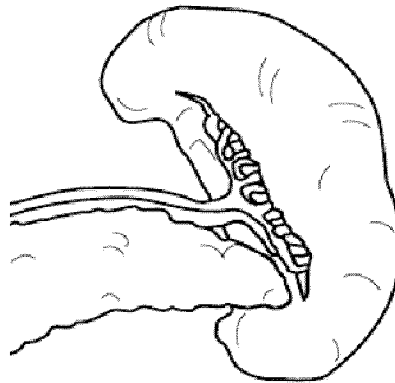


CALIFORNIA
TUMOR TISSUE REGISTRY

“HEMATO-LYMPHOID PATHOLOGY”

Study Cases, Subscription A

September 2015



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
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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:

Donald R. Chase, MD

CME/SAM Credit:

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 - September 2015 A

Accession #21957

Tissue from: Skin

Clinical Abstract:

This 48 year-old woman complained of dry pruritic skin for the last three years and about one year before presentation starting noticing enlarging bumps on her face, which were also pruritic. Exam showed violaceous plaques and papules up to 3.5 cm on her face, from forehead to chin, and also on her ears. Submental, cervical and axillary lymphadenopathy was also noted.

Gross Pathology:

The skin biopsy was 2.5 x 1.5 x 0.6 cm.

Case No. 2 - September 2015 A

Accession #12650

Tissue from: Chest wall

Clinical Abstract:

This 62 year-old man developed vague chest discomfort without cough, hemoptysis or other symptomatology. Exam revealed a tender, ill-defined area over his right anterolateral chest with a questionable mass around the level of the third and fourth ribs. Surgical resection of the mass was attempted, which found a hemorrhagic cavitory mass involving ribs and intercostal muscles.

Gross Pathology:

Multiple irregular fragments of soft friable hemorrhagic tissue measured up to 3.5 cm in greatest diameter.

Case No. 3 - September 2015 A

Accession #31108

Tissue from: Axillary lymph node

Clinical Abstract:

This 18 year-old woman presented with bilateral axillary lymphadenopathy

Gross Pathology:

The 5.9 x 3 x 2.5 cm lymph node had a nodular red-tan cut surface.

Special Studies:

Positive in cells of interest: CD15, CD30

Negative in cells of interest: CD20, Pax5

Admixed small T & B cells were CD3 & CD20 positive

Case No. 4 - September 2015 A

Accession #31857

Tissue from: Inguinal lymph node

Clinical Abstract:

A 67 year-old man presented with a left groin mass, originally thought to be a hernia.

Gross Pathology:

The 48 gram specimen was 6 x 4 x 3.5 cm and had a glistening yellow cut surface.

Special Studies:

Flow cytometry showed a lambda-restricted monoclonal B cell population expressing CD5, CD19, CD22 and CD23, negative for FMC7.

Tissue from: Testis

Clinical Abstract:

A 56 year-old man, with a past history melanoma of the upper back, presented with a right testicular mass. Serum alpha fetoprotein and beta-HCG were within reference range. Ultrasound showed a solid vascular mass and a right orchiectomy was performed.

Gross Pathology:

The 7.5 x 4 x 4 cm testis had a 5.4 cm multinodular fleshy yellow-tan tumor.

Special Studies:

Positive: CD45, CD20, Lambda

Negative: CD3, CD30, Kappa, S100, HMB-45

Tissue from: Spleen

Clinical Abstract:

Following a minor accident, this 45 year-old man was found to have splenomegaly Lab work found leukopenia with relative lymphocytosis. Exam showed the splenic tip 2 cm below the right costal margin.

Gross Pathology:

The spleen weighed 460 grams. Cut surface was dark red without identifiable Malpighian corpuscles.

Tissue from: Tonsil

Clinical Abstract:

This 34 year-old woman presented with dysphagia. Imaging studies showed an enhancing mass apparently arising in the base of tongue and extending both caudally and cranially.

Gross Pathology:

The 333 gram, 14 x 12 x 8.5 cm glossectomy-laryngectomy specimen included an 8.5 x 4 x 3 cm exophytic hemorrhagic necrotic mass.

Special Studies:

Variably positive in cells of interest: Vimentin, CD68, CD163, lysozyme, CD4, HAM56, CD138

Negative in cells of interest: AE1/AE3, CAM5.2, p63, p16, CEA, CD31, CD34, Factor VIII, CD45, ALK1, CD30, CD79a, EMA, kappa & lambda light chains, CD1a, CD21, CD35, S100, HMB-45, Melan-A and HHV8

Ki67: 10-20%

Tissue from: Small bowel mesentery

Clinical Abstract:

A 9 year-old African boy presented with a large abdominal mass.

Gross Pathology:

The 6 cm long segment of small bowel had an 8 x 6 x 3 cm attached nodular gray mesenteric mass.

Case No. 9 - September 2015 A

Accession #29546

Tissue from: Spleen

Clinical Abstract:

This 70 year-old woman had an enlarged spleen and underwent splenectomy.

Gross Pathology:

The 3000 gram spleen was 30 x 19 x 18 cm. Its cut surface showed multiple 1-2 mm white nodules throughout.

Special Studies:

IHC: Positive: CD20

Negative: CD3, CD43, Cyclin D1

Flow cytometry: Lambda restricted monoclonal B cell population expressing CD45 (variable), CD5 (dim), CD19, and CD20. No expression of CD10, CD11c, CD23, CD25 or FMC7.

Case No. 10 - September 2015 A

Accession #31289

Tissue from: Spleen

Clinical Abstract:

A 66 year-old man presented with splenomegaly.

Gross Pathology:

The 3950 gram spleen was 25.5 x 21.5 x 11 cm. The cut surface was beefy red without obvious masses.

Special Studies:

Flow cytometry: Kappa restricted monoclonal B cell population expressing CD45, CD19, CD20, CD22, CD38 (dim), CD79 (bright) and HLA-DR. There was no expression of CD5, CD10, CD23, CD25, and CD123.