

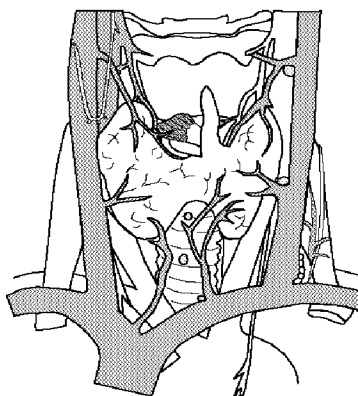


CALIFORNIA  
TUMOR TISSUE REGISTRY

## **“ENDOCRINE PATHOLOGY”**

**Study Cases, Subscription A**

**November, 2004**



**California Tumor Tissue Registry**  
c/o: Department of Pathology and Human Anatomy  
Loma Linda University School of Medicine  
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Web site & Case of the Month: [www.cttr.org](http://www.cttr.org)

**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, M.D.  
San Diego, CA**

**Case No. 1 - November 2004**

**Tissue from: Thyroid**

**Accession #29413**

**Clinical Abstract:**

A 22-year-old male complained of hoarseness for two months. A 3.0 cm thyroid nodule was identified on subsequent physical examination.

**Gross Pathology:**

The specimen consisted of a 5.0 x 3.0 x 1.5 cm thyroid lobe with a 3.0 x 2.5 x 1.5 cm soft , encapsulated, well-circumscribed, pink-brown nodule with focal hemorrhage.

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**Contributor: Brad Adler, M.D.  
Ventura, CA**

**Case No. 2 - November 2004**

**Tissue from: Thyroid**

**Accession #29597**

**Clinical Abstract:**

During her third trimester of pregnancy, this 37-year-old female noticed a mass in her right thyroid. Fine needle aspiration was non-diagnostic. A right thyroid lobectomy was performed.

**Gross Pathology:**

The soft dark red thyroid tissue weighed 16 grams and measured 5.0 x 3.0 x 2.5 cm.

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

**Case No. 3 - November 2004**

**Tissue from: Thyroid**

**Accession #29664**

**Clinical Abstract:**

This 62-year-old male developed a nodule in the lobe of the thyroid.

**Gross Pathology:**

The firm to hard pink-tan lobe weighed 15 grams and measured 6.0 x 3.0 x 2.2 cm.

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**Contributor: Kenneth A. Frankel, M.D.**  
**Covina, CA**

**Case No. 4 - November 2004**

**Tissue from: Thyroid**

**Accession #30148**

**Clinical Abstract:**

A mass was noted in the left lobe of thyroid of this 73-year-old male. A thyroidectomy was performed.

**Gross Pathology:**

The 28 gram left lobe of thyroid gland measured 5.0 x 5.0 x 3.0 cm. Essentially the entire lobe of thyroid was replaced by a variegated tan-yellow to dark red mass measuring 4.2 cm.

**SPECIAL STUDIES (Outside):**

Calcitonin	positive
Thyroglobulin	positive
Synaptophysin	positive
Chromogranin	positive

**Contributor: Phillip C. Gordon, M.D.**  
**Winter Haven, FL**

**Case No. 5 - November 2004**

**Tissue from: Thyroid**

**Accession #29651**

**Clinical Abstract:**

A mass developed in the right neck of this 62-year-old male. A thyroid lobectomy was performed.

**Gross Pathology:**

The fleshy hyperemic partially necrotic tissue weighed 53 grams and measured 6.0 x 4.0 x 3.0 cm.

**SPECIAL STUDIES (Outside):**

Thyroglobulin	negative
Somatostatin	negative
Calcitonin	negative
Synaptophysin	negative
Chromogranin	positive
AE1/AE3	positive
TTF-1	positive
NSE	weak positivity

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

**Case No. 6 - November 2004**

**Tissue from: Thyroid**

**Accession #29562**

**Clinical Abstract:**

Six months after he had noticed a mass on his right side of his neck, this 64-year-old male developed hoarseness which persisted for six weeks, at which time he sought medical attention. Imaging studies showed a mass replacing most of the right thyroid.

**Gross Pathology:**

The 15.8 gram thyroid measured 6.0 x 4.0 x 1.5 cm and was essentially replaced by a friable red-tan mass with central cystic necrosis.

**SPECIAL STUDIES (Outside):**

Calcitonin	negative
Chromogranin	negative
CEA	negative
Thyroglobulin	positive in anaplastic cells
Keratin	positive in spindle cells
TTF-1	positive anaplastic cells

**Contributor: LLUMC Pathology Group  
Loma Linda, CA**

**Case No. 7 - November 2004**

**Tissue from: Pancreas**

**Accession #29725**

**Clinical Abstract:**

After three days of sharp abdominal pain, this 51-year-old female continued to have constant low-grade pain that persisted over the next six weeks. A CT scan showed a mass in the distal pancreas.

**Gross Pathology:**

The 102.5 grams resected distal pancreas was 10.5 x 6.4 x 4.5 cm and contained a 4.5 cm purple mass which, on cut surface, was multinodular, gray to red-tan, and focally hemorrhagic.

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**Contributor: Joel A. Roth, M.D.  
Summit, NJ**

**Case No. 8 - November 2004**

**Tissue from: Pancreas**

**Accession #29831**

**Clinical Abstract:**

Because of severe abdominal pain with fever and chills, this 19-year-old female was worked up for appendicitis. The CT revealed a 9.0 cm cystic mass anterior to the spleen.

**Gross Pathology:**

The 11.0 x 10.0 x 7.0 cm mass in the tail of the pancreas weighed 384 grams. The cut surface was composed of gray tissue, spongy, multiloculated and focally hemorrhagic.

**SPECIAL STUDIES:**

Alpha 1-Antichymotrypsin	positive
Alpha 1-Antitrypsin	positive
Chromogranin A	negative
AE1/AE3	rare cells immunoreactive
NSE	positive
Synaptophysin	negative
Vimentin	positive
ER	negative
PR	90% positive

**Contributor: Lowell Rodgers/Steve Romansky, M.D.  
Long Beach, CA**

**Case No. 9 - November 2004**

**Tissue from: Lung**

**Accession #29590**

**Clinical Abstract:**

Suffering from abdominal pain, this 21-year-old male had a CT scan done. A large right adrenal mass and multiple pulmonary nodules were noted. A wedge resection of the pulmonary metastases was performed.

**Gross Pathology:**

The 5.8 cm wedge of lung contained a 3.0 x 2.5 cm yellow-gray mass.

**SPECIAL STUDIES:**

Synaptophysin	positive
Vimentin	positive
NSE	positive
S100	negative
Keratin	negative
EMA	negative
Desmin	negative

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**Contributor: Jozef Kollin, M.D.  
Lakewood, CA**

**Case No. 10 - November 2004**

**Tissue from: Left adrenal**

**Accession #29430**

**Clinical Abstract:**

With a two year history of high blood pressure and headaches, work-up of this 36-year-old female revealed a 5.0 cm mass in the left adrenal.

**Gross Pathology:**

The 31 grams left adrenal gland had a thin rim of cortical tissue surrounding a 5.5 cm central tan brown tumor.