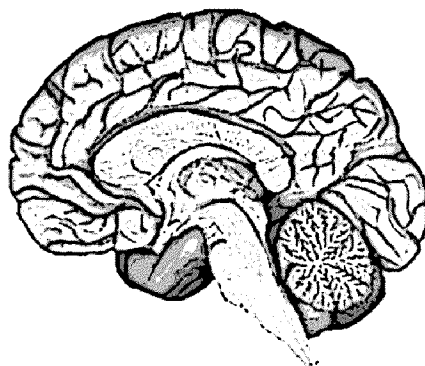


CALIFORNIA
TUMOR TISSUE REGISTRY

“NEUROPATHOLOGY”

Study Cases, Subscription A

November 2015



California Tumor Tissue Registry
c/o: Department of Pathology and Human Anatomy
Loma Linda University School of Medicine
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Loma Linda, California 92350
(909) 558-4788
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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.

Goals:

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.
Review of microscopic findings, diagnostic criteria and differential diagnoses.
Listing of selected references from the medical literature.

Faculty:

Donald R. Chase, MD
Anwar Raza, M.D
Darryl Heustis, M.D.

CME/SAM Credits:

Loma Linda University School of Medicine designates this continuing medical education activity for a maximum of 2 hours of Category I of the Physician's Recognition Award of the American Medical Association. It also qualifies for up to 2 hours of SAM credit by the American Board of Pathology.
CME/SAM 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.

Case No. 1 - November 2015 A

Accession #31862

Tissue from: Paraspinal thoracic tumor

Clinical Abstract:

This 3 year-old girl had a left paraspinal thoracic tumor which was resected after chemotherapy.

Gross Pathology:

The 10 gram tumor was submitted in two parts, 2 x 1.4 x 0.6 cm and 5.2 x 3 x 1.2 cm. The cut surfaces were dense white to tan fibrous tissue with faint nodularity.

Case No. 2 - November 2015 A

Accession #31791

Tissue from: Right heel

Clinical Abstract:

A 66 year-old man complained of a mass in his right heel.

Gross Pathology:

The 95 gram specimen was 8 x 5 x 5 cm and consisted of firm tan lobulated tissue with a faint swirling architecture on cut section.

Tissue from: Neck

Clinical Abstract:

A 22 year old woman complained of a right neck mass. She had multiple smaller nodules at multiple sites.

Gross Pathology:

The 10.5 x 6.5 x 3 cm specimen consisted of an aggregate of rubbery white-tan nodules with overlying hair-bearing skin.

Special Studies:

S100: Positive

NFP: Negative

Ki-67: Approximately 25% focally but most of lesion showed low labeling index

p53: Negative

Tissue from: Brain, anterior cranial fossa

Clinical Abstract:

A 67 year-old man was found to have an enhancing dural-based mass in the midline anterior cranial fossa. There was significant surrounding FLAIR signal abnormality in the adjacent brain parenchyma.

Gross Pathology:

The 12 gram specimen was 5 x 4.5 x 1 cm and consisted of soft white tissue fragments.

Special Studies:

CK, CAM5.2: Focally positive

EMA: Positive

CEA: Positive

Tissue from: Brain, right parietal

Clinical Abstract:

This 55 year-old man presented to the Emergency Department with severe headaches, nausea and vomiting. He reported gradually increasing headaches over the past year. A CT scan showed a severely dilated right temporal horn of the lateral ventricle with a partially calcified tumor in the right trigone of the lateral ventricle.

Gross Pathology:

The specimen consisted of a 3.5 x 2 x 1.5 cm aggregate of gritty white-tan irregular tissue fragments.

Special Studies:

Vimentin:	Strongly positive
Keratin CAM 5.2:	Negative
EMA:	Positive
GFAP:	Negative

Tissue from: Choroid plexus

Clinical Abstract:

A 21 year old woman was found on CT to have a fourth ventricle enhancing mass.

Gross Pathology:

The 9 gram specimen was a 4 x 3 x 0.5 cm aggregate of tan bosselated tissue.

Tissue from: Brain, right temporal lobe

Clinical Abstract:

A 14 year-old boy was found on CT to have a ring enhancing tumor in the right temporal lobe, with slight surrounding FLAIR signal abnormality.

Gross Pathology:

The 25 gram resection specimen consisted of a 6.5 x 5 x 1.5 cm aggregate to soft tan-brown hemorrhagic tissue fragments.

Special Studies:

GFAP:	Positive, diffuse & strong
p53:	Patchy positivity (focally up to 10%)
NFP:	Rare intralesional axons present
EMA:	Numerous dot-like perinuclear foci
Ki-67:	High labeling index (38%)

Tissue from: Brain

Clinical Abstract:

This 19 year-old woman was found on CT to have a mass involving both lateral ventricles and the third ventricle. The mass showed a central cyst with peripheral enhancement.

Gross Pathology:

The 10 gram specimen was 5.4 x 5.4 x 0.8 cm and consisted of tan tissue fragments mixed with blood.

Special Studies:

GFAP:	Positive, diffuse and strong
NFP:	Few intralesional axons present
Ki-67:	Low proliferation index (2%)

Case No. 9 - November 2015 A

Accession #31823

Tissue from: Brain, right frontal

Clinical Abstract:

This 76 year-old woman was found to have a brain tumor.

Gross Pathology:

The 10 gram specimen consisted of a 3 cm aggregate of pink-tan gelatinous tissue.

Case No. 10 - November 2015 A

Accession #32058

Tissue from: Brain, left frontal

Clinical Abstract:

A 74 year-old woman was found to have a brain tumor.

Gross Pathology:

The 27 gram specimen consisted of a 6 x 4 x 2.5 cm aggregate of soft tan tissue fragments.

Special Studies:

GFAP:	Highlights tumor cells along edges; central portion is negative
CAM5.2, CK7:	Positive in viable cells long the periphery
Melanoma cocktail:	Negative
S100:	Patchy positivity
Vimentin:	Diffusely positive
p53:	Patchy weak positivity
Desmin:	Rare cells positive
SMActin, CD31:	Tumor cells negative
ER, TTF-1:	Negative
NFP, NeuN	Negative
Synaptophysin	Negative
Chromogranin	Negative
EMA, CK20, CK5/6:	Negative