such as the existence of a redundant ureter, which is located over the spermatic cord.\(^{(4)}\)

Two anatomical variations of ureteral hernia have been reported. Almost in 80% of cases, the ureter slides beside the peritoneal sac (paraperitoneal type), which frequently contains other sliding organs, usually the colon. The other is characterized by the absence of a peritoneal sac; the herniated ureter is hidden within the retroperitoneal fat (extraperitoneal type).\(^{(2,4)}\)

Herniation of the ureter may cause ureteral obstruction leading to hydronephrosis. Surgeons must be aware of this condition in order to carefully preserve ureteral integrity and avoid ureteral injury during hernia repair.

CONFLICT OF INTEREST
None declared.

REFERENCES


