

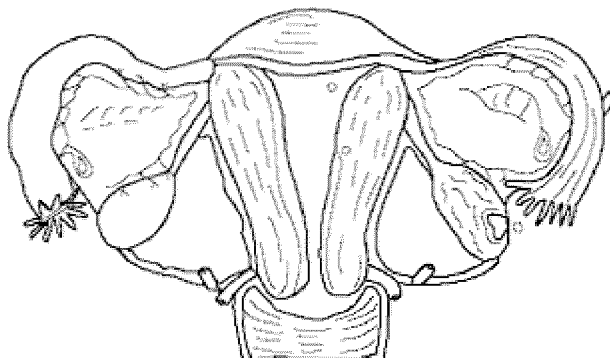


CALIFORNIA
TUMOR TISSUE REGISTRY

“GYNECOLOGIC PATHOLOGY”

Study Cases, Subscription B

September 2012



California Tumor Tissue Registry
c/o: Department of Pathology and Human Anatomy
Loma Linda University School of Medicine
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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 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.
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: Claude Burdick, M.D.
Hayward, CA**

Case No. 1 - September 2012 B

Tissue from: Uterus

Accession #31448

Clinical Abstract:

This 46 year-old woman presented with abnormal uterine bleeding and an enlarged uterus.

Gross Pathology:

The 760 gram, 13 x 11 x 10 cm supracervically amputated uterus was accompanied by an oviduct and ovary and a detached uterine cervix. Within the myometrium, and projecting into the uterine cavity, were multiple whorled nodules, the largest of which was 5 cm in greatest diameter, showing punctuate areas of hemorrhage

Special Studies:

Positive: smooth muscle actin (diffuse); CD10 (patchy), caldesmon, desmin (patchy), p16

Negative: p53, myogenin

**Contributor: LLUMC Pathology Group (wc)
Loma Linda, CA**

Case No. 2 - September 2012 B

Tissue from: Right ovary

Accession #30500

Clinical Abstract:

This 50 year-old woman presented with a pelvic mass.

Gross Pathology:

The 1445 gram, 20 x 15 x 10 cm multicystic ovary had solid regions up to 2.5 cm in diameter.

**Contributor: Peter Morris, M.D.
Santa Barbara, CA**

Case No. 3 - September 2012 B

Tissue from: Right ovary

Accession #31421

Clinical Abstract:

This 58 year-old woman had irregular perimenopausal bleeding. A pap smear showed atypical glandular cells and was followed by an endometrial biopsy which showed atypical hyperplasia. Work-up also showed a complex mass in the right adnexa. She underwent hysterectomy with bilateral salpingoophorectomy.

Gross Pathology:

The 257 gram, 10 x 9 x 8 cm ovarian mass was cystic and solid with a smooth serosal surface. The cysts were up to 5 cm in diameter.

Special Studies:

Positive: Pan-keratin, EMA, Inhibin (focal), CA125 (focal)

Negative: SF-1, CK7, CK20, WT-1

**Contributor: LLUMC Pathology Group (cc)
Loma Linda, CA**

Case No. 4 - September 2012 B

Tissue from: Right and left ovaries

Accession #31321

Clinical Abstract:

After presenting with acute abdominal pain, this 49 year-old woman was found to have bilateral pelvic masses.

Gross Pathology:

The right ovary was 1900 gram, 18.5 x 14 x 12 cm and consisted of multiple cysts up to 10 cm in diameter containing clear watery fluid. The left ovary was 910 gram, 12 x 12 x 9 cm, with multiple cysts containing clear watery fluid.

Contributor: LLUMC Pathology Group (mp)
Loma Linda, CA

Case No. 5 - September 2012 B

Tissue from: Right ovary

Accession #31127

Clinical Abstract:

This 51 year-old woman had a pelvic mass.

Gross Pathology:

The 1400 gram, 18 x 15 x 9 cm ovary was replaced by numerous cysts ranging from 1 to 4 cm in greatest diameter. The cysts were filled with thick glistening material. The outer surface of the ovary was smooth.

Contributor: Kerry O'Brien, M.D.
Tacoma, WA

Case No. 6 - September 2012 B

Tissue from: Right ovary

Accession #30794

Clinical Abstract:

This 16 year-old girl presented with a two-week history of postprandial nausea, vomiting and abdominal distention. CT scan showed a large pelvic mass. Serum calcium levels were reported as elevated preoperatively.

Gross Pathology:

The resected ovary was 28 x 25 x 13 cm with hemorrhagic cysts as well as pale yellow solid areas.

Special Studies:

Positive: WT, CD10, vimentin, NSE, BCL-6

Negative: PLAP, inhibin, BCL-2, CD20, CD3, CD43, CD34, CD99, pancytokeratin, S100, synaptophysin, EMA, desmin

**Contributor: LLUMC Pathology Group (dr)
Loma Linda, CA**

Case No. 7 - September 2012 B

Tissue from: Uterus

Accession #31170

Clinical Abstract:

This 30 year-old woman had uterine enlargement.

Gross Pathology:

The 779 gram, 14 x 13 x 9 cm uterus with attached adnexa contained a mass involving the entire posterior endomyometrium, forming polypoid masses filling the endometrial cavity. Overall, the tumor measured 10 x 9 x 7.5 cm.

Special Studies:

Positive: actin (variable); CD10 (areas with light staining); p53 (faint)

Negative: S100, desmin, cytokeratin

**Contributor: Pamela Boswell, D.O.
La Jolla, CA**

Case No. 8 - September 2012 B

Tissue from: Left ovary

Accession #31375

Clinical Abstract:

This 79 year-old woman had a pelvic mass.

Gross Pathology:

The 188 gram resected ovary was 5.8 x 4.5 x 4.5 cm. Tumor completely replaced the ovarian parenchyma.

Contributor: Xuedong Wang, M.D.
Pasadena, CA

Case No. 9 - September 2012 B

Tissue from: Uterus

Accession #30537

Clinical Abstract:

This 86 year-old woman had uterine enlargement.

Gross Pathology:

The 2,112 gram uterus with attached adnexa was 21 x 18 x 11 cm. In the posterior aspect of the uterus were multiple foci of tumor, up to 13 cm in greatest diameter.

Special Studies:

Positive: vimentin, CD68, alpha-1-antitrypsin, alpha-1-antichymotrypsin

Negative: AE1/AE3, CAM5.2, desmin, actin, smooth muscle actin, S100, CD117

Contributor: Dominc De Santo, M.D.
San Diego, CA

Case No. 10 - September 2012 B

Tissue from: Right ovary

Accession #17463

Clinical Abstract:

This 13 year-old girl presented with a right-sided abdominal mass.

Gross Pathology:

The right ovarian mass was 20 x 13 x 7 cm with a firm multi-lobulated cystic cut surface.