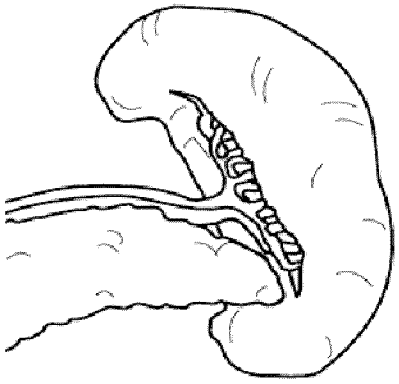
CALIFORNIA
TUMOR TISSUE REGISTRY

# "HEMATO-LYMPHOID PATHOLOGY"

## Study Cases, Subscription B

## 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**
**(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:**
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 B** **Accession #31833**

**Tissue from: Retroperitoneum**

**Clinical Abstract:**

Following a motor vehicle accident, this 20 year-old woman was found to have a large right retroperitoneal mass anterior to the inferior vena cava. Clinical screening for HIV was negative. Cytogenetics showed a normal female XX46 karyotype.

**Gross Pathology:**

The ovoid resection specimen was 8.3 x 7.0 x 5.3 cm. The cut surface showed homogeneous tan parenchyma with fibrous septa.

Special Studies:

Bcl-2: Perifollicular/interfollicular T-cells positive
CD3 : Perifollicular/interfollicular T-cell s positive
CD21: Follicular dendritic meshwork positive; interfollicular spindloid cells negative
CD23: Follicular dendritic meshwork positive; interfollicular spindloid cells focally positive
CD30: Rare scattered immunoblasts positive
CD43: Perifollicular/interfollicular T-cells and myeloid cells positive
CD163: Histiocytic cells in the interfollicular spaces positive
PAX-5: Follicular B- cells, expanded mantle zones and interfollicular B cells positive
S100: Scattered cells in the interfollicular area positive
Ki-67: Highlights the follicular centers cells, interfollicular spindloid cells (10-15%) positive
CD1a: Interfollicular spindloid cells negative
CD35: Follicular dendritic meshwork positivei interfollicular spindloid cells negative
EBER-ish: Negative
HHV-8 (LANA): Negative

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**Case No. 2 - September 2015 B** **Accession #31458**

**Tissue from: Left neck**

**Clinical Abstract:**

A 48 year-old man was found to have cervical lymphadenopathy.

**Gross Pathology:**

The 200 gram neck dissection included a 4 cm portion of parotid gland and multiple lymph nodes up to 2 cm in greatest diameter. A separately submitted node was up to 4 cm in diameter.

Special Studies:

Clonal Kappa production

**Case No. 3 - September 2015 B** **Accession #29295**

**Tissue from: Tonsils & adenoids**

**Clinical Abstract:**

Over a five day period, this 19 year-old woman developed a sore throat and progressive malaise with headaches. Because of an increasing airway obstruction, she underwent emergency tonsillectomy.

**Gross Pathology:**

The aggregate of tonsils & adenoids measured 9 x 8 x 2.5 cm.

Special Studies:

CD3 & CD20 showed a mixed population of T and B cells.

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**Case No. 4 - September 2015 B** **Accession #31078**

**Tissue from: Spleen**

**Clinical Abstract:**

An 83 year-old woman was found to have splenomegaly.

**Gross Pathology:**

Not available.

**Case No. 5 - September 2015 B** **Accession #31663**

**Tissue from: Left inguinal lymph node**

**Clinical Abstract:**

A 64 year-old man presented with a left inguinal mass.

**Gross Pathology:**

The resected mass was 6 x 4 x 2 cm and weighed 35 grams.

Special Studies:

Cells in neoplastic follicles stain for CD20, CD10, BCL-2 and BCL-6
Cyclin D1: negative

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**Case No. 6 - September 2015 B** **Accession #31712**

**Tissue from: Left groin**

**Clinical Abstract:**

This 43 year-old man presented with a mass in his left groin.

**Gross Pathology:**

The 713 gram specimen was 20 x 12 x 7.5 cm. The cut surface was yellow, firm and nodular with areas of necrosis.

Special Studies:

CD68 & CD163: Histiocytes positive
CD3 & CD20: T & B cells positive
Ki67: approximately 5%

**Case No. 7 - September 2015 B** **Accession #31652**

**Tissue from: Axillary lymph node**

**Clinical Abstract:**

A 58 year-old man, with a past history of a lymphoma approximately 15 year earlier, presented with axillary lymphadenopathy.

**Gross Pathology:**

The 5 x 3.7 x 2.4 cm specimen consisted of pink-tan rubbery tissue.

Special Studies:

Cells of interest positive: CD20, CD45, CD68, OCT-2, Pax-5
Cells of interest negative: CD3, CD15, CD30, Bcl2

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**Case No. 8 - September 2015 B** **Accession #31562**

**Tissue from: Thyroid**

**Clinical Abstract:**

A 74 year-old woman had an enlarged thyroid gland.

**Gross Pathology:**

The 85 gram left lobe of thyroid was 10 x 9.5 x 6 cm. The cut surface showed a 6 x 6 x 5.7 cm gray-pink mass.

Special Studies:

BOB-1 : Negative
CD3: Background small lymphocytes positive
CD15: Some large cells positive
CD20: Occasional small lymphoid cells positive; large cells negative
CD30: Positive in large cells
CD45: Small lymphocytes; large cells negative
Pankeratin: Positive staining in remnant thyroid cells
EBV LMP-1: Positive in large cells
MUM1 : Positive in large cells

**Case No. 9 - September 2015 B** **Accession #29649**

**Tissue from: Spleen**

**Clinical Abstract:**

A 64 year-old woman with a history of hemolytic anemia was found to have splenomegaly.

**Gross Pathology:**

The spleen weighed 6 pound, 14 ounces.

Special Studies:

Positive: CD20, CD3 (in T lymphocytes), CD5 (in T-lymphocytes), Lambda light chain, CD30 (focal), Bcl-2 (focal)

Negative: CD10, Cyclin D-1, Kappa light chain, CD43, CD34 (positive only in blood vessels)

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**Case No. 10 - September 2015 B** **Accession #29039**

**Tissue from: Thyroid**

**Clinical Abstract:**

A 71 year-old man was found to have an enlarged thyroid gland.

**Gross Pathology:**

The right lobe of thyroid was 8 x 5.8 x 3.3 cm. The cut surface showed a homogeneous gray parenchyma.

Special Studies:

Positive: LCA, CD20, CD29A, CD3 (scattered), CD5 (scattered), Lambda (punctate in plasmacytoid cells)

Negative: Kappa