

# Winning the War on Women's Cancer Sexual Health & Survivorship

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## 6 Week Course Agenda

- Introduction to Women's Cancers
- II. Genetics of Gynecologic Cancers
- III. Gynecologic Cancer Surgery
- IV. Gynecologic Cancer Prevention
- V. Gynecologic Cancer Treatment
- VI. Sexual Health & Survivorship



## Today's Agenda

- Surveillance
- Sequelae of treatment
- Sexual Health
- Course Wrap-up



## Follow-up Care Plan

Contact info of treating institution/provider

Diagnosis, including histology

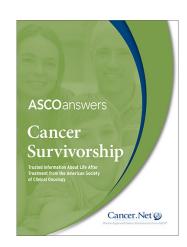
Surgery, including procedure, date

Chemotherapy: drug names, dates

Radiation: area treated, dates

Ongoing toxicity, side effects

Genetic evaluation: testing results







### Surveillance

#### I. Cervical Cancer

	Months		Years		
Variable	0-12	12-24	2-5	>5	>5
Low risk	Every 6 months	Every 6-12 months	Yearly <sup>a</sup>	Yearly <sup>a</sup>	Yearly <sup>a</sup>
High risk (advanced stage/ adjuvant treatment)	Every 3 months	Every 3 months	Every 6 months	Yearly <sup>a</sup>	
Pap test/cytology					
Radiographic imaging*	Insufficient data to support routine use				
Recurrence suspected	CT scans or PET/CT scans				

Salani et al, Gyncol Oncol, in press



### Surveillance

#### II. Ovarian Cancer

	Months			Years		
Variable	0-12	12-24	24-36	3-5	>5	
Symptom review and examination	Every 3 months	Every 3 months	Every 4-6 months	Every 6 months	Yearly <sup>a</sup>	
Pap test/cytology	Not indicated					
CA 125	Optional					
Radiographic imaging*	Insufficient data to support routine use					
Recurrence	CT scans or PET/CT scans					
suspected	CA 125					

Salani et al, Gyncol Oncol, in press



### Surveillance

#### III. Uterine cancer

	Months		Years		
Variable	0-12	12-24	2-5	>5	
Symptom review and examination					
Low risk	Every 6 months	Every 6-12 months	Yearly <sup>a</sup>	Yearly <sup>a</sup>	
High risk <sup>x</sup>	Every 3 months	Every 3 months	Every 6 months	Yearly <sup>a</sup>	
Pap test/cytology	Not indicated				
CA 125	Insufficient data to support routine use				
Radiographic imaging*	Insufficient data to support routine use				
Recurrence suspected**	CT scans or PET/CT scans +/- CA 125				

Salani et al, Gyncol Oncol, in press



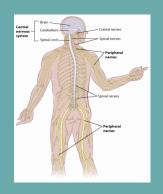
Fatigue

Causes: anemia, pain, emotional distress, sleep problems, medications

Management: save energy, exercise, eat well, relax, sleep well







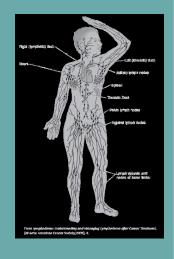
Neuropathy

Causes: damage to the peripheral nerves carrying sensation to the brain. Can affect movement of arms and legs.

Management: Treatment to address pain

Prevention: Vit E, Ca, Mg, , glutathione





Lymphedema

Causes: surgery, radiation, cancer, infection

Management: complex decongestive therapy, manual lymphatic drainage, compression garments





Chemo Brain

Causes: medications, surgery, low blood counts, infection, fatigue, hormone changes, nutrition deficiency, age, depression, stress

Management: use a planner, brain exercise, rest, movement, eat veggies, follow routines, focus, ask for help, track



# **Sexual Health** and Cancer



#### **Overview**

- Overview of Sex Health
- Treatment and Side Effects
- Tools
- Discussion



## Who Cares About Women's Sexual Health?

- Healthcare Institutions
  - Institute of Medicine
  - National Cancer Institute
  - World Health Organization
  - People—individuals and couples/ all ages



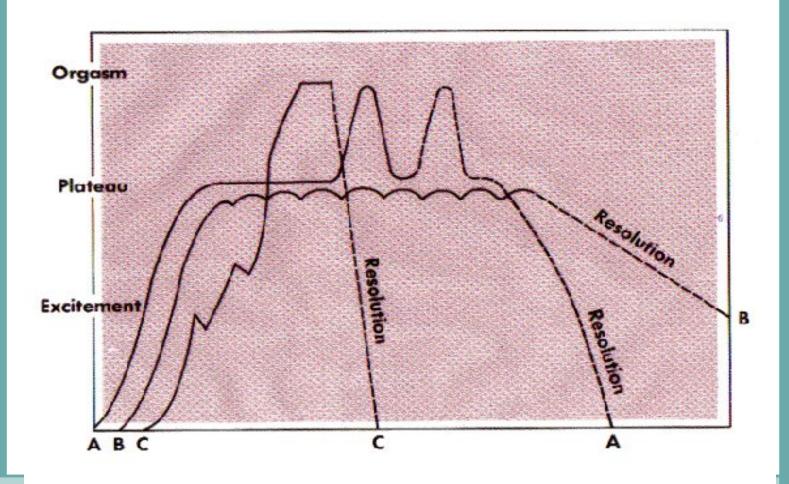
#### You are not alone

- 40-100% of cancer patients experience some form of sexual dysfunction
- Issues do not always resolve after therapy
- Almost all cancer treatments have the potential to alter sexual function (surgery, chemotherapy, radiation, hormones)
- Represents major quality of life (QOL) issue
- With intervention, many patients can have improved functioning



### **Background on Sexual Function**

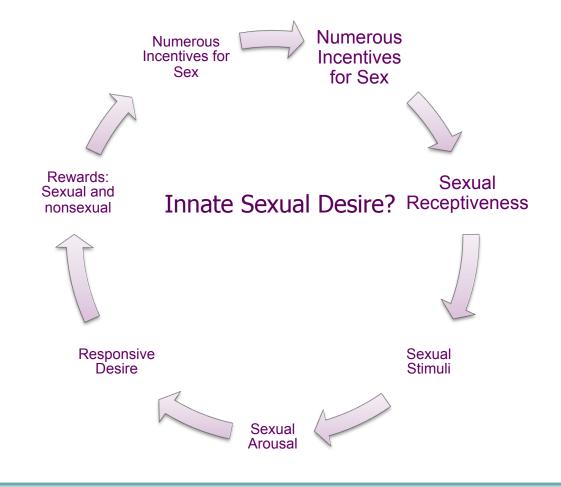
Masters and Johnson





#### **More on Sexual Function**

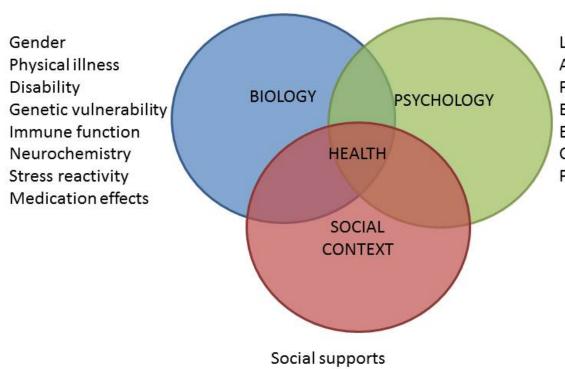
Rosemary Basson 2004





#### **BioPsychoSocial**

#### BIOPSYCHOSOCIAL APPROACH TO UNDERSTANDING HEALTH

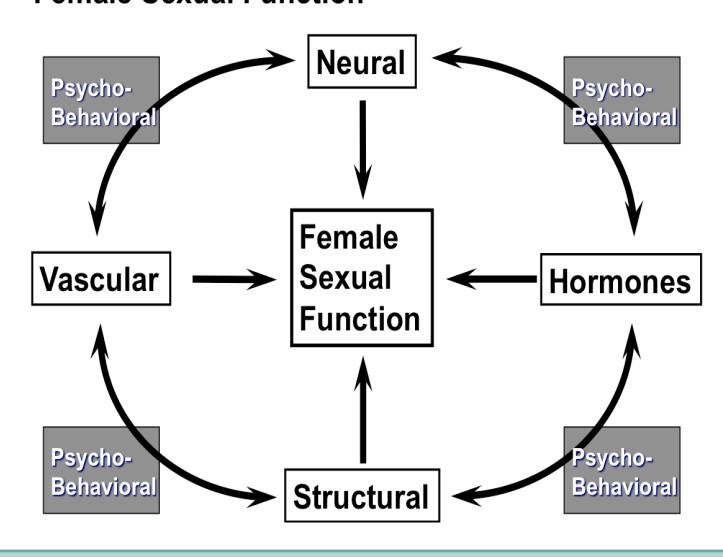


Learning/memory
Attitudes/beliefs
Personality
Behaviours
Emotions
Coping skills
Past trauma

Social supports
Family background
Cultural traditions
Social/economic status
Education



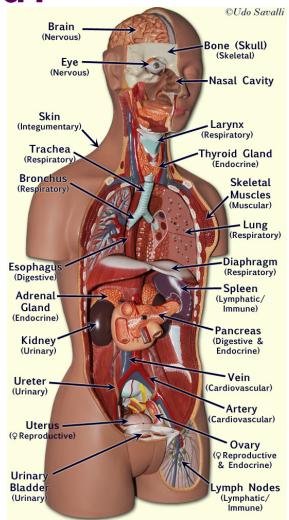
## Physiological Factors Influencing Female Sexual Function





What Parts are Involved?

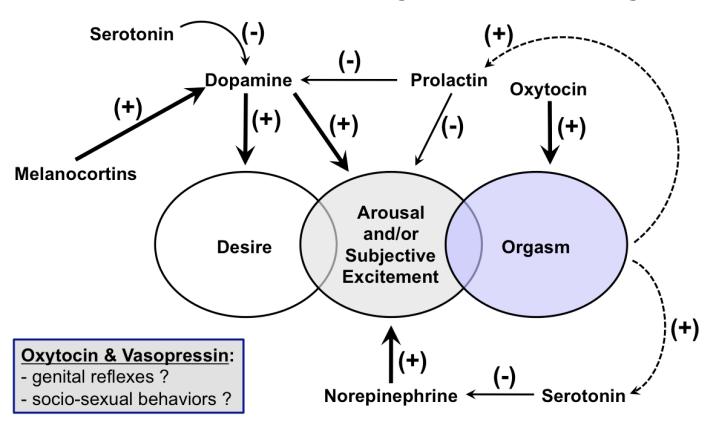
- The Answer is almost all!
- Brain is most important
- Almost every other system





### **Neurology of Desire**

**Human Central Mechanisms:** *Insights from Clinical Drug Trials* 



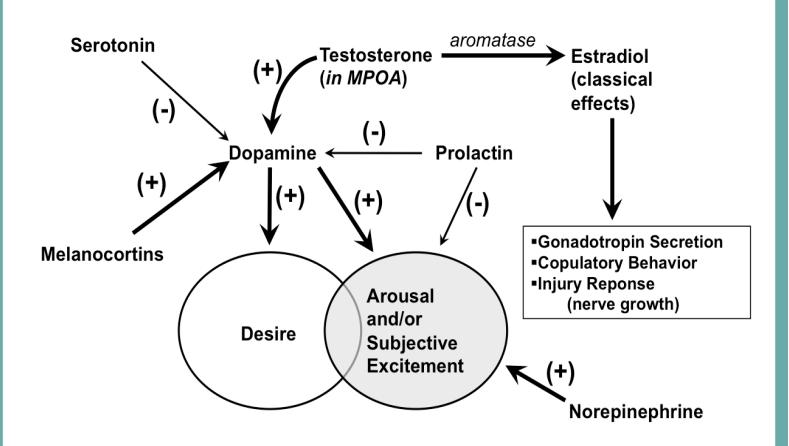
Different receptor subtypes and their pre- vs. post-synaptic distribution can mediate opposing effects on sexual function.

N. Kim, Institute for Sexual Medicine, 2013



### **Endocrinology of Desire**

#### Effects of Sex Steroid Hormones in the Brain





## How Does Cancer Treatment Affect Sex?

Surgery

Radiation

**Answer:** 

In almost every way!

Chemotherapy

Medication



#### **Treatment Side Effects**

- Surgery:
  - Body image
  - Bowel changes
  - ROM issues
  - Menopause
  - Pain
  - Changes in vaginal size/sensitivity



## **Treatment Specific Side Effects**

#### Chemo/Hormone therapy:

- Irregular menses
- Early menopause
- Hot flashes
- Insomnia
- Irritability
- Depression
- Vaginal dryness
- Painful intercourse
- Infertility
- Decreased libido

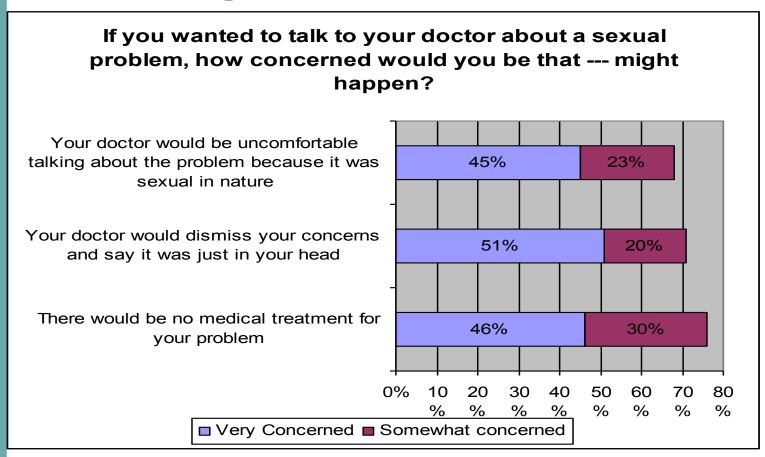


#### **Treatment Side Effects: Cont**

- Radiation/ brachytherapy:
  - Pelvic fibrosis
  - Vaginal atrophy/stenosis
  - Scarring
  - Decreased lubrication
  - Urinary effects
  - Erythema
  - Edema
  - Ulceration
  - Decreased elasticity
  - Shortening, and increased irritation of vagina



## **Talking to Your Provider**



Marwick, C Survey says patients expect little physician help on sex. *JAMA* 1999;281:2173-2174.



## Patients, physicians, and asking about sex

- 25% of primary care physicians take a sex history (Jonassen, et al 2002)
- 75% patients believe that their physicians would dismiss their sexual health concerns or embarrass the physician (Marwick 1999)
- Over 90% of patients believe it is physician's role to address sexual health concerns and are grateful when this happens (Ende, et al 1984)



## What are some of the Symptoms and Treatment Options?

- Dryness
- Genitourinary Syndrome of Menopause
- Muscular Pain
- Neurologic Pain
- Low Desire
- Partner and Relationship Issues



### Treatment of local dryness

#### Moisturizers

- Replens-best studied
- Rephresh
- Vagisil
- Feminease
- Luvena
- Hyaluronic Acid

#### Lubricants

- Water based: K-Y, Astroglide, Liquid Silk: not all the same
- Silicone Based: Pink, Pjur Eros, K-Y

#### Oil Based

- Elegance Women's
- Olive Oil
- Coconut Oil



### **Dryness Treatments continued**

- Genitourinary Syndrome of Menopause (GSM)
  - Related to decreased hormone levels/blood blow
- Vaginal Estrogens
  - Creams: use 2-3x week
  - Causes elevated systemic estrogen (highest in first 3-4 mos)
    - Usually avoid in hormone receptor positive cancer
- Data does not support recurrence of hormone responsive endometrial cancer with local estrogen

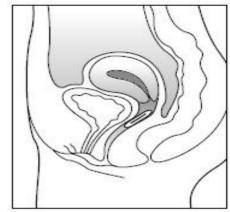


#### **GSM** continued

#### Alternative forms of hormones

 E-string: silicone ring, slow release of local estrogen over three months





- Vagifem/Yuvafem: tablet inserted at night, QD for 2 weeks, then biweekly
- Risk is thought to be low for breast cancer pts based on lowest absorption
- Don't confuse with Femring (a hormone replacement therapy)!



#### **Newest Local Treatment**

#### Vaginal DHEA

- dehydroepiandrosterone (DHEA; EndoCeutics)
- Endogenously adrenal makes most
- DHEA then can be turned into T and E which helps both locally and systemic
- Does Vaginal DHEA increase systemic hormones?
  - Data so far is very reassuring
  - All levels stay within postmenopausal range
  - No concern for endometrial proliferation

Martel C, et al. J Steroid Biochem Mol Biol. 2016 May;159:142-53 D.J. Portman, et al Menopause, 22 (12) (2015), pp. 1289–1295 Barton et al J Clin Oncol 32:5s, 2014



## More than GSM: Radiation induced stenosis

- Radiation for cervical and endometrial cancers, or to the pelvic region: risk for fibrosis / stenosis
- Risk increases with brachytherapy
- Decreased blood supply leads to dry, tender, less elastic tissue that may close off vagina



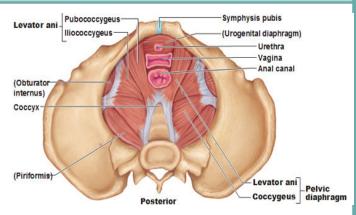
## Options to help treat and prevent stenosis

- Women who are sexually active should be encouraged to remain active prior to treatment and as early as 4 weeks after
- Vaginal dilator with or without estrogen cream used 3 times a week
  - Start 4-6 weeks after radiation ends\*
- Dilators can be daunting but remember you can start small and increase size of dilator
  - Try to make it a pleasurable activity





## **Treatments for Muscular Pain**



- Pain presents as tightness/tension usually but can also present as burning and sharp
- Physical Therapy and manual manipulation
- Low-dose diazepam, 5-mg tablets or compounded in suppositories, inserted vaginally or rectally before physical therapy
  - helps relax pelvic floor muscles to facilitate manual maneuvers
- Targeted injections of trigger points can also relieve pain
- Hartmann D, Sarton J. Best Pract Res Clin Obstet Gynaecol 2014
- Coady D, Kennedy V. Obstet Gynec 2016



## **Neurologic Pain**

- Neurologic sexual pain
  - Neuromata

- Superficial Diranches of perindal newsors of perindal departs of perindal departs of perindal departs of perindal departs of perindal newsors of p
- Sites of surgical transection nerves
- Treatment can be with manual physical therapy modalities
- Targeted perineural pudendal/ pelvic nerve injections, using an anesthetic and corticosteroid, may provide permanent relief
- Dellon AL, Coady D, Harris D. J Reconstr Microsurg 2015



#### **More on Nerve Pain**

- Most neuropathic medications don't have very good efficacy
- Opioid pain relievers do not relieve neuropathic pain and should be avoided
- Topical medications, including lidocaine, gabapentin, and amitriptyline, applied locally to the vulva or other painful sites benefit some women and avoid systemic side effects.
- Alternative therapies such as exercise, mindfulness and omega-3 do have evidence to support use
- Coady D, Kennedy V. Obstet Gynec 2016



# Other Interventions for Women

- Devices and toys
  - Very helpful for self stimulation
- Special creams containing L-arginine (dilates blood vessels) & menthol applied to clitoris to increase blood flow
- Lasers therapy?
  - Evidence based on small studies, no sham, no randomization
  - Safety established but not efficacy



#### **What About Desire?**

- Low desire is the #1 complaint across all women
- Desire relates to a complex interplay between chemicals in the brain and response from the genitals
- There is well established evidence that desire is lower in women who have been treated for cancer
- There is only one approved medication to treat low desire



## Flibanserin: not the "female viagra"

- 5HT1A agonist and 5HT2A antagonist
- Increased dopamine and norepinephrine
- Initially developed as an antidepressant
- Has been shown in numerous studies to improve sexual desire and number of satisfying sexual events
- Controversy over significance of the benefits
  - Measurements in SSE or subjective desire

Goldstein I, et al. Hypoactive Sexual Desire Disorder: International Society for the Study of Women's Sexual Health (ISSWSH) Expert Consensus Panel Review. Mayo Clin Proc. 2017



### **More options for Low Desire**

- Physical Activity
  - #1 predictor of desire if physical wellbeing
- Evidence for other medications (all off label)
  - Testosterone
  - Buproprion (NDRI)
  - Buspirone (5HTA1 partial agonist) → No/poor data
     Oxytocine → No/poor data
  - Bremelanotide: phase three trials



#### **Mental Health Professionals**

- Trained in counseling techniques
- Usually in outpatient settings or part of 'hospital team'
- Must pursue extensive training to become 'certified sex therapist' and be licensed in their professional field
- Must maintain their certification through ongoing training
- aasect.org



#### A Note on Partners Care

- Increased relationship stress impairs arousal, lubrication, orgasm and sexual satisfaction
- Speer, JJ, et al., The Breast Journal 2005
- "...a partner's emotional involvement was a strong predictor for a woman's sexual, marital and emotional adjustment after breast cancer"
- Wimberly et al, 2005 quoted in Huber, C. et al, Oncology Nursing Forum 2006



#### More Resources

- http://www.cancersexnetwork.org/
- https://www.nccn.org/patients/ resources/survivorship/ sexual\_health.aspx
- <u>Sex Matters for Women</u> by Sallie Foley, MSW, Sally Kope, MSW, and Dennis Sugrue, PhD
- <u>Sexuality and Fertility after Cancer</u> by Leslie Schover, PhD
- <u>Sexy Ever After: Intimacy Post-Cancer</u> by Keri Peterson, M.D. and Patty Brisben
- Woman Cancer Sex by Anne Katz, R.N., PhD



## **Final Note**

- Sexuality is a part of every person...from before they were born until they die
- Sexuality is a quality of life issue
- Each person has a right to their sexuality

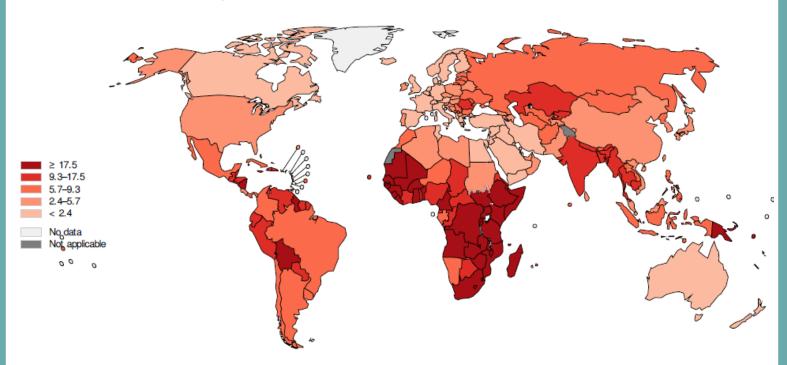


## Questions???



## **Cervical Cancer**

Estimated age-standardized rates (World) of deaths, cervical cancer, worldwide in 2012



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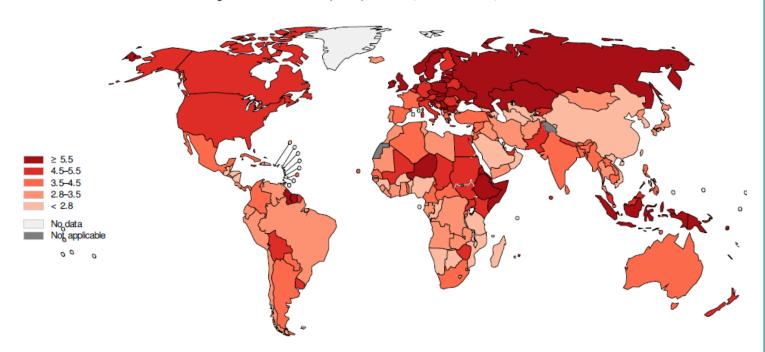
Data source:GLOBOCAN 2012 Map production:IARC (http://gco.iarc.fr/today) World Health Organization





## **Ovarian Cancer**

Estimated age-standardized rates (World) of deaths, ovarian cancer, worldwide in 2012



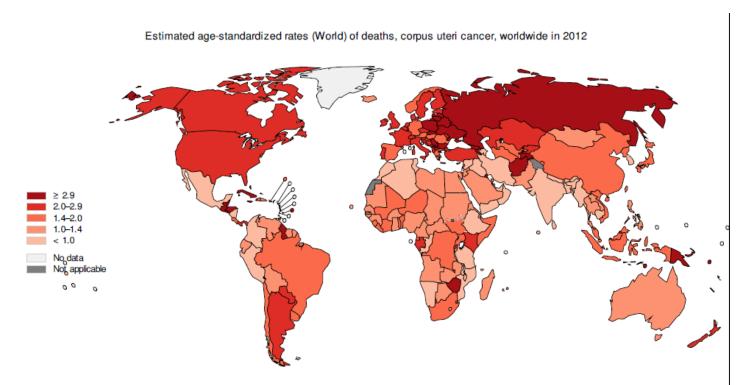
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## **Uterine Cancer**



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Data source:GLOBOCAN 2012 Map production: IARC (http://gco.iarc.fr/today) World Health Organization





#### **Feedback**

- Why did you sign up for Mini Medical School?
- What was the most interesting thing you learned in the past 6 weeks?
- What should we have covered that we missed?
- How can we improve awareness for gynecologic cancers?



# Thank you!







September is Gynecologic Cancer Awareness Month