

Management of Menopausal Symptoms

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Menopausal Symptoms After a Diagnosis of Breast Cancer

- Prevalence E2 deficiency symptoms after breast cancer +/- 80-95%
- More common if < 50 yrs

Management of menopausal symptoms is crucial:

- Affects of QOL
- Adherence +/- 40% women do not adhere to ETx
 - Adherence < 80% planned dose reduces TTR by 50%

- Hot Flashes
- Urogenital Symptoms
- Sexual Dysfunction
- Musculoskeletal Symptoms
- Cognitive Impairment
- Fatigue
- Weight Gain
- Depression and anxiety



What are the risks of HRT after a Breast Cancer Diagnosis?

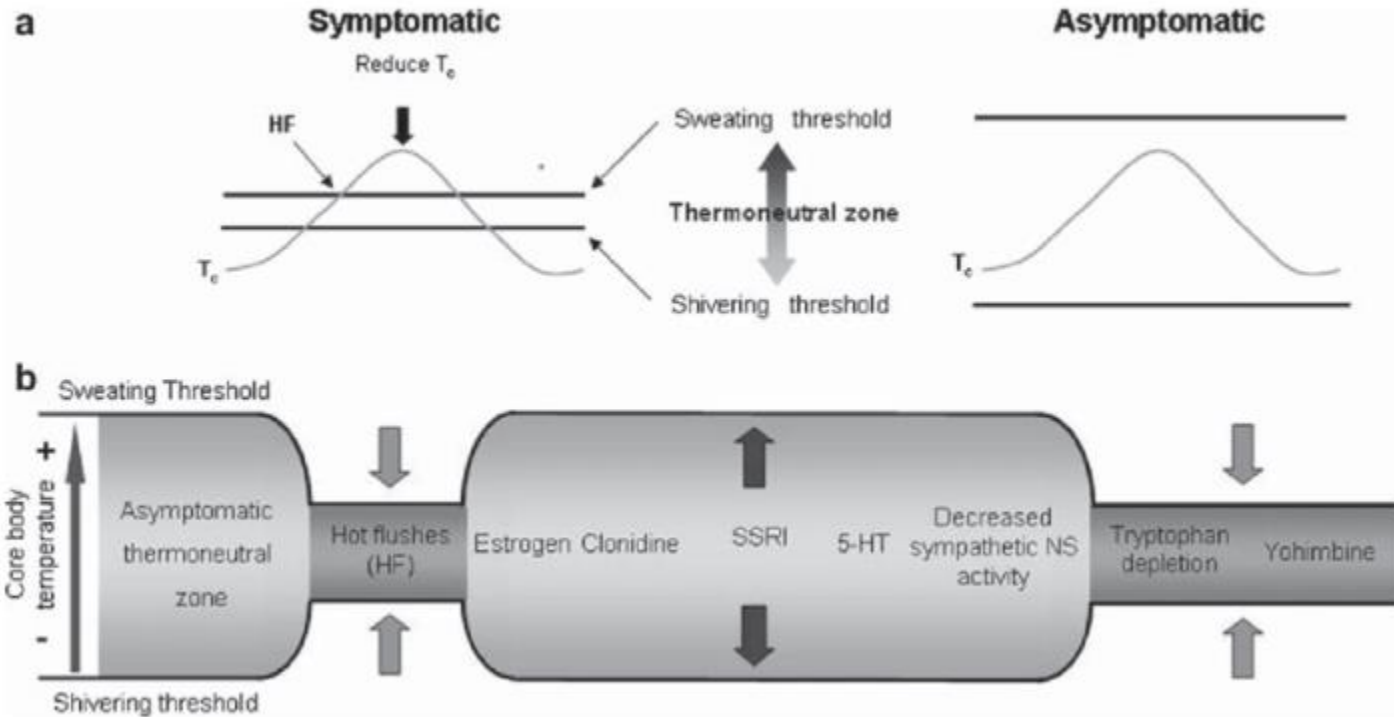
	HABITS	STOCKHOLM	LIBERATE
n	442 (898)	378 (884)	3148
HRT	Estradiol +/- norethisterone	Estradiol +/- medroxyprogesterone acetate	Tibolone
ETx allowed	Tamoxifen	Tamoxifen	Tamoxifen or AI
HR	2.4	HR 0.82	HR 1.4

Most guidelines state HRT contraindicated after breast cancer



Vasomotor Symptoms (VMS)

Why Do Women Get Hot Flushes?



VMS: Self Help and What to Avoid

Lifestyle Changes

- Cooling techniques
 - eg layers, natural fibres
- Avoid triggers eg alcohol, spicy foods
- Weight Loss
- Exercise

Agents with no proven activity against Hot Flushes

- Vitamin E – no benefit v placebo
- Evening primrose oil- most trials no better than placebo
- Magnets

Phytoestrogens

- Black Cohosh
- Red Clover
- Soy

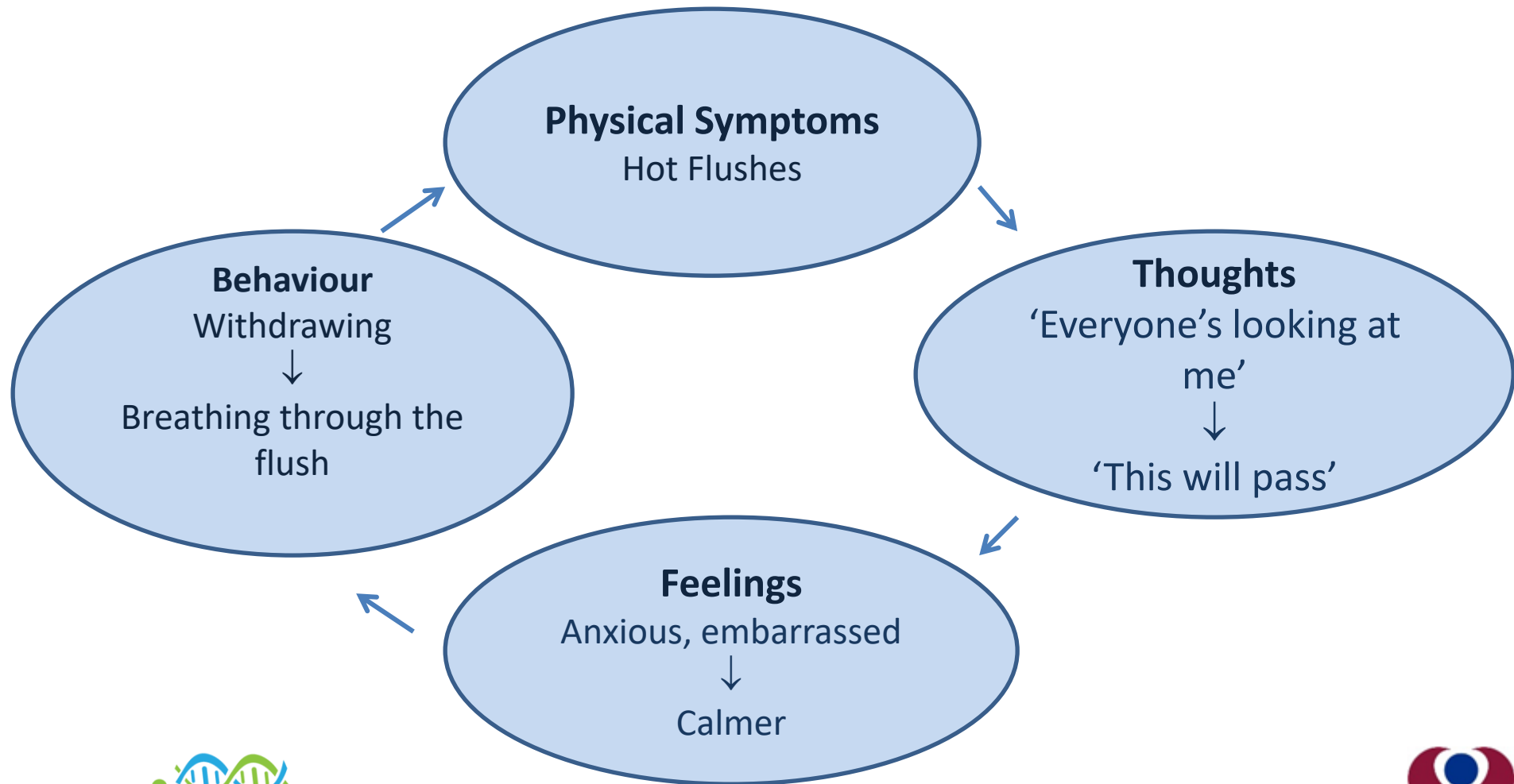


Interventions for VMS

Data Interpretation complicated by:

- Differences in study populations
- Variation in outcome measures
 - Frequency (objectively and subjectively)
 - Frequency x severity scores
- Lack of head to head comparisons
- Underpowered trials
- Short term –often 12 weeks

Cognitive Behavioural Therapy for VMS



Cognitive Behavioural Therapy for VMS: MENOS1 Trial

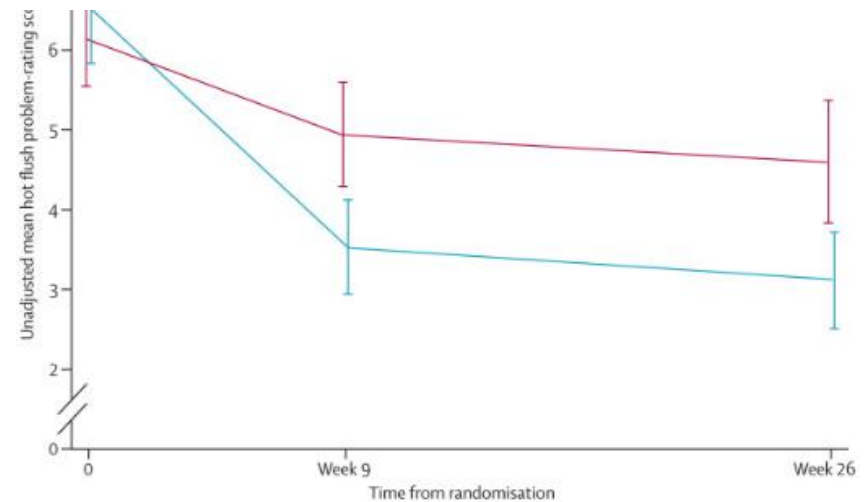
RCT (n=96) ♀ w Breast Cancer

Group CBT 90min/wk for 6wks

v
usual care

Results

- CBT ↓ HFNS problem rating $p < 0.0001$
- Benefits:
 - maintained at 6/12
 - also seen in mood and sleep
- ↓ frequency of HF ~38% across both groups
- Recommended by North American Menopause Society



Acupuncture for VMS

- Cochrane review 2013
 - Acupuncture better than no intervention ↓ severity / frequency HF
 - Better than sham at ↓ severity but not frequency HF
- 2 RCT in ♀ with breast cancer
 - Acupuncture vs venlafaxine / acupuncture vs gabapentin
 - both ↓ HF frequency and severity
 - More sustained response to acupuncture in both studies
 - Less adverse events with acupuncture
- Royal Marsden audit – 80% get ↓ 50% HF with self needling approaches allowing therapy for up to 6 years



Pharmacological Interventions for VMS (1)

Selective Serotonin Reuptake Inhibitors (SSRIs) & Serotonin-norepinephrine reuptake inhibitors (SNRIs)

- RCT demonstrate efficacy of SSRIs (eg paroxetine, citalopram) and SNRIs (eg venlafaxine) across breast / non breast cancer

Efficacy

- Overall 70-80% reduction in hot flash number and severity
 - Placebo effect of +/- 30%
- Symptom improvements occur 1-2/52

Dose Response

- Citalopram- efficacy and s/e = 10/20/30mg
- Paroxetine – 10mg=20mg; more AEs with 20mg
- Venlafaxine 150mg = 75mg > 25mg; more AEs with 150mg
- Start drugs at lower dose

Fluoxetine and Paroxetine should be avoided on Tamoxifen



Pharmacological Interventions for VMS (2): Oxybutynin for hot flushes in women unable to have hormone therapy

RCT (n=150)

Inclusion Criteria

- 28 hot flushes /week for >1/12; 62% AI or tamoxifen
- Placebo v Oxy2.5mg bd v Oxy5mg bd for 6/52

Results

- ↓Hot flush frequency: 2.6 v 4.8 v 7.5
- HFS -5.1 v -10 v -16.2

RCT against venlafaxine, for a longer duration funded

Side effects : dry mouth, may cause cognitive issues in elderly



Pharmacological Interventions for VMS Gabapentin and Pregabalin

- Gabapentin / pregabalin- licence for epilepsy / neuropathic pain
- **RCT (n=371)**
 - Placebo v Gabapentin 100mg tds v 300 mg tds
 - 300mg tds ↓ HF more effective than placebo (15% vs 31% vs 46%)
- **RCT (n=163)**
 - Placebo v Pregabalin 75 mg bd vs 150 mg bd
 - Both doses ↓ HF: 75mg more tolerable (50% vs 65% vs 71%)

Side Effects: somnolence, fatigue



Pharmacological Interventions for VMS: Clonidine

- Clonidine: α -2 adrenergic agonist anti-hypertensive
- UK licence for non-hormonal management HF

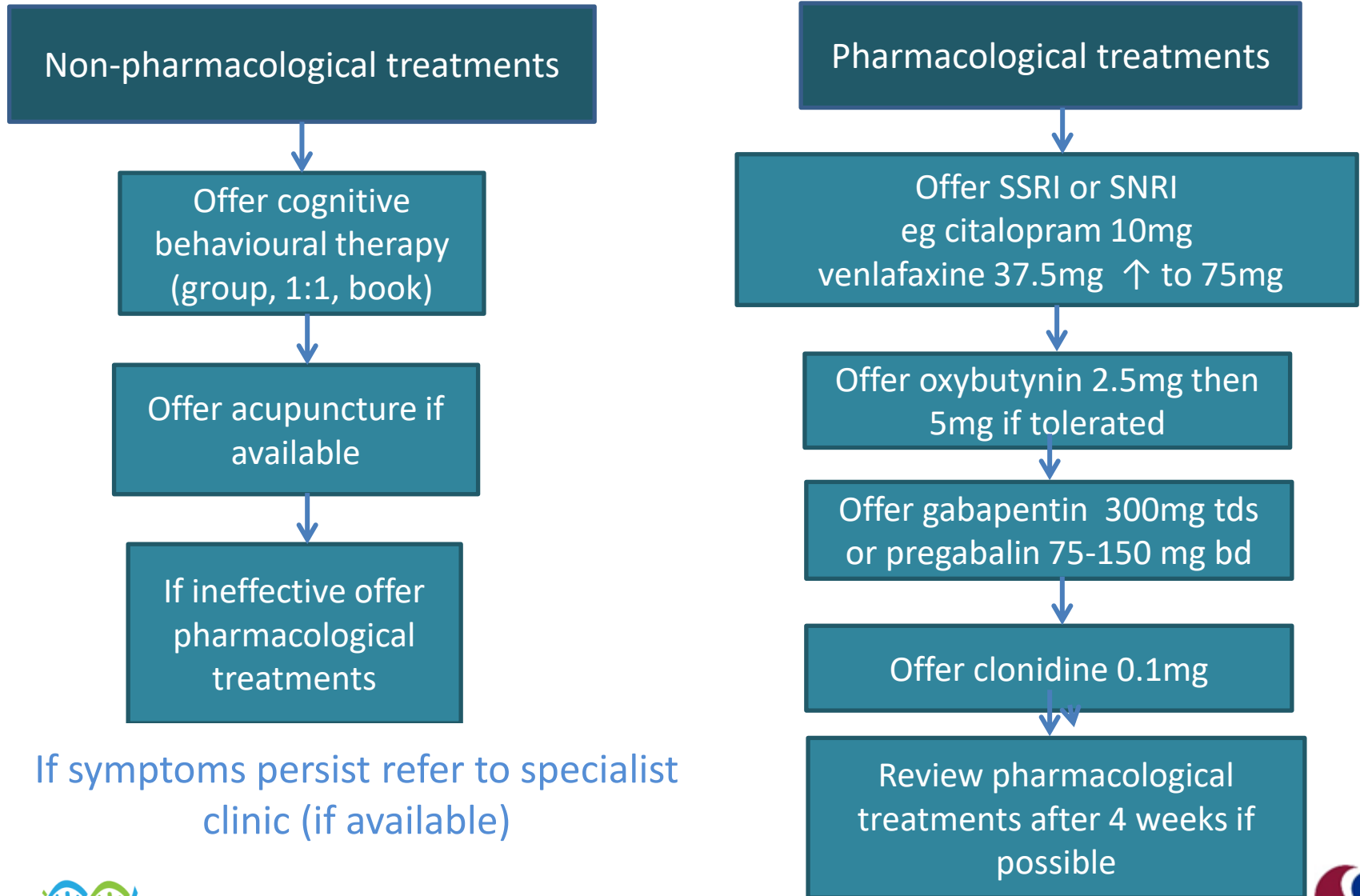
3 RCTs:

- Venlafaxine 75mg vs clonidine 0.1/0.15mg po
- 1 study (n=80) venlafaxine more effective; 2 other equivalent
- Time to onset of HF reduction faster with venlafaxine
- 1 study – AES to venlafaxine commonest reason to stop

Side effects Clonidine: hypotension, dry mouth, fatigue
Venlafaxine: anorexia, nausea, constipation, reduced libido



Management of VMS



Genitourinary syndrome of the menopause (GSM)

- Common (?70% ♀ on ETx) and likely under-reported
- ↓E2 → thinning of urogenital tissues
- Variety of symptoms including:
 - Dryness /burning/ itching
 - Urinary frequency / recurrent UTIs
 - Pain and discomfort during sex
- Scoring systems are poor, often focusing on sexual activity
- Profound E2 deprivation caused by AI worsens GSM



Management of GSM

- Smoking Cessation
- Avoid fragrances soaps, feminine hygiene products
- Pelvic floor exercises
- Maintain sexual actively if possible
- Vaginal lubricants
 - Short term lubrication only
 - Eg Sylk, Yes
- Vaginal Moisturisers
 - Used long term to deliver moisture and maintain physiological vaginal pH
 - Effects last +/- 72hrs; may take 30 days to notice improvement
 - Eg Hyalofemme, Replens

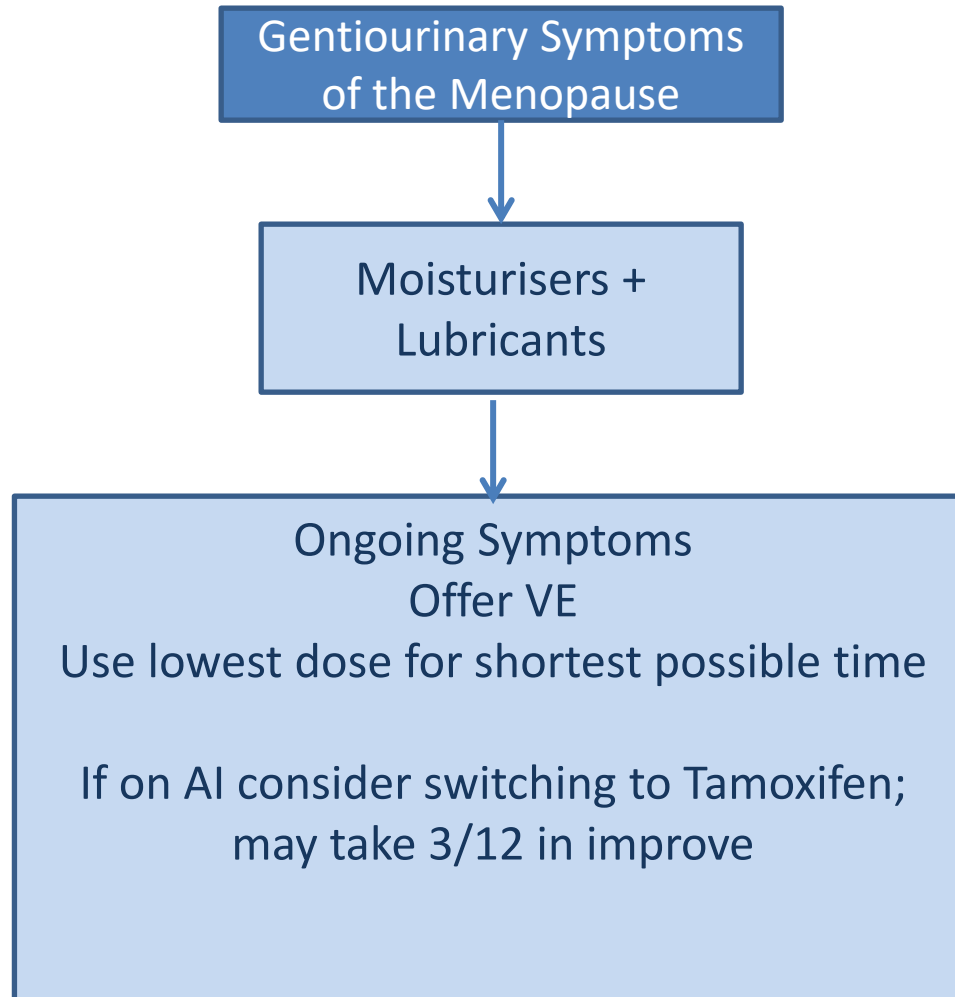


Are Vaginal Estrogen (VE) Safe After Breast Cancer?

- Vaginal moisturisers relieve symptoms but do not reverse atrophy
 - VE is superior to Replens or placebo in ♀ w GSM
 - Replens is not superior to placebo in breast cancer survivors
- Vaginal estrogen most effective intervention for GSM
- In ♀ +/- Ca Breast - systemic absorption seen w (higher doses) VE
- For women on AIs small rises may impact on AI efficacy
- Retrospective do not appear to show increased recurrence risk with VE
- Small, short term studies (+/- 12 weeks) in women on AIs suggest minimal absorption with low dose preparations eg:
 - Vagifem 10mcg (estradiol)
 - Estriol 0.005% vaginal gel



Management of Genitourinary Symptoms of the Menopause



Aromatase Inhibitor Induced Arthralgia

- Arthralgia – more frequent after the menopause
- More common after chemotherapy < tamoxifen < Ais
- Reported in 50-80% women taking AI
- Aetiology of AI associated arthralgia uncertain, E2 deprivation +/- activation of inflammatory pathways
- Develops soon after commencing treatment and may persist for duration of treatment
- Generally improves after 2 weeks discontinuation



Management of Aromatase-Inhibitor Associated Arthralgia: Effect of a Switch of AI

Methods

- 179 women ER+ EBC with severe musculoskeletal symptoms on anastrozole planning to stop treatment
- After 1/12 washout Rx 6/12 letrozole

Results

- 71% tolerated ongoing letrozole
- Fewer women had joint AEs after the switch

Switching from one AI to another (next step Tamoxifen)
may improve arthralgia



Systematic Review of Management Strategies for Aromatase Inhibitor Induced Arthralgia

- 21 studies, 12 interventions: major methodological limitations

Vitamin D

- Trials in favour but high risk of bias; 1 RCT- improvement in pain not function

Yoga / Exercise

- Studies in favour but small, inadequate controls; instructor style may influence outcomes

Acupuncture

- Mix positive/ negative outcomes across trials; Issues with sham acupuncture as placebo

Duloxetine

- Efficacy in uncontrolled trial, n=29



Conclusions

- Menopausal symptoms are common after treatment for breast cancer
- Symptoms affect QOL to an extent that curative treatments can be discontinued prematurely
- Pharmacological / non-pharmacological approaches may improve patients symptoms
- A need remains for better access to support strategies as well as new interventions to manage these symptoms

