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.

   • For any solid tumor >3 cm → collect tissue for cytogenetics
   • For tumors <3 cm or cystic tumors → 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].

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 held in glutaraldehyde for possible future electron microscopy studies. 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

Cassette Submission: 5-6 cassettes
- Tumor:
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- 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

- One section of kidney away from tumor - try to include cortex and medulla
- If the tumor is 3 cm or less – submit it entirely