

# Menopause: Cases and Controversies

Pallavi Khanna MD, MSCP 38th Annual Contemporary Issues in Obstetrics and Gynecology, 2024

### Disclosures

• Speaker – Astellas

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• America's Board Review – Q bank contributor

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# **Objectives**

- Determine when to offer Menopausal Hormone Therapy (MHT).
- Evaluate the benefits versus risks of initiating MHT.
- Select the appropriate Menopausal Hormone Therapy.
- Recommend alternatives when Menopausal Hormone Therapy is not an option.

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# 3 Cases

- 38 yo with premature menopause
- 48 yo in menopause transition with " symptoms of hormonal imbalance "
- 68 yo with hot flashes, vaginal dryness and pain with intercourse

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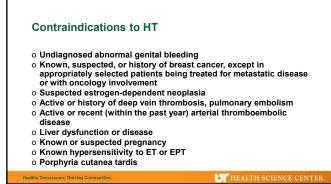
# Diagnostic Work-up of POI

- History and physical examination, detailed family history
- Estradiol, FSH, LH
- If FSH elevated, repeat FSH and estradiol level at least 4 wk later
- Karyotype
- Anti-21hydroxylase antibodies

Nelson, IM, N.Engl./ Mich. 2009;360(6):606:614.inities

- Fragile X screen
- Thyroid-stimulating hormone (TSH), free thyroxine (T<sub>4</sub>), anti-thyroid-peroxidase antibodies
- Glucose, metabolic profile, complete blood count

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# **Management of POI**

- Standard of care is physiologic estrogen and progestin treatment
  - Estrogen: 100 μg transdermal estradiol patch, or 1.25 mg conjugated equine estrogens (CEE), or 2 mg of estradiol orally
  - If uterus is present, cyclical progestins should be added ≥12 d/mo
  - Combined hormone contraception or transdermal estradiol-progestin systems are alternatives
- Recommended duration of therapy is at least until the natural age of menopause
   For those desiring pregnancy
- Can still carry a pregnancy but will likely require an egg donor to become pregnant

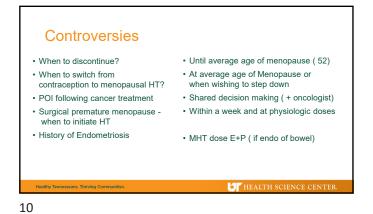
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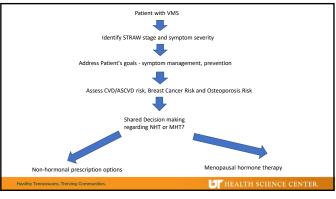


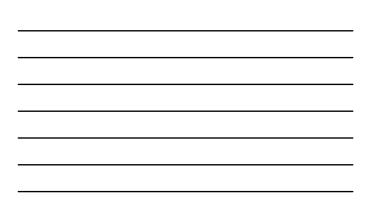
48 yo in menopause transition with bothersome hot flashes 45-55 year olds

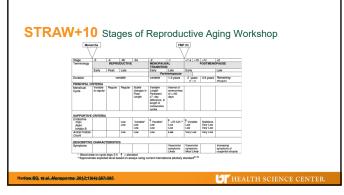
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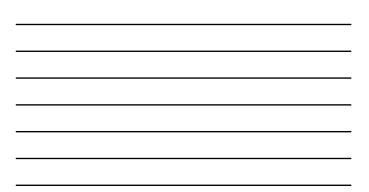
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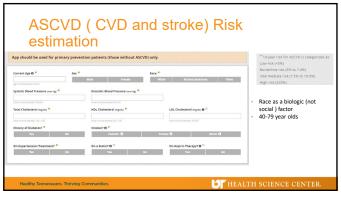


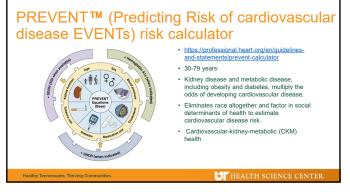


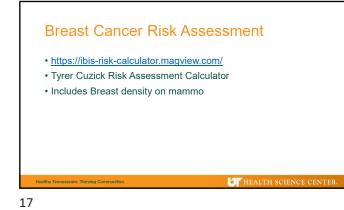


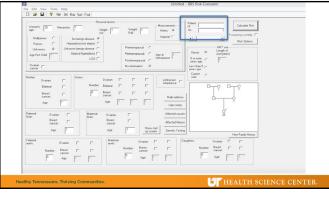


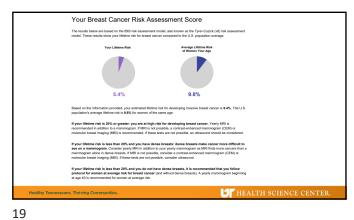
				aire					
on 13. SYMPTOMS					I need to urinate more often than usual				
					I leak urine	-	0	0	0
dicate how bothered you are now and in the	past few weeks b	y any of the fi	allowing:		I have pain or burning when urinating	0	0	-	0
	Not at all	A little bit	Quite a bit	Extremely	I have bladder infections		0		
I have hot flashes				•	I have uncontrollable loss of stool or gas		0	0	0
I have night sweats			0	0	My vagina is dry		0	0	0
I have difficulty getting to sleep					I have vaginal itching		0	0	
have difficulty staying asleep		0	0	0	I have an abnormal vaginal discharge				
I get heart palpitations or a sensation of			•		I have vaginal infections		0	0	
butterflies in my chest or stomach I feel like my skin is crawling or itching					I have pain during intercourse		0	0	0
I feel like my skin is crawing or itoning				<u> </u>	<ul> <li>I have pain inside during intercourse</li> </ul>				
I have difficulty concentrating					I have bleeding after intercourse		0	0	
My memory is poor				-	I lack desire or interest in sexual activity		0	0	0
am more initable than usual					I have difficulty achieving orgasm				
I feel more anxious than usual					My opportunity for sexual activity is limited				
I have more depressed moods					My stomach feels like it's bloated or		0	0	0
I am having mood swings					<ul> <li>I've gained weight</li> </ul>				
I have crying spells					I have breast tenderness		0	0	
I have beadaches					<ul> <li>I have joint pains</li> </ul>				

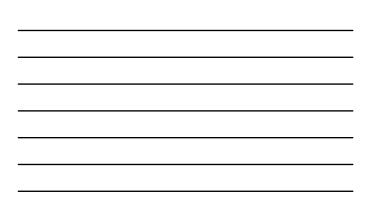




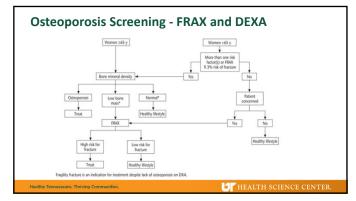












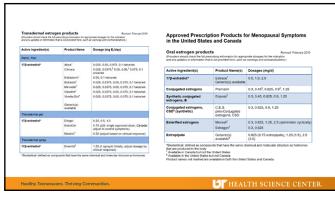




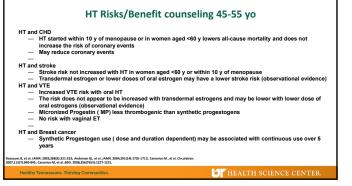


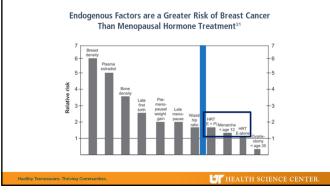
						<b>U</b> THSC
Initiatio	ı : Estradi	ol Doses				
	g on severity of eded until stab		-0.05 mg	E2 TD/0.3-	0.625 mg CE	E/0.5-1mg E2 oral and
	Estradiol-approximate	e equivalent doses				
		Ultra low	Low	Medium	High	
	Oral	0.5mg	1.0mg	2.0mg	3-4mg	
	Patch	Half 25	25	50	75-100	
	Gel-pump	½ pump	1 pump	2 pumps	3-4 pumps	
	Gel-Sachet	½ x 0.5mg sachet-0.25mg	0.5mg	1-1.5mg	2-3mg	
	Spray	1 spray	2 sprays	3 sprays	-	

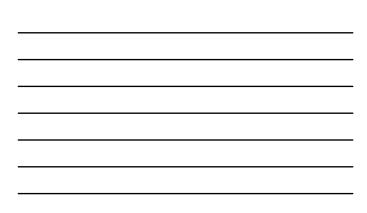












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#### **Oral vs Transdermal Estradiol hormone therapy**

- Plasma estrogen peaks & troughs
- First pass through GI tract & liver (requires higher dose)
- Increased hepatic enzymes, inflammatory markers
- Increased triglycerides
- Increased blood pressure
- Decreased LDL cholesterol and increased HDL

Serum E2 levels relatively constant

- Does not pass through liver lower doses required
  No change in inflammatory
- markers
- No change or decrease in triglycerides
- Decrease in blood pressure
- Decreases LDL but no change
   in HDL

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# Controversies

- MHT and hx of breast cancer?
- MHT and BRCA?
- HT for non-FDA approved indications?
- HT for osteoporosis prevention
- Compounded HT/ Pellets?
- Menopause supplements?
- MHT for cardio prevention?

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and help transition to FDA approved options

Not enough data/placebo effect

Shared decision making (+ oncologist)

Not a contraindication

Yes

· Shared decision making

• PLEASE REFRAIN, educate

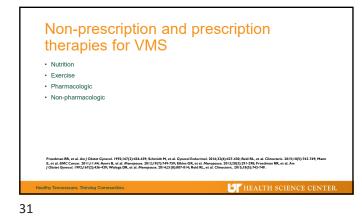
 If used for FDA approved indications AND/OR in Menopause transition / within 10 years of Menopause

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#### **Timing of HT Initiation**

Timing hypothesis
 There may be less risk associated with HT use and potential coronary heart
 disease (CHD) benefit if initiated closer to the time of menopause
 In contrast, HT use initiated further from menopause may be harmful
 Evidence from the WHI
 Absolute risk of CHD was lower in younger, recently postmenopausal
 women

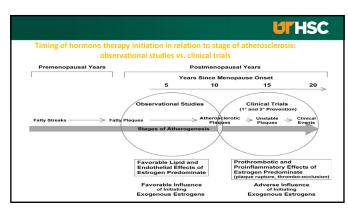
- Absolute risk of CHD was lower in younger, recently postmenopausal
  women
   Heart attack risk increased during the first year of EPT in older women
   Use of HT within 10 y of the onset of menopause was associated with a
  lower CHD risk than if it was started 220 y from LMP
   Women aged 50-59 y in the ET arm had a more favorable all-cause mortality
   and fewer MIs
   Estrogen Prevention Study and the Early Versus Late Intervention Trial
  With Estradiol also showed safety of HT use initiated early in menopause

Rossouw JE, et al. JAMA. 2007;297(13):1465-1477. Manson JE, et al. JAMA. 2013;310(13)1353-1368. Manson JE, et al. JAMA. 2017;318(10):927-938. Harman SM, et al. Ann Intern Med. 2014;161(4):249-260. Hodis HN, et al. N Engl J Med. 2016;374(13):1221-1231.

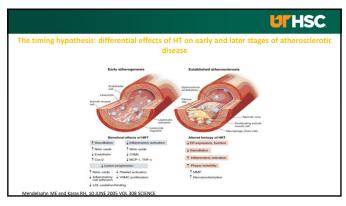
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# Non hormonal FDA approved for VMS • 7.5mg Paroxetine

- 45mg Fezolinetant
- Nutrition

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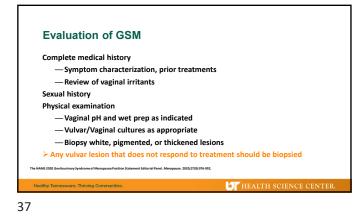
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Exercise

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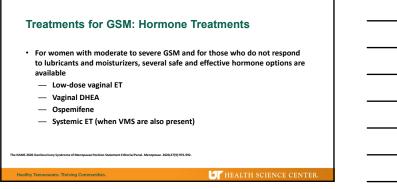
- Off-Label Management of Symptoms: SSRI/SNRI
- Venlafexine (*Effexor XR*) 37.5 mg a day- titrate as needed; commonly 75 mg/day
- Desvenlafexine (*Pristiq*) 50-100 mg/day Escitalopram (*Lexapro*) – 10-20 mg/day Gabapentin (*Neurontin*) – 300 mg hs/titrate 300 mg tid



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 Intervente for GSM: Nonhormone Therapies

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#### FDA-Approved Therapies for GSM in the United States and Canada 178-estradiol 0.01% (0.1 mg active ingredient/g) 0.5-1 g/d for 2 wk 0.5-1 g/d for 2 wk 0.5-1 g 1-3 ti Variable Conjugated estrogens (0.625 mg active ingredient/g) 4 or 10 µg/d for 2 wk 3.6 (4 μg) 4.6 (10 μg) 1 insert twice/wk 5.5 5 8 10 µg/d for 2 wk 6.5 mg/d 1 insert/d mg ring releases µg/d 60 mg/d 1 tablet by mouth/d N/A use. 2020;27(9):976-992. HEALTH SCIE

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