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Open partial nephrectomy for Wilms' tumor in a cross-fused pelvic ectopic kidney

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ABSTRACT

Wilms' tumor is the most common pediatric solid renal tumor. Cross-fused renal ectopia is a rare congenital anomaly in which the left and right kidneys become fused and fail to ascend from the pelvis and abdomen. We report a case of a 5-year-old girl that underwent open partial nephrectomy on a cross-fused ectopic kidney "pancake kidney" after incidental discovery of a solid renal mass found to be a Wilms' tumor. Thorough review of the literature shows that this combination of Wilms' tumor in the setting of cross-fused renal ectopia has only been reported twice previously.

Cross-fused renal ectopia is a rare congenital anomaly in which the kidneys fuse in the pelvis and fail to properly ascend during development.¹ The true incidence of cross-fused renal ectopia is unknown; however, autopsy studies have estimated the prevalence to be around 1:2000 with a male predominance of 3:2.² The pancake kidney variant discussed in this case is one of the rarest subtypes of cross-fused renal

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