

中文題目：腹部超音波下的 pancake kidney

英文題目：Pancake kidney: incidental finding on sonogram

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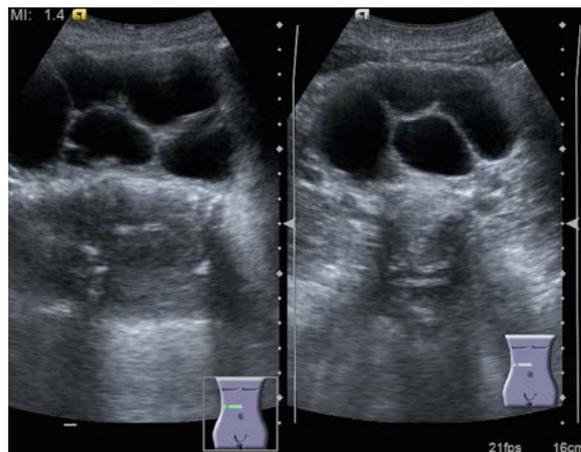
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Introduction

Pancake, disc, shield or doughnut kidney is that joined at the medial borders of each pole to form a doughnut or ring-shaped mass. There are 2 types of renal ectopia: simple renal ectopia and crossed renal ectopia (i.e., crossed ectopia with fusion, crossed ectopia without fusion, solitary crossed ectopia and bilateral crossed ectopia)¹.

Case Presentation

An 29-year-old man received abdominal sonography that right kidney was not visualized in its normal anatomic position, but an ill-defined cystic lesion was identified at lower abdomen, around anterior to the lumbar spine. A computed tomography of abdomen confirmed a renal ectopia at lower abdomen, a condition known as pancake kidney.



Discussion

Pancake kidney is an extremely rare renal anomaly resulting from abnormal renal ascent and subsequent fusion. The incidence of crossed renal ectopia in India is 0.003%, detected by prenatal ultrasonography¹. The incidence of renal ectopia is 1 in 400 cases of autopsy and 85% of these occur with a fused kidney¹. Pancake kidney may be an incidental finding and is more common in men. However, they can present clinically with other genitourinary and vertebral anomalies, such as ureteropelvic junction obstruction, recurrent infection, recurrent calculus, increased incidence of malignancies¹. Other entities to be aware of, from purely and nomenclature point of view include horseshoe kidney and cross fused renal ectopia.



Pancake kidney can be displayed on ultrasound, computed tomography (CT), intravenous urography (IVU), magnetic resonance imaging (MRI) and scintigraphy²⁻³. Pancake kidney malformation is not necessarily associated with renal dysfunction but does require exclusion of concomitant anomalies, long-term follow-up for early detection of possible future complications, such as urinary outflow obstruction or obstructive uropathy.

References

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