

## Ureterocele: Cobra Head Sign in a CT Urography

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### Abstract

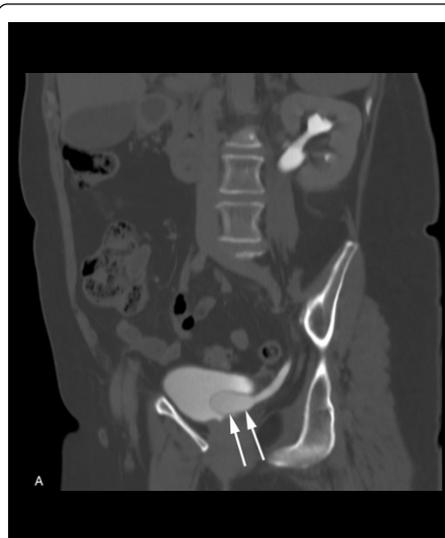
A 65-year-old woman with previous history of multiple urinary tract infections visited the emergency department with a one-day history of left back pain and dysuria. CT urography showed the classical cobra head sign of a simple ureterocele in the bladder.

### Keywords

Ureterocele, Urology signs, CT urography

### Case

A 65-year-old woman with previous history of multiple urinary tract infections visited the emergency department with a one-day history of left back pain and dysuria. CT urography showed a simple ureterocele in the left ureter (Figure 1, arrows) with the enlarged contrast-filled distal ureter protruding into the bladder, and the ureteral lumen separated from the contrast-filled bladder by the moderately hypodense combined thickness of the urethral wall and prolapsed bladder mucosa, producing the typical "cobra head" appearance. The cobra head sign is classically observed with intravesical ureterocele, additionally termed orthotropic considering it originates from a ureter with a normal insertion into the trigone [1]. Intravesical ureterocele are



**Figure 1:** A coronal oblique CT urography shows a simple ureterocele (arrows) in the left ureter.



**Figure 2:** 3D Multiplanar reconstruction (MPR) showing a normal collecting system with no evidence of hydronephrosis.

rarely symptomatic but can be associated with urinary tract infection and obstruction. In this case, no hydronephrosis is seen (Figure 2) and the patient was managed with antibiotics.

## Reference

1. Chavhan GB. 2002. The cobra head sign. *Radiology* 225(3): 781-782. <https://doi.org/10.1148/radiol.2253011206>

## Conflict of Interest

The authors declared no conflict of interest.