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Cooling the flames: Non-Drug Strategies for managing hot flashes and night sweats in menopausal Women

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Abstract

Hot flashes and night sweats—collectively referred to as vasomotor symptoms (VMS) affect a large proportion of women during the menopausal transition and post-menopause, often degrading quality of life, sleep, mood, and productivity. While hormone therapy remains the most effective treatment, many women either cannot or prefer not to use hormonal options. This article reviews evidence-based non-pharmacological strategies for managing hot flashes and night sweats, including lifestyle and behavioural modifications, mind-body interventions, dietary and botanical approaches, and environmental/behavioural cooling techniques. Strengths, limitations, and practical implementation tips are provided. Though the evidence base for non-drug approaches is still evolving, a multimodal strategy tailored to the individual can meaningfully reduce VMS burden and improve well-being.

Keywords: Calliandra haematocephala, Fabaceae, Evaluation of anti-epileptic activity and Invitro Anti-oxidant Assay

Introduction

The menopausal transition and subsequent years frequently bring vasomotor symptoms (VMS) among women. These symptoms most notably hot flashes and night sweats result from changes in the body's thermoregulatory set-point, influenced by declining oestrogen levels. Estimates suggest up to 75–80% of women will experience hot flashes or night sweats during menopause. Given their prevalence and impact on quality of life, there is growing interest in non-drug strategies for managing these symptoms, especially for women who cannot or prefer not to use hormone therapy. This article focuses specifically on non-pharmacological (i.e., non-drug, non-hormonal) interventions for managing hot flashes and night sweats. The aim is to summarise current evidence, highlight practical strategies, and elucidate which interventions show promise.

Pathophysiology of VMS

Understanding the mechanism of VMS can help to appreciate why certain non-drug interventions may work. The key underlying concept is that declining oestrogen destabilises the hypothalamic thermoregulatory centre, narrowing the "thermoneutral zone" (the range of core body temperature in which no thermoregulatory responses such as sweating or shivering occur). When core temperature rises slightly above this narrower zone, a hot flash (vasodilation and sweating) may ensue. Night sweats are essentially hot flashes occurring during sleep, often leading to awakening, sleep disruption and downstream effects on mood and daytime functioning. The physiological changes underline why cooling strategies, lifestyle modifications, and mind-body regulation may all have mechanistic plausibility in reducing VMS.

Non-Drug Strategies

Below are the main categories of non-pharmacological interventions, with discussion of evidence, practical tips, and limitations.

1. Lifestyle & Behavioural Modifications

a. Trigger avoidance and behavioural cooling:

Common recommendations include avoidance of known triggers (e.g., caffeine, alcohol, spicy foods, high ambient temperature) and use of behavioural cooling tactics (e.g., dressing in layers, keeping ambient temperature lower, using fans or cooling sheets). Some guidelines note the logic of these strategies, but the evidence is weak or inconsistent. For instance, a clinical panel rated cooling techniques as Level II (not strongly recommended) due to insufficient robust evidence. Despite limited evidence, from a practical perspective these interventions can be low-risk and may provide relief for some women. Suggestions include:

- Keep bedroom cool (e.g., 18 °C/65 °F or lower) and use breathable cotton/bamboo sheets.
- Wear layers that can be removed when a hot flash begins.
- Use a small fan directed at the face when a flash begins.
- Identify individual triggers—keeping a symptom diary of foods/drinks, stress levels, temperature changes can help.
- b. Weight management & physical activity: Some observational data suggest that higher body fat is associated with increased VMS frequency, and that weight loss may reduce VMS. However, rigorous trials have not consistently confirmed strong benefit for exercise specifically on hot flashes. Nevertheless, given the other health benefits (cardiovascular, bone health, mood), encouraging regular physical activity is still prudent.
- c. Sleep hygiene & stress management: Since night sweats frequently disturb sleep and may exacerbate daytime symptoms, good sleep hygiene (regular bed/wake times, avoid heavy meals or caffeine close to bedtime, create a cool and dark sleep environment) and

stress-reduction strategies (mindful relaxation, deepbreathing) offer indirect but valuable benefits for VMS.

- 2. Mind-Body and Psychosocial Interventions
 Interventions such as cognitive-behavioural therapy
 (CBT), hypnosis, mindfulness and yoga have been
 studied in the context of menopausal VMS.
- A narrative review including breast-cancer survivors found evidence supporting CBT and hypnosis for reducing the perceived burden (though not always the frequency) of hot flashes and night sweats.
- A 2021 literature review highlighted the potential of mind-body therapies and emphasised that these interventions may improve quality of life but evidence specifically for hot-flash frequency remains modest.

Practical considerations

- CBT modules tailored to menopause can help women recognise hot-flash triggers, apply coping strategies (rapid cooling, relaxation), and reduce the distress associated with VMS.
- Hypnosis sessions (often 4–6 sessions) may reduce the intensity of VMS episodes.
- Mindfulness meditation (10–20 min/day) can improve sleep, mood and possibly reduce VMS via stressreduction pathways.
- Yoga or tai chi may have general health benefits; the direct effect on VMS frequency is less clear.

Limitations: These interventions require trained providers, and effect sizes are generally modest. Also, access may be limited in some settings.

3. Dietary and Plant-Based (Botanical) Approaches]

a. Phytoestrogens and isoflavones

A systematic review and meta-analysis of plant-based therapies (62 trials, 6,653 women) found that phytoestrogens (e.g., soy isoflavones) were associated with a modest reduction in daily hot flashes (pooled mean difference -1.31 hot flashes/day) but no statistically significant reduction in night sweats.

- b. Herbal remedies and supplements: While many women turn to herbal remedies (sage, red clover, evening primrose etc.), the heterogeneity of study quality, potential bias, and limited long-term safety data mean the guideline panels caution their use.
- c. Dietary pattern: There is some emerging, though preliminary, evidence that dietary patterns (e.g., low-fat vegan diet, high soy intake) may reduce hot flashes significantly. But these findings await robust replication.

Practical tips

- Encourage diets rich in whole grains, legumes, vegetables, moderate soy products (if no contraindication), and limited alcohol/caffeine/spicy food (as triggers).
- Educate women about the modest effect sizes and that these are adjuncts rather than sole solutions.

Limitations: Many studies had high risk of bias; botanical therapies are not uniformly regulated; night sweats may respond less robustly to dietary/phytoestrogen approaches.

4. Environmental and Bedding/Sleep Adaptations

Night sweats uniquely impact sleep quality. Apart from the general cooling strategies mentioned earlier, specific sleep-related adaptations include:

- Use of moisture-wicking bedding and pyjamas (e.g., bamboo, cotton rather than synthetic fabrics).
- Keeping a cool bed partner, cool mattress pads or cooling pillows. (Some anecdotal evidence supports this but high-quality trials are lacking).
- Scheduling a "cool down" period before bed (e.g., cooler shower, fan flow, lower room temperature). While a guideline review rated cooling techniques as "not recommended" based on lack of robust evidence, they remain low-risk, patient-friendly adjuncts and may be worth offering.

5. Integrative & Multi-modal Approaches

Given the multifactorial nature of VMS, combining several non-drug strategies often makes sense. A typical recommendation might include: educating on trigger avoidance, employing behavioural cooling, ensuring regular physical activity, incorporating mind-body practice, adapting diet moderately, and optimizing the sleep environment. In such a multimodal package, the cumulative benefit can be greater than any single intervention alone.

Evidence Summary and Practical Implications

- The strongest non-drug evidence currently supports mind-body interventions (CBT, hypnosis) and behavioural cooling/triggers avoidance, albeit with modest effect sizes compared to hormone therapy.
- Dietary/plant-based therapies show moderate evidence for hot-flash reduction but less for night sweats; their effect may be more adjunctive.
- Weight-loss/physical-activity interventions have general health benefits, though direct evidence for VMS reduction is inconsistent.
- Cooling and bedding/sleep environment modifications are low-risk and may offer symptom relief, though evidence is weak.
- Importantly, tailoring to the woman's preferences, comorbidities, lifestyle and risk profile is key—nonpharmacological interventions can be especially valuable in women who cannot or choose not to use hormone therapy.

Implementation in Practice

For clinicians, health-educators, and women themselves, the following step-wise approach may be useful:

- 1. Assessment: Determine frequency/severity of hot flashes/night sweats, triggers, effect on sleep and quality of life; ask about co-morbidities (cardiovascular risk, breast cancer history, etc).
- **2. Education:** Explain the thermoregulatory basis of VMS and rationalise non-drug approaches.
- **3. Lifestyle plan:** Develop with the woman a personalised plan:
- Cooling strategies (room temperature, layers, fan)

- Trigger diary to identify and avoid/modify common triggers (alcohol, caffeine, spicy food, hot drinks)
- Sleep environment optimisation (cool temperature, moisture-wicking bedding, consistent bedtime)
- Encourage moderate physical activity (30 min most days) and weight management if appropriate
- Nutrition: promote whole foods, moderate soy/legumes, limit processed foods and alcohol
- Mind-body referral: Offer or refer to CBT, hypnosis. mindfulness or yoga as appropriate.
- Monitoring: Track symptom frequency/severity (e.g., hot-flash diary), night-sweat episodes, sleep quality, mood, daily functioning. Reassess at 3- and 6-month intervals.
- Adjustment: If symptoms persist and are moderate/severe, discuss next-level options (pharmacologic/non-hormonal or hormone therapy if appropriate).

Challenges and Limitations

- The effect sizes of non-drug interventions are generally modest compared to hormone therapy; women must have realistic expectations.
- Many trials are small, heterogeneous, and of variable quality; there is less evidence for night sweats specifically compared to daytime hot flashes.
- Some interventions (e.g., CBT, hypnosis) require trained providers and may not be readily accessible or affordable in all settings.
- Individual variability is high—what works for one woman might not work for another—and many approaches rely on patient motivation and consistency.
- The evidence bases in low- and middle-income countries (including many parts of India) is limited; cultural adaptation and local lifestyle/context matter.

Conclusion

non-drug strategies for managing hot flashes and night sweats in menopausal women represent an important and often under-utilised complement (or alternative) to pharmacologic/hormonal therapies. While hormone therapy remains the most effective, many women require-or choose-non-hormonal paths. A combined, individualised approach encompassing cooling/behavioural strategies, lifestyle and dietary adaptations, and mind-body interventions can provide meaningful relief, improve sleep and quality of life, and empower women to take active control of their menopausal transition. Future research should focus on high-quality trials in diverse populations, longer-term outcomes, night-sweat-specific interventions, and culturally adapted programmes.

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