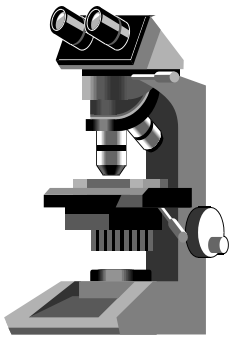
CALIFORNIA
TUMOR TISSUE REGISTRY



PEDIATRIC PATHOLOGY

Minutes – Subscription B

April 1999

SUGGESTED READING (General Topics from Recent Literature):

Allergic Esophagitis in Children. A Clinicopathological Entity. Walsh SV, et al. *Am J Surg Pathol* 1999; 23(4):390-396.

Is Calcifying Fibrous Pseudotumor a Late Sclerosing Stage of Inflammatory Myofibroblastic Tumor? Van Dorpe J., et al. *Am J Surg Pathol* 1999; 23(3):329-335.

Congenital Disseminated Malignant Rhabdoid Tumor. A Distinct Clinicopathologic Entity Demonstrating Abnormalities of Chromosome 22q11. White FV, et al. *Am J Surg Pathol* 199; 23(3):249-256.

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CASE NO. 1, ACCESSION NO. 27881 **APRIL 1999**

OAKLAND - Osteochondroma (6)
GLENDALE - Osteochondroma
SAN DIEGO(Naval Medical Center) - Osteochondroma (8)
INDIANA (Fort Wayne) - Osteochondroma
INDIANA (Foote Hospital) - Osteochondroma
IDAHO (Pocatello) - Osteochondroma
MINNESOTA (Little Canada) - Osteochondroma
WISCONSIN (Madison) - Osteochondroma
KENTUCKY (Louisville) - Osteochondroma
LOUISIANA (River Ridge) - Osteochondroma
FLORIDA (Miami) - Lipoma with ossification
FLORIDA (Ocala) - Osteochondroma
FLORIDA (Winter Haven) - Osteochondroma
MARYLAND (Sinai Hospital) - Osteochondroma
MARYLAND (National Naval Medical Center) - Osteochondroma (16)
MASSACHUSETTS (Longmeadow) - Osteochondroma
MASSACHUSETTS (Medfield) - Osteochondroma
NEW YORK (Impath) - Osteochondroma
JAPAN (Kurashiki) - Osteochondroma (2)
JAPAN (Hamamatsu) - Osteochon droma
CHINA (Sir Run Run Shaw Hospital) - Osteochondroma
SLOVENIA (Institute of Oncology) - Osteochondroma (2)

DIAGNOSIS:

OSTEOCHONDROMA, DISTAL FEMUR

T11710, M91803

REFERENCES:

Meneses MF, Krishnan U and Swec RG. Bizarre Parosteal Osteochondromatous Proliferation of Bone (Nora's Lesion) *Am J Surg Pathol* 1993; 17(7):691-697.

Bariani S, Bacchini P, Bertoni F and Campancci M. Periosteal Chondroma. A Review of Twenty Cases. *J Bone Joint Surg* (Am) 1983; 65(2):205-212.

Baues TW, Dorfman HD, Latham JT, Jr. Periosteal Chondroma. A Clinicopathologic Study of 23 Cases. *Am J Surg Pathol* 1982; 6(7):631-637.

CASE NO. 2, ACCESSION NO. 27391 **APRIL 1999**

OAKLAND - Hyperthecosis (6)
GLENDALE - Polycystic ovary
SAN DIEGO (Naval Medical Center) - Polycystic ovarian disease (8)
INDIANA (Fort Wayne) - Polycystic ovary (S-L syndrome)
INDIANA (Foote Hospital) - Polycystic ovarian disease
IDAHO (Pocatello) - Thecoma
MINNESOTA (Little Canada) - Polycystic ovary (Stein-Leventhal syndrome)
WISCONSIN (Madison) - Polycystic ovarian disease (Stein-Leventhal syndrome)
KENTUCKY (Louisville) - Polycystic ovary
LOUISIANA (River Ridge) - Polycystic ovary
FLORIDA (Miami) - Polycystic ovary (Stein-Leventhal)
FLORIDA (Ocala) - Multiple follicular cysts with thickened capsule consistent with polycystic ovary
FLORIDA (Winter Haven) - Polycystic ovary
MARYLAND (Sinai Hospital) - Polycystic ovarian syndrome
MARYLAND (National Naval Medical Center) - Polycystic ovaries (16)
MASSACHUSETTS (Longmeadow) - Polycystic ovary
MASSACHUSETTS (Medfield) - Ovarian stromal tumor with lipoid cell features
NEW YORK (Impath) - Polycystic ovarian disease
JAPAN (Kurashiki) - Polycystic ovary (PCO) (2)
JAPAN (Hamamatsu) - Polycystic ovary disease
CHINA (Sir Run Run Shaw Hospital) - Polycystic ovarian disease
SLOVENIA (Institute of Oncology) - Stein-Leventhal (2)

DIAGNOSIS:

POLYCYSTIC OVARY (STEIN-LEVENTHAL SYNDROME)
T87000, D2601

REFERENCES:

Coney P. Polycystic Ovarian Disease. Current Concepts of Pathophysiology and Therapy. *Fertil Steril* 1984; 42:667-682.
Hughesdon PE. Morphology and Morphogenesis of the Stein-Leventhal Ovary and So-Called "Hyperthecosis". *Obstet Gynecol Surv* 1982; 37(2):59-77.
Hutchinson JR, Taylor HB, Zimmerman EA. The Stein-Leventhal Syndrome and Coincident Ovarian Neoplasms. *Obstet Gynecol* 1966; 28(5):700-703.
Dahlgren E, Johansson S, Lindstedt C, et al. Women with Polycystic Ovary Syndrome Wedge Resected in 1956 to 1965. A Long Term Follow-Up Focusing on Natural History and Circulating Hormones. *Fertil Steril* 1992; 57(3):505-513.
Takahashi K, Eda Y, Abu-Musa A, et al. Transvaginal Ultrasound Imaging Histopathology and Endocrinopathy in Patients with Polycystic Syndrome. *Human Reprod* 1994; 9(7):1231-1236

CASE NO. 3, ACCESSION NO. 27171 **APRIL 1999**

OAKLAND - Plexiform neurofibroma (6)
GLENDALE - Neurofibromatosis
SAN DIEGO (Naval Medical Center) - Plexiform neurofibroma (8)
INDIANA (Fort Wayne) - Plexiform neurofibroma
INDIANA (Foote Hospital) - Plexiform neurofibroma
IDAHO (Pocatello) - Plexiform neurofibroma
MINNESOTA (Little Canada) - Plexiform neurofibroma
WISCONSIN (Madison) - Plexiform neurofibroma associated with von Recklinghausen's disease (neurofibromatosis)
KENTUCKY (Louisville) - Plexiform neurofibroma
LOUISIANA (River Ridge) - Plexiform neurofibroma
FLORIDA (Miami) - Plexiform neurofibroma
FLORIDA (Ocala) - Plexiform neurofibroma
FLORIDA (Winter Haven) - Plexiform neurofibroma
MARYLAND (Sinai Hospital) - Plexiform neurofibroma
MARYLAND (National Naval Medical Center) - Plexiform neurofibroma (16)
MASSACHUSETTS (Longmeadow) - Plexiform neurofibroma
MASSACHUSETTS (Medfield) - Plexiform neurofibroma
NEW YORK (Impath) - Plexiform neurofibroma
JAPAN (Kurashiki) - Plexiform neurofibroma (2)
JAPAN (Hamamatsu) - Intraneural neurofibroma
CHINA (Sir Run Run Shaw Hospital) - Plexiform neurofibroma
SLOVENIA (Institute of Oncology) - Plexiform neurofibroma (2)

DIAGNOSIS:

PLEXIFORM NEUROFIBROMA, TONGUE

T53000, M95400

REFERENCES:

Chalmers AH and Armstrong P. Plexiform Mediastinal Neurofibromas. A Report of Two Cases. *Br J Radiol* 1977; 50(591):215-217.

Akwari OE, Payne WS and Onofrio BM, et al. Dumb-Bell Neurogenic Tumors of the Mediastinum. Diagnosis and Management. *Mayo Clin Proc* 1978; 53(6):353-358.

Dines DE, Payne WS and Howard PH, Jr.: von Recklinghausen's Neurofibromatosis with Plexiform Medistinal Involvement. Report of a Case. *Dis Chest* 1966; 50(4):437-439.

Harkin JC and Reed RJ. Tumors of the Peripheral Nervous System. *Atlas of Tumor Pathology, Armed Forces Institute of Pathology*, 1969; Second Series, Fascicle 3.

CASE NO. 4, ACCESSION NO. 27891 **APRIL 1999**

OAKLAND - Clear cell chondrosarcoma (6)
GLENDALE - Osteosarcoma
SAN DIEGO (Naval Medical Center) - Poorly differentiated malignant, neoplasm, favor neuroendocrine (8)
INDIANA (Fort Wayne) - Paraganglioma
INDIANA (Foote Hospital) - Metastatic neuroendocrine neoplasm, possible pheochromocytoma
IDAHO (Pocatello) - Chondrosarcoma
MINNESOTA (Little Canada) - Chondroblastoma
WISCONSIN (Madison) - High grade sarcoma, not further classified
KENTUCKY (Louisville) - Chondroblastoma (? x-ray findings)
LOUISIANA (River Ridge) - Osteosarcoma
FLORIDA (Miami) - Chondrosarcoma
FLORIDA (Ocala) - Extra-adrenal malignant pheochromocytoma vs. ganglioneurosarcoma
FLORIDA (Winter Haven) - Metastatic carcinoma ? adrenal
MARYLAND (Sinai Hospital) - Metastatic pleomorphic sarcoma (rule out pleomorphic clear cell sarcoma of kidney)
MARYLAND (National Naval Medical Center) - Poorly differentiated malignant neoplasm, favor sarcoma (13); Malignant granular cell tumor (2); Osteosarcoma (1)
MASSACHUSETTS (Longmeadow) - Malignant fibrous histiocytoma
MASSACHUSETTS (Medfield) - Chondroblastoma
NEW YORK (Impath) - Metastatic ganglioneuroblastoma
JAPAN (Kurashiki) - Osteosarcoma (2)
JAPAN (Hamamatsu) - Malignant epithelioid schwannoma
CHINA (Sir Run Run Shaw Hospital) - Malignant chondroblastoma
SLOVENIA (Institute of Oncology) - Metastatic pheochromocytoma of adrenal carcinoma (2)

DIAGNOSIS:

METASTATIC PARAGANGLIOMA, FEMUR
T11710, M86801

CONSULTATION: J. Bruce Beckwith, M.D., National Wilms Tumor Study, Loma Linda University. "Metastatic Paraganglioma".

REFERENCES:

Odze R and Begin LR. Malignant Paraganglioma of the Posterior Mediastinum. A Case Report and Review of the Literature. *Cancer* 1990; 65(3):564-569.

CASE NO. 5, ACCESSION NO. 27918 **APRIL 1999**

OAKLAND - Peripheral neuroectodermal tumor (6)
GLENDALE - Ewing's sarcoma
SAN DIEGO (Naval Medical Center) - PNET/Ewing's (extra skeletal) (8)
INDIANA (Fort Wayne) - ES/PNET neoplasm
INDIANA (Foote Hospital) - PNET
IDAHO (Pocatello) - Ewing's sarcoma
MINNESOTA (Little Canada) - PNET
WISCONSIN (Madison) - Ewing's sarcoma/PNET
KENTUCKY (Louisville) - PNET/Ewing's sarcoma
LOUISIANA (River Ridge) - Ewing's sarcoma
FLORIDA (Miami) - Extraosseous Ewing's sarcoma; primitive peripheral neuroectodermal tumor
FLORIDA (Ocala) - Ewing's sarcoma
FLORIDA (Winter Haven) - Ewing's sarcoma
MARYLAND (Sinai Hospital) - PNET – Ewing's sarcoma of soft tissues
MARYLAND (National Naval Medical Center) - PNET/Ewing's sarcoma (16)
MASSACHUSETTS (Longmeadow) - Ewing's sarcoma/PNET
MASSACHUSETTS (Medfield) - Primitive neuroectodermal tumor (PNET)
NEW YORK (Impath) - Ewing's sarcoma/PNET
JAPAN (Kurashiki) - Primitive neuroectodermal tumor (PNET) (2)
JAPAN (Hamamatsu) - Desmoplastic small round cell tumor
CHINA (Sir Run Run Shaw Hospital) - Ewing's sarcoma
SLOVENIA (Institute of Oncology) - PNET

DIAGNOSIS:

PRIMITIVE NEUROECTODERMAL TUMOR (PNET/EWINGS), PELVIS
TY6000, M92603

CONSULTATION: Sharon W. Weiss, M.D., Emory University. "Mesenteric based abdominal mass, biopsy: Extraskeletal Ewing's Sarcoma".

REFERENCES:

May WA, Gishizlary ML, Lessnich SL, et al. Ewing Sarcoma 11; 22 Translocation Produces a Chimeric Transcription Factor that Requires the DNA-Binding Domain Encoded by FLI11 for Transformation. *Proc Natl Acad Sci* USA 1993; 90(12):5752-5756.

Zucman J, Melot T, Demaze C, et al. Combinational Generation of Variable Fusion Proteins in the Ewing Family of Tumours. *EMBO J* 1993; 12(12):4481-4487.

Schmidt D, Herman C, Jurgens H and Harms D. Malignant Peripheral Neuroectodermal Tumor and Its Necessary Distinction from Ewing's Sarcoma. A Report From the Kiel Pediatric Tumor Registry. *Cancer* 1991; 68(10):2251-2259.

Weidner N and Tjoe J. Immunohistochemical Profile of Monoclonal Antibody013: Antibody That Recognizes Glycoprotein p30/32 MIC2 and is Useful in Diagnosing Ewing's Sarcoma and Peripheral Neuroepithelioma. *Am J Surg Pathol* 1994; 18(5):486-494.

Shimada H, Newton WA, Jr., Soule EH, Qualman SJ, et al. Pathologic Features of Extraosseous Ewing's Sarcoma. A Report From the Intergroup Rhabdomyosarcoma Study. *Hum Pathol* 1988; 19(4):442-453.

OAKLAND - Wilms tumor (6)
GLENDALE - Wilms tumor
SAN DIEGO (Naval Medical Center) - Nephroblastoma (8)
INDIANA (Fort Wayne) - Wilms tumor
INDIANA (Foote Hospital) - Nephroblastoma
IDAHO (Pocatello) - Wilms tumor
MINNESOTA (Little Canada) - Wilms
WISCONSIN (Madison) - Wilms
KENTUCKY (Louisville) - Wilms tumor
LOUISIANA (River Ridge) - Wilms tumor
FLORIDA (Miami) - Wilms tumor
FLORIDA (Ocala) - Wilms tumor
FLORIDA (Winter Haven) - Neuroepithelioma (PNET)
MARYLAND (Sinai Hospital) - Wilms tumor
MARYLAND (National Naval Medical Center) - Wilms tumor (16)
MASSACHUSETTS (Longmeadow) - Wilms tumor
MASSACHUSETTS (Medfield) - Neuroblastoma
NEW YORK (Impath) - Nephroblastoma
JAPAN (Kurashiki) - Nephroblastoma (2)
JAPAN (Hamamatsu) - Nephroblastoma
CHINA (Sir Run Run Shaw Hospital) - Wilms tumor
SLOVENIA (Institute of Oncology) - Wilms tumor (2)

DIAGNOSIS:

WILMS TUMOR, KIDNEY
T71000, M89603

REFERENCES:

Call KM, Glaser T, Ito CY, et al. Isolation and Charaterization of a Zinc Finger Polypeptide Gene at Human Chromosome II Wilms Tumor. *Locus Cell* 1990; 60(3):509-520.

Haber DA, Buckler AG, Glaser T, et al. An Internal Deletion Within an 11p13 Zinc Finger Gene Contributes to the Development of Wilms Tumor. *Cell* 1990; 61(7):1257-1269.

Takeuchi S, Bartram CR and Ludwig R. Mutations of p53 in Wilms Tumors. *Mod Pathol* 1995; 8(5):483-487.

Tournade MF, Com-Nougue C, Voute PA, et al. Results of the Sixth International Society of Pediatric Oncology Wilms Tumor Trial and Study. A Risk-Adapted Therapeutic Approach in Wilms Tumor. *J Clin Oncol* 1993; 11(6):1014-1023.

OAKLAND - Ganglioneuroma (6)
GLENDALE - Inflammatory pseudotumor
SAN DIEGO (Naval Medical Center) - Ganglioneuroma (8)
INDIANA (Fort Wayne) - Ganglioneuroma
INDIANA (Foote Hospital) - Ganglioneuroma
IDAHO (Pocatello) - Ganglioneuroma
MINNESOTA (Little Canada) - Ganglioneuroma
WISCONSIN (Madison) - Ganglioneuroma
KENTUCKY (Louisville) - Differentiated ganglioneuroblastoma
LOUISIANA (River Ridge) - Ganglioneuroblastoma
FLORIDA (Miami) - Oncocytoma
FLORIDA (Ocala) - Ganglioneuroma
FLORIDA (Winter Haven) - Lipoblastoma involving ganglia and nerves vs. hibernoma
MARYLAND (Sinai Hospital) - Ganglioneuroma (16)
MARYLAND (National Naval Medical Center) - Ganglioneuroma
MASSACHUSETTS (Longmeadow) - Ganglioneuroma
MASSACHUSETTS (Medfield) - Ganglioneuroma
NEW YORK (Impath) - Ganglioneuroma
JAPAN (Kurashiki) - Lipoblastoma (1); Hibernoma (1)
JAPAN (Hamamatsu) - Ganglioneuroma
CHINA (Sir Run Run Shaw Hospital) - Hibernoma, ganglioneuroma
SLOVENIA (Institute of Oncology) - Matured ganglioneuroblastoma (2)

DIAGNOSIS:

GANGLIONEUROMA, POSTERIOR MEDIASTINUM

TY2300, M94903

REFERENCES:

Pascaud JL, Le Goff JJ, Pascaul E, et al. Thoracic Ganglioneuroma with Intra-Spinal Prolongations in Childhood. *Pediatr Radiol* 1980; 9(2):109-110.

Bender BL and Ghatak NR. Light and Electron Microscopic Observations on Ganglioneuroma. *Acta Neuropathol* (Berl) 1978; 42(1):7-10.

Mc Rae D, Jr., and Shaw A. Ganglioneuroma, Heterochromia Iridis, and Horner's Syndrome. *J Pediatr Surg* 1979; 14(5):612-614.

Bolande RP and Toroler WF. A Possible Relationship of Neuroblastoma to von Recklinghausen's Disease. *Cancer* 1970; 26(1):162-175.

OAKLAND - Lipoblastoma (6)
GLENDALE - Lipoblastoma
SAN DIEGO (Naval Medical Center) - Lipoblastoma (8)
INDIANA (Fort Wayne) - Lipoma
INDIANA (Foote Hospital) - Lipoblastoma (?tosis)
IDAHO (Pocatello) - Lipoma
MINNESOTA (Little Canada) - Lipoblastoma
WISCONSIN (Madison) - Fibrolipoma
KENTUCKY (Louisville) - Diffuse lipoblastomatosis
LOUISIANA (River Ridge) - Differentiated lipoblastoma
FLORIDA (Miami) - Lipoblastoma
FLORIDA (Ocala) - Lipoblastoma
FLORIDA (Winter Haven) - Lipoblastoma
MARYLAND (Sinai Hospital) - Lipoblastoma
MARYLAND (National Naval Medical Center) - Lipoblastoma (14); Well-differentiated myxoid liposarcoma (2)
MASSACHUSETTS (Longmeadow) - Lipoblastoma
MASSACHUSETTS (Medfield) - Myxoid lipoma with focal atypia
NEW YORK (Impath) - Lipoma/lipoblastoma
JAPAN (Kurashiki) - Lipoblastoma (2)
JAPAN (Hamamatsu) - Lipoblastoma
CHINA (Sir Run Run Shaw Hospital) - Lipoblastoma, lipoma with myxoid change
SLOVENIA (Institute of Oncology) - Lipoma (2)

DIAGNOSIS:

GIANT LIPOBLASTOMA WITH PROGRESSION TOWARD MATURE LIPOMA, PELVIS

TY6000, M88810

REFERENCES:

Francois A, et al. (Mesenteric Lipoblastoma with Changes in Chromosome 8: Use of Cytogenetics in the Diagnosis of Adipocytic Tumors in Children). *Ann Pathol* 1997; 17(6):406-411.

Beebe MM, et al. Omental Lipoblastoma. *J Pediatr Surg* 1993; 28(12):1626-1627.

Schulman H, et al. Case Report: Mesenteric Lipoblastoma. *Clin Radiol* 1992; 46(1):57-58.

Prando A, et al. Sonographic Features of Benign Intraperitoneal Lipomatous Tumors In Children—Report of 4 Cases. *Pediatr Radiol* 1990; 20(8):571-574.

OAKLAND - Lymphangioma/hemangioma (6)
GLENDALE - Hemangioma
SAN DIEGO (Naval Medical Center) - Cavernous hemangioma (5); Lymphangiomatosis (3)
INDIANA (Fort Wayne) - Lymphangiohemangioma
INDIANA (Foote Hospital) - Hemangioma
IDAHO (Pocatello) - Hemangioma
MINNESOTA (Little Canada) - Benign mesothelial hyperplasia
WISCONSIN (Madison) - Lymphangioma
KENTUCKY (Louisville) - Cystic lymphangioma
LOUISIANA (River Ridge) - Benign cystic mesothelioma
FLORIDA (Miami) - Torted pedunculated lymphangioma
FLORIDA (Ocala) - Multilocular peritoneal inclusion cysts
FLORIDA (Winter Haven) - Angioma
MARYLAND (Sinai Hospital) - Cystic mesothelioma (reactive vs. neoplastic)
MARYLAND (National Naval Medical Center) - Hemangioma (16)
MASSACHUSETTS (Longmeadow) - Cystic lymphangioma, omentum
MASSACHUSETTS (Medfield) - Infantile hemangioendothelioma
NEW YORK (Impath) - Torsion of cystic lymphangioma
JAPAN (Kurashiki) - Lymphangioma (2)
JAPAN (Hamamatsu) - Hemangioma
CHINA (Sir Run Run Shaw Hospital) - Angiolymphangioma
SLOVENIA (Institute of Oncology) - Verrucous hemangioma (1); A-V malformation (1)

DIAGNOSIS:

CYSTIC LYMPHANGIOMA, OMENTUM

T63850, M91730

REFERENCES:

Galifer RB, Pous JG, Juskiewenski S, et al. Intra-abdominal Cystic Lymphangiomas in Childhood. *Prog Pediatr Surg* 1978; 11:173-238.

Mennemeyer R and Smith M. Multicystic Peritoneal Mesothelioma. A Report with Electron Microscopy of a Case Mimicking Intra-Abdominal Cystic Hygroma (Lymphangioma). *Cancer* 1979; 44(2):692-698.

Beller AJ and Nach RL. Cystic Lymphangioma of the Greater Omentum. *Ann Surg* 1950; 132:287.

Galifer RB, Pous JG, et al. Intra-abdominal Cystic Lymphangiomas in Childhood. *Prog Pediatr Surg* 1978; 11:173.

CASE NO. 10, ACCESSION NO. 28080 **APRIL 1999**

OAKLAND - Wilms tumor (6)
GLENDALE - Wilms tumor
SAN DIEGO (Naval Medical Center) - Nephroblastoma (8)
INDIANA (Fort Wayne) - Wilms tumor
INDIANA (Foote Hospital) - Nephroblastoma
IDAHO (Pocatello) - Wilms tumor
MINNESOTA (Little Canada) - Cellular mesoblastic nephroma
WISCONSIN (Madison) - Nephroblastoma
KENTUCKY (Louisville) - Clear cell sarcoma
LOUISIANA (River Ridge) - Wilms tumor
FLORIDA (Miami) - Primitive neuroectodermal tumor
FLORIDA (Ocala) - Nephroblastoma
FLORIDA (Winter Haven) - Wilms tumor
MARYLAND (Sinai Hospital) - Clear cell sarcoma with epithelial-like areas
MARYLAND (National Naval Medical Center) - Wilms tumor with clear cell carcinoma features (10); Clear cell carcinoma (4); Triphasic tumor with clear cell carcinoma , Wilms features (2)
MASSACHUSETTS (Longmeadow) - Wilms tumor
MASSACHUSETTS (Medfield) - Wilms tumor
NEW YORK (Impath) - Nephroblastoma, tubular
JAPAN (Kurashiki) - Nephroblastoma with anaplasia
JAPAN (Hamamatsu) - Nephroblastoma
CHINA (Sir Run Run Shaw Hospital) - Wilms tumor
SLOVENIA (Institute of Oncology) - Wilms tumor (2)

DIAGNOSIS:

WILMS TUMOR, WITHOUT ANAPLASIA, KIDNEY
T71000, M89603

CONSULTATION: J. Bruce Beckwith, M.D., National Wilms Tumor Study, Loma Linda University. "Wilms tumor without anaplasia".

REFERENCES:
See References of Case 6