

Disclosures

- Advisory Board (Merck)
- Unrestricted research grant from Intuitive to GOG to fund randomized controlled trial (GOG3043/ROCC)

Objectives

- Understand the incidence/risk factors for ovarian cancer and endometrial cancer
- Review presenting symptoms and initial evaluation for patients with these malignancies
- Provide an overview of the approach to management (surgical and medical)
- Discuss the genetic landscape of ovarian and endometrial cancer and how this can be leveraged to improve outcomes for our patients

















Presentation

Acute

- Ascites
- Pleural effusions
- Bowel obstruction
- VTE

Subacute

- Bloating/distention
- Early satiety, nausea, anorexia
- Urinary urgency/frequency
- Pelvic or abdominal pain
- Watery discharge or PMB

Goff et al. JAMA. 2004 Goff et al. Cancer. 2007 Olson et al. Obstet Gynecol. 2001



Evaluation: Imaging

- Pelvic ultrasound
 - Complex (solid/cystic)
 - Internal vascularity
 - Irregular borders
 - Ascites
- CT scan
 - Ascites
 - Lymphadenopathy
 - Carcinomatosis

Images: commons.wikimedia.org







Tissue diagnosis

- Surgical resection*
- Biopsy
- Cytology
 - Acceptable if CA 125/CEA ratio >25

Surgical staging

- Washings
- TAH, BSO*
- Omentectomy
- Pelvic and para-aortic lymphadenectomy (bilateral)
- Peritoneal biopsies

*fertility sparing surgery may be appropriate in select cases

Stage	Description
1	Limited to ovaries/tubes
II	Extension beyond ovaries (confined to pelvis)
Ш	Nodes, peritoneal spread (abdomen)
IV	Distant

>2/3 diagnosed with advanced stage at presentation

Management

- Surgery
 - Establish diagnosis
 - Determine extent of disease/staging
 - Cytoreduction
 - Restore/preserve anatomy
- Chemotherapy
- Maintenance therapy
- Surveillance





Residual disease matters

Median OS by residual disease at completion of surgery NGR: 106 months <0.5cm: 66 months 0.5-1cm: 48 months 1-2 cm: 33 months

Chi et al. Gynecol Oncol. 2006

















Pearls...

- We have come a long way but have a long way to go.
- Surgery <u>and</u> chemotherapy critical
- Genetic counseling/testing for all with EOC
- Strong consideration for PARPi maintenance therapy
- Most women with advanced disease will recur
- Establishing clear communication regarding expectations/goals critical

Endometrial cancer



Image: cancer.gov









Risk factors

- Excess estrogen exposure
 - Endogenous (Obesity, PCOS, estrogen secreting tumor)
 - Exogenous (Unopposed estrogen therapy, tamoxifen)
- Age
- Diabetes/HTN
- Family history
 - Lynch syndrome
 - Cowden syndrome
 - BRCA?

Presentation

- Abnormal uterine bleeding
 - Intermenstrual bleeding
 - Heavy/prolonged menses
 - Irregular menses
 - Postmenopausal bleeding
- Cramping/pelvic pain

Rarely present with symptoms of metastatic disease







Surgical staging

- Hysterectomy
- BSO
- Lymph node evaluation
 - Sentinel mapping algorithm
 - Selective lymphadenectomy
 - Complete lymphadenectomy



FIGO staging					
Stag	je	Description			
1	A B	Confined to uterus, < 50% myoinvasion Confined to uterus, > 50% myoinvasion 85%			
		Cervical stromal invasion			
111	A B C1 C2	Serosa/ adnexa Vagina/ parametria Pelvic nodes PA nodes			
IV	A B	Bladder/ bowel mucosa Distant mets (includes upper abd, inguinal nodes)			

Adjuvant therapy

The great (forever) debate!

Low- intermittent risk	High- intermittent risk	High risk
Superficial invasion, low risk histology	Age, grade 2-3, deep invasion, LVSI)	High risk histology, advanced stage
Surveillance	RT vs Observation	Chemo Chemo +RT RT
	Low- intermittent risk Superficial invasion, low risk histology Surveillance	Low-High-intermittentintermittentintermittentintermittentriskAge, grade 2-3, deepinvasion,invasion,low risk histologyLVSI)SurveillanceRT vs Observation



Special circumstances: Desires fertility

Who?

- Endometrioid, grade 1
- Limited to endometrium
- No contraindications to treatment OR pregnancy

Options?

- Progestin therapy
- (STRONGLY advise addressing comorbidities)



NCCN Guidelines Version 1.2022 Endometrial Carcinoma Image: commons.Wikimedia.org

Special circumstances: Non-surgical candidates

- Who?
 - Poor performance status
 - Complex co-morbidities
 - Inability to tolerate surgery
 - Early stage disease

Options?

- Primary radiation
- Progestin therapy



The argument for universal screening for Lynch

- Cascade testing → prevention of disease
- Provides prognostic information
- May guide subsequent therapy
 - Pembrolizumab (FDA approved 2017)
 - Dostarlimab (FDA approved 2021)
 - Pembrolizumab/lenvatinib (FDA approved 2021)

Pearls

- Minimally invasive surgery is preferred
 - Laparoscopic/robotic surgery
 - Sentinel lymph node mapping algorithm
- Prognosis excellent for most
- Adjuvant therapy based on risk of recurrence
 - Currently based on traditional histology/staging information
 - Optimal adjuvant approach continues to be debated
 - Molecular classification likely the future