Risk Assessment and Screening in the Perimenopause

Rod Baber







Perimenopause

The phase of a woman's life which starts with *menstrual irregularities* and which concludes one year after the final menstrual period.

- STRAW phase -2 until STRAW phase+1a
- Median duration 4-6 years but can be > 10 years
- Ovaries are running out of follicles, Hormohelproduction irregular.
- Women may experience 'henopausal' symptoms.
- Anovulatory cycles are common
- Menses are irregular, oft in heavy and prolonged
- Symptoms and abnormation edical consultation.





The midlife health check

Don't

- Check FSH, LH, E2, T or P in a woman at the normal age of menopause
- Blood test results will not influence management decisions

Do

- Take a good history; consider a menopause symptom score card
- Consider other causes for symptoms
- Take a menstrual history
- Record personal and family history of relevant medical conditions.
- Discuss general health and contraception
- This an excellent opportunity to reinforce key preventative health messages





Medical History

Relevant Gynecological facts

- LMP and bleeding pattern
- Hysterectomy /oophorectomy
- Current use of Hormone therapy
- Contraceptive needs

Major Medical illnesses

- •VTE / PE
- •Breast / endometrial cancer
- Thyroid disease
- Cardiovascular disease
- Osteoporosis
- Diabetes
- Depression
- Liver or Renal disease
- Smoking / alcohol use
- Medication

Significant Family History

- Cardiovascular
- Osteoporosis / fracture
- Cancer
- Dementia

Social history

What do you need to know?

Examination

- Height
- Weight
- Blood Pressure
- Cardiovascular
- Respiratory
- Pelvic examination
- Cervical smear
- Breast check
- •Thyroid assessment

Investigations

- •FSH, LH rarely needed and useless in women on hormonal contraception
- •Progest. / AMH no value

Mid Life Assessment

- Cervical Screening
- •Mammogram
- •Lipids
- Fasting BSL
- •TSH
- •FBC / ferritin
- Renal function
- Liver function
- Fecal occult blood test
- Vitamin D
- Bone density

A Practitioner's tool kit. Jane F M and Davis S R Clim, acteric 2014;17:1-16



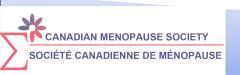


Perimenopause – key issues:

- Diagnosis:
- based on history, bleeding pattern, exclusion of other diseases

Management Goals:

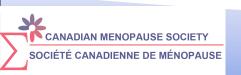
- Perimenopause Symptom management:
- 20% will have severe symptoms
- Contraception: 1-2 years depending on age at LMP.
- Screening for diseases of ageing
- Advice on healthy lifestyle issues
- Management of abnormal bleeding





Screening for Cervical Cancer

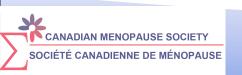
- Cancer of Cervix is > 10x higher incidence in the developing world.
- Has she ever had a smear? If so when?
- Has she ever had an atypical smear
- Has she received HPV Vaccination
- See and Treat First line treatment in many high burden settings
- Visual Inspection with Acetic Acid (VIA) / Lugols Iodine (VILI)
- Pap Smear
- Cervical Screening test (High Risk HPV DNA serotyping / Cytology)
- GOAL: Cheap global vaccination programmes





Screening for Colorectal Cancer

- CRC is the third most common cancer in western countries
- Incidence rises in midlife
- History will give clues about risk: Sedentary life style, smoking, alcohol consumption, low fibre diets, high levels of red and processed meats
- Change in bowel habit
- PR Bleeding
- Family History: If positive these women require closer monitoring.
- Prophylaxis: Life style modification, low dose aspirin, alter microbiome
- **Screening**: immunochemical fecal occult blood testing (2 years) sigmoidoscopy, colonoscopy, CT tests, fecal DNA testing...





Screening for Breast Cancer

- Breast Cancer incidence rises in perimenopausal years
- Mortality has substantially reduced in the past 20 years but whether due to screening or better treatments remains unclear.
- History: Has she had a mammogram or breast ultrasound? When?
- Has she detected breast lumps
- Has she had breast biopsies
- Is there a family history
- Discuss: Breast Self examination, Clinical Breast examination, Mammogram
 - particularly if you are going to initiate hormone Rx
- Screening programmes if available





Screening for Osteoporosis

- Osteoporosis and related fractures are common in women after midlife.
- Fractures have significant morbidity, mortality, cost and reduce QOL.
- Fracture risk can be reduced by identifying and treating risk factors
- Low BMI, smoking, glucocorticoid use, Cushings, Rh Arthritis, malnutrition malabsorption, sedentary life style, diabetes, HyperPTH, Low Vit D, HIV
- Family History is important
- On line fracture risk calculators eg FRAX can help predict risk
- Radiological Investigations
- Conventional X Ray, DEXA, QCT ..





Fracture risk assessment

Home	Calculation Tool	▼ Paper Charts	FAQ	References	English
-	Stions below to calculate t	he ten year probability of	fracture with BMD.		
Questionnair Questionnair 1. Age (between 40 and 90 Age: Date of Y: 2. Sex	e: D years) or Date of Birth	10. Secondary osteoporosis 11. Alcohol 3 or more units/ 12. Femoral neck BMD (g/cr	⊘No ⊜Y 'day •No ⊝Y m²)	es	Weight Conversion Pounds ▶ kg Convert
3. Weight (kg) 4. Height (cm) 5. Previous Fracture 6. Parent Fractured Hip 7. Current Smoking 8. Glucocorticoids 9. Rheumatoid arthritis	No YesNo YesNo YesNo YesNo Yes	Clear	Calculate		Height Conversion Inches cm Convert



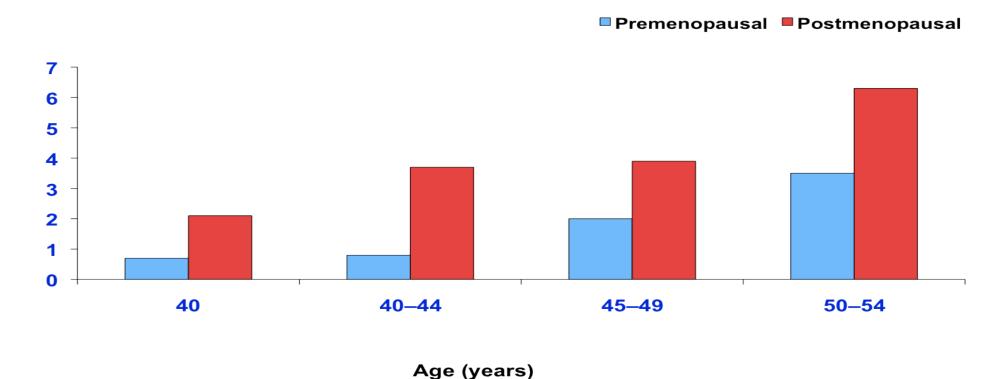
International IMS
Menopause Society
Promoting education and research on middlife women's health

www.sheffield.ac.uk/FRAX

The risk of heart disease is linked to age at menopause



CVD incidence per 1000 women



Adapted from the Framingham Study, DHEW No 74, 1974

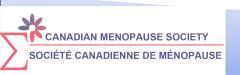




Screening for metabolic disease

- History: Personal and Family
- Examination: Full physical, BP, height, weight, BMI, eyes...
- Blood tests: Blood Lipids, Sugars, Electrolytes, LFT, FBC, Iron, TSH
- Urinanalysis
- Advice: Diet and lifestyle measures alone may reduce CHD risk by 10-15%
- Exercise, normalization of BMI, cease smoking, healthy lifestyle
- Management of hypertension may reduce CHD risk by 20-25%

Lichtenstein A et al Circulation 2006;114:82-96 Maruthur N et al Circulation 2009;119:2026-31 Ridker P N Eng J Med 2005;352:1293-304 Lobo R et al Climacteric 2014;17:540-556

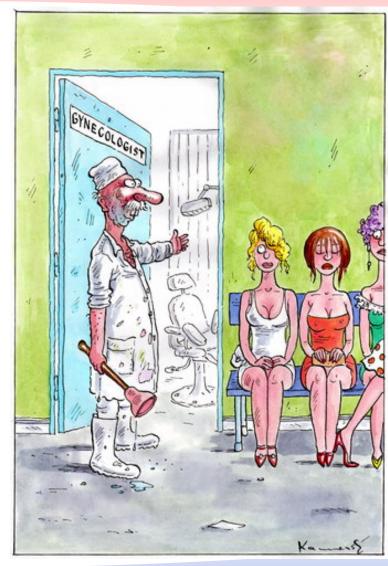




Gynecological matters



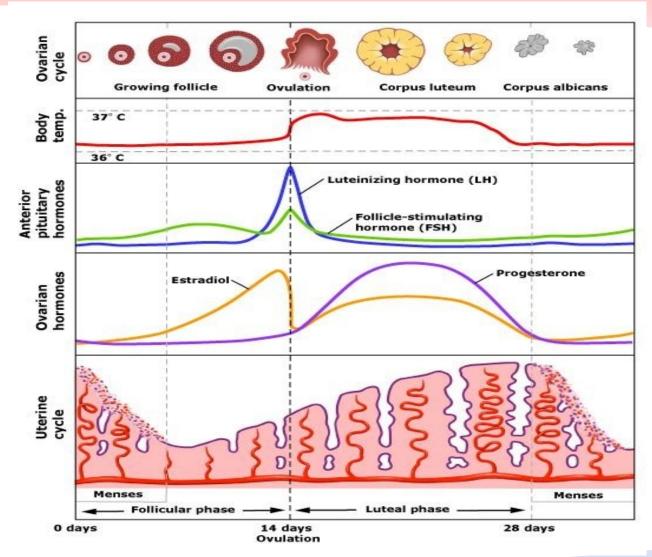
"Shall we begin?"





Hormones and menstrual Bleeding

- Estrogen causes endometrial proliferation
- Progesterone induces secretory change in estrogen stimulated endometrium
- Unopposed estrogen
 (eg with anovulation)
 causes hyperplasia, atypia
 complex atypia, cancer







Etiology of abnormal bleeding

Abnormal menstrual pattern may be attributed to structural and functional causes

FIGO PALM - COEIN Classification

Structural

- Polyp
- Adenomyosis
- •Leiomyoma
- Malignancy and hyperplasia

Functional

- Coagulopathy
- Ovulatiory dysfunction
- Endometrial
- latrogenic
- Not identified
- The etiology of Dysfunctional AUB is presumed to be hormonal imbalance, tends to be diagnosis by exclusion

CANADIAN MENOPAUSE SOCIETY
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