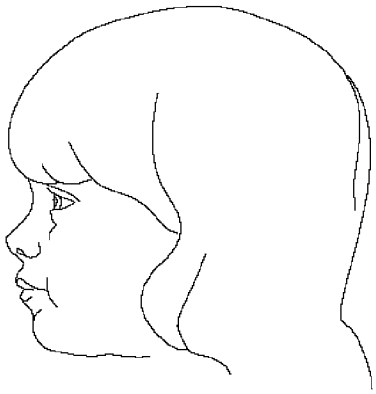
CALIFORNIA
TUMOR TISSUE REGISTRY

"PEDIATRIC PATHOLOGY"

Study Cases, Subscription A

May 2006



California Tumor Tissue Registry
c/o: Department of Pathology and Human Anatomy
Loma Linda University School of Medicine
11021 Campus Avenue, AH 335
Loma Linda, California 92350
(909) 558-4788
FAX: (909) 558-0188
E-mail: cttr@linkline.com
Web page: www.cttr.org
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:
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: Phillip Gordon, M.D. **Case No. 1 - May 2006**
Winter Haven, FL

Tissue from: Right humerus **Accession #30197**

Clinical Abstract:
This 16 year old male underwent surgery for fixation of a fracture of his right humerus.

Gross Pathology:
The 5 cm diameter specimen consisted of gritty gray tan tissue.

Contributor: Mark Janssen, M.D. **Case No. 2 - May 2006**
Anaheim, CA

Tissue from: Right arm **Accession #30226**

Clinical Abstract:
For about 3 months, this 14 year old boy had noticed a lump in his right arm that was tender to palpation. Physical exam showed a round, moveable mass over the right triceps.

Gross Pathology:
The 2.9 x 2 x 2 cm tan mass had a friable, caseous center.

Contributor: Loma Linda Pathology Group (cz) **Case No. 3 - May 2006**
Loma Linda, CA

Tissue from: Omentum **Accession #29973**

Clinical Abstract:

For about a month, this 11 year old boy had complained of abdominal pain, fatigue and night sweats. He had had about a 10-pound weight loss. Exam showed a firm mass filling both lower quadrants, extending above the umbilicus. There was no scrotal extension.

Gross Pathology:

A 1,279 gram, 17 x 15 cm omental mass was thinly encapsulated. The cut surface was rubbery, tan and focally gelatinous.

Special Studies:

Alk-1 strong, diffuse staining

Contributor: Alexander Lyster, M.D. **Case No. 4 - May 2006**
Victoria, TX

Tissue from: Left hip **Accession #29296**

Clinical Abstract:

A large, multinodular mass in this 15 year old boy was found to involve the gluteus maxiumus, gluteus medius and internal rectus.

Gross Pathology:

The 370 gram hard nodular gray-white to pink mass was 10 x 8.0 x 8.0 cm. The cut surface was dense scar-like gray with fibrous bands surrounding and mingling with muscle.

Contributor: Shirley Shen, M.D. **Case No. 5 - May 2006**
Long Beach, CA

Tissue from: Coccygeal back **Accession #30144**

Clinical Abstract:
This 10 day old baby boy had a fast-growing coccygeal mass.

Gross Pathology:
The soft tissue mass with overlying skin weighed 130 grams and was 9.5 x 9 x 3 cm. The cut surfaces were gelatinous yellow-tan with multiple foci of hemorrhage.

Special Studies:

Vimentin	strongly positive
Myogenin	negative
Actin	negative
Desmin	negative
CD34	negative
Synaptophysin	negative

Contributor: John McGill, M.D. **Case No. 6 - May 2006**
Pasadena, CA

Tissue from: Left ovary **Accession #30177**

Clinical Abstract:
About two months after noticing an abdominal mass, this 14 year old girl underwent left oophorectomy.

Gross Pathology:
The 1,108 gram, 18 x 15 x 10 cm ovarian mass had a cerebriform lobulated yellow-tan cut surface with delicate fibrous septa. There were small foci of hemorrhage but no definite necrosis.

Contributor: James Gibbs, M.D. **Case No. 7 - May 2006**
Huntington Park, CA

Tissue from: Left ovary **Accession #30136**

Clinical Abstract:
An 18 year old female experienced abdominal pain and was found to have a twisted left ovarian cyst.

Gross Pathology:
The 447 gram, 14 x 12 x 11 cm mass had a smooth glistening external surface. The cut surface showed multiple cysts, one of which contained hair. There were also extensive solid areas that varied from gray-red to pink, with a fleshy consistency. Additionally, there was a 1 cm diameter calcified area.

Contributor: John Sacoolidge, M.D. **Case No. 8 - May 2006**
Sylmar, CA

Tissue from: Testis **Accession #30207**

Clinical Abstract:
This 2 year old boy was noted to have an enlarged right testicle.

Gross Pathology:
The 10 x 4 x 4 cm specimen included testis and spermatic cord. A 4.5 cm diameter well encapsulated multinodular mass replaced most of the testis. The cut surface of the tumor was gray-tan to golden yellow.

Special Studies:

Alpha-feto protein	positive
Alpha-1 antitrypsin	positive
Keratin cocktail	positive
HCG	weak background positivity
CD30	negative

Contributor: James Henry, M.D. **Case No. 9 - May 2006**
Woodbridge, VA

Tissue from: Retroperitoneum **Accession #29051**

Clinical Abstract:

After 3 months of back pain, this 19 year old female was found to have an abdominal mass. A retroperitoneal mass, located between the lower aspect of the left kidney and the pelvic brim, was resected. At surgery, her ovaries were normal.

Gross Pathology:

The 980 gram mass was 14 x 12 x 10 cm and had alternating areas of soft tan tissue and hemorrhagic regions.

Special Studies:

S100	focally positive
GFAP	negative

Contributor: Alexander Lyster, M.D. **Case No. 10 - May 2006**
Victoria, TX

Tissue from: Anus **Accession #29858**

Clinical Abstract:

A mass filling the anal verge of this 3 month old baby girl was resected.

Gross Pathology:

The specimen consisted of a 3.5 x 2.5 x 2.5 cm firm nodular tumor with two adjacent 0.5 cm nodules. The cut surfaces were solid, dull gray-white with central mucinous degeneration. The overlying skin was intact.

Special Studies:

Myogenin	negative
Desmin	negative
Chromogranin	negative
S100	strongly, diffusely positive
PLAP	negative
CD99	spotty, 1 to 2+ positive
HMB45	negative
CD45	negative in lesional cells
CAM5.2	negative