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# Role of Shatapushpa (Anethum sowa Kurz.) In female reproductive health- a narrative review

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## **ABSTRACT**

Ayurveda is the one of the ancient medical systems in the world which aims to restore physical and mental health and prevent and treat diseases as well. In relation with the female reproductive health. Avurveda has contributed immensely. Among various plants, Shatapushpa, as mentioned by Acharya Kashyap in Shatapushpa-Shatavari kalpa adhvava, plays an important role in the treatment and prevention of various diseases concerning the female reproductive system. With advancement and modernization, our lifestyle and food habits have changed drastically, which have adversely affected the normal physiology of the female reproductive system. Stress, competitive lifestyle, westernized food habits, depression, malnutrition etc. have brought in a host

of gynaecological disorders specially among the female population in India and world-wide as well.

Ayurveda has always been stressing both on preventive as well as curative aspect of diseases. Therefore, low cost and effective therapy is the need of the hour in the present era. Shatapushpa, in various forms such as Churna, taila. kwath etc. or in compound formulation can be used in the treatment of various gynaecological disorders and thus help in the maintenance of the HPO-axis. Hence, an effort has been made through this study to lay importance and significance on the utility of Shatapushpa in clinical practice to combat the crisis among the female population in urban and rural India as well.

**Keywords-** *Ayurveda*, *Shatapushpa*, female reproductive system, gynaecological disorders.

## INTRODUCTION

Gynaecological disorders are currently one of society's health concern because of today's sedentary lifestyle and lack of physical activity. The menstrual function in a female is deemed to be one of the main factors reflecting the functional potentiality of women which will be disturbed by some sort of discomfort in more than 50% of women[1]. Women, today must deal with obstacles brought on by hectic lives that lead Mithyaahara and Vihara, over-exertion and malnutrition, which can result in Vikruti in "Rituchakra" and a variety of Vvadhis related to menstruation. No gynaecological illness can develop without the involvement of vitiated Vata Dosha, according to various Ayurvedic Scholars.[2,3]

As per modern medicine, neuroendocrinology along with vast hormonal interactions is responsible for maintaining the physiology of menstruation and reproductive functions in a woman.

It is now well established that a normal menstrual cycle depends on cyclical ovarian steroid secretions, which in turn are controlled by the pituitary and the hypothalamus and, to some extent, are influenced by the thyroid and adrenal glands. It is therefore essential to understand the hypothalamus-pituitaryovarian (HPO) axis in normal women and apply this knowledge in therapeutic management infertility, in family planning and various gynaecological disorders.[4]

It is evident that the bodily metabolism plays an important role in the cause and treatment of menstrual disorders as per various studies.

For proper maintenance of uterine tone and regulation of uterine contractions, many effective ayurvedic regimens have been described in ayurvedic texts and various studies have also been conducted; but a proper understanding and interpretation of the disease spectrum is not available, furthermore the documentation of these data in terms of research is lacking.[5]

Acharya Kashyap has elaborated various uses of Shatapushpa in the Shatapushpa-Shatavari kalpa adhyaya in Kashyap Samhita or Vriddhajivakiya Tantra.

## **AIMS & OBJECTIVES:**

- 1) To explore and study the properties of *Shatapushpa* concerning its utility in female reproductive health.
- 2) To correlate the properties of *Shatapushpa* as per modern and *Ayurvedic* view.
- 3) To derive *Shatapushpa* as a costeffective, single drug treatment for various gynaecological disorders.

## **MATERIALS & METHODS:**

Ayurvedic texts were reviewed to analyse the various aspects of Shatapushpa and correlated with various research papers establishing the concept as per evidencebased preventive and curative advancements in relation to female reproductive health. Databases like PubMed, Scopus were reviewed using keywords like Shatapushpa, Anethum sowa, Kashtartava. Artavadushti, flavonoids, Udavartini, Ayurveda etc.

## LITERATURE REVIEW:

Sanskrit name- Shatapushpa

Botanical name- Anethum sowa Kurz.

Famiy- Apiaceae

Synonyms- Atilambi, Sitachatra, Madhura, Karavi, Misi, Shatahva, Samhita Chatrika[6]

Regional names- Soya(Hindi),
Dill(English), Suva(Gujarati),
Shatakuppivirai(Tamil),
Shatakuppivittalu(Telegu),
Shaluka(Bengali), Shivitt(Arabic)[7]

## Chief characters-

- 1. Perennial herb.
- 2. Bifoliate or trifoliate compound leaves.
- 3. Yellow coloured flowers.
- 4. Compound umbel inflorescence
- 5. Fruit- Cremo carp, 3-4mm long, dorsal and intermediate ridges distinct.
- 6. Flowering and fruiting time-January to March
- 7. Kinds and varieties- Fruits of the Indian variety (Anethum sowa Kurz.) are longer in size and has dorsal ridges which are paler in colour as compared to those of the European species.
- 8. Dose- Powder-1-3gm, Oil- 1-3drops, *Arka*-20-40ml.
- 9. Formulations- Shatapushpadi lepa, Shatapushpadi Kashaya, Arka soya, Shatapushpadya churna.[8]

## Pharmacodynamics:

Rasa: Katu, Tikta

Guna- Laghu, Ruksha, Tikshna

Virya- Ushna Vipaka- Katu Pharmacological actions-Vatakaphahara, Deepana, Pittakrita.

As per Kashyap Samhita. Shatapushpa is indicated to be sweet anabolic(bringhaniva). (Madhura), strength providing(balya), promoter of complexion nutrition. digestive/metabolic fire (Pushti-varnaagni Vardhani). It is initiator of ritu(menstruation/ ovulation) ritupravartani, is virtuous(dhanya), clarifies female reproductive voni( organs) and shukra(sperm/spermatic fluid), supresses Vata, is hot, auspicious, eradicates effect of evil deeds, gives progeny and increases virya(virility).

According to *Kashyap*, by the use of *Shatapushpa*, *vandhya*(infertile women) and *sandha*(impotent/hermaphrodite woman) also delivers, the aged becomes young and also attains strength and complexion, becomes endowed with lustre, *ojas*, *buddhi*(critical understanding), longevity, intellect, progeny and patience has absence of wrinkles and greying of hair.[9]

## CHEMICAL COMPOSITION

Researches shows that Shatapushpa has following composition:

Carbohydrate, Fiber, Ash, Calcium, Magnesium Phosphorus, Iron, Sodium, Potassium, Zinc, Vitamin A, thiamine, riboflavin, protein, Niacin, Vitamin B6, essential oil which contain carvone, limonene, and a-phellandrene., fatty oil and palmitic and linoleic acid were the major saturated and unsaturated fatty acids. Glutamic acid, glycine and lysine were found as the major amino acids.

Qualitative phyto-chemical evaluation of methanolic extract of dried fruit of Shatapushpa reveals presence of

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alkaloids, carbohydrates, tannin, triterpenoids, flavonoids, proteins.[10]

## **OBSERVATION**

The incidence of gynaecological disorders is on a rise due to lifestyle changes i.e due to mithva ahara and vihara. As per Ayurvedic classics, various treatment principles have been mentioned by various scholars.

It has been seen that Shatapushpa has been considered as the one of the most significant drugs by Acharva treating Kashyap in various gynaecological disorders and obstetrics related ailments.

Phytochemical analysis of Shatapushpa revealed the presence of alkaloids. carbohydrates, triterpenoids, flavonoids and proteins in methanol extract of Shatapushpa.

> Mode of action of various active constituents:

- Triterpenoidsthey are multifunctional in nature, possess anti-inflammatory anticarcinogenic activity. It has been found that triterpenoids are potential agents for chemoprevention and therapy for breast cancer.
- Flavonoids- they put on potent protective potency in hypertensive disorders in pregnancy, especially in preeclampsia.

Flavonoids play significant role in the prevention of ovarian and endometrial cancers.[11]

There have been studies regarding the protective effect of flavone luteolin, flavonol kaempferol and total isoflavones individual (daidzein, genistein, glycitein) against ovarian and endometrial cancers.

Studies have shown that luteolin and kaempferol possess antioxidant, antimicrobial and anticancer activities. They also have been known to have cardioprotective, antidiabetic and neuroprotective effects. Luteolin and kaempferol inhibit prelabour and proinflammatory mediators in human gestational tissues.[12]

To date, numerous studies have demonstrated the potential of kaempferol to induce tumour cell apoptosis, inhibit proliferation, and prevent metastasis and invasion in several gynaecological malignancies, including breast, ovarian and endometrial cancers.[13]

Various preclinical studies have kaempferol and some shown that glycosides of kaempferol have a vast range of pharmacological activities, including anti-inflammatory, antioxidant, antimicrobial, cardioprotective,

neuroprotective, anticancer, antidiabetic, anti-osteoporotic,

estrogenic/antiestrogenic, anxiolytic, analgesic and antiallergic activities.[14]

Kaempferol, trans-anethole limonine phytoestrogenic possess activity. Therefore, depending on the target tissue, they exhibit both, hyper estrogenic and hypoestrogenic action. Hence. they are beneficial amenorrhoea, menorrhagia and various other menstrual disorders.

• Proteins-They help in maintaining feto-maternal wellbeing by aiding in the expansion of blood volume and growth of maternal tissues. Protein forms the basic foundation for the proper growth of fetal organs including the brain and therefore is very essential for a healthy pregnancy outcome.

## DISCUSSION

Therefore, it can be summarized as:

Gynaecological	Probable mode of
disorders	action of
	Shatapushpa
Anovulatory	Due to its Ushna
menstruation	virya, it is beneficial
	for
	ovulation(beejotsarg
	a) and hence
	maintain healthy
	ovulatory menstrual
	cycle.
Infertility and	Due to its Ushna
Pre-conception	virya, it suppresses
care	Vata dosha which is
	the main reason for
	yonivyapads.
	Moreover, it possess
	Madhura rasa, has
	qualities such as
	Bringhana, Balya
	and Rasayana which
	favours conception
	by promoting
	enhancement of
	receptibility of
	endometrial lining.
Amenorrhoea,	Due to its estrogenic
Oligomenorrhoe	activity, it aids in
a, Menorrhagia,	maintaining the
Menopausal	HPO-axis and hence
syndrome	proves to be
	beneficial for
	relieving complaints
	of various menstrual
	disorders
Polycystic	Due to its guna, such
ovarian	as Katu, Tikshna and
syndrome	Ruksha, it clarifies
	yoni i.e works as
	Srotoshodhak by
	removing obstruction
	in the <i>srotas</i> .
Delayed	Due to pittakrita

menstruation	action, it aids in the
	initiation of ritu or
	menstruation.
Dysmenorrhoea	Due to its Vataghna
	action, it alleviates
	the pain and
	discomfort.
Pregnancy	Due to presence of
	properties like
	bringhana, balya,
	Pushti-varna-agni
	Vardhani, it helps to
	nourish the
	endometrial lining. It
	also contains
	minerals such as
	calcium, iron etc.
	which are essentially
	required for a healthy
	pregnancy and
	thereby creating
	healthy progeny.
Lactation	Due to its qualities
RIM	like Madhura, balya,
	bringhana and
	protein content it
	proves to be
	beneficial in poor
	lactation and hence
	stands to be a good
	galactogogue.
L	

## **CONCLUSION**

Menstruation is a normal physiological phenomenon which forms the backbone of fertility and production of a healthy progeny. The change in our diet and lifestyle i.e mithya ahara-vihara have host brought various in of gynaecological problems. Hence, through the above study it can be inferred that Shatapushpa can be an effective, low cost, easily available single drug therapy for maintenance of

of the normal physiology female reproductive system and treatment of various menstrual disorders. This single drug may be used in various forms such as taila, churna, or in compound formulation depending on the type and severity of the disease. Therefore. Shatapushpa may be incorporated as a drug remedy for female reproductive problems in our health care system.

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