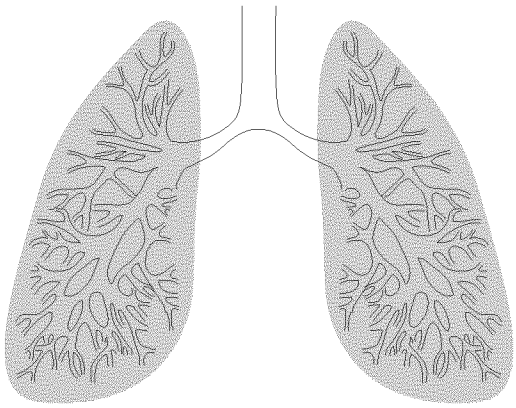
CALIFORNIA
TUMOR TISSUE REGISTRY

"TUMORS OF THE CHEST AND MEDIASTINUM"

Study Cases, Subscription B

September 2001



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:
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: Xuedong Wang, M.D. **Case No. 1 - September 2001**
Pasadena, CA

Tissue from: Mediastinum **Accession #28817**

Clinical Abstract:

During work up for coronary artery disease, this 74-year-old male was found to have an anterior mediastinal mass.

Gross Pathology:

The 34 gram, 5.0 x 3.7 x 3.2 cm ovoid encapsulated mass had a variegated solid and cystic cut surface.

SPECIAL STUDIES (Outside facility):

AE1/AE3	positive
CD34	negative

Contributor: Usha Garg, M.D. **Case No. 2 - September 2001**
Oxnard, CA

Tissue from: Mediastinum **Accession #29364**

Clinical Abstract:

This 55-year-old Caucasian female reported acute onset of double vision, eyelid droop and generalized weakness. A CT scan showed a mediastinal mass. At surgery, the mass was easily removed and did not show any clinical evidence of invasion.

Gross Pathology:

The well-circumscribed firm nodule measured 4.0 x 3.0 x 2.5 cm.

Contributor: Harold Reikes, M.D. **Case No. 3 - September 2001**
Riverside, CA

Tissue from: Pleura, right lung **Accession #28020**

Clinical Abstract:

This 84-year-old Caucasian female was found to have a mass in the posterior recess of the right thoracic cavity. One year of watching showed gradual enlargement. A pleural-based pedunculated mass was excised.

Gross Pathology:

The 213 gram 11.0 x 8.0 x 5.0 cm ovoid, encapsulated mass consisted of vaguely lobulated rubbery pink-white tissue.

SPECIAL STUDIES:

AE1/AE3	negative
Vimentin	positive
CD-34	positive
Muscle specific actin	negative
Desmin	negative
Keratin	negative
S-100	negative

Contributor: R. M. Failing, M.D. **Case No. 4 - September 2001**
Santa Barbara, CA

Tissue from: Right lung **Accession #19420**

Clinical Abstract:

While undergoing treatment for a cutaneous lesion of the nose, this 32-year-old African-American male was found to have an asymptomatic right lung mass by chest x-ray. Skin tests for tuberculosis and Coccidioides were negative.

Gross Pathology:

The 319 gram right lung contained a 7.0 x 6.3 x 2.8 cm hard, bosselated, palpable mass that filled the middle lobe. The cut surface showed a well circumscribed but unencapsulated fibrous tumor with a hard gritty consistency.

Contributor: Xuedong Wang, M.D. **Case No. 5 - September 2001**
Pasadena, CA

Tissue from: Lung **Accession #29104**

Clinical Abstract:
A right lung mass was found in this 62-year-old male.

Gross Pathology:
Within the 528 gram right lung was a 17.0 x 16.0 x 5.5 cm mass that diffusely infiltrated 95% of the lower lobe. The cut surface was pale pink-tan and mucinous.

Contributor: Nelson J. Quigley, M.D. **Case No. 6 - September 2001**
Anaheim, CA

Tissue from: Lung **Accession #26127**

Clinical Abstract:
A routine chest x-ray showed a mass in the right upper lobe of this 63-year-old Caucasian male. He was a former smoker and had been exposed to asbestos for over 30 years.

Gross Pathology:
Within the 187 gram, 15 x 11 x 3.5 cm right upper lobe was an ill-defined 3.0 cm diameter soft ovoid gray tumor.

SPECIAL STUDIES (Outside facility):

Mucin	weakly positive
PAS	weakly positive

Contributor: LLUMC Pathology Group (kt) **Case No. 7 - September 2001**
Loma Linda, CA

Tissue from: Mediastinum **Accession #28537**

Clinical Abstract:
This 48-year-old male was found to have a mass in his anterior mediastinum.

Gross Pathology:
The red-tan, irregular mass was 131 grams and measured 14.0 x 9.0 x 3.0 cm.

Contributor: Mark Janssen, M.D. **Case No. 8 - September 2001**
Anaheim, CA

Tissue from: Chest wall **Accession #27850**

Clinical Abstract:
After a 4 week history of vague chest pain, night sweats, increasing fatigue, malaise and cough, this 31-year-old male noticed a mass on his anterior chest wall. A CT scan showed a mass involving the pleural space and chest wall.

Gross Pathology:
The 49 gram specimen consisted of multiple irregular fragments of soft white tissue.

SPECIAL STAINS (Outside facility):

LCA	positive
Ki-1	positive
EMA	positive
Desmin	negative
S100	negative
Keratin	negative
CD3	weakly positive
UCHL-1	weakly positive
L26	negative

Contributor: Kenneth Frankel, M.D. **Case No. 9 - September 2001**
Glendale, CA

Tissue from: Lung **Accession #29187**

Clinical Abstract:
This 59-year-old male was found to have a right upper lobe lung mass.

Gross Pathology:
The resected upper and middle lobes weighed together 175 grams. A central well-circumscribed mass was 3.9 cm in greatest diameter with a 'fish flesh' appearance to the cut surface.

SPECIAL STUDIES:

Vimentin	positive
Keratin	negative
CD20	negative
S100 protein	negative

Contributor: Thomas Canfield, M.D. **Case No. 10 - September 2001**
Montrose, CO

Tissue from: Left chest wall **Accession #28865**

Clinical Abstract:
This 43-year-old female noticed a subcutaneous mass on her chest wall for about 6 months. When it expanded rapidly she sought medical attention. Exam suggested extension from a mass underlying the latissimus muscle.

Gross Pathology:
The 60 gram specimen consisted of several nodules of dense yellow-tan tissue, the largest of which was 7 cm in greatest diameter.

SPECIAL STUDIES:

CAM5.2	negative
Desmin	negative
S-100	negative