Ovarian cancer: Postoperative

- Delayed return of bowel function "Ileus"
 - Usually occurs POD#3-5
 - Tx: Bowel rest or NGT
- Hematoma
- Infection (POD#7)
- If rectosigmoid resection → NOTHING IN RECTUM
- · Epidural or TAP block for pain control
- ERAS protocol
 - ADAT and out of bed!! Incentive spirometer
 - Multimodal analgesia (Tylenol, Ibuprofen, Oxy)
- Foley catheter dc'd POD#1

1

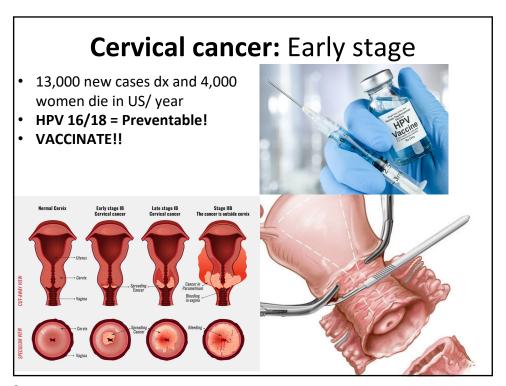
Endometrial cancer: Surgical staging

- Most common GYN ca
- 70,000 cases/year in US
- Robotic or Laparoscopic
- 3-5 5 mm incisions
- Same day or 1 night
- Foley comes out in the OR

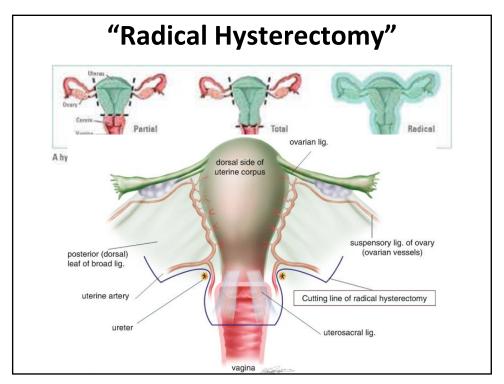


Sentinel pelvic LN dissection

- Stage IB or > → RT
- Stage III → Chemo 6 cycles

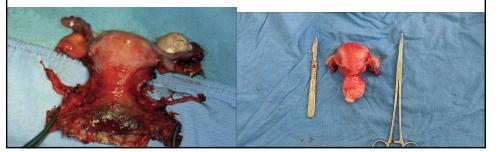


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Cervical cancer: Postoperative

- Urinary retention (70%)
 - Foley for 7 days trial of void in clinic
 - Abx for Foley removal (debatable)
- Fever w/in 48 hours of surgery is almost always due to atelectasis →ambulation, IS
- Superficial wound infxn/hematoma, UTI & pelvic infxn (10-20%)



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Cervical cancer: Locally advanced (Stage IIB-IVA)

- External Beam Radiation Therapy "EBRT"
- Prescribed by Radiation Oncologists
- 5 weeks of treatment (Mon-Fri)
- Cisplatin IV on Mondays "Radiosensitizer"

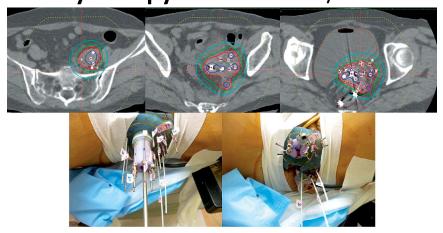
Brachytherapy: "Tandem & Ring"



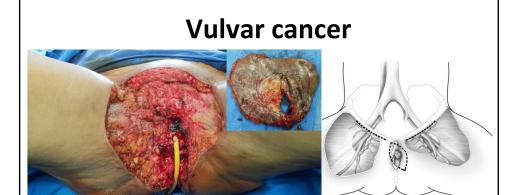
- Internal radiation to the tumor VERY important for the cure!
- Smit sleeve inserted by GYN/ONC and sutured to the cervix
- Outpatient treatment: 5 RT visits, tandem is placed into the Smit sleeve and RT delivered

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Brachytherapy: "Interstitial" /"Needles"



- Admitted to the Hospital for 2-3 days
- · Epidural for pain control
- Foley catheter
- Immobilizing devices *CANNOT MOVE WITH NEEDLES*



- Rate of new cases: 2.5 per 100,000 women per year
- HPV or non-HPV associated
- Surgery: Radical vulvectomy with LN dissection
- Locally advanced: RT to vulva, pelvis & groins
- Metastatic: Chemotherapy

Q

Fertility Sparing Treatment

Cervical

- Stage IA1, LVSI negative: CKC
- IA1--> IB1: Radical trachelectomy, LND w/ cerclage
 - IA1 w/ LVSI, Stage IA2 cancers, and Stage IB1

Ovarian

- USO w/ staging (omentectomy, pelvic+PA LNs, peritoneal biopsies), keep uterus in place
- Germ cell
- Sex cord stromal (X lymph nodes)
- Borderline or low malignant potential (X lymph nodes)
- Mucinous (Stage I)
- Hereditary cancer syndrome? --> NOT eligible

Endometrial

- Endometrioid grade 1 "well differentiated"
- No evidence of metastatic disease on imaging
- No myometrial invasion on MRI
- No contraindications to progestin therapy/pregnancy

Overview

- Preinvasive disease
- · Cancer staging and surgery:
 - Ovarian cancer
 - Endometrial cancer
 - Cervical cancer
 - Vulvar cancer
- Postoperative expectations/concerns
- · Treatment in a Nutshell
- Side Effects

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Treatment in a Nutshell

- Uterine
 - Surgery +/- adjuvant RT or chemo
 - Adjuvant radiation (Brachytherapy) if high intermediate risk early stage
 - Risk factors: Age, LVSI, grade 2-3, outer 1/3 invasion
 - Stage III or >: Carbo/Taxol
- Ovarian: Surgery then Carbo/Taxol
- Vulvar: Surgery (early) or ChemoRT w/ Cisplatin (late stage)
- Cervix:
 - Surgery (early)
 - ChemoRT w/ Cisplatin (>Stage IIA)
 - Cisplatin/Taxol/Avastin (distant metastatic)

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GYN Chemotherapy Side Effects

- Myelosuppression
 - Carboplatin → Low platelets (easy bruising)
 - Anemia & Neutropenia
- Hair loss
- Neuropathy
 - Numbness/tingling in toes/finger tips
- · Fatigue/weakness/arthralgias
- · Nausea/emesis
 - Prevented w/ premedications
- Allergic reaction

Non-chemotherapy treatment

- PARP inhibitors —I poly-ADP ribose polymerase → double strand breaks
 - BRCA 1/2 patients
 - Olaparib, Rucaparib, Niraparib
 - Anemia, fatigue, rare: myelodysplastic syndrome
- **VEGF inhibitor** –I angiogenesis
 - Bevacizumab
- Hypertension, rare: bowel perforation
- PD-1 inhibitor Pembrolizumab stimulates immune system to kill cancer cells

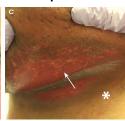
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GYN Radiation Side Effects

- Diarrhea (bloody or mucous stools)
- · Skin irritation
- Nausea, fatigue
- · Bladder irritation/urinary symptoms
- · Vaginal pain/bleeding/discharge
- · Irregular menstruation or early menopause







Sexual Side Effects

- Distorted anatomy
- Vaginal dryness
- · Hot flashes
- Mood swings/sleep changes
- · Pain with sexual intercourse
- Decreased interest in sex
- Vaginal stenosis from RT

There are treatments!

Many patients are eligible for HRT

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CHEMOTHERAPY TOXICITIES o Alkylating agents – disrupt DNA replication (cell cycle nonspecific) Cyclophosphamide/Ifosfamide – hemorrhagic cystitis, anemia (Tx: Mesna) Cisplatin – oto- & nephrotoxicity Carboplatin- myelosuppression (platelets) Taxanes – induce stable polymerization of microtubules Paclitaxel – bone marrow suppression, neuropathy **Antitumor antibiotics** o Bleomycin – Pulmonary fibrosis. Doxorubicin – Cardiac toxicity o Liposomal doxorubicin- hand-foot syndrome o Antimetabolites – interfere with DNA synthesis (S phase) o 5FU Methotrexate - mucosal toxicity, anemia Tx: Folic acid Vinca Alkaloids – Arrest cell in M phase, toxic to mitotic Vincristine, Vinblastine - Peripheral neuropathy

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