

Genitourinary Grossing Guidelines

Specimen Type: PARTIAL NEPHRECTOMY

Procedure:

1. Weigh and measure overall dimensions of specimen, size of kidney tissue, and size of perinephric fat.
 2. Inspect perinephric fat for tumor extension; inspect the renal parenchymal margin for tumor involvement; note the presence or absence of renal sinus fat.
 - a. Ink renal parenchymal margin in blue
 - b. Ink perinephric fat margin in black
 3. Serially section the specimen perpendicular to the long axis and perpendicular to the renal capsule or renal parenchymal margin.
 4. Describe tumor: location, demarcation, color, texture, hemorrhage/necrosis/cystic degeneration, extension into: renal sinus, vein, or perinephric fat, if applicable.
 5. Photograph the representative slices containing the largest dimension of tumor and the closest renal parenchymal resection margin.
 6. Look for additional lesions in the uninvolved kidney.
- For any solid or solid-cystic tumor > 2 cm → collect tissue for cytogenetics
 - For tumors < 2 cm or cystic tumor without solid component → do not need to collect tissue for cytogenetics

Gross Template:

Labeled with the patient's name (***) , medical record number (***) , designated "****" , and received [*fresh/in formalin*] is a(n) [*intact, disrupted, previously incised*] *** gram, *** x *** x *** cm partial nephrectomy.

Sectioning reveals a [*describe mass- size, focality, circumscription, encapsulation, color, consistency, necrosis, hemorrhage*]. The mass measures *** cm from the parenchymal margin and *** cm from the [*capsule/perinephric fat/Gerota's fascia*]. The mass is [*subcapsular/confined to the kidney/protruding into perinephric fat/invading into renal sinus fat/invading a vein structure*]. There is/no hemorrhage and necrosis in the tumor.

The uninvolved renal parenchyma is [*unremarkable or describe additional pathology*] on cut sections. No additional lesions or masses are identified. A portion of tumor tissue is placed in RPMI and sent for cytogenetics studies. Representative sections are submitted [*describe cassette summary*]. Gross photographs are taken.

Ink key:

Parenchymal margin: blue

Capsule/perinephric fat margin: black

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Cassette Submission: 5-6 cassettes

- One section of kidney away from tumor if a good portion of uninvolved kidney is present - try to include cortex and medulla.
This should be placed in cassette A1 (It will be a pink block, which includes 1 PAS stain).
- Tumor:
 - o From areas with different color or texture
 - To include areas with necrosis
 - To include relationship to normal renal parenchyma
 - 1-2 sections with closest renal parenchymal margin
 - 1 section with perinephric fat invasion, if present
 - 1 section with renal sinus fat invasion, if present
 - 1 section with closest perinephric fat margin, if present
 - o **If the tumor is 3 cm or smaller in size – submit it entirely**