Genitourinary Grossing Guidelines

Specimen Type: NEPHROURETERECTOMY (resection)

Procedure:

- 1. Weigh and measure overall dimensions of specimen. Ink the surface of kidney/Gerota's fascia or perinephric fat. Describe external surface of ureter and palpate for tumor in ureter, ink ureter differentially following the ink codes below.
- 2. Inspect perinephric fat for adrenal (usually absent). Locate renal arteries and vein. Remove vascular margins and place in one cassette, en face.
- 3. Measure the length and diameter (range in diameter) of the ureter and bladder cuff if present.
- 4. If a bladder cuff is present, amputate it, radially section centering the ureteral orifice, and submitted entirely in 2-3 cassettes.
- 5. If bladder cuff is not present and mass is not close to distal ureteral margin, shave the distal ureter margin. If mass is close to distal ureter margin, a perpendicular section should be taken.
- 6. Open ureter along its length. Examine ureteral mucosa.
- 7. At renal hilum, push one probe through renal pelvicalyceal system and push through renal parenchyma of superior pole.
- 8. Place second probe in renal pelvicalyceal system and push through renal parenchyma of inferior pole.
- 9. Using 2 probes as guides, divide kidney in two complete halves, cutting longitudinally through the renal pelvis. Completely open pelvis and calyces.
- 10. Measure kidney. Examine pelvicalyceal mucosa
- 11. Describe mucosal tumors, including the number, size, shape, location, distance from the pelvi-calyceal junction and distal margin
- 12. Pin the ureter, photograph the entire ureter and half of the kidney. If tumor is friable, fix overnight.
- 13. Take transverse sections of the tumor and ureter / take sections of tumor and pelvis. Describe extent of invasion and measure depth of invasion and distance to circumferential/deep margin.
- 14. Document if the ureter mass causes strictures or dilatation.
- 15. If tumor is small enough, submit entire tumor proximal to distal sequentially. If tumor is big, submit representative sections to include the greatest depth of invasion and the closest circumferential/deep margin.
- Describe uninvolved mucosa of ureter and renal pelvis and measure ureter wall.

Gross Template:

MMODAL Command: "INSERT KIDNEY URETER"

It consist of a [right/left***], [weight***] gram, [measure in three dimensions***] cm nephroureterectomy. The kidney alone measures [measure in three dimensions***] cm. The ureter measures [***] cm in length and ranges from [smallest to largest***] cm in diameter. A bladder cuff margin is [not identified/present***].

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The pelvicalyceal system and proximal ureter [are/are not***] dilated. [Describe calculi if present, otherwise delete this sentence***] [Describe obstruction and dilation of calyces if present, otherwise delete this sentence***] There is a [measure in three dimensions***] cm [describe lesion, white-tan papillary/friable***] lesion located in the [describe renal pole if located in kidney OR prox/mid/distal area if located in ureter***]. Sectioning of the mass reveals [white-tan, friable, firm***] cut surfaces, and the mass measures [***] cm in deepest invasion. The mass is located [***] cm from the circumferential ureter margin, and [***] cm from the [ureteral/bladder cuff***] margin. The remaining pelvic and ureter mucosa is [pink-tan, unremarkable/smooth, roughened, granular, thickened, other***]. [Describe additional mucosal lesions or erythematous patches, otherwise delete this sentence***]

The uninvolved ureteral wall is tan-white and has a [***] cm average thickness. The renal parenchyma is [unremarkable, or describe additional pathology***]. The corticomedullary junction is [distinct/ poorly defined***]. [Describe the adrenal gland, weighing and measuring separate from the kidney. If not present, delete this sentence***] [Number/Multiple***] hilar lymph nodes are identified ranging from [smallest to largest***] cm in greatest dimension. Gross photographs are taken. Representative sections are submitted.

INK KEY:

Blue Kidney external surface and proximal third of ureter

Black Mid portion of ureter Green Distal third of ureter Red Bladder cuff margin

[insert cassette summary***]

Cassette Submission:

- o Renal vascular margin, en face
- Distal ureter margin, en face / bladder cuff margin, radially sectioned
- One section per 1 cm of tumor, up to 5 cassettes
 - To include renal pelvic tumor with invasion into muscularis, renal parenchyma, or hilar fat
 - To include ureter tumor with the deepest invasion into the ureteral wall, periureteric fat, closest circumferential margin.
- Submit additional mucosal lesions
- Grossly uninvolved renal pelvis, proximal and distal ureter.
- Renal parenchyma, representative
- Submit all lymph nodes

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