MENOPAUSE MANAGEMENT 2011

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Common challenges

- Am I menopausal?
- Is my bleeding OK and what can I do about it?
- Something else was found on my sonogram.
- Can I do something about my hot flashes?
- What are Bio-Identical hormones anyway?

AM I MENOPAUSAL?

- Why does it matter?
 - Contraception
 - Bleeding
 - Intensity, longevity of menopausal symptoms

have severe hot flashes. Am I menopausal?

- Now 46, I've had a hysterectomy and one ovary removed
- 2. I'm 51, had periods in October and March and my FSH is 38
- 3. I'm 32, still have my uterus but my ovaries were removed for cysts
- 4. I'm 48 and haven't had a period since my endometrial ablation 2 years ago

AM I MENOPAUSAL?

- No ovaries
- 12 months no bleeding (appropriate age)
- Elevated FSH >20 (as a guide) if no endometrium
 - Hysterectomy
 - Endometrial ablation
 - Mirena
 - At the end of her HFI on OC

AM I MENOPAUSAL?

- Role of FSH in the ovulation cycle
 - Rises and falls between 2 and 15 in the ovulation cycle
 - Will rise higher as aging follicles are resistant (negative feedback loop)
 - Irregular perimenopausal bleeding may/may not be preceded by ovulation
 - FSH>20, LH>30 suggests few remaining receptive follicles but does not define menopause
 - Menopause defined by 12 months amenorrhea (w/o endometrial suppression by OC, DMPA, Mirena, ablation, hysterectomy)

AMT MENOPAUSAL? Nomenclature

Perimenopause/menopause transition From a few years prior to 12 months after FMP.

Menopause

Confirmed 12 months after the FMP

Early menopause

Spontaneous or induced age 40-45

Premature menopause

Under age 40

AMTMENOPAUSAL? Nomenclature

Abnormal uterine bleeding -- AUB

Dysfunctional Uterine Bleeding -- DUB -- Anovulatory

Post menopausal bleeding

Cyclic hormone withdrawal bleeding

AUB Work up

- Perimenopausal DUB vs postmenopausal
- Ultrasound
- EMBx
- Hysteroscopy

AUB

Work up- Ultrasound

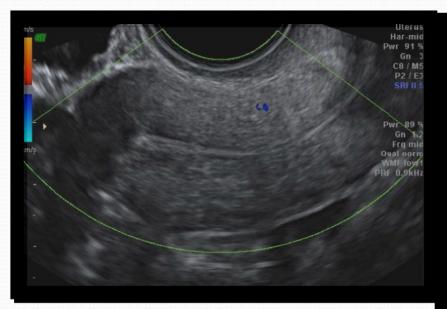
- What's the appropriate thinness for the endometrium to exclude endometrial pathology?
 - Data all based on:
 - Postmenopausal
 - Bleeding
 - Therefore may not be appropriate w/o PMB
 - Discuss "incidental findings" later

AUB

Work up- Ultrasound

- What's the appropriate thinness for the endometrium to exclude endometrial pathology?
- <=5mm?
 - Many studies
- <=4mm?
 - ACOG Committee Opinion 8/09

Endometrium

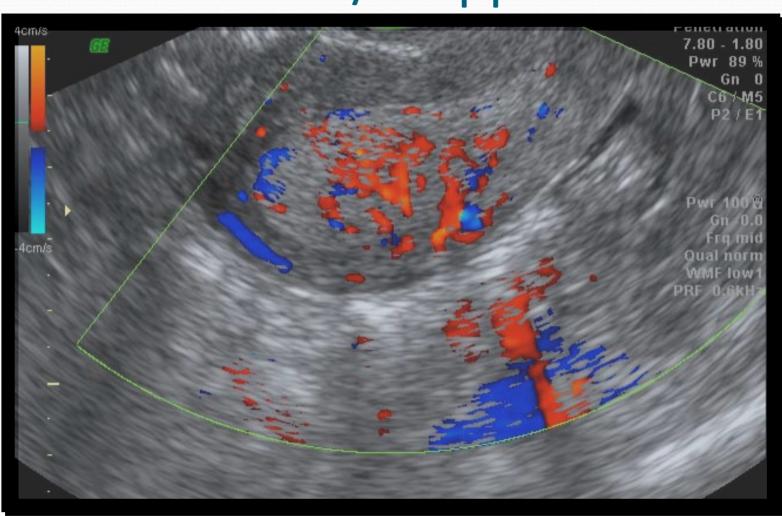








Endometrial Cancer thickened w/ Doppler flow



Polyp (saline infusion sono)





AUB

Work up-- EMBx

- Pipelle samples only 5% of the endometrium
- Pipelle bx may be satisfactory if:
 - Endometrium is fairly thin
 - Endometrium is homogeneous by ultrasound
 - Do the sono first to avoid iatrogenic heterogeneity
- In advance of further work-up
 - Hysteroscopy if negative
 - Hysterectomy with GynOnc if positive
 - (cancel the hysteroscopy)

AUB - Perimenopausal

- Goals
 - Bleeding control
 - Contraception
 - Long or short term
 - Other issues
 - FH ovarian or breast cancer
 - Fibroid related pain
 - Urologic sxs

AUB - Perimenopausal Treatment – short term

- Progestin withdrawal
 - MPA, Megestrol, Norethindrone
- OC withdrawal
- Mirena
- Out patient procedure
 - Hysteroscopy w/ D&C, polypectomy, myomectomy, endometrial ablation. UFE
- Inpatient surgery
 - Hysterectomy, abdominal myomectomy

AUB

Treatment – short term

- Progestin, OC withdrawal
 - MPA 20mg or OC* tid x 7 days followed by MPA 20mg or OC daily x 21 days
 - Most stop bleeding in a few days
 - Expect withdrawal bleeding at end of therapy
- How about next month?

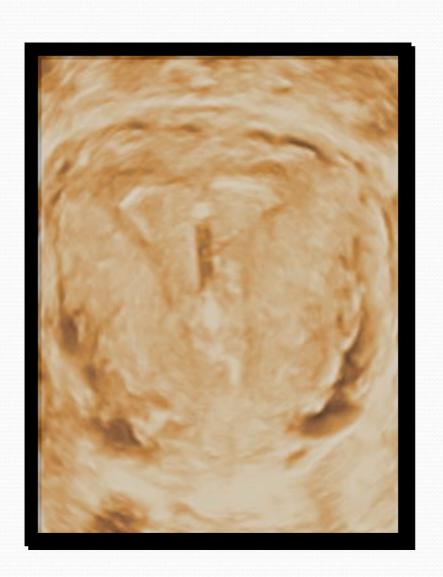
*Norethindrone 1 mg and ethinyl estradiol 35 mg

AUB

Treatment – long term

- Systemic
 - OC
 - Risks: age, smoker, HTN, MI, stroke, VTE, GB, Ca
 - Benefits: BC, Menopausal sxs, PMS, Menstrual HA
 - DMPA
 - Benefits: BC, Menopausal sxs, PMS, Menstrual HA
 - Oral suppressive Progestin
- Local
 - Mirena. Contraception and cycle control only
 - Surgeries already discussed
 - ablation not contraceptive

Mirena



AUB

Treatment – long term

- Medical Eligibility Criteria
 - www.who.int/reproductivehealth
- 1. A condition for which there is no restriction for the use of the contraceptive method.
- 2. A condition where the advantages of using the method generally outweigh the theoretical or proven risks.
- 3. A condition where the theoretical or proven risks usually outweigh the advantages of using the method.
- 4. A condition which represents an unacceptable health risk if the contraceptive method is used.

Incidental Imaging Findings

- "Thick endometrial echo"
 - Endometrial thickness algorithm is based on PMB
 - If she's not PM or bleeding, the findings are incidental and may or may not be meaningful
- Fibroids
- "Ovarian cyst"

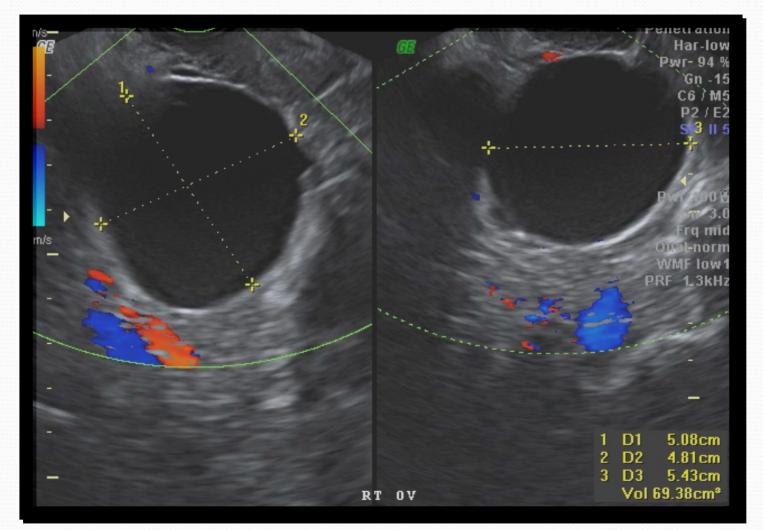
Incidental Imaging Findings Endometrial echo

- Not meaningful
 - Internal fluid with thin walls (<2mm apiece)
- Meaningful
 - Internal fluid with thick endometrium
 - May represent internal bleeding w/ cervical stenosis
- Questionably meaningful
 - Heterogeneous
 - Polyp
 - "thick"

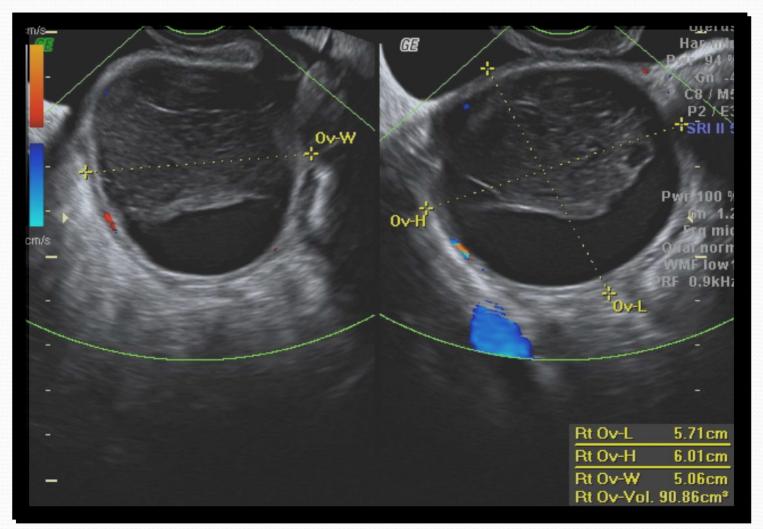
Incidental Imaging Findings

- Ovarian cysts
 - Follicles and corpora lutea are the normal ovarian functional process
 - "Simple" cysts have almost no cancer potential
 - <10cm, thin border, unilocular, anechoic
 - CA125
 - repeat sono 2 months for stability
 - Every thing else is "complex" and deserves referral

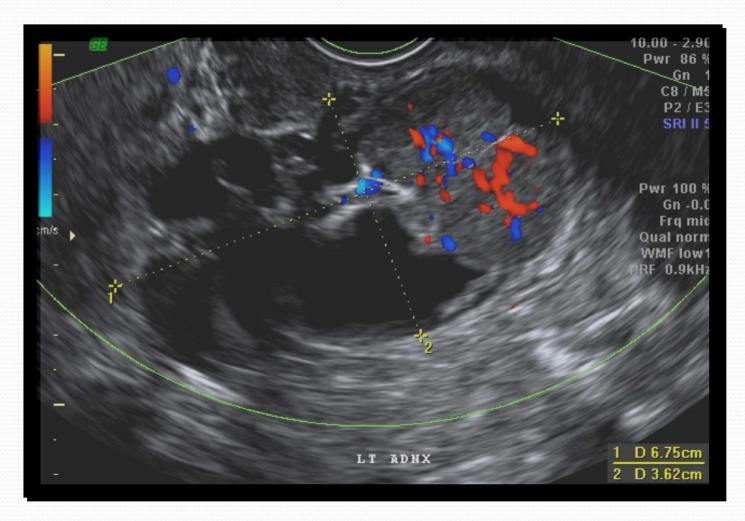
Ovarian cyst - simple



Ovarian cyst – Complex hemorrhagic with retracting clot



Ovarian Cancer



Hormone therapy Nomenclature

- Gone is "HRT" ⊗
- HT, ET, EPT, Vaginal ET, Systemic HT, Progestin
 - Say what you mean
 - Combined, daily E+P
 - Cyclic E+P
 - Estrogen therapy (no uterus)
 - Unopposed estrogen therapy (with uterus)

How many postmenopausal women are using HT?

- 1. >50%
- 2. 25-50%
- **3.** 15-25%
- 4. <15%
- 5. "No one in MY practice"

Barbaglia G, et al. Trends in hormone therapy use before and after publication of the WHI: 10 years of follow-up. Menopause 2009;16:1061-4

Shetty KD, Vogt WB, Bhattacharya J. Hormone replacement therapy and cardiovascular health in the US. Med Care 2009;47:600-6

HT

- #1. Are they hormone related sxs?
 - Vasomotor sxs, urogenital atrophy, sleep, libido
 - Beware of the 6o+ yo w/ new sxs
 - Rheumatoid issues, Carcinoid
- #2. Is she a candidate for HT?
 - Hx Ca, VTE, stroke, MI
- #3. Does she need contraception or bleeding control?
- #4. What hormone, dose, vehicle?

Combined HT single vehicle

- Oral
 - CEE+MPA
 - E2+Norethindrone acetate, drosperinone
 - 17b E2 plus synthetic progestin
 - NEA + EE 1mg/5mcg, 0.5mg/2.5mcg
 - EE 10mcg + NE 1mg now available as OC
- Transdermal
 - E2 + Norethindrone acetate or levonorgestrel
- BIH compounded

Combined HT multi-vehicle

Any combination of oral, transdermal, vaginal

- Estrogen
 - 17b estradiol, CEE, synthetic estrogens, estrone

+PLUS!!!!!

- Progestin
 - OMP 100mg, MPA 2.5mg, Mirena
 - Aygestin is 5mg NE (Activella uses 0.5mg paired with 1mg E2 and 0.1mg paired w/ 0.5mg E2)
 - Minipill is 0.35mg NE

Combined HT multi-vehicle

- Advantage:
 - mix and match different types, vehicles, doses
- Disadvantage:
 - Cost, confusion, selective use

HT

- For symptom control or osteoporosis
- Lowest dose estrogen, shortest time, corresponding progestin to prevent endometrial hyperplasia
- Timing of initiation
- Continue long term?

ΗT

- OMP side effect is sleepiness
- Transdermals don't increase VTE risk
- Local (vaginal) therapy for local problem
- None of the major medical societies suggests a difference between the synthetic and bio identical hormones

Bio Identical Hormones

- Which hormones are "Bio Identical"
 - 1. Generic oral estradiol (Brand name Estrace)
 - 2. Oral Micronized Progesterone ("Prometrium")
 - 3. Brand /generic transdermal or vaginal estrogens
 - 4. Hormones from a Compounding Pharmacy
 - 5. All of the above

"Bio Identical Hormones"

- Same as those produced in humans
- If your patient is on Estrace, any transdermal or ring and Prometrium
 - She's already on BIH thru her local pharmacy and prescription plan. There is no difference between the FDA approved bio identical hormones and those from a compounding pharmacy
- Advantage of a Compounding Pharmacy:
 - Manipulate the dose outside what's available otherwise
 - Personalize the vehicle
 - Add testosterone (not FDA approved)
- SAME INDICATIONS, CONTRAINDICATIONS!

"Bio Identical Hormones"

- Compounding Pharmacy disadvantages:
 - Not FDA regulated
 - Not standardized FOR you
 - Easy to underdose the progesterone as the estrogen is manipulated for symptom control
 - Hormone levels are of minimal value w/ standard doses
 - Cost
 - Absorption swings may precipitate the very sxs you are trying to treat
 - Absorption may not be effective (transdermal P)

HT

• The perfect SERM?

Review

- Menopause defined as 12 months of amenorrhea
- AUB work up includes ultrasound and EMBx
- AUB treatment includes both short and long term goals
- Incidental findings on sonogram may not be meaningful
- Hormone therapy endless variety needs personalization
- Bio-identical hormones are available through regular and compounding pharmacies

Glossary Estrogens

- CEE: (conjugated equine estrogens) Premarin
- CEE/MPA: Prempro (continuous), Premphase (sequential)
- Estradiol, 17b: "E2". Estrace, generic oral estradiol, all patches, creams, sprays, Femring, Vagifem, Estrace cream, BIH. 1 mg equiv to 0.05mg patch, 5mcg EE, Premarin 0.625mg. Now in an OC.
- Estrogens, synthetic: Cenestin (conjugated, A),
 Menest (esterified), Enjuvia (conjugated B)
- Ethinyl estradiol: "EE". In FemHRT (2.5, 5mg), OCs (10,20,25,30,35,50mg) and Nuvaring 15mg

Glossary Progestins

- Drosperinone: 4th gen OC progestin (Yasmin, Yaz 3mg) and in Angeliq o.5mg
- Levonorgestrel: 2nd gen OC progestin using 1mg w/ 2omcg EE. Used in ClimaraPro w/ E2
- Medroxyprogesterone acetate: MPA, Provera, Depoprovera
- Megestrol: Megace
- Mirena: levonorgestrel containing IUD
- Norethindrone/Norethindrone acetate: "NE/NEA". 1st generation progestin for OCs using 1, 0.5, 0.4mg. Aygestin is 5mg, minipills are 0.35mg. Activella contains 0.5 (w/ 1mg E2) or 0.1mg (w/ 0.5mg E2). Combipatch w/ E2.
- Progesterone: Prometrium (oral micronized progesterone), BIH
- Progestin: all synthetic progesterones

Useful References

- Estrogen and progestogen use in postmenopausal women: 2010 position statement of the North American Menopause Society. Menopause 2010;17:242-55
- Santen RJ, et al. 2010, Postmenopausal Hormone Therapy: An Endocrine Society Scientific Statement. The Journal of Clinical Endocrinology & Metabolism 95, Supplement 1: S1-S66
- Shifren JL, Schiff I. Role of Hormone Therapy in the Management of Menopause. OG 2010;115:839-55
- Munro, MG, et al, Oral Medroxyprogesterone Acetate and Combination Oral Contraceptives for Acute Uterine Bleeding; A Randomized Controlled Trial. Obstet Gyn 2006;108:924-9
- NAMS: www.Menopause.org
- ACOG: www.ACOG.org