

CASE 076

AUTHORS: Dr. Ekta Jain, Dr. Sambit K. Mohanty.

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CASE HISTORY AND IMAGING PROFILE:

A 37-year-old male presented with a solitary, 4.6 cm left upper pole cortex-based renal mass. The general and systemic examination failed to reveal any other significant abnormality. His routine hematologic investigations were within normal limits. There was no significant personal or family history including history of cancer. There was no metastasis at the time of presentation. Left nephrectomy was done and sent for histopathologic evaluation.

PATHOLOGICAL PROFILE:

On gross examination, there was a 4.6 x 3 x 3 cm, tan-white, firm, mass in cortex of the upper pole. The cut surface was heterogenous, tan-white and focally cystic. On histologic evaluation, the mass showed a heterogenous profile composed of tightly packed, elongated, and anastomosing tubules lined by low-grade cuboidal cells merging with bland spindle cells in a focally myxoid stroma containing basophilic extracellular mucin. Few of the tubules showed tufting with focal papillary and tubulocystic pattern. Individual tumor cells display low-grade histology with rare mitosis, few cells showed clear cytoplasm while few areas showed oncocytic changes. Foci of intracytoplasmic vacuoles, and foamy macrophages were noted. Single focus of tumor cells showed high nuclear grade. The spindle cells were arranged in short fascicles of bland spindle cells. No sarcomatoid or rhabdoid differentiation was seen. (Figure 1A, 1B, 1C and 1D).