## **CLINICAL IMAGES**

## Acute left flank pain

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Bedside ultrasound is becoming a very important tool in emergency medicine. One of the staples of bedside ultrasound is its potential in assisting the clinician with information on local anatomy and organ function.

A previously healthy 44-year-old male presented to the emergency department with acute dysuria and left flank pain. A renal bedside ultrasound was obtained and showed excellent urine flow into the bladder from bilateral duplicated ureters (Fig. 1) and no hydronephrosis. An acute ureteral obstruction was therefore excluded.

The patient was subsequently diagnosed with a urinary tract infection in the setting of duplex collecting system. No renal calculus was detected on computed tomography.

He received antibiotic and fluid hydration management in the emergency department and was discharged with close outpatient urology follow-up.

Complete ureteral duplication is a rare condition occurring in about 0.2–0.8% of the population [1–3] and is often detected incidentally. A symptomatic patient can present with findings such as ureteropelvic junction obstruction, vesicoureteric reflux, or urinary tract infection resulting in parenchymal scarring [1–3]. Patients with this diagnosis require close urology follow-up for thorough renal and collecting system assessment. Therapeutic or prophylactic surgical intervention and prophylactic treatment with antibiotics might be indicated to prevent renal dysfunction [1–5].

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Fig. 1 Bladder ultrasound using power Doppler and B-mode: the still image shows a strong ureteral flow into the bladder from the left duplicated ureteral os

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