

# WOMEN'S HEALTH BOARD REVIEW

Addie McClintock, MD

July 2021



# “Women’s Health”

From the Certification Exam Blueprint:

- Primary medical content categories include:

- *Ob-Gyn 3%*

- Cross content categories include:

- *Women's Health 6% (Overlap with Rheumatology, Endocrinology, ID, etc)*

- *Ob-Gyn specialty* topics not a focus of IM exam

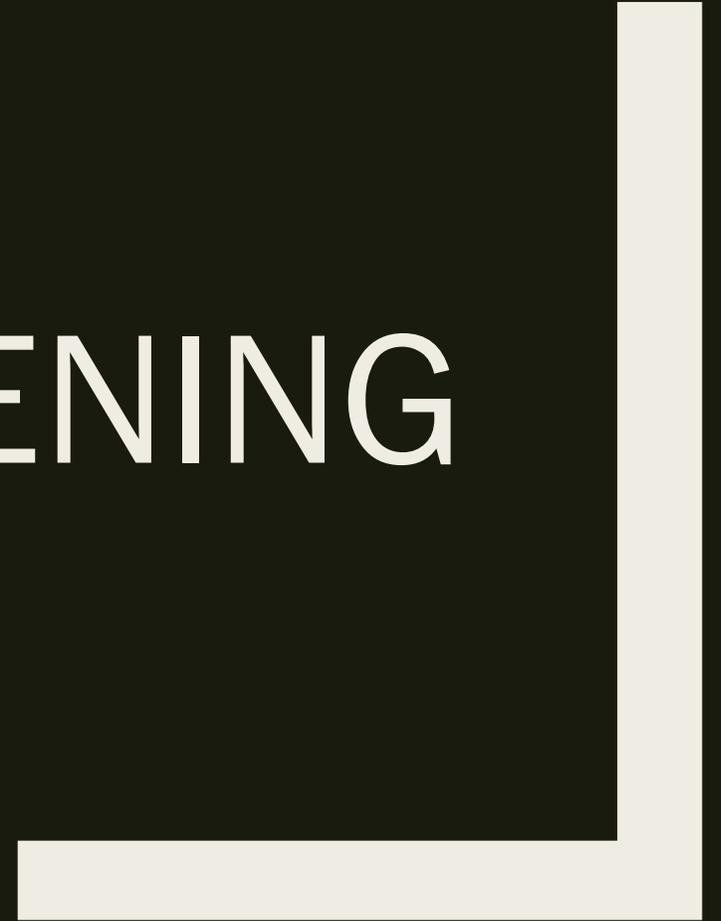
- Medical aspects do appear on exam:

- *Screening*
- *Common “medical gyn” conditions*
- *Pre-existing or new medical conditions in pregnancy & postpartum period*

# Key Topics

- Screening and Prevention
- Breast Lesions
- Absent or abnormal bleeding
- Family Planning
- Menopause

SCREENING



# Case

30 year old woman with no past medical history presents for a wellness exam. She has never been a smoker, rarely drinks alcohol, is sexually active with 1 monogamous male partner for five years and uses an IUD for contraception. She is up to date with all of her vaccinations. She had negative STI testing 2 years ago pap 5 years ago.

What screening is advised for today?

- A- Mammography
- B- Cervical cancer screening (pap)
- C- GC/CT Testing
- D- Bimanual exam

# Case

30 year old woman with no past medical history presents for a wellness exam. She has never been a smoker, rarely drinks alcohol, is sexually active with 1 monogamous male partner for five years and uses an IUD for contraception. She is up to date with all of her vaccinations. She had negative STI testing 2 years ago, pap 5 years ago.

What screening is advised for today?

A- Mammography

B- Cervical cancer screening

C- GC/CT Testing

D- Bimanual exam

# Key Topic: Prevention: Cervical Cancer Screening

- USPSTF and ACS agree that after 30 years old, screen with primary HPV testing or with co-testing
  - *Some areas of recent change about when to start (21 vs. 25), but everyone agrees to start by 25 years old, and to test for HPV (primary HPV, cytology with reflex HPV, or co-test generally all acceptable).*
  - *Every 5 years if normal and HPV testing done*
  - *Every 3 years if normal and no HPV testing*

# Folic Acid: Grade A Recommendation

The USPSTF recommends that all women who are planning or capable of pregnancy take a daily supplement containing 0.4 to 0.8 mg (400 to 800 µg) of folic acid.

# Case

68 yo F presents for preventive health visit. She is healthy & has never smoked. She has received all recommended vaccines. Her prior screening tests have all had normal results, with last mammogram 18 mo ago, lipids & Pap smear 3 yrs ago, and colonoscopy 6 yrs ago.

Which screening or preventive measure is advised for her now, based on Grade A or B recommendation from USPSTF?

- A. *Bimanual pelvic examination*
- B. *Dual-energy Xray absorptiometry (DEXA) scan*
- C. *Mammogram*
- D. *Pap smear*
- E. *Ultrasound for abdominal aortic aneurysm*

# Case

68 yo F presents for preventive health visit. She is healthy & has never smoked. She has received all recommended vaccines. Her prior screening tests have all had normal results, with last mammogram 18 mo ago; lipids & Pap smear 3 yrs ago, and colonoscopy 6 yrs ago.

- Which screening or preventive measure is advised for her now, based on Grade A or B recommendation from USPSTF?

- A. *Bimanual pelvic examination* Grade I
- B. *Dual-energy Xray absorptiometry (DEXA) scan* Grade B
- C. *Mammogram* biennial screen = Grade B
- D. *Pap smear* Grade D
- E. *Ultrasound for abdominal aortic aneurysm* Grade D

# Clinical Problem: Screening in asymptomatic women age 65 & over

## USPSTF (Grade B) Recommended

Osteoporosis screening	<ul style="list-style-type: none"><li>• At age <math>\geq 65</math> for women at average risk</li><li>• At younger age for women at higher risk</li></ul>
Breast cancer screening	Mammography every 2 years for ages 50-74

## USPSTF Not Recommended (Grade D) or Evidence Insufficient (Grade I)

AAA screening	Not Recommended for women who never smoked ( <i>Grade I, evidence insufficient, for screening women age 65-75 who have smoked</i> )
Cervical cancer screening	Age $\geq 65$ if prior screening was adequate* and who are not otherwise at high risk for cervical cancer <i>*Past 10 yrs: <math>\geq 3</math> normal Pap, or <math>\geq 2</math> Pap &amp; HPV normal</i>
Screening bimanual exam	Insufficient Evidence (Grade I) ACP recommends <i>against</i> (clinical practice guideline 7/2014)

# BREAST LESIONS

Workups



# Case

A 24-year-old woman is evaluated for a breast lump.

-no breast trauma or nipple discharge

-Nulliparous, regular menstrual cycles.

-No PMH. FH: Mom breast cancer at age 58 years; no other family members have cancer.

Meds: OCP

PE: Normal VS. BMI is 25. Breast: no skin changes. Notable for a firm, 3-cm, non-tender, well-circumscribed mobile mass. No lymphadenopathy.

**Which of the following is the most appropriate test to perform in this patient?**

A- Screening Mammography

B- Ultrasound

C- MRI

D- Diagnostic Mammography and Ultrasound

# Case 5

A 24-year-old woman is evaluated for a breast lump.

-no breast trauma or nipple discharge

-Nulliparous, regular menstrual cycles.

-No PMH. FH: Mom breast cancer at age 58 years; no other family members have cancer.

Meds: OCP

PE: Normal VS. BMI is 25. Breast: no skin changes. She has a firm, 3-cm, non-tender, well-circumscribed mobile mass. No lymphadenopathy.

**Which of the following is the most appropriate test to perform in this patient?**

A- Screening Mammography

**B- Ultrasound**

C- MRI

D- Diagnostic Mammography and Ultrasound

# Key Point: Screening vs. Diagnostic Imaging

- Screening guidelines don't apply when evaluating a symptom or finding
  - *Guidelines are for people at average risk unless otherwise specified*
- Symptoms or findings need evaluation to identify, or rule out, a concerning underlying explanation using *diagnostic imaging*

# Case

A 44-year-old woman with a breast lump x1 week.

There is no nipple discharge. G2P2, first birth at age 25. Menstrual cycles are regular. PMH: none, FH: no cancer. No Meds.

PE: vital signs are normal. BMI is 28. Breast exam: Examination of the breasts: no skin changes. A mass is noted in the upper inner area of the right breast, 1.8 cm; it is firm, mobile, and non-tender, with ill-defined margins. No lymphadenopathy. Exam otherwise unremarkable.

Which of the following is the most appropriate diagnostic test to perform next?

A- Breast MRI

B - Core-needle biopsy

C- Diagnostic mammography and ultrasonography

D- Ultrasonography

# Case

A 44-year-old woman with a breast lump she x1 week.

There is no nipple discharge. G2P2, first birth at age 25. Menstrual cycles are regular. PMH: none, FH: no cancer. No Meds.

PE: vital signs are normal. BMI is 28. Breast exam: Examination of the breasts: no skin changes. A mass is noted in the upper inner area of the right breast, measuring 1.8 cm; it is firm, mobile, and non-tender, with ill-defined margins. No lymphadenopathy. Exam otherwise unremarkable.

Which of the following is the most appropriate diagnostic test to perform next?

- A. Breast MRI
- B. Core-needle biopsy
- C. Diagnostic mammography and ultrasonography
- D. Ultrasonography

# Key Point: Person's age determines diagnostic workup

<30

- Ultrasound only

≥30

- Diagnostic Mammo AND
- Ultrasound

# Diffuse vs. Focal Breast symptoms

- Many women have cyclic breast pain with onset of menses. Usually bilateral, lasts for several days, and resolves with/after period.
- Non-cyclic breast pain is more likely to be unilateral. Causes: trauma, cysts, duct ectasia, mastitis, ligamentous stretching due to large breast size, or a breast mass.
- Women with noncyclic breast pain, even without palpable mass should undergo age appropriate diagnostic imaging. Approximately 1% of such patients may have breast cancer at the site of pain.

# Key Point: Diffuse vs. Focal symptoms

## BIG DIFFERENCE

### Diffuse

- Bra fit
- Hormonal changes
- Ok to monitor 1-3 mo

### Focal

- “Lump equivalent”
- Diagnostic imaging

# VAGINAL BLEEDING

Too little, too much, wrong time



# Bleeding abnormalities- Three types

## Amenorrhea

- Missing or absent periods

## Menorrhagia

- Bleeding Too much

## Post-Menopausal

- Bleeding when you shouldn't be

# Case

27 year old woman presents for evaluation of nausea. She has a past medical history of bipolar disorder and PCOS. She has been having irregular periods for the past three years, LMP was about 4 months ago. Meds: Metformin, Lithium, Risperidone. She was recently started on Metformin, which coincided with onset of chronic nausea. She is sexually active with one male partner with intermittent condom use.

What is the next best step to evaluate her nausea?

- A. Pregnancy Test (beta-hcg)
- B. Thyroid function testing
- C. Stop Metformin
- D. Gastric emptying study

# Case

27 year old woman presents for evaluation of nausea. She has a past medical history of bipolar disorder and PCOS. She has been having irregular periods for the past three years, LMP was about 4 months ago. Meds: Metformin, Lithium, Risperidone. She was recently started on Metformin, which coincided with onset of chronic nausea. She is sexually active with one male partner with intermittent condom use.

What is the next best step to evaluate her nausea?

- A. Pregnancy Test (beta-hcg)
- B. Thyroid function testing
- C. Stop Metformin
- D. Gastric emptying study

# Key Point: PREGNANCY HAPPENS!

- You should have a REALLY good reason to pick something OTHER than pregnancy test for reproductive aged women if it is an answer choice
- Consider possible pregnancy in setting of:
  - *Acute pelvic pain and/or vaginal bleeding*
  - *Nausea, breast tenderness, new fatigue, menstrual changes, abdominal bloating, thromboembolism*
  - *Starting contraception*
- Consider potential for intended or unintended pregnancy when prescribing:
  - *Teratogenic medications*
  - *Medications which may change conception risk*

# Case

A 28 year old woman w/ 5 month history of amenorrhea.

Formerly had normal menses. Eats a healthy diet, does not exercise regularly.

She reports a lot of stress at work.

PMH: negative, FH: none, Meds: None

On exam, afebrile, BP 110/70, HR 60, RR 10, BMI 23. Visual field testing is normal, as are thyroid and pelvic exams. She has mild facial acne. No galactorrhea.

Labs reveal slightly, low/normal FSH, normal TSH and neg. hgc. Progestin challenge does not produce withdrawal bleeding.

Pituitary MRI is normal.

What is the cause of her amenorrhea?

What is the most likely cause of her amenorrhea?

- A) Functional hypothalamic amenorrhea
- B) Polycystic ovarian syndrome
- C) Primary ovarian insufficiency
- D) Subclinical hypothyroidism

# Case

A 28 year old woman w/ 5 month history of amenorrhea.

Formerly had normal menses. Eats a healthy diet, does not exercise regularly.

She reports a lot of stress at work.

PMH: negative, FH: none, Meds: None

On exam, afebrile, BP 110/70, HR 60, RR 10, BMI 23. Visual field testing is normal, as are thyroid and pelvic exams. She has mild facial acne. No galactorrhea.

Labs reveal slightly, low/normal FSH, normal TSH and neg. hgc. Progestin challenge does not produce withdrawal bleeding. Pituitary MRI is normal.

What is the cause of her amenorrhea?

What is the most likely cause of her amenorrhea?

- A) Functional hypothalamic amenorrhea
- B) Polycystic ovarian syndrome
- C) Primary ovarian insufficiency
- D) Subclinical hypothyroidism

# Amenorrhea/ Oligomenorrhea ddx

## Hypothalamus

- Stress, eating disorders, exercise

## Pituitary

- Sheehan's, Prolactinoma/Prolactinemia (breast feeding)

## Ovary

- PCOS, Ovarian Insufficiency, Menopause

## Uterus

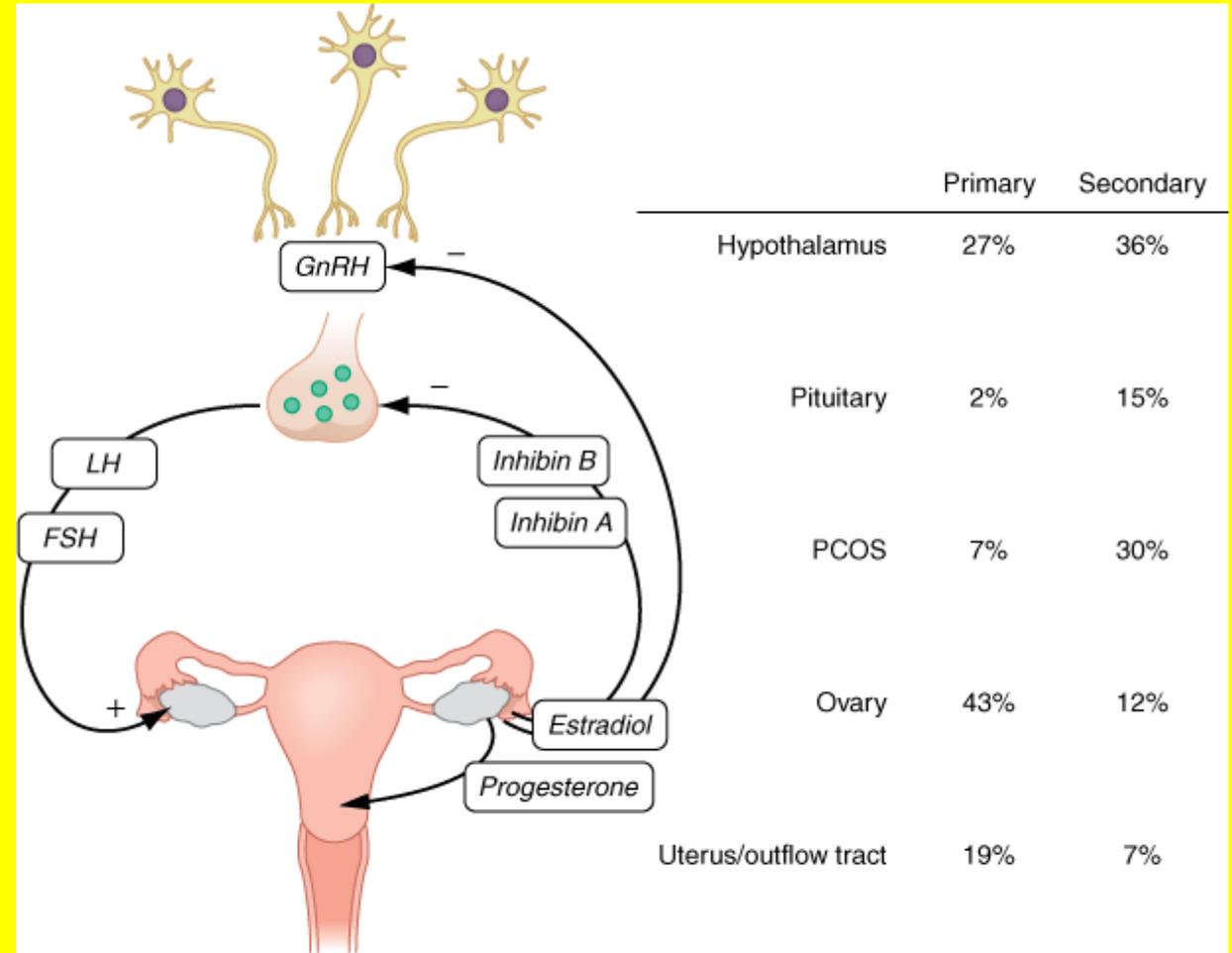
- Asherman's/scarring, PREGNANCY

## Vagina

- Anatomic obstruction

## Other

- Thyroid
- CAH
- Obesity (related to adipocyte aromatase activity)



Source: Fauci AS, Kasper DL, Braunwald E, Hauser SL, Longo DL, Jameson JL, Loscalzo J: *Harrison's Principles of Internal Medicine*, 17th Edition: <http://www.accessmedicine.com>  
 Copyright © The McGraw-Hill Companies, Inc. All rights reserved.

# PALM- COEIN for heavy bleeding

Structural

**Polyp**

**Adenomyosis**

**Leiomyoma**

**Malignancy/  
Hypertrophy**

Non-  
Structural

**Coagulopathy**

**Ovulatory  
dysfunction**

**Endometrial**

**Iatrogenic**

**Not classified**

# Case

A 48 year old woman comes in for vaginal bleeding. She reports she has “never” had regular periods her whole life, but never saw anyone about it since it didn’t bother her. Recently, however, she has had three periods that are lasting 14 days, and is concerned about it. She is not sexually active.

PMH: obesity (BMI 38), HTN, DM for past 10 years, well controlled

FH: father with colon ca, passed away

EXAM: BP 160/ 85, blood in vaginal vault, no other exam findings

What is the next best step ?

- A. Start oral contraceptives
- B. Pelvic Ultrasound
- C. Pregnancy Test
- D. Monitor

# Case

A 48 year old woman comes in for vaginal bleeding. She reports she has “never” had regular periods her whole life, but never saw anyone about it since it didn’t bother her. Recently, however, she has had three periods that are lasting 14 days, and is concerned about it. She is not sexually active.

PMH: obesity (BMI 34), HTN, DM for past 10 years, well controlled

FH: father with colon ca, passed away

EXAM: BP 160/ 85, blood in vaginal vault, no other exam findings

What is the next best step ?

- A. Start oral contraceptives
- B. Pelvic Ultrasound
- C. Pregnancy Test
- D. Monitor

# Key Point: Don't "sit on":

Post-menopausal women with ANY uterine bleeding,  
regardless of volume

Age 45 years to menopause

Bleeding that is newly:

Frequent

Heavy

Prolonged

Younger women with risk factors for endometrial cancer

DMII, PCOS, Obesity, Smoking, FH

# Key Point: Evaluate AUB

- Pregnancy test, CBC, PT/aPTT, TSH
- Pelvic exam
- Pelvic Ultrasound
- Endometrial biopsy if >45yo and endometrial stripe >4mm, or younger with risk factors

# Key Point: Treat AUB

NSAIDS (cheap! Avoid if CAD, CKD)

Progestin- Oral or LNG- IUD (IUD better from a bleeding perspective)

Combination oral contraceptives (BEWARE contraindications to estrogen!)

Tranexamic acid (\$\$)

Surgery

# FAMILY PLANNING

Contraception, Preconception, Chronic Conditions



# Case

A 35-year-old woman here for blood pressure follow up. She hopes to become pregnant and would like to stop her oral contraceptive. She does not smoke, drink, or use drugs. She is in a monogamous sexual relationship and has had no sexually transmitted infections.

PMH: hypertension, Type 2 DM, anxiety.

Meds: OCP, lisinopril, metformin, sertraline and acetaminophen as needed.

PE: vital signs are normal. Exam unremarkable.

In addition to starting folic acid, which of the following medications should be stopped at this time?

- A. Metformin
- B. Lisinopril
- C. Sertraline
- D. Acetaminophen

# Case

A 35-year-old woman here for blood pressure follow up. She hopes to become pregnant and would like to stop her oral contraceptive. She does not smoke, drink, or use drugs. She is in a monogamous sexual relationship and has had no sexually transmitted infections.

PMH: hypertension, Type 2 DM, anxiety.

Meds: OCP, lisinopril, metformin, sertraline and acetaminophen as needed.

PE: vital signs are normal. Exam unremarkable.

In addition to starting folic acid, which of the following medications should be stopped at this time?

- A. Metformin
- B. Lisinopril
- C. Sertraline
- D. Acetaminophen

# Key Point: Medication safety in pregnancy

## NO

- ACEs, ARBs, Renin blockers
- NSAIDS
- Warfarin
- Valproic Acid
- Lithium
- Accutane/Retinoids
- “-cycline” abx (tetra, doxy)
- Paxil (SSRI exception)

## OK

- Metformin, Insulin
- SSRIs (sertraline preferred)
- Labetalol, Metyldopa, CCBs, Diuretics\*
- Acetaminophen

# Case

A 37-year-old woman here to discuss contraceptive options. She is married and has a 1-year-old child. She says that her child was an “accident” because she had a hard time remembering to take her OCP. Periods are regular but heavy.

PMH: none

SH: Smokes a pack of cigarettes daily. She has no other health issues and takes no medications.

Upreg negative today

Discussed smoking, she is not ready quit or cut back right now.

Which of the following is the most appropriate therapy for this patient?

- A. Estrogen-progestin oral contraceptive
- B. Estrogen-progestin vaginal ring
- C. Progesterone-containing intrauterine device
- D. Progesterone-only “mini pill”

# Case

A 37-year-old woman here to discuss contraceptive options. She is married and has a 1-year-old child. She says that her child was an “accident” because she had a hard time remembering to take her OCP. Periods are regular but heavy.

PMH: none

SH: Smokes a pack of cigarettes daily. She has no other health issues and takes no medications.

Upreg negative today

Discussed smoking, s he is not ready quit or cut back right now.

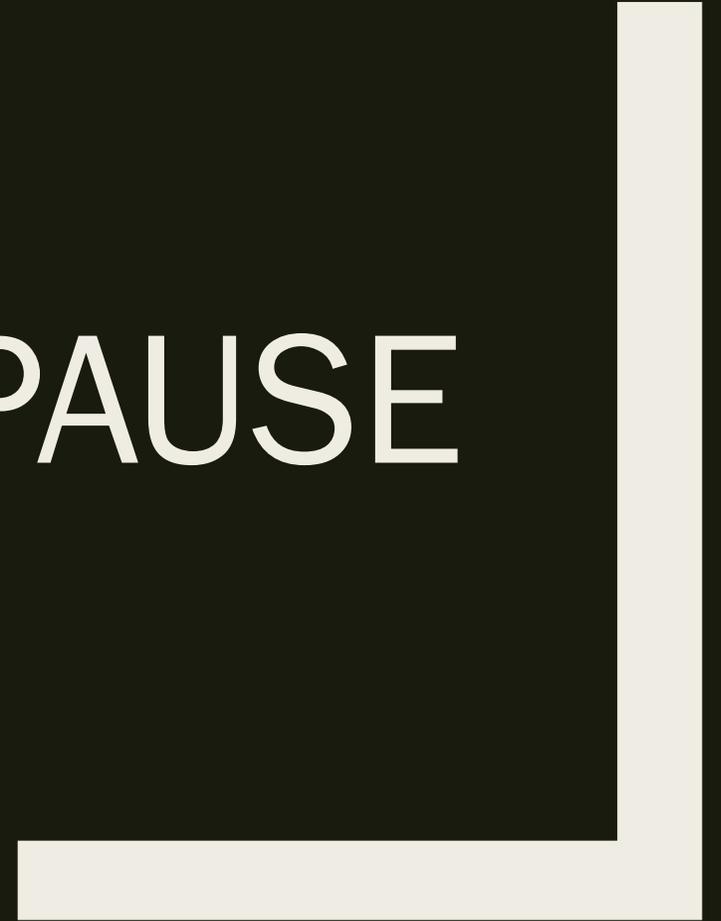
Which of the following is the most appropriate therapy for this patient?

- A. Estrogen-progestin oral contraceptive
- B. Copper IUD
- C. Progesterone-containing intrauterine device
- D. Progesterone-only “mini pill”

# Key Point: Recognize Contraindications to Estrogens

- >35 years old and smoking >15 cigarettes a day
- Migraine with aura
- History of: CAD, vascular disease, VTE
- DM with known microvascular disease (retinopathy, nephropathy, neuropathy) or other vascular dz
- HTN with BP > 160 systolic
- Decompensated cirrhosis

MENOPAUSE



# Case

A 56-year-old woman with severe vaginal itching and discomfort, progressively worse x4 mo. No discharge or odor. Intercourse has become painful despite lubricant use. PMH: Menopause since age 53 years. Meds: none

On physical examination, vital signs are normal. Physical examination reveals dry vaginal epithelium that is smooth and shiny. Blood vessels are visible beneath the pale vaginal mucosa, and increased friability is evident.

Vaginal pH is 6.0. Wet mount shows occasional leukocytes. Whiff test result is negative. There are no clue cells and no hyphae on potassium hydroxide preparation.

What is the most likely diagnosis?

- A. Vulvovaginal yeast infection
- B. Atrophic vaginitis (GU syndrome of menopause)
- C. Vulvar lichen sclerosis
- D. Contact dermatitis

# Case

A 56-year-old woman with severe vaginal itching and discomfort, progressively worse x4 mo. No discharge or odor. Intercourse has become painful despite lubricant use. PMH: Menopause since age 53 years. Meds: none

On physical examination, vital signs are normal. Physical examination reveals dry vaginal epithelium that is smooth and shiny. Blood vessels are visible beneath the pale vaginal mucosa, and increased friability is evident.

Vaginal pH is 6.0. Wet mount shows occasional leukocytes. Whiff test result is negative. There are no clue cells and no hyphae on potassium hydroxide preparation.

What is the most likely diagnosis?

- A. Vulvovaginal yeast infection
- B. Atrophic vaginitis (GU syndrome of menopause)
- C. Vulvar lichen sclerosis
- D. Contact dermatitis

# Case

51 year old woman comes to see you for help with 5 month history of hot flashes, getting worse, and now occurring multiple times a day, very disruptive to her life and sleep. LMP 9 months ago. No personal or FH cancers. Meds: none. PMH: none. SH: none.

Exam: VS normal. Exam unremarkable.

What is the most appropriate management for this patient?

- A. Hormone therapy with estrogen and progesterone
- B. Hormone therapy with estrogen alone
- C. Vaginal estrogen
- D. Hormone therapy with progesterone alone

# Case

51 year old woman comes to see you for help with 5 month history of hot flashes, getting worse, and now occurring multiple times a day, very disruptive to her life and sleep. LMP 9 months ago. No personal or FH cancers. Meds: none. PMH: none. SH: none.

Exam: VS normal. Exam unremarkable.

What is the most appropriate management for this patient?

- A. Hormone therapy with estrogen and progesterone
- B. Hormone therapy with estrogen alone
- C. Vaginal estrogen
- D. Hormone therapy with progesterone alone

# Manage vasomotor symptoms of menopause

- Combination systemic HRT (estrogen+ progesterone) is an option for moderate to severe hot flashes in menopausal women who are under the age of 60 and within 10 years of menopause.
- After 5 years of use, risk of breast cancer increases
- Candidates: not at increased risk of breast cancer, no CAD, or history of stroke or VTE.

# Regimens

## Intact uterus

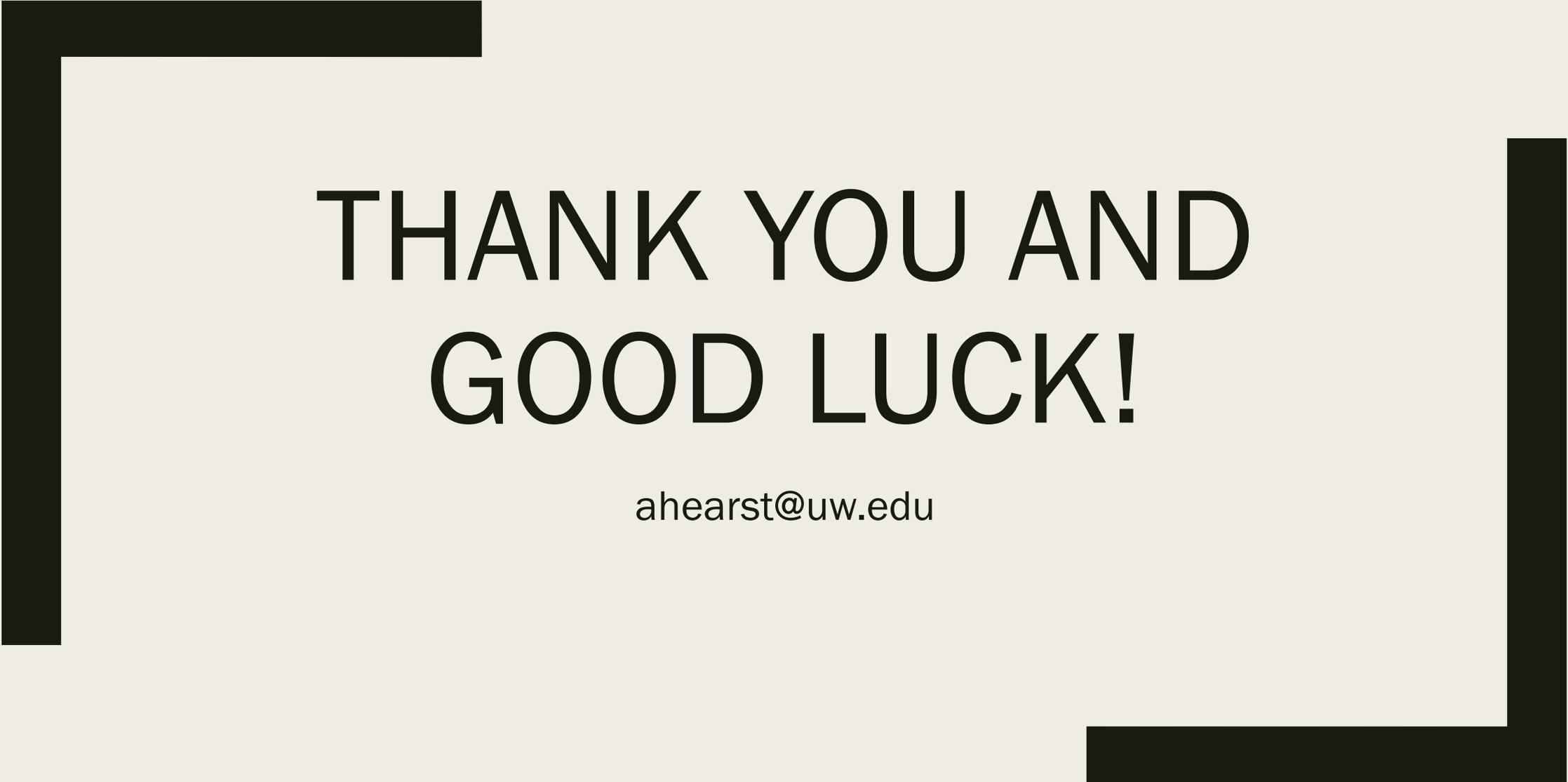
- E+P
- Progestin to protect from endometrial hyperplasia. Can be oral, patch or IUD

## No uterus

- Estrogen alone

## Non-estrogen alternatives

- Gabapentin, (Es)citalopram, (des)Venlafaxine, Paroxetine- benefits more modest

The image features two large, thick black L-shaped brackets. One is positioned in the top-left corner, and the other is in the bottom-right corner, framing the central text.

THANK YOU AND  
GOOD LUCK!

[ahearst@uw.edu](mailto:ahearst@uw.edu)