

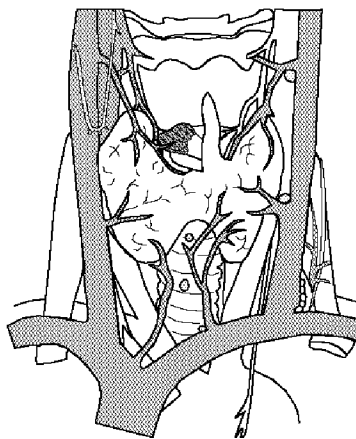


CALIFORNIA  
TUMOR TISSUE REGISTRY

## **“ENDOCRINE PATHOLOGY”**

**Study Cases, Subscription A**

**February 2001**



**California Tumor Tissue Registry**  
c/o: Department of Pathology and Human Anatomy  
Loma Linda University School of Medicine  
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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:**

Weldon K. Bullock, MD  
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: Pamela Boswell, D.O.  
San Diego, CA**

**Case No. 1 - February 2001**

**Tissue from: Adrenal gland**

**Accession #28591**

**Clinical Abstract:**

This 48 year old male presented with anemia and right flank pain. A CT scan revealed a right adrenal mass. His total urine metanephrine was 1.9 mg/24 hours (normal 0-1.2). Serum calcium, cortisol and ACTH and urine vanillylmandelic acid values were all normal.

**Gross Pathology:**

The 4.9 x 2.8 x 2.1 cm gland was bisected to reveal a well-circumscribed, lobulated, tan-brown mass measuring 2.2 x 2.1 x 1.5 cm and weighing 12.0 grams. Focal hemorrhage and cystic degeneration were noted.

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**Contributor: LLUMC Pathology Group (drc)  
Loma Linda, CA**

**Case No. 2 - February 2001**

**Tissue from: Adrenal gland**

**Accession #27988**

**Clinical Abstract:**

After repeated visits for shortness of breath and chest pain, which migrated down to the left upper abdominal quadrant, this 15-year-old female was found to have a mass near her spleen. The abdominal ultrasound showed a 10 x 10 cm vascular solid homogeneous mass.

**Gross Pathology:**

A 360 gram, 11.5 x 7.5 x 6.5 cm well-circumscribed golden-brown firm mass replaced a portion of the adrenal gland.

**Contributor: Thomas Heinz, M.D.**  
**Orange, CA**

**Case No. 3 - February 2001**

**Tissue from: Adrenal gland**

**Accession #28648**

**Clinical Abstract:**

During work-up for abdominal pain, this 37-year-old female was noted on ultrasound to have a right upper quadrant mass. A total right adrenalectomy was performed.

**Gross Pathology:**

The 511 gram, 10.0 x 10.0 x 9.0 cm portion of adrenal gland was replaced by a rubbery firm tan to red tan mass.

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**Contributor: John Sacoolidge, M.D.**  
**Sylmar, CA**

**Case No. 4 - February 2001**

**Tissue from: Adrenal gland**

**Accession #28721**

**Clinical Abstract:**

This 55-year-old male was diagnosed with Cushing's syndrome with hypertension of 180/110 and elevated free cortisol levels. A CT scan showed a 10.0 cm left adrenal mass.

**Gross Pathology:**

This 287 gram, 14.0 x 6.5 x 4.0 cm adrenal mass varied from red-brown and hemorrhagic to golden yellow to orange-tan. Focal areas of hemorrhage and cystic degeneration were scattered throughout the mass.

**Contributor: Pamela Boswell, D.O.**  
**San Diego, CA**

**Case No. 5 - February 2001**

**Tissue from: Adrenal gland**

**Accession #28951**

**Clinical Abstract:**

This 40-year-old male presented with bilateral hearing loss and cranial nerves III, VI and VII deficits. An MRI revealed multiple bilateral cranial nerve and ventricular subependymal nodules suspicious for schwannomas in the setting of neurofibromatosis, type II. Similar tumors were later identified in both adrenal glands.

**Gross Pathology:**

The specimen consisted of a 740 gram black mass that replaced the left adrenal gland. It measured 1.0 x 10.0 x 9.0 cm. Sectioning revealed a homogeneous, firm, black parenchyma.

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**Contributor: Gilbert Gersenfish, M.D.**  
**National City, CA**

**Case No. 6 - February 2001**

**Tissue from: Retroperitoneum**

**Accession #28836**

**Clinical Abstract:**

A 21-year-old pregnant, female was found to have a large retroperitoneal mass, adjacent to the pancreas.

**Gross Pathology:**

The 1,276 gram, 15.0 x 15.0 x 12.0 cm specimen consisted of an encapsulated mass with a somewhat myxoid and predominantly solid cut surface.

**Contributor: K. Greg Peterson, M.D.**  
**Sioux Falls, SD**

**Case No. 7 - February 2001**

**Tissue from: Thyroid gland**

**Accession #28994**

**Clinical Abstract:**

This 69-year-old male complained of a left neck mass. A subtotal thyroidectomy was performed.

**Gross Pathology:**

The 91 gram, 7.0 x 5.0 x 4.0 cm oblong portion of thyroid was almost completely replaced by lobular tan brown mass with scattered delicate calcifications, leaving a thin rim of residual glistening thyroid tissue.

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**Contributor: Carlos Araoz, M.D.**  
**Searcy, AZ**

**Case No. 8 - February 2001**

**Tissue from: Thyroid gland**

**Accession #28736**

**Clinical Abstract:**

Unilateral thyroid enlargement brought this 70-year-old female to medical attention. Serum calcitonin (collected 24 hours post-operatively) was 11 pg/ml (normal < 4.7).

**Gross Pathology:**

The resected portion of thyroid contained a 4.0 cm diameter gray-yellow mass.

**SPECIAL STUDIES (Outside Facility):**

Calcitonin	positive
Synaptophysin	positive

**Contributor: Mark Janssen, M.D.**  
**Anaheim, CA**

**Case No. 9 - February 2001**

**Tissue from: Thyroid gland**

**Accession #27848**

**Clinical Abstract:**

Because of a slowly growing right neck mass, this 72-year-old male underwent a total thyroidectomy.

**Gross Pathology:**

The 71.0 gram, 8.0 x 6.0 x 3.0 cm specimen contained an 8 cm mass with a central necrotic cavity.

SPECIAL STUDIES (Outside Facility):

Calcitonin                      negative

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**Contributor: Douglas A. Kahn, M.D.**  
**Sylmar, CA**

**Case No. 10 - February 2001**

**Tissue from: Thyroid gland**

**Accession #27842**

**Clinical Abstract:**

This 34-year-old female presented with a thyroid mass and underwent a total thyroidectomy.

**Gross Pathology:**

Within the left lobe of thyroid was an 18 gram, 4.0 x 4.0 x 3.0 cm homogenous gray-tan, firm tumor with only a thin rim of brown thyroid parenchyma.