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# **Ovarian Cystadenocarcinoma**

Cystadenocarcinoma is the most common type of malignant ovarian tumor, often detected late in patients. Tumors arise from ovarian surface epithelium and are either of serous or mucinous type. Serous-type comprises 45% of ovarian tumors and are often bilateral with psammoma bodies. Mucinous tumors have mucus-secreting epithelium and mucinous material may travel to and accumulate in the peritoneal cavity. BRCA-1 and Lynch syndrome are hereditary risk factors, and increased CA 125 is a common indication for ovarian cancer.



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#### Non-germ Cell Tumor

#### Non-germy ovary

Cystadenocarcinoma arise from ovarian surface epithelium and are either serous or mucinous.

#### Mucinous

#### Mucus

Mucinous cystadenocarcinoma present with mucus-secreting epithelium and cysts containing these accumulated secretions.

#### **Peritoneal Spread**

#### Parrot-toe

Mucinous cystadenocarcinoma patients may experience pseudomyxoma peritonei, where mucinous material from the ovarian tumor accumulates within the peritoneal cavity.

#### Serous

#### Seltzer

Cystadenocarcinomas with serous lining comprise 45% of ovarian tumors and are often bilateral.

#### **Psammoma Bodies**

#### Samoan

Serous cystadenocarcinoma tumors show papillary structures with round calcium deposits called psammoma bodies.

# Bilateral

Bi-ladders Tumors are often bilateral.

# Malignant

Malignant-man Cystadenocarcinoma is the most common malignant ovarian tumor.

# Stromal Invasion

#### Invading-Straw-man

Stromal invasion is often seen in cystadenocarcinoma, with tumors spreading past the basement membrane and into the stromal tissue.

# CA 125

# CA-125 road sign

Increased CA 125 is a common ovarian cancer marker. While not suitable for screening, it is effective for monitoring progression.

# **BRCA-1** and Lynch Syndrome

#### Breast-of-Chicken for Lunch

BRCA-1 and Lynch syndrome are hereditary risk factors for cystadenocarcinoma. BRCA-1 is more associated with serous cystadenocarcinoma.

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