

## **Bifid Ureters: Arising Directly from the Separate Calyces and Renal Pelvis of the Kidney: A Case Report**

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**Abstract :** The present case report describes bifid ureters arising directly from the separate calyces and renal pelvis of the kidney. It was a single common ureter leading away from the bladder, which was separated into incompletely duplicated ureters near the level of the anterior superior iliac supine. These two branches then entered the left kidney through their own courses. Each ureter traveled anterior and posterior to the renal vein, respectively. These two ureters formed a Y-shaped pattern. One ureter coursed anterior to the renal vein with shorter length, and it terminated at the renal pelvis that was divided into major calices in approximately lower two thirds of the kidney. The other ureter coursed posterior to the renal vein with longer length, terminating at approximately the upper third of the kidney. The renal calices in the upper third of the kidney were directly connected to the posterior ureter, whereas the other major calices in the lower two thirds of the kidney formed the renal pelvis connecting to the anterior ureter. Thus, convergence of the major calices was separated according to the terminations of two ureters. These anomalous ureters were traced to the calices of the kidney, thereby providing a reference of a rare variation of the ureter. The bifid ureters arising from the separate calyces and renal pelvis should be considered by radiologists when evaluating images and diagnosing possible complications of these anomalies.

**Keywords :** bifid ureters, kidney, major calices, renal pelvis

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