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PREMATURE MENOPAUSE: A CRITICAL REVIEW THROUGH AYURVEDA

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ABSTRACT

Premature Menopause is common disorder which is increasingin prevalence in present era. Premature Menopause affects 1% of women under the age of 40 years. Diagnosis of Premature Menopause is based on physical changes, psychological changes and sexual function. Premature Menopause or early menopause may be either spontaneous or induced. Women who experiences Premature Menopause (before age 40 years) or early menopause (between ages 40 and 45 years) experiences an increased risk of overall mortality, cardiovascular diseases, neurologic diseases, psychiatric disorders, osteoporosis, infertility and other sequels. Long termhormonal treatment for the management of Premature Menopause may cause increased rate in cardiovascular disease risk, fluctuations in mood, breast cancer etc. Ayurvedic rasayan chikitsa adopting dincharya, rutucharya, panchkarma, sthanikchikitsa, yogasana and satvavajaya chikitsa prove beneficial in these conditions. To give new treatment modalities for Premature Menopause by adopting Ayurvedic science is the aim of this study.

Keywords: Premature Menopause, Rasayanchikitsa, Sthanikchikitsa

INTRODUCTION

Premature Menopause refers to menopause that occurs before age 40 years, and early menopause refers to menopause that occurs at or before age 45 years, both ranges being well below the median age of natural menopause (age 51 years). *Rajonivruttikal* according to Ayurveda is approximately fifty years of age. According to Ayurved science, stages of development of body are:

- 1. Bal
- 2. Madhyam
- 3. Vruddha

Madhyamavastha is again divided into three stages i.e.

- A) Yauvan
- B) Sampurnatva
- C) Aparihani.

Premature Menopause can be correlated to abnormality in *Aparihaniavastha*. *Aparihaniavasthavikruti* is due to mainly *Pittadosha-dushti*.

Premature Menopause or early menopause can be spontaneous or induced; if induced, it can be due to medical interventions such as chemotherapy or surgical interventions such as bilateral oophorectomy. Regardless of cause, women who experience Oestrogen deficiency at an age well before the median age of natural menopause are now recognized to be at increased risk for premature morbidity and mortality.

It is a relatively common condition. The diagnosis should always be considered in any woman presenting with a history of amenorrhea primary or secondary oligomenorrhea, vasomotor disturbances or other signs of oestrogen deficiency and may be confirmed by the detection of an elevated serum level of follicle stimulating hormone and oestrogen deficiency. Cessation menstruation and the development climacteric symptoms can occur few years after menarche. The causes for premature ovarian failure are unknown. It is most frequently idiopathic but may be due to autoimmune disorders, genetic infections, enzyme deficiencies or metabolic syndromes. In the present era, it is essential to enlighten the Premature Menopause and the risk of osteoporosis, ischemic heart disease and associated infertility.

Hetu (Aetiology):

Following Aetiological factors are mostly observed--

1. Beeja-doshaja (Genetic disorders):

These are commoner in those cases that present early. Examples of genetic disorders are chromosomal abnormalities. Ovarian dysgenesis is a major cause of Premature Menopause. Ovarian dysgenesis is seen in 30% of the cases. Chromosomal abnormalities are reported in 10-20% of cases involving X sex chromosomes.

Genetic causes of Premature Menopause are:

- 1. Turner's syndrome(45X0)
- 2. Pure gonadal dysgenesis
- 3. Familial
- 4. Trisomy 18 and Trisomy 13
- 5. Di George syndrome

2. Chayapachaya-vikrutijaneet (Genetic Metabolic disorder)

- 1. 17 alpha-hydroxylase deficiency
- 2. Galactosaemia
- 3. Myotonic dystrophy

3. Vyadhiksamtvavikrutijaneet(Immunologic al):

- 1. Ataxia telangiectasia
- 2. Mucocutaneous fungal infections

4. Dhatvanivikrutijaneet (Autoimmune diseases):

This is reported in 30-60% of cases. They are the more common causes in the later onset presentations. Autoimmune causes of Premature Menopause are thyroid diseases, hyperparathyroidism and Addison's disease.

5. Aupasargik (Infections):

Mumps is the commonest infection associated with Premature Menopause. Its effect is maximal during the foetal and pubertal periods when even subclinical infection can result in ovarian failure. Pelvic tuberculosis can cause secondary amenorrhea and ovarian failure. Pelvic tuberculosis is seen in 3% of cases.

6. Asatmya-vihar-janeet-Smoking:

Smoking is known to induce Premature Menopause. There is a dose-related effect of smoking on age of menopause. The effect of smoking is believed to be caused through polycyclic hydrocarbons contained in cigarette smoke.

7. Sroto-vidhyata/vikritijaneet (Post-Surgery/radiotherapy):

failure Ovarian following hysterectomy is seen in 15-50% of the cases. This is caused by impairment of ovarian vascular supply or by the loss of some important endocrine contribution by the uterus to the ovary. Radiation and chemotherapy causes sroto-vidhyata and produces Premature Menopause but the effect is reversible and the ovary may resume ovulation and menstruation after one year of amenorrhea. Megavoltage (4500-5000 irradiation rads) is associated with ovarian failure but irradiations less than 500 rads restores normal ovarian function by 50% after a period of one year.

8. Aushad-upadravajaneet(Drugs):

Prolonged GnRH therapy may lead to ovarian suppression and failure. Drugs in psychological disorders interfere in hypothalamo-pitutory -ovarian -endometrial axisand produces amenorrhoea, hypomenorrhea. The chemotherapeutic agents implicated in the aetiology of Premature Menopause are alkylating agents, methotrexate, 6 mercaptopurine, actinomycin and Adriamycin. Ovarian damage from cancer therapy depends on the age at treatment and on the type of treatment.

Pathophysiology and Clinical Features According To Ayurved:

According Avurved Artavto vahastrotasvidhyata causes infertility, dyspareunia and amenorrhoea. Strotasvidhyata causes Strotovaigunya. Mithya-aahar, Mithyavihar, depression, strainous work causes Vataprakop. VitiaedVata causes Pitta-Kaphaksaya. Together these three i.e. prakupitVata and ksveena Pitta-Kapha produces Jatharagni-mandya which inturn causes Dhatvagni-mandya and uttarottarDhatuksaya. Jathargnimandya also causes Aamotpatti and avarodhatmakasamprapti. AamaDushittridosh produces Anartava. Vandhyatva, Medovruddhi, Hrid-vikruti, Asthi-saushirya etc. Vitiated Dosha causes Dhee-Dhruti-Smrutivikruti which in turn responsible for decrease in promptness in day to day work. Aamadushit Pitta-Kapha along with prakupitVata causes vidgdhatva causing hasta-padadaha and santap of Mana-Indriya and disturbed sleep. PrakupitVata kseenaKapha cause dryness of Vagina and Mansa-dhatushaithilya causing Yonisransa and Yonibhransha and maitun-anichcha. According to Ayurveda above described rugnasanvedya and vaidyasanvedyalaksane helps in vyadhivinishchaya.

Pathophysiology and clinical features according to Modern science:

Lack of gonadotrophin receptors is the underlying cause of non response of follicles and the main cause of this disorder.

Premature Menopause is associated with multiple symptoms such as vasomotor symptoms (Hot flushes and night sweats), vaginal symptoms (vaginal dryness and dyspareunia), urinary symptoms (frequency, urgency, incontinence and atrophic cystitis), sexual dysfunction, and sleep disturbances. Other symptoms are headache, depression, anxiety, irritability, skin atrophy, joint pains, cancer phobia, pseudocyesis and lack of concentration

Diagnostic criteria: According to modern science:

There are no unique clinical features that establish the diagnosis of Premature Menopause.

The diagnosis is based on a triad of amenorrhea, elevated gonadotropin levels and signs and symptoms of oestrogen deficiency. The concentrations of gonadotropins in the premature menopausal range are necessary to establish a diagnosis of ovarian failure but because of the intermittent presentation of the disease, repeated assays may be required at intervals of 2-4 weeks. Women with FSH levels above 40 mIU/ml may not have viable ovarian follicles on biopsy and such women may be regarded as having undergone permanent ovarian failure.

Investigation:

- 1. FSH level >40 Miu/ml:
- 2. E2 level <20 pg/ml.

- 3. Chromosomal study: Sex chromosomal analysis should be performed on all patients who present with primary amenorrhea or with early-onset ovarian failure. The women that present with later onset ovarian failure should check their adrenal reserve.
- 4. Thyroid function: The women who present with later onset ovarian failure should be screened for high titres of anti-adrenal and anti-thyroid antibodies to rule out autoimmune adrenal or thyroid failure which may follow ovarian failure a year or more later.
- 5. Blood Sugar
- 6. X-ray of the pituitary gland to rule out tumour.
- 7. Blood calcium level.
- 8. Bone mineral density study.

General *Ayurvedic* management of Premature Menopause:

Most of the Premature Menopause symptoms are due the Vata-aggravation followed by other doshaj factors. Prevention is better than cure. In the Premature Menopause, it is better to balance the aggravated or under playing factors, so that the intensity of the Premature Menopausal symptoms will be far less or even can be negligible. In order to achieve this, one should follow the dosha based Diet and life style principles followed by Ayurvedic herbs on regular basis. If still symptoms persists, it is better to undergo 'panchakarma' (ayurvedic detoxification), which helps in the elimination of vitiated humours or doshas to bring them to balanced stage, then it is advisable to take few Ayurvedic herbs or decoctions and other preparation. To make the transition more

graceful, *Ayurveda* has excellent solution for a safe and happy transition. *Ayurvedic*treatment for menopausal symptoms involvescorrecting *dosha* imbalance with ---

- 1. Appropriate diet and herbs,
- 2. Samshamana therapy
- 3. Panchakarma-Samshodhan therapy (Internal detoxification therapy) and Sthanikchikitsa
- 4. Sattvavjayachikitsa orAcharrasayan,
- 5. Yoga-therapy
- 6. Rasayan therapy

1. Ayurvedicdiet and herbs

(a) For Vata dominant Premature Menopausewarm food and drinks, regular meals, and use spices such as fennel and cumin. Decrease caffeine and other Stimulants, refined sugar, cold drinks. Lifestyle early bedtime, oil massage using almond and olive oil. meditation. yoga, regular exercise like Herbs walking. Ashwagandha (Withaniasomnifera), Arjuna (Terminaliaarjuna), Cardamom (Elettariacardomam), Garlic (Allium sativum), Guggul (Commiphoramukul), Sandalwood (Santalum alba) and Zizphus (Ziziphusjujube).

(b)For *Pitta* dominant Menopause - Diet-*Tikta, madhur, kashay rasa-pradhan* foods, water intake, sweet juicy fruits i.e. grapes, pears, plums, mango, melons, apples, cucumber, organic foods. Use spices such as cinnamon, cardamom and Fennel. Avoid hot spicy foods, hot drinks and alcohol. Lifestyle oil massages using coconut and sesame oil. Use meditation and other techniques to reduce anger, hatred and resentment. Exercise and exposure to the sun are limited. Herbs -

Aloevera, *Arjuna* (*Terminaliaarjuna*), *Amla* (*Emblicaoffcinalis*), Saffron (*Crocus sativus*), *Sandal* wood and use spices such as Cinnamon, Cardamom and Fennel.

(c)For Kapha dominant Premature Menopause-Diet – Prefer for light, dry and warm food, consume fruits, whole grains, legumes and vegetables. Use spices such as black pepper, turmeric and ginger. Avoid meat, cheese, sugar, cold foods and drinks. Weekly fasting is helpful. Most or all of the daily food should be consumed before 6 p.m. Get up early. Mustard oil and linseed oil are often recommended for massage. Herbs Cinnamon. Guggul (Commiphoramukul), Mustard (Brasscianigra), Haritki (Terminaliachebula), Nagarmotha (Cyperusrotundus).

2. Samshamana therapy—

Agnideepana, Amapachana, Anulomana, Balya.

3. Panchakarma- Samshodhan therapyand Sthanikchikitsa-

(Internal detoxification therapy)

Panchkarmachikitsa is physical therapy that thoroughly cleanses and purifies the physical and mental impurities from the body and mind. The general purpose of the Panchakarma therapies is to loosen, liquefy and remove the vitiated substances and doshas from their abnormal sites in peripheral tissues via their natural pathway of elimination. More serious symptoms, such as frequent hot flashes, continual sleep disturbance, and moderate to severe mood swings, are signs of deeper imbalances. Ayurveda describes that these stubborn symptoms are usually due to the wastes and toxins, referred to as 'aama' in

the body's tissues. In this case, a traditional Avurvedic detoxification programme 'Panchakarma' may be needed to clear the body's channels and gain relief. This internal cleansing approach is also the treatment of choice for more serious problems such as osteoporosis and high cholesterol. *PanchakarmaAbhyanga* (massage), Mriduswedana, Shirodhara, Mriduvirechan, Basti are beneficial. Lasunadi tail basti. Lasunkseerpakbsti is useful in osteoporosis. Sthanikchikitsa like Yoni-pichu, Yoni-dhavan, Yoni-parishek, Yoni-varti, Yoni-pinda, Yonidupan, Yoni-lepa and Uttarbasti are more appropriate for yoni-shushkata, yoni-sransa or yoni-shaithilya and loss of libido.

4. *Sattvavjayachikitsa* or *Achar-rasayan*-Counselling and Reassurance.

5. Yoga- therapy-

Yoga is an original & ancient holistic art of living that include physical, mental, moral, spiritual spheres. The Sanskrit word 'yoga' means to 'join or union' and the practice of yoga beings this union to all levels of one's self. The eight limbs of yoga are Yama. Niyam, Aasana, Pranayama, Pratyahar, Dharana, Dhyana, Samadhi. The most commonly performed yoga practices are postures (aasana), controlling breathing (pranayama) & meditation (dhyana). Asana – shavasan, padhmasana, varjasana. Pranayama -Sheetalipranayam, Ujjayipranayamayoga therapy is a useful adjunctive complementary & integrative for premature menopausal women. Current evidence indicates that women will benefit voga therapy during premature menopausal stage in term of decrease risk of

cardiovascular disease, insulin resistance & loss of bone mineral density as well as improved psychological wellbeing, sleep patterns &Emotional modulation.

6. Rasayana therapy -

Rasayana therapy is not only preventing the aging changes but it brings in youth fullness to a person. It increases life span, memory, intelligence & health; improves colour, complexion, strength & performance of the organs of cognition & conation. Rasayana drugs act by strengthening all seven dhatus. According to Aacharya Charaka, rasayana produces long life lasting memory, talent, healthy physique, youth, lustre bright complexion, good voice, strength of body and senses, truthfulness, respect, and glowing body. Aacharya Charaka has described 'rasayana' as a means to promote vigour and health which is mainly virilific and promotive of vitality. Maharshi Sushruta has defined 'rasayana' as the method which retards the aging process, increases longevity, talent, vitality and makes the body fit to overcome the factors causing ailment. Many drugs act as rasayana property *Triphala: Triphala* consisting of Haritaki (Terminaliachebula), Vibhitaki (Termanaliabelerica), Amalaki (Embelicaofficianalis), pacify all the three doshas& also is an excellent vayasthapana (antiaging agent) Ashwagandha It is a powerful (Withanasomnifera) antioxidant &immunemodulator. It is one that improves strength, muscle mass and relieves stress. In Premature Menopause, it controls effectively the vasomotor symptoms (hot flushes, night sweats, palpitation)

Yasthimadhu (Glycerrhizaglabra)– another rasayana drug which is prescribed for Premature Menopause. It is an excellent antioxidant. immunomodulator & depressant, memory enhancer. It is described as a promoting agent for life, voice, hair, complexion, strength & libido. Shatavari (Asparagus racemosus)–Shatavari is widely recommended in Ayurveda. Shatavari has been used for many diseases with a multidimensional approach as per Ayurvedic pharmaco-dynamics which help to enrich nutrition, increasing plasma and white blood count in the blood. The root contains phytoestrogen, helping to regulate estrogen from ovaries and the skin.

Management of Premature Menopause with respective to *hetu* by *Ayurved* science:

1.Beejadushijanya-

Premature Menopause is directly proportional to beejabhaganshadushti. prevent beejadushti one should follow 'Vivavsanskar' to whom and at what agestree *purush*should get married. Before garbhadhansanskar both of married stree and should do *sharir-shuddhi*. purush 'SampatorSuprajanan'Ayurved has advised 'yugma-ayugmadinisambhog' 'ritu-kal' only. After garbhadharan pregnant woman should follow 'Garbhineeparicharya'. With these principles' male or female baby which would get produced might have predominance of Shukra or Artavbhahulya respectively and hence Supraja-nirmitee. Again with the help of 'Garbha-Sanskar' same goal would be achieved. Premature Menopause due beejadushti and autoimmune diseases can be

avoided by following these ayurvedic principles.

2. Mithyahar-viharjanyajanya-

Atyadhikushna ,tikshnaahar causes Pitta-dushti, atyadhiksheet, guru, snigdha, pichchilahar causes Kaphadushti; atirukshaahar causes Vata-dushti. Dipaswaap, ratrau-jagaran, excessive alcohol or aerated drinks, cigarette smoking cause tridoshprakop and jatharagnimandya. Tridoshprakop and Atiorakalvyavay causes 'Yoni-vyapad' and in turn artavdushti and artavksaya, anartav. Parivarjan of these hetu is ideal chikitsa.

3. Jatharagnimandyajanya-

Atisthaulya, atikarshya might caused by jatharagnimandya and vice versa. Dhatuutpatti 'Rasatraktamtatomamsam' was not followed. So Artav was not produced as upadhatu and so consequently Premature Menopause occurs. So one must follow Aharvidhivisheshaayatane, dincharyaratricharya, rutucharya. Ayurvedikdravya i.e. deepan, pachan helps in jatharagnideepan.

4. Dhatvagnimandyajanya-

Rasadhatvagnimandya causes utpatti of malarupakleda-vruddhi and uttarottardhatuksaya and updhatuksaya i.e. Artavksaya.

Due to dhatvagnimandya Rakta, Mamsa, Meda, Asthyadidhatuutpatti gets disturbed and sthaulya, asthisaushirya occurs. Majjadhatuksaya causes forgetfulness, insomnia. Prakupit Vata and kseena Kapha-Pitta causes disturbance in prakrit karma of Mana-Buddhi and produces mood swings,

nervousness, loneliness. *Shodhan –shaman chikitsa* is beneficial.

5. Vishisthavyadhiupadravajanya-

Granthi-Arbud of Tryavartayoni and Antahphala, Artavdusti; Yonivyapadsuch as Vataj, Arajaska, Vandhya causesalpa Artavnirmitee. Diagnosis and management of these vyadhi helps in sampraptibhang of Premature Menopause. Indicated hysterectomy should be done only. Preservation of ovaries should be priority unless and until there is clear indication for oophorectomy.

6. Srotasvaigunyajanya-

Apan Vayu causes Artavvahasrotosavaigunya. Artav never get vyaktibhava in ArtavvahasrotasApanVayu never does Dharan of Prasadrupi Artav. Sthanikchikitsa normalises Apanvayu.

7. Manasikvyadhijanya-

Manasvyadhi causes imbalance in functions of Mana Indriya.Vikrut and perception of emotions cause Vatadi dosh prakop mainly Vyana, Saman and Apanvayu. This again produces vicious cycle of Artavksayanirmitee. Nasya, Shirobasti, Ashwasanchikitsa improves Manovahasrotas karma.

8. Swabhavjanya-

Early menarche in present era might be cause of Premature-Menopauseas it causes early depreciation of ovarian reservoir.

CONCLUSION

Ayurveda has excellent solution for Premature Menopause. The basic concept of

avurvedic medicine is prevention is better than cure. Beejadustijanya Premature Menopause can be avoided by following Vivahsanskar, Garbhadhan-sanskar, Garbhinee-paricharya and Garbhasanskar. Deepan, **Pachanand** Shodhanchikitsa help in Dhatvagnimandyajanya and Jatharagnimandyajanya, srotovaigunyajaneet Premature Menopause. Ayurvedic rasayan chikitsa adopting dincharya, rutucharya, panchkarma, sthanikchikitsa, yogasana and satvavajavachiitsa is very beneficial in swabhavajanya and manasikvyadhijanya Premature Menopause. Proper treatment for garbhashajanyavyadhi and ethical practice for oophorectomy hysterectomy, helps to minimise and avoid Premature-Menopause.

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