CONCEPT AND MANAGEMENT OF PREMENSTRUAL SYNDROME (MUTLAZIMA QABL HAIZ) IN UNANI SYSTEM OF MEDICINE

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ABSTRACT

Mutlazima Qabl Haiz (Premenstrual syndrome) refers to a combination of physical and emotional disturbances that occur after a woman ovulates and resolves with start of menstruation. More than 200 symptoms have been ascribed to PMS. Premenstrual Dysphoric Disorder is a more severe form of premenstrual syndrome. The characteristic symptoms of premenstrual syndrome are mood swings, anxiety, and irritability and physical conditions – like headache, fatigue, bloating, sleep disturbances, nausea, and breast tenderness. 90% of the women all over the world experience these symptoms during their reproductive years. The PMS has unknown cause and does not have any specific proved diagnosis and medication in modern medicine. The main objective of this article is to review the potential treatment for premenstrual syndrome in Unani medicine.

Keywords: Premenstrual Syndrome, Premenstrual Dysphoric Syndrome, Unani Management.

INTRODUCTION

The luteal phase of menstrual cycle starts from the time of ovulation and ends at the onset of menstruation. Some women experience physical, emotional and psychological symptoms during their luteal phase and beginning of their menstrual bleeding that are known as premenstrual syndrome. The psychological symptoms include irritability, mood swings, depressed mood, crying spells, low self-esteem, anxiety, sleep disturbance, increased appetite, lethargy or fatigue; cognitive symptoms include forgetfulness, decreased concentration and physical symptoms include breast tenderness, bloating, fluid retention, weight gain, constipation, hot flushes, headaches, musculoskeletal discomfort, acne, rhinitis, palpitation. Approximately 40% of women experience luteal phase symptoms during menstrual cycle that are troublesome; for 25% these are irritating but do not impair functioning; for 10-15%, the symptoms are severe with significant impairment in daily life activities. It has also been found that the prevalence of premenstrual syndrome (PMS) is higher in unmarried women, in women who belong to a low socioeconomic deprived areas and in women aged 35-44 years.

SYMPTOMS OF PMS

In 1931, Robert Frank used the term “Premenstrual Tension” for this phenomena. Greene and Dalton in 1953 called this condition as “Premenstrual Syndrome” to allow the inclusion of both somatic and psychological complaints in the symptom complex. Mutlazima Qabl Haiz is the term from the Arabic dictionary in which syndrome is translated as ‘mutlazima’, pre stands for ‘qabl’ and menstrual is the word given for ‘haiz’. No such term was defined by ancient Unani scholars but they had given a description on premenstrual features. The ancient physicians mentioned that, intmelayi kaifiat present in the premenstrual phase which leads to number...
of features. It is well documented that surge of akhlat muharrika (hormones) are responsible for build up of body fluid in tissue spaces during premenstrual phase and this theory correlates with the concept given by IbnSina and others are as follows:

- According to Zakariya Razi symptoms are anorexia, lassitude, anxiety, tremors and when these symptoms increase in intensity person may also complain of pelvic pain, pica, headache, backache and vomiting.11

- According to Ghulam Jeelani and Hakeem Ajmal Khan, the functions of liver get disturbed as a result of circulation of toxins in the blood during premenstrual phase, so that the person is unable to bear minor degrees of disturbances which lead to palpitation, headache and giddiness. These persons show temperament changes of melancholic type.12,13

- According to Ibn Sina in Canon of Medicine under the heading of “Plethora (Intila akhlat)” symptoms are anxiety, tension, headache, irritability, decreased concentration, insomnia, anorexia, palpitation, weight gain, food cravings, constipation, nausea, diarrhoea, puffiness of face, tingling in skin, and numbness in hand and leg.10

**ETIOLOGY OF PMS**

Although the underlying cause remains uncertain; seems to be multifactorial but ovarian hormone cycle appears to be important factor, since premenstrual syndrome is not observed before puberty in girls and after menopause in women. Some theories have been suggested to explain the pathophysiology of severe PMS as follows.

1. **Ovarian hormone theory:** The PMS is only observed in the women of reproductive age, it is supposed that the female gonadal hormones play a causative role, possibly mediated through the alteration of serotonergic activity in the brain. This theory hypothesises that imbalance in the estrogen to progesterone ratio is the cause of PMS, with a relative deficiency in progesterone.15 Trial has shown that administration of progesterone hormone during the premenstrual phase of the menstrual cycle can decrease the severity of premenstrual symptoms in some women.

2. **Deficiency of Neurotransmitter:** This theory implicates the deficiency of neurotransmitters such as serotonin and gaminobutyric acid (GABA) as a cause of PMS. Serotonin receptors are responsive to estrogen and progesterone, and Serotonin deficiency has been postulated in PMS patients; as the symptoms of PMS respond to selective serotonin reuptake inhibitors (SSRIs), which increase the amount of circulating Serotonin. GABA levels are modulated by the, allopregnanolone, a metabolite of progesterone and in women with PMS the allopregnanolone levels appear to be reduced.17

**MANAGEMENT**

PMS is prevalent in women of reproductive age causing substantial morbidity with obvious detriment to interpersonal relationships, social interactions, lifestyle, work performance, emotional well-being and overall health-related quality of life.18 Treatment goals for PMS are to ameliorate or reduce symptoms, decrease their impact on daily activities and interpersonal relationships, and reduce adverse effects of treatment.

1. **Nonpharmacologic**

   - **Diet**

     The usual recommendations are for a decrease in salt, sugar, alcohol and caffeine, and an increase in meals with a low glycaemic index. It is suggested that an increased complex carbohydrate intake increases brain serotonin activity, which in turn improves symptoms.

   - **Exercise**

     Aerobic activity leads to increased endorphin levels, which are known to improve mood, and several studies recommend there may be some benefit in the treatment of PMS.19

   - **Cognitive Behavior Therapy**

     A 2009 meta-analysis analyzed seven trials, three of which were randomized controlled trials, and showed improvement in functioning and depression scores for patients with PMS or PMDD.20

2. **Pharmacologic:**

   Pharmacologic therapies carry a greater risk of adverse events, and this must be considered when selecting such therapy, and should be only suggested to patients if symptoms are not adequately relieved by non-pharmacologic measures.21

   - **Serotonergic Antidepressants:** Medications affecting serotonin are first-line treatment of choice for severe PMS or PMDD.22,23 The selective serotonin reuptake inhibitors (SSRIs) citalopram (Celexa), escitalopram (Lexapro), fluoxetine (Prozac), and sertraline (Zoloft)—taken every day or only during the luteal phase of menstruation—significantly decrease physical and psychological symptoms of PMS compared with placebo.23

   - **Oral contraceptive pills (OCPs):** Some women with the PMS are prescribed the OCPs to balance their ovarian hormones fluctuations. Research has reported that the new OCP formulations seem to be more beneficial and effective in the improvement of premenstrual symptoms.24,25

   - **Suppression of ovarian cycle:** Gonadotropin-releasing hormone (GnRH) analogues suppress ovarian function and reduce disturbing premenstrual symptoms in some women.26 However, it may not be used for more than six months due to its adverse effects, particularly hot flushes and decreased bone density.22 Androgenic agent like danazol inhibits gonadotropin release, thus improving mastalgia.27 Continuous danazol therapy may also relieve other PMS symptoms. However, long term therapy of
danazol is limited by side effects such as masculinization (e.g., weight gain, decreased breast size, deepening of the voice), as well as adverse effects on LFTs and serum lipid profiles. 27,28

3. Supplements: Certain supplements have been reported to be efficient in the reduction of the severity and duration of the premenstrual symptoms. They are calcium supplements (1000 mg)29, magnesium (200 mg) 30, vitamin E (400 units), vitamin B6 (pyridoxine) 31, chaste berry (vitis agnus castus) 32, St John’s Wort 33, evening primrose oil (3000–4000 mg) 26, Black Cohosh and Dandelion 34. It has been reported that these therapies need to be taken for at least two consecutive cycles to be effective. 16,29,30 High doses of supplements may be toxic and harm the liver in some individuals, so consult with their physicians before taking any supplements. 35

MANAGEMENT PROTOCOL OF PMS

The following steps for treating PMS are based on recommendations outlined in an ACOG Practice Bulletin:

- Step 1:
  A. Mild/moderate symptoms: Supportive therapy with good nutrition, complex carbohydrates, aerobic exercise, calcium supplements, and possibly magnesium or chaste berry fruit.
  B. If physical symptoms predominate: NSAIDs or Spironolactone, or balance hormonal formulations with OCPs or medroxyprogesterone acetate.

- Step 2:
  When mood symptoms are significantly impairing function then SSRI therapy is used. An anxiolytic like alprazolam can be used for such symptoms not relieved by the SSRI medication.

- Step 3:
  If not responsive to above said treatment GnRH agonists is recommended. This would not be done in an adolescent without consultation with a gynaecologist. 36

UNANI TREATMENT

There are different types of Unani medicines which are being prescribed for the treatment of premenstrual syndrome.

- According to Ibn Sena, the menstruation which occurs as a result of generalized edema is treated by venesection (fajad). He further mentioned that its treatment should be according to cause. If the cause is heat (hiddat) and dominance of bile then it is best treated by evacuation (istefragh) of bile especially by Shahtara (fumaria officinalis) and halela (Terminalia Chebula) because they both have astringent property also. If retention of fluid is the reason then it is excreted through skin by using drugs such as Samaghe arbi(Acacia Arabica) and Kateera (Sterculia Urens). If the cause is weakness of uterus then astringent drugs along with uterine tonics are prescribed. 10

- Zakaria Al Razi described drugs having diuretic and emmenagogue properties and also included Jund bedaster (Castoreum), Tukhme Karafs (Apium Graveolens, Heel Kalan (Amomum Subulatum), Habbe Balsan (Commiphora Opobalsamum) in this group. 11

- According to Ghulam Jeelani and Ajmal Khan following formulations having diuretic and emmenagogue actions are beneficial if used for 7 to 10 days before menstruation.

1. Gule Khatmi (Althaea Officinalis), Tukhme Turb (Raphanus Sativus), Mushtirnamashi (Mentha Pulegum), Parsyaoshan (Adiantum Cappilus Veneris), Mako ( Solanum Nigrum), each 5 gram is taken and decoction is prepared to which 1 gm Jawakhar (Pottasium carbonate) is added and used for 7 days before menstruation.

2. Sufoof Mudir Haiz is also useful which has the following ingredients: Revand chini (Rheum emodi), Shora qalmi (Pottasium Nitrate), Jawakhar (Pottasium Carbonate), Zeera Safaid (Cuminum Cyminum) and sugar each 12 grams is grinded to prepare fine powder and used as 7 grams. 12,13

CONCLUSION

Premenstrual syndrome have unknown multifactorial causes but highly treatable disorders. Herbal medicines play important role for managing the symptoms of PMS. PMS affects the quality of life for many women of reproductive age. Pharmacological treatments having limited efficacy and substantial side effects. Lifestyle changes, dietary modifications, complementary therapies and prescription medications reduce the symptoms of premenstrual syndrome (PMS). Lifestyle changes include regular exercise, quit smoking, reduce intake of salt and caffeine and getting sufficient sleep. Dietary supplements are helpful in reducing symptoms of premenstrual syndrome. Some scientific studies prove the effectiveness of herbs to help reduce the effects of PMS and report relief of PMS symptoms with the use of herbs such as evening primrose oil and saffron. Unani can offer a great benefit to the female population by improving her psychosocial as well as physical health which ultimately contributes to a healthy society.
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