CALIFORNIA
TUMOR TISSUE REGISTRY

General Pathology
Study Cases, Subscription B

April, 2007

California Tumor Tissue Registry
c/o: Department of Pathology and Human Anatomy
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Web site & Case of the Month: 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:
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: Lester Thompson, M.D. **Case No. 1 - April, 2007 B**
Woodland Hills, CA

Tissue from: Stomach **Accession #30270**

Clinical Abstract:

An 88-year-old man presented with abdominal pain and a recent history of hemoptysis. Endoscopic examination revealed a submucosal polypoid projection in the region of the gastric body.

Gross Pathology:

The mass measured 4.8 cm in greatest dimension and showed focal surface ulceration.

Special Studies:

Positive: CD117 (strong/diffuse positivity).
Negative: S-100 protein, Smooth muscle actin, Desmin, Keratin.

Contributor: Loma Linda Pathology Group (rc) **Case No. 2 - April, 2007 B**
Loma Linda, CA

Tissue from: Left breast **Accession #30378**

Clinical Abstract:

An 84-year-old man consulted his physician after noticing a mass in his left breast.

Gross Pathology:

The 4 gram, 2.4 x 1.5 x 1.1 cm specimen consisted of yellow, lobulated tissue.

Contributor: Donovan Hare, M.D. **Case No. 3 - April, 2007 B**
Redlands, CA

Tissue from: Left breast **Accession #30352**

Clinical Abstract:
A 51-year-old woman presented with a mass in the left breast.

Gross Pathology:
The 1620 gram, 20 x 17 x 9.5 cm left mastectomy specimen included a 15 x 6 x 4.5 cm portion of axillary tail. A 5.0 x 4.0 x 3.0 cm stellate mass with a gritty cut surface was present in the upper mid-portion of the breast with an adjacent 2.5 cm area of hemorrhage. In the inferior-lateral portion of the breast there was a 3.5 x 2.5 x 2.5 cm hard, pale pink-tan tumor moderately demarcated from the surrounding breast tissue.

Special Studies:
ER/PR = borderline; HER2 = Negative.

Contributor: Julio Ibarra, M.D. **Case No. 4 - April, 2007 B**
Fountain Valley, CA

Tissue from: Left breast & chest wall **Accession #30292**

Clinical Abstract:
A 69-year-old woman presented with a hard mass located centrally within the left breast. She underwent a mastectomy and sentinel node dissection. The nodes were negative. After surgery she was found to have a 6 cm recurrence in the left chest wall.

Gross Pathology:
The 55 gram, 6.5 x 4.9 x 3.4 cm recurrence specimen consisted of a well-circumscribed, ovoid white tumor measuring 6.0 x 4.5 x 3.0 cm. The tumor had a white fibrous cut surface and focally extended to the surgical margin.

Special Studies:
Positive: Pan-keratin (diffusely positive).

Contributor: Robert Zuch, M.D. **Case No. 5 - April, 2007 B**
Baldwin Park, CA

Tissue from: Left iliac bone & sacrum **Accession #30192**

Clinical Abstract:

A large expansive mass was identified in the left iliac bone on CT and MRI scans in a 58-year-old woman.

Gross Pathology:

The hemipelvectomy specimen contained a 12 cm diameter tumor, apparently arising from the sacrum. The tumor showed a chocolate-brown, variegated almost honeycomb appearance throughout, and it cut with a gritty sensation.

Special Studies:

Positive: Smooth muscle actin; Muscle specific actin (weakly).
Negative: CD31, CD34, Factor VIII, Pancytokeratin, EMA.

Contributor: Jin Mei, M.D. **Case No. 6 - April, 2007 B**
Hangzhou, China

Tissue from: Left femur **Accession #30327**

Clinical Abstract:

A 40-year-old woman presented with pain in the left knee and thigh which had been present for approximately three months. During surgery, destruction of the proximal end and periosteum of the femur was noted.

Gross Pathology:

A 9.0 x 6.0 x 6.0 cm mass was seen at the metaphysis of the femur. It resulted in cortical destruction and an exophytic mass. The cut surface was gray-red and soft.

Contributor: **Lester Thompson, M.D.**
Woodland Hills, CA

Case No. 7 - April, 2007 B

Tissue from: **Stomach**

Accession #30224

Clinical Abstract:

A 54-year-old woman presented with complaints of dysphagia and a 70-pound weight loss over the course of the preceding 7 months. The dysphagia was accompanied by nausea, early satiety and episodic epigastric pain. On physical examination a mass was palpable in the left upper quadrant. Upper endoscopy showed a "cobblestone" appearance to the stomach.

Gross Pathology:

Unavailable.

Contributor: **LLUMC Pathology (pjw)**
Loma Linda, CA

Case No. 8 - April, 2007 B

Tissue from: **Pancreatic body & tail**

Accession #30254

Clinical Abstract:

This 48-year-old woman was found to have a mass in the distal pancreas.

Gross Pathology:

The 462 gram, 12.0 x 9.0 x 6.0 cm distal pancreas was almost completely replaced by tumor. The cut surface revealed a yellow-brown, focally necrotic, focally cystic parenchyma.

Special Studies:

Positive: Alpha-1-Antitrypsin (diffuse); Vimentin (diffuse); Synaptophysin (focal).
Negative: CAM 5.2; Chromogranin.

Contributor: **Kenneth Frankel, M.D.**
Glendale, CA

Case No. 9 - April, 2007 B

Tissue from: **Pancreas**

Accession #30256

Clinical Abstract:

A mass was identified in the pancreas of a 61-year-old person (gender not specified).

Gross Pathology:

The distal portion of pancreas and attached spleen measured 8.0 x 6.0 x 4.0 cm. Within the pancreas was a sharply circumscribed, 5.0 x 5.0 x 4.0 cm, lobulated, pink-gray mass with a central gray-white area of induration.

Contributor: **Loma Linda Pathology Group (rc)**
Loma Linda, CA

Case No. 10 - April, 2007 B

Tissue from: **Mediastinum**

Accession #30314

Clinical Abstract:

A 73-year-old male presented with chronic abdominal pain and weight loss of four months' duration. He also complained of having to "raise his head" in order to sleep, and stated that it felt like something was pressing on his chest. CT of the chest, abdomen and pelvis revealed a 4.2 x 2.6 x 4.4 cm retrosternal soft tissue mass.

Gross Pathology:

The 26.6 gram, 4.2 x 4.0 x 2.5 cm well circumscribed portion of brown-tan tissue had a pink to red to yellow-tan cut surface.