14th Annual Conference of the National HIV Nurses Association (NHIVNA)



Breda Patterson

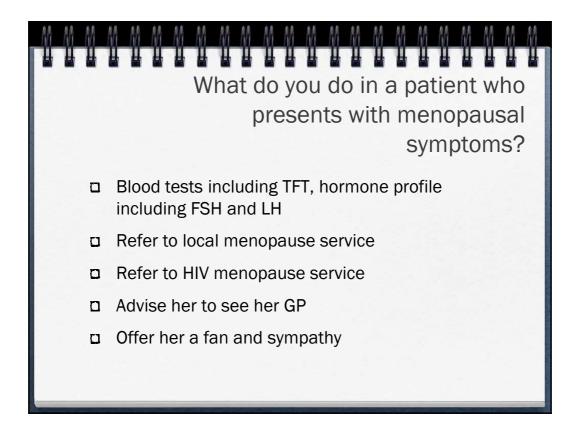
Chelsea and Westminster Hospital, London

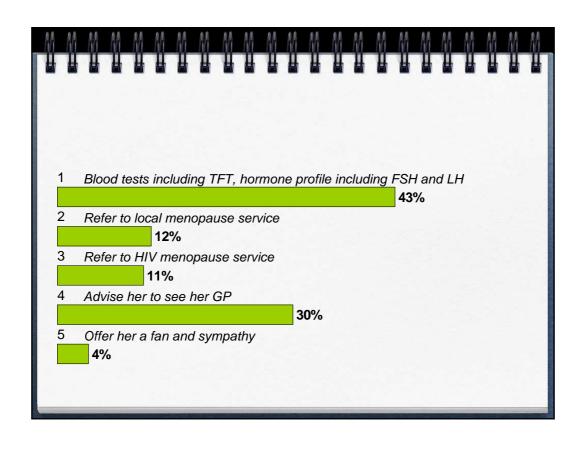
14-15 June 2012, Manchester Conference Centre

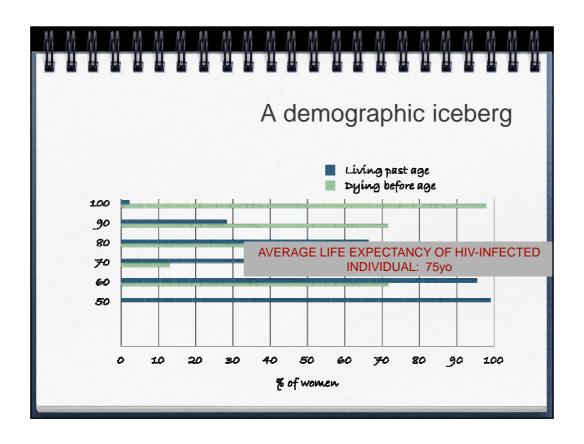
HIV AND THE MENOPAUSE

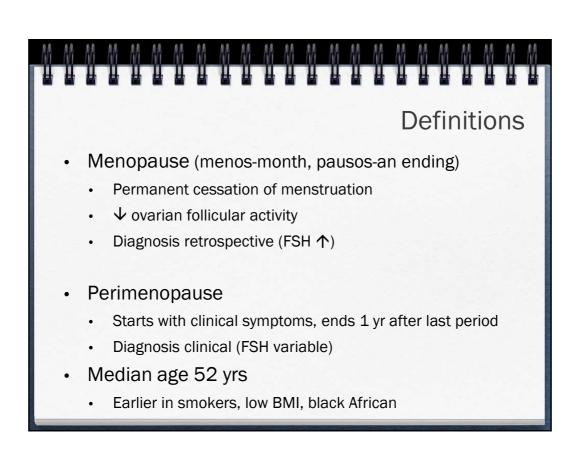


Breda Patterson
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FOUNDATION TRUST











Definitions

- Premature ovarian failure
 - Menopause > 2 SD from mean for reference population:
 - Cut-off < 45 years
 - Untreated: ↑ osteoporosis, cardiovascular disease, all cause mortality



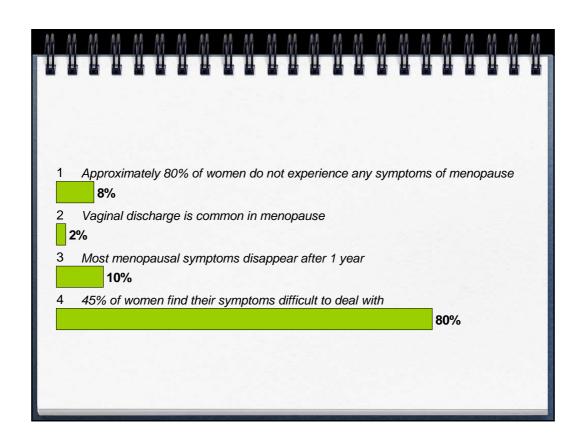
Physiology of perimenopause

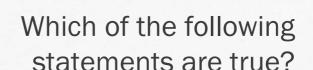
- Fewer follicles mature in ovary
- ↑ FSH from ant pituitary (>30) through -ve feedback
- Oestrogen deficiency symptoms
- Low Oestrogen \rightarrow no endometrial proliferation
- Amenorrhoea



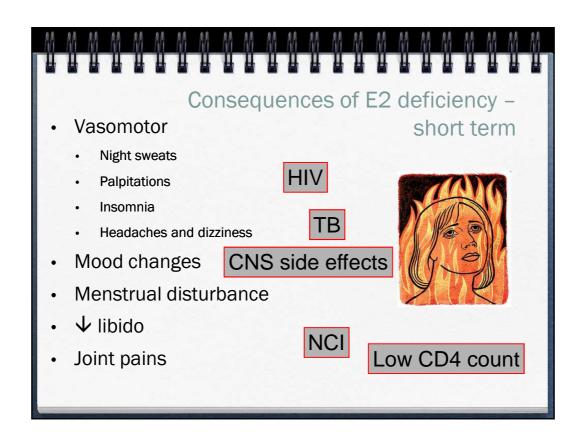
Which of the following statements are true?

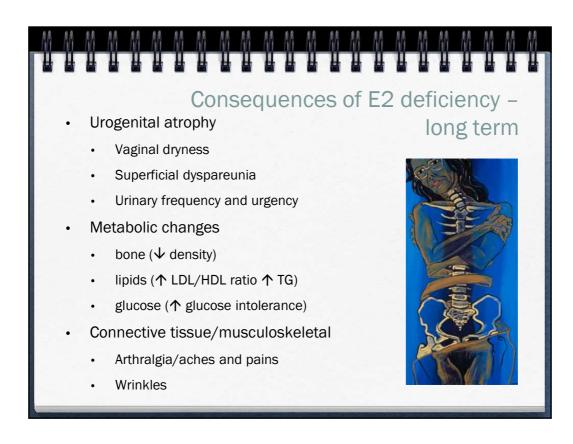
- Approximately 80% of women do not experience any symptoms of menopause
- · Vaginal discharge is common in menopause
- Most menopausal symptoms disappear after 1 year
- 45% of women find their symptoms difficult to deal with

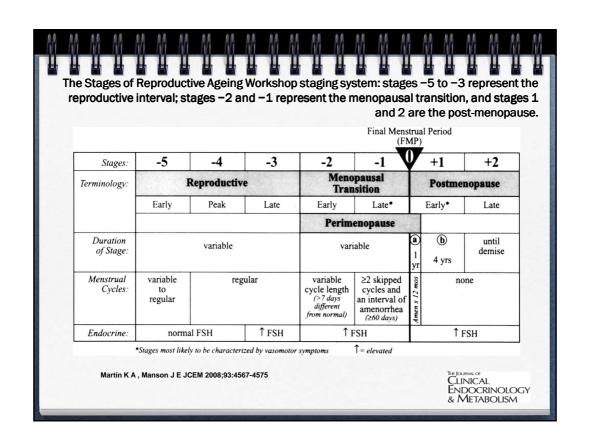


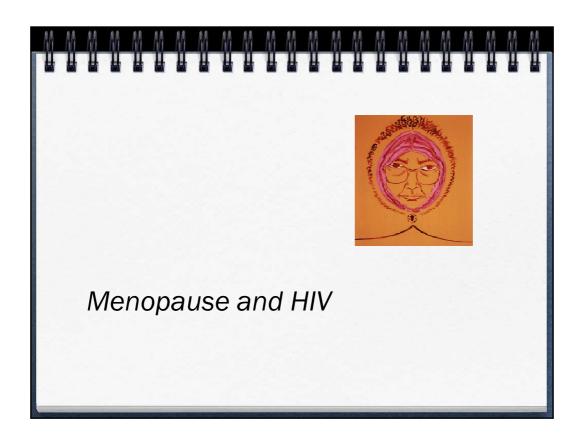


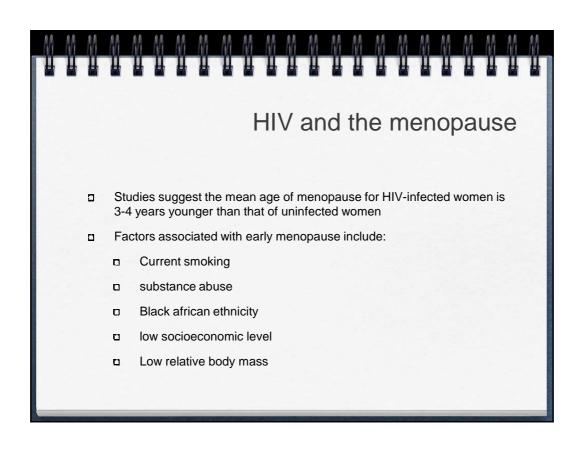
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Impact of HIV on age at menopause: MS Study

- · Prospective study of 571 women
- · HIV infection independently related to earlier onset of menopause
- In addition, greater immunosuppression, low physical activity level and recent drug use independently related to earlier menopause
- · Other studies have not substantiated those findings but...
 - Early menopause is associated with current smoking, drug use, African-American ethnicity and lower educational levels
 - · All common among HIV-infected women

Schoenbaum E et al. CID 2005; 41:1517-24

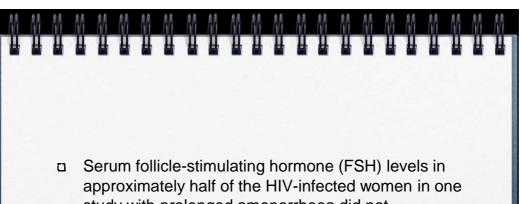


HIV not associated with earlier age at menopause

- o 1335 women < 55 yrs (1063 HIV pos, 272 HIV neg)
- Median age at menopause 48 years for both.

Cejtin HE et al Obstet Gynaecol 2006

menopause?



Serum follicle-stimulating hormone (FSH) levels in approximately half of the HIV-infected women in one study with prolonged amenorrhoea did not necessarily indicate menopausal status, and HIV-infected women were more than 3 times more likely than non-HIV-infected women to have prolonged amenorrhoea without ovarian failure (Women's Interagency HIV study)

Additional considerations for HIV-

Postmenopausal women should continue to undergo routine health screening which can include:

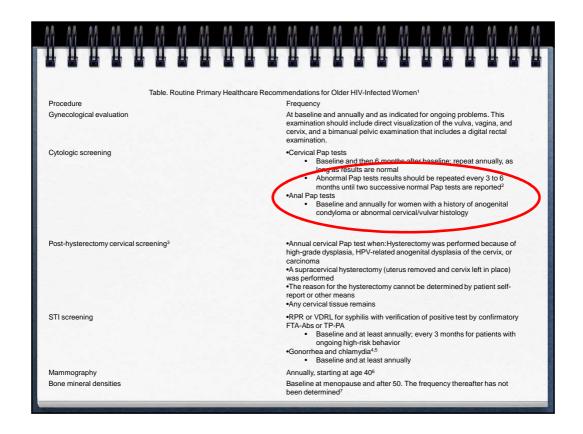
- Annual Pap smears
- Sexually transmitted infection screening
 - Syphilis
 - · Gonorrhoea/chlamydia
- · Breast cancer screening
- Colon cancer screening

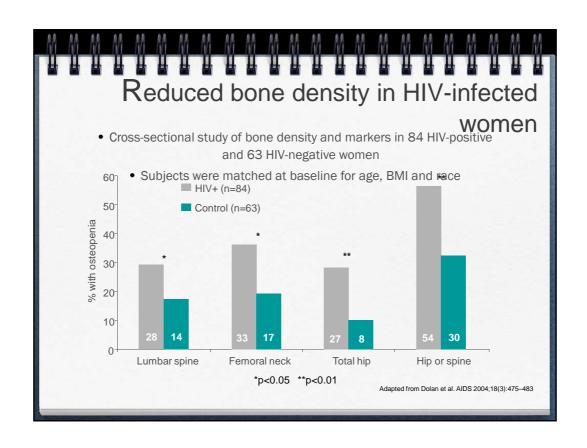
Osteoporosis screening and prevention

infected postmenopausal women

- Women should be encouraged to perform regular weight-bearing exercises
- 1000–1500 mg/day of calcium with vitamin D 400 IU/day
- Annual dual energy x-ray absorptiometry (DEXA) screening
- · Cardiovascular risk screening
- Depression screening

Kojic et al. J Womens Health (Larchmt). 2007;16:1402-11.







Reduced bone density in HIVinfected women (cont.)

- In a multivariate regression analysis controlling for age, BMI, menstrual function and race
 - HIV-infected subjects were 2.5 (95% CI 1.1–5.8, p=0.03) times more likely to demonstrate osteopenia compared to the healthy control subjects
 - No relationship with PI, NRTI or NNRTI use

Dolan et al. AIDS 2004;18(3):475-483



HIV and cardiovascular risk

Glucose and lipid metabolism

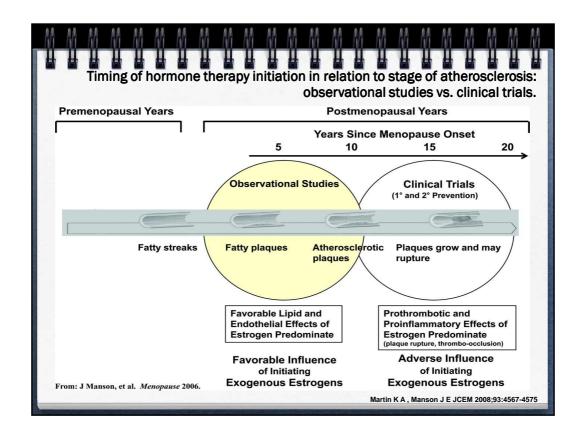
- Most studies of lipodystrophy and metabolic syndrome in men
- Metabolic syndrome, impaired GTT, ↑ LDL/HDL ratio more common in HIV+ women compared with HIV- controls

Rexrode KM JAMA 1998; Sobieszczyk ME JAIDS 2008 CVD outcomes

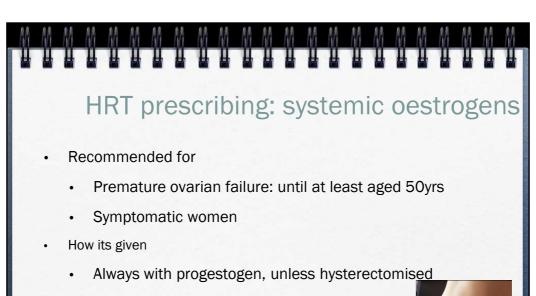
- Acute MI ↑ in HIV+, esp with PIs
 - o Relative risk higher for women

Trian VA. J Clin Endocrinol Metab 2007; Klein D Circulation 2008

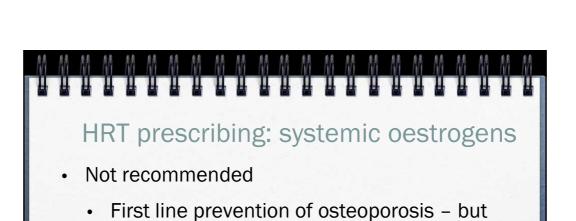
- Oestrogen deficiency associated with increased CVD risk
- Likely to exacerbate HIV-associated cardiovascular risk







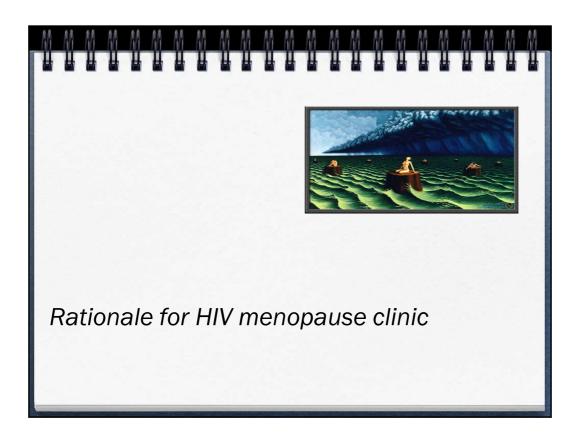
- Transdermal preparations
- Lowest effective dose, no absolute time limit
- Regular review of risks/benefit

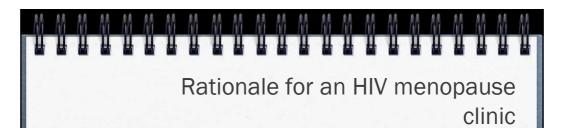


Primary prevention of heart disease but

will prevent osteoporosis in those taking it

evidence of benefit <60 yrs





- Possible increased risk of early menopause
- HIV + women less likely to recognise menopause symptoms
- Clinical/laboratory diagnosis of menopause difficult
- Menopause exacerbates metabolic complications of HIV
- \rightarrow HIV+ should not be denied HRT if symptomatic
- → Will treatment with HRT have a beneficial effect on metabolic complications of HIV?

