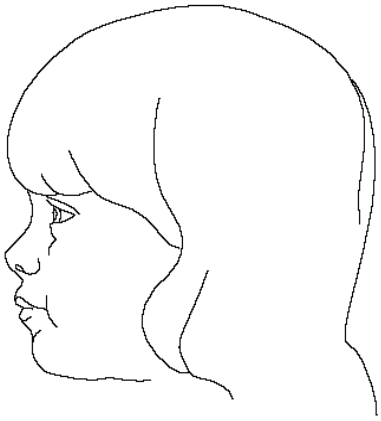
CALIFORNIA
TUMOR TISSUE REGISTRY

"PEDIATRIC PATHOLOGY"

Study Cases, Subscription B

April 1999



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: Nelson J. Quigley, M.D. **CASE NO. 1 - APRIL 1999**
Anaheim, CA

TISSUE FROM: Left distal femur **ACCESSION #27881**

CLINICAL ABSTRACT:

This 11-year-old male was experiencing a "bothersome" but not painful mass in the distal left thigh.

GROSS PATHOLOGY:

The specimen consisted of a 4.0 x 2.5 x 2.6 cm hemispherical portion of osteocartilaginous tissue, which weighed 13.5 grams.

CONTRIBUTOR: W. E. Carroll, M.D. **CASE NO. 2 - APRIL 1999**
Santa Barbara, CA

TISSUE FROM: Right ovary **ACCESSION #27391**

CLINICAL ABSTRACT:

This 17-year-old female had experienced hirsutism and had a right adnexal mass. The patient's plasma prolactin was mildly elevated and her right ovary was enlarged. A right salpingo-oophorectomy was performed.

GROSS PATHOLOGY:

The 7.8 x 5.8 x 3.7 cm ovary had a smooth glistening gray-tan serosal surface. The cut surface was gray-white and multicystic. The cysts contained tan fluid and varied from 3 to 7 mm in greatest dimensions. No discrete masses were identified.

CONTRIBUTOR: Loma Linda Pathology Group (drc) **CASE NO. 3 - APRIL 1999**
Loma Linda, CA

TISSUE FROM: Tongue **ACCESSION #27171**

CLINICAL ABSTRACT:

This 11-year-old female presented with a subcutaneous mass involving a large area of the left face, including the left lower eyelid, left cheek and left lower face with two-thirds of the left aspect of the tongue thickened. She has had in the past a history of neurofibromatosis. A left hemiglossectomy was performed.

GROSS PATHOLOGY:

The specimen weighed 40 grams and measured 9.0 x 3.5 x 3.0 cm with a smooth inferior surface and multipapulated anteriolateral surface.

CONTRIBUTOR: Herbert I. Harder, M.D. **CASE NO. 4 - APRIL 1999**
Glendale, CA

TISSUE FROM: Femur **ACCESSION #27891**

CLINICAL ABSTRACT:

This 14-year-old girl presented with a 6 month history pain for in the left femur.

GROSS PATHOLOGY:

The specimen consisted of numerous fragments of bone up to 3.3 cm in greatest diameter and associated soft tissue.

SPECIAL STUDIES:

NSE	1+ positive (of 3)
Chromogranin	negative

CONTRIBUTOR: Loma Linda Pathology Group (cz) **CASE NO. 5 - APRIL 1999**
Loma Linda, CA

TISSUE FROM: Pelvic mass **ACCESSION #27918**

CLINICAL ABSTRACT:

This 18-year-old female presented with abdominal pain. A mass was noted in the pelvic area.

GROSS PATHOLOGY:

The 1270 gram, 18.0 cm diameter specimen consisted of clotted blood mixed with friable tan tissue fragments ranging from 4.0 up to 12.0 cm in greatest diameter.

SPECIAL STUDIES:

013 (Ewing's sarcoma/PNET antigen)	positive
MIC-2 (12E7)	strongly positive
Keratin cocktail	negative
LCA	negative
Actin	negative
Desmin	negative

CONTRIBUTOR: Henry Slosser, M.D. **CASE NO. 6 - APRIL 1999**
Pasadena, CA

TISSUE FROM: Left kidney **ACCESSION #28505**

CLINICAL ABSTRACT:

The parents of this 2-year-old girl noted that her stomach looked larger than usual on the left side. Ultrasound and abdomen series found a abdominal mass replacing the left kidney, with the right kidney appearing normal.

GROSS PATHOLOGY:

The 706 gram, 15.5 x 12.5 x 11.0 cm specimen consisted of a large, firm bosselated mass partially encased in lobulated golden adipose tissue. Compressing the renal parenchyma was a 13.5 x 9.5 x 11.0 cm firm, bosselated tan tumor with a pseudocapsule.

CONTRIBUTOR: Donna Kell, M.D. **CASE NO. 7 - APRIL 1999**
Santa Barbara, CA

TISSUE FROM: Mediastinal mass **ACCESSION #28365**

CLINICAL ABSTRACT:

This 4-year-old Caucasian female presented with cervical lymphadenopathy and fever. Oral antibiotics resolved the fever, but there was no decrease in the size of the lymph nodes. Chest x-ray identified a mediastinal mass.

GROSS PATHOLOGY:

The 5.0 x 4.0 x 1.5 cm, 13.3 gram mass was completely surrounded by a thin fibrous capsule. It had a tan homogeneous cut surface without areas of necrosis or hemorrhage.

CONTRIBUTOR: Loma Linda Pathology Group (drc) **CASE NO. 8 - APRIL 1999**
Loma Linda, CA

TISSUE FROM: Abdominal mass **ACCESSION #28426**

CLINICAL ABSTRACT:

The parent's of this 3-year-old noticed their daughter's abdomen distended, especially in the evening. CT scan revealed an abdominal mass. An exploratory laparotomy and resection of the intra-abdominal, extra-peritoneal mass was performed.

GROSS PATHOLOGY:

The 572 gram, 15.5 x 11.0 x 7.0 cm specimen was a fleshy tan, lobulated, encapsulated mass. The cut surface was homogenously yellow-tan with rare gray-tan fibrous streaks.

SPECIAL STUDIES:

HMB-45 negative

CONTRIBUTOR: Mark Seifert, M.D. **CASE NO. 9 - APRIL 1999**
San Bernardino, CA

TISSUE FROM: Omentum **ACCESSION #27407**

CLINICAL ABSTRACT:

This 2-year-old Hispanic female had a history of episodes of abdominal pain accompanied by vomiting, anorexia, fever, chills and dysuria. On examination her right thigh was flexed over her abdomen which was moderately distended, rigid, and tender to light touch. Her CBC revealed a WBC of 15,300 with 76 seg, 5 bands, 13 lymphs, and 6 monocytes. Her Hgb was 10.8 gm/dl. A provisional diagnosis of acute appendicitis was made, she underwent laparoscopy which revealed a red cyst attached to the distal omentum by a helically twisted pedicle. The cyst was removed and an appendectomy performed.

GROSS PATHOLOGY:

The 220 gram, 13.7 x 12.0 x 2.9 cm specimen consisted of a red-purple thin-walled multicystic mass. The cysts varied from 1.5 to 3.0 cm and contained thin red to thick gelatinous fluid. Several ovoid yellow-white variegated lesions were also found within the tumor.

CONTRIBUTOR: Mark A. Lones, M.D. **CASE NO. 10 - APRIL 1999**
Orange, CA

TISSUE FROM: Kidney **ACCESSION 28080**

CLINICAL ABSTRACT:

This 18 month-old Hispanic female presented with a large abdominal mass. A left radical nephrectomy was performed.

GROSS PATHOLOGY:

The 947.6 gram, 17 x 12 x 10 cm specimen included a 7.3 x 4.5 x 2.0 cm residual compressed kidney. Most of the rest of the specimen consisted of spongy soft, homogeneous tan tumor.