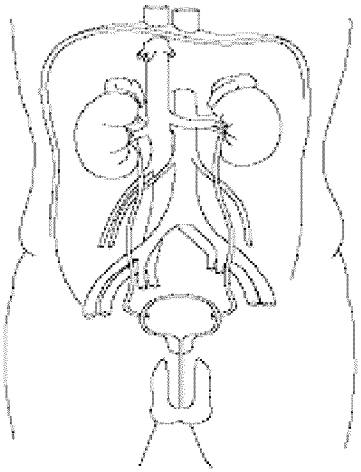
CALIFORNIA
TUMOR TISSUE REGISTRY

"TUMORS OF THE KIDNEY & BLADDER"

Study Cases, Subscription A

February 2007



California Tumor Tissue Registry
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Target audience:
Practicing pathologists and pathology residents.

Goal:
To acquaint the participant with the histologic features of a variety of benign and malignant neoplasms and tumor-like conditions.

Objectives:
The participant will be able to recognize morphologic features of a variety of benign and malignant neoplasms and tumor-like conditions and relate those processes to pertinent references in the medical literature.

Educational methods and media:
Review of representative glass slides with associated histories.
Feedback on consensus diagnoses from participating pathologists.
Listing of selected references from the medical literature.

Principal faculty:
Donald R. Chase, MD

CME Credit:
Loma Linda University School of Medicine designates this continuing medical education activity for up to 2 hours of Category I of the Physician's Recognition Award of the American Medical Association.
CME credit is offered for the subscription year only.

Accreditation:
Loma Linda University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to sponsor continuing medical education for physicians.

Contributor: Carol Solomon, M.D. **Case No. 1 - February 2007 A**
San Diego, CA

Tissue from: Urinary Bladder **Accession #30272**

Clinical Abstract:
A 57 year old man presented with a six month history of intermittent hematuria. Cystoscopy showed a large tumor within the bladder.

Gross Pathology:
The 15.5 x 13.7 x 9.5 cm bladder was filled by an 8.0 x 4.3 x 3.7 cm fungating papillary tan-pink mass, circumferentially adherent to the lower two-thirds of the posterior and anterior bladder walls.

Contributor: Loma Linda Pathology Group (np) **Case No. 2 - February 2007 A**
Loma Linda, CA

Tissue from: Urinary Bladder **Accession #30203**

Clinical Abstract:
This 83 year old man presented with gross painless hematuria. He had no elevation of his PSA. Cystoscopy showed a large tumor within the urinary bladder.

Gross Pathology:
The specimen consisted of an 8 x 6 x 1.5 cm aggregate of transurethrally removed tumor chips.

Contributor: Lester Thompson, M.D. **Case No. 3 - February 2007 A**
Woodland Hills, CA

Tissue from: Urinary Bladder **Accession #30250**

Clinical Abstract:

This 32 year old woman presented with vague lower abdominal pain, associated with a history of urinary tract infection. Antibiotics failed to resolve the symptoms and urinalysis showed microscopic hematuria. Colonoscopy was normal and intraoperative evaluation of ovaries, uterus and appendix showed no abnormalities.

Gross Pathology:

Not available.

Contributor: Mark Janssen, M.D. **Case No. 4 - February 2007 A**
Anaheim, CA

Tissue from: Right kidney **Accession #30147**

Clinical Abstract:

After two months of worsening right flank pain, this 73 year old woman was found on CT scan to have a right renal mass. She had had no hematuria or weight loss.

Gross Pathology:

The kidney resection specimen was received in fragments. In addition to grossly apparent renal parenchyma, several of the pieces, ranging from 2.7 to 3.2 cm in greatest diameter, had firm tan-white cut surfaces. Other fragments were largely fatty and yellow.

Special Studies:

Tumor cells positive: vimentin, smooth muscle actin, muscle specific actin, desmin, HMB45
Tumor cells negative: pankeratin

Contributor: Jin Wang, M.D. **Case No. 5 - February 2007 A**
Hangzhou, People's Republic of China

Tissue from: Right kidney **Accession #30115**

Clinical Abstract:

A 35 year old woman presented with vague pain in the right lumbar region and a 20 day history of low grade fever. Work-up found a right kidney mass.

Gross Pathology:

The kidney resection specimen was 14 x 8 x 8 cm and contained a 9 x 7 cm well-defined mass in the lower pole. The cut surface was variable, ranging from gray, to pink-tan to dark red. There was extensive necrosis.

Special Studies:

Strongly positive:	Desmin, SMA, vimentin
Focally positive:	Actin
Negative:	Cytokeratin, EMA, MyoD-1

Contributor: Anne Drejet, M.D. **Case No. 6 - February 2007 A**
Santa Barbara, CA

Tissue from: Kidney **Accession #30289**

Clinical Abstract:

A 58 year old woman was found to have cystic masses involving the right kidney and adrenal gland.

Gross Pathology:

Not available.

Contributor: Michele Cosgrove, M.D. **Case No. 7 - February 2007 A**
Glendale, CA

Tissue from: Left Kidney **Accession #30364**

Clinical Abstract:
Follow up of a 51 year old diabetic man in renal failure revealed a mass in his left kidney.

Gross Pathology:
In the mid portion of the 190 gram kidney was a 4.3 x 4.0 x 3.0 cm well-circumscribed hard pale tan mass.

Special Studies:
Positive: CD99, CD34, Vimentin
Negative: AE1/AE3, CD117, Desmin, actin

Contributor: Anne Drejet, M.D. **Case No. 8 - February 2007 A**
Santa Barbara, CA

Tissue from: Kidney **Accession #30290**

Clinical Abstract:
A 41 year old woman had a right kidney mass.

Gross Pathology:
The right kidney resection specimen with perinephric fat was 1210 grams. It was distorted by a 14 x 12 x 10 cm tumor which left a thin rim of kidney at one pole. The tumor penetrated the renal capsule, extending into surrounding fat. The cut surface was lobulated dense white parenchyma with focal yellow necrosis.

Special Studies:
Positive: CD99, vimentin, SMA (focal), CD10
Negative: CK-7, CK-20, CAM5.2, EMA, Ber-EP4, myo-D1, CD56, HMB-45, FLI-1, S-100, desmin, CD23, CD117, Estrogen & Progesterone receptors

Contributor: Phillip Gordon, M.D. **Case No. 9 - February 2007 A**
Winter Haven, FL

Tissue from: Left kidney **Accession #30185**

Clinical Abstract:
A 69 year old woman had a left renal mass.

Gross Pathology:
The 244 gram resection specimen included a 2.5 x 2.3 x 1.5 cm fleshy dark red-brown mass in the upper pole of the kidney, filling one of the calyces. The mass was diffusely hemorrhagic, well encapsulated and confined to the kidney.

Contributor: Dawn Ellerson, M.D. **Case No. 10 - February 2007 A**
San Luis Obispo, CA

Tissue from: Kidney **Accession #30233**

Clinical Abstract:
An 86 year old woman presented with hematuria. Imaging studies showed a right renal pelvic mass involving the collecting system extending into the mid portion of the kidney.

Gross Pathology:
The 284 gram kidney contained a 5 x 4 x 3.5 cm ill-defined infiltrating mass that extended nearly to the renal capsule.