

WORLD JOURNAL OF PHARMACEUTICAL RESEARCH

SJIF Impact Factor 8.084

Volume 9, Issue 11, 480-489.

Review Article

ISSN 2277-7105

REVIEW ARTICLE ON USES OF SHATAPUSHPA IN VARIOUS FORMS IN STRI ROGA AND PRASUTI TANTRA

¹*Dr Anjali Sharma and ²Professor (Dr.) Sujata kadam

¹PG Scholar, All India Institute of Ayurveda.

²Dean and Head of the department of Stri roga and Prasuti tantra, All India Institute of Ayurveda.

Article Received on 02 August 2020,

Revised on 23 August 2020, Accepted on 13 Sept. 2020,

DOI: 10.20959/wjpr202011-18701

*Corresponding Author Dr Anjali Sharma

PG Scholar, All India Institute of Ayurveda.

ABSTRACT

Background: Now a day females were facing the gynecological disorders due to excessive consumption of junk food, sedentary lifestyle, faulty dietary habits and also physical & mental stress because of work load. So that HPO axis gets impaired, in spite of advances in science, management of gynaecological disorders is still not satisfactory. As hormonal and surgical treatment is having various side effects. In Ayurvedic system of medicine, there are various herbs & formulations are described by *Acharaya*, which can improve & cure these gynecological problems of females. A classical drug named

Shatpushpa described by Kashyapa in a separate chapter having properties like Ritupravartini, Yonisukra vishodhini, Putraprda, Viryakari etc so it is used in Anartava (amenorrhea), Viphala Artava (without fruit means no ovulation so can't conceive), Atyartava (menorrhagia), Alpaartava (hypomenorrhoea), Kashtartava (dysmenorrhoea), Rajonirvrutti (menopause), Yoni-shushkata (dryness of vagina), Vandhya & Shandhi (women not having child / can't conceive), Rudhira Gulma (useful in uterine fibroids) and yonishoola (pain in vagina). [1] **Materials and methods:** Selected Ayurveda classics, electronic databases, namely PubMed, Digital helpline for Ayurveda Research Articles and so on are searched to compile the evidence of use of shatapushpa in gynaecological disorders. **Results:** shatpushpa is used in the preparations of more than 56 Ayurvedic preparations, which include dashmoolarishta, kumaryasav, narayana taila, mahanarayan taila, phalghrita, sheetkalyanghrita and so on. Various research studies at present reveal many major chemical constituent present in this drug are useful as described by maharishi Kashyapa. Shatapushpa (Anethum sowa) is one of the important medicinal plant having many therapeutic uses.

Acharya Kashyapa had described it as nectar for women having gynaecological disorders. **Conclusion:** *shatapushpa* can be used to cure many gynaecological disorders like *artava kshaya*, *anartava*, *vandhyatav*, *kashtaartava*, and so on. It can be used in form of *nasya*, *pana*, *abhyanga* and *basti*. [2]

KEYWORDS: Shatpushpa, gynaecological disorder, Artava, Anethum sowa.

INTRODUCTION

Now a day females were facing the gynecological disorders due to excessive consumption of junk food, sedentary lifestyle, faulty dietary habits and also physical & mental stress because of work load. So that HPO axis gets impaired, in spite of advances in science, management of gynaecological disorders is still not satisfactory. As hormonal and surgical treatment is having various side effects. In Ayurvedic system of medicine, there are various herbs & formulations are described by *Acharaya*, which can improve & cure these gynecological problems of females. A classical drug named *Shatpushpa* described by Kashyapa in a separate chapter having properties like *Ritupravartini*, *Yonisukra vishodhini*, *Putraprda*, *Viryakari* etc so it is used in *Anartava* (amenorrhea), *Viphala Artava* (without fruit means no ovulation so can't conceive), *Atyartava* (menorrhagia), *Alpaartava* (hypomenorrhoea), *Kashtartava* (dysmenorrhoea), *Rajonirvrutti* (menopause), *Yoni-shushkata* (dryness of vagina), *Vandhya & Shandhi* (women not having child / can't conceive), *Rudhira Gulma* (useful in uterine fibroids) and *yonishoola* (pain in vagina).^[3]

Anethum Sowa Kurtz. Belong to Apiaceae/Umbelliferae family. Anethum sowa also known as Peucedanum graveoles / Shatapushpa or Dill. The common name 'Dill' arises from Norse word Dilla which means soothe. This herb grows annually glabrous and aromatic herb native to the eastern Mediterranean region and western Asia. Indian dill is grown in the states of Rajasthan, Gujarat, Madhya Pradesh, Maharashtra and Andhra Pradesh for its seeds, which are used for the extraction of oil and are exported as such to earn foreign exchange. Rajasthan shares 48% of total dill production. The seeds and the leaves used for curing many disease. Anethum sowa seed has medicinal uses as a diuretic, carminative antibacterial, antiseptic, antispasmodic, cardio depressant, digestive, blood sugar lowering, blood pressure lowering, breast milk stimulating, galactogogue, and laxative properties. Two species of dill: European dill (Anethum gravedens L.) and Indian dill (Anethum sowa Roxb.). Anethum sowa is rich in apiol whereas Anethum graveolens is rich in carvone. Anethum seeds are used as a spice and its fresh and dried leaves called dill weed are used as condiment and tea. The aromatic herb is

commonly used for flavoring and seasoning of various foods such as pickles, salads, sauces and soups.

Pharmacology^[5]: The essential oil from seeds and its constituents viz carvone, dihydrocarvone, limonene, dillapiol showed antifungal activity. D and L- Limonene showed antidermatophytic and antibacterial properties. The seeds exhibited antibacterial activity. The aqueous extract of seed showed mutagenicity to salmonella typhemuram. The 50 per cent ethanolic extract of the fruits exhibited hypoglycemic effect in rats.

Major functions: antifungal, anti bacterial, antispasmodic.

Safety aspects: dillapiol, found in essential oil of *anethum sowa* is known to be abortificient and toxic to both liver and kidney.

The LD50 of the 50 percent ethanolic extract of the fruit is 1000mg/kg ip in mice.



 $\textbf{Botanical name}^{[6]} \text{ -} Anethum \ Sowa \ Roxb. ex \ Flem, \ Anethum \ graveolens \ Benth$

Family- Umbelliferae or Apiaceae

Kingdom - Plantae

Division - Magnoliophyta

Class - Magnoliopsida

Order - Apiales

Family - Apiaceae

Indian Names - Hindi, Bengali, Punjabi, Urdu (Sowa, soya), Gujrati (Surva), Kannada (Sabastya), Marathi (Surva), Sanskrit (Shatapushpa), Telugu (Sabasige). English name - Dill Anet Arabic - Shibth/ Habu.

Synonyms: Sathapushpa, Chhatra, Shatahwa, Madhura, Mishi, Carvi, Atilambi, Samhitchhatrik, Sitachhatra, Peetika Avakpushpi, Shipapara, Ghosh, Magdhi, Yonishulaghni. Classifications of shatapushpa in various Nighantus and text.

Charak Samhita	Aasthapanopag Anuovashanopag	25-26
Sushrut Samhita	Kapha Shanshaman	9
Kashyap samhita	Shatapushpa Shatavari kalpadyaya	280-281
Dhanvantri Nighantu	Shatpushpadi varga	1 – 3
Raj Nighantu	Shatavahavyadi Varga	10 – 13
Kaiydev Nighantu	Aushadi Varga	1186 – 1191
Bhav prakash Nighantu	Haritkyadi varga	89 – 91
Madanpal Nighantu	Shuthyadi Varga	24-25
Shodal nighantu	Shatpushpadi varga	259,289
Astang Nighantu	Shaymadi varga	266
Adarsh Nighantu	Jeerkayadi Varga	Pg.N.688-690

Properties^[7]

Rasa: Madhura, Katu, Tikta

Guna: Laghu, Ruksha, Tikshna

Virya: Ushna

Vipaka: Katu

Doshaghnta: Kaphavatashamaka

Karma: Artavajanana

MATERIAL AND METHODS

Original articles and research papers in published journals and in Pubmed central on *Shatpushpa* in relation to gynecologocal diseases were studied out and related articles and papers were taken into consideration. Ayurveda literature including samhitas and nighantu related to *Shatpushpa*) was also studied. Information regarding gynaecological disorders was collected from modern and Ayurveda literature. All the literature was especially studied for medicinal use of *Shatapushpa* in gynaecological diseases and taken in to consideration. More emphasis has been given on clinical trials carried out on *Shatpushpa*. Finally results were obtained from all the data and literature studied.

RESULTS AND DISCUSSION

Therapeutic use^[8]

External application

- Shushka Arsha fomented with lumps of Vacha and Shatapushpa mixed with unctuous substances.
- In *Vata* predominant *Vata Rakta* Paste of linseed, castor seeds and *Shatapushpa* seeds pounded with milk is used for local application to remove *Shoola*. (Charaka samhita *Vatarakta chikitsa*)
- Vishahara lepa: Paste of Shatpushpa mixed with rock salt and Ghee is used for local application to counteract bees poison (Bhela Samhita Visha /216)
- *Aprapatana* tampon soake with oil prepare with *shatapushpa*, *kustha,madanphala* and *hingu* should be given (charak sam sha 8/41)

Internal

- Bastikarm Acharya Charaka firstly described shatapushpa in asthapanopaga as well as anuvasanopaga mahakashaya & also in dhanvantari nighuntu. It is videly used as a kalka in basti therapy, it helps to regularise the apana vata
- Asthapana basti with shatapushpa, vaca, kustha, kana and sarsapa mixed with oil and salt is used for aparapatna (ashtang hridya sha 1)
- Agnimandhya, Aruchi & Vamana Because of its Usna, Tikshna. Pittkrit, Deepana, pachana, Ruchidayaka, Vatanulomana properties.
- Udarshoola, Krimi, jwara, vrana, netraroga etc.
- Rasayana: Shatapushpa promotes intellect with-in a month when given with honey and Ghee. [9]
- According to Acharya Kashyapa it is used in different conditions with different Anupanas; [10]
- For Agnivridhi Madhu
- Rupa Vardhan Ksheer & Sarpi
- Bala Vardhan Taila
- In *Pleeha roga Katu taila*
- Kamala, Pandu & Shotha Mahisha ksheer & Mutra
- Kushti– Khadirava

• Gulma – Eranda taila. Some formulation which contains shatapushpa as ingredient frequently used in striroga and Prasuti tantra.

Sr no.	Formulation	Dosage	Adhikar	Part used	Reference
1	Dashmoolarishta ^[11]	arishta	Vandhyatva,pushtikarak, teja and shukra,balaprad	phala	Sharangdhar,madhyam 10
2	Narayan taila ^[12]	taila	vandhyatava	phala	Sharangdhar, madhyam khanda9
3	Kumaryasav ^[13]	asava	Udarroga shukradosh nashnam	phala	Sharangdhar madhyam khanda10/18-27
4	Dhanvantar tailam ^[14]	taila	Sarvaroghar chiktsa	phala	Ashtanga hridya
5	Phalaghrita ^[15]	ghrita	vandhyatav	phala	Sharangdhar.madhyamkha Nda9/80-87
6	Sheetkalyan ghrita ^[16]	ghrita	Alpapushpa,vandhuyatav	phala	Yog.rat. pra. Rog.chi
7	Brihatkushmand avleh ^[17]	avleh	Vrishya, brihana, balavardhana	phala	Bhav. Chi. 9/58-71
8	Shatapushpa churna, Shatapushpa taila ^[18]	Churna,t aila	artavajanak	phala	Kashyap shatapushpa Shatavari kalpa5/23-25
9	Bala taila ^[19]	taila	vandhyatav	phala	Ashtanga sangrah
10	Maharasnadi kashyam ^[20]	kashaya	vatashamak	phala	Sharangdhar. Sam.madh.2/89-85

Clinical studies conducted on shatapushpa (anethum sowa. linn)

C N	T 494 49	A 43	T 7	TD: A	0 1 1
S.No.	Institution	Author	Year	Title	Conclusion
1.	IPGT & RA Jamnagar	Der Chaya	2002	A Comparative clinical study of Shatapuspadi vati and Krishna Tila Kwatha on artava kshaya	Kwath Therapy (Gr. B) was found to be more effective than vati (Gr. A). Maximum relief was achieved in duration of menstrual cycle (80.97%), intermenstrual cycle (76.47%) amount of menstrual blood (76.46%) painful menses (95.5%).
2.	Gopabandhu Ayurveda college and hospital, Puri.	A. Ghose and P. K. Panda	2010	Clinical efficacy of Shatapushpa (Anethum sowa Kurz.) powder in the management of Artava kshaya (oligomenorrhoea)	The statistical evaluation of clinical study revealed that significant results were observed in painful menstrual bleeding, scanty menstrual bleeding and irregular menstrual cycle.
3.	SMSS Ayurved Rugnalaya & Research Centre, Aurangabad.	Nilesh Y. Bediskar Sandhya M. Yennawar	2017	Clinical evaluation of Shatapuspa Shatavari churna and O.C pills in management of artavakshaya w.s.r to certain menstrual disorders	Shatapushpa Shatavari Churna is more effective on Yoni Vedana, Artava strava Pramana and Artava strava kalvavadhi.
4.	IPGT & RA	Krupa	2011	A clinical study on	20% patient ovulated in whom

	Jamnagar	Patel		polycystic ovarian disease and its management by Shatapuspa tail Matra basti and Pathadi kwath.	Shatapuspa taila matra basti was given. 33.33% patient got complete remission of disease.
5.	SVPRAMC Badami, Bagalkot Dist, Karnataka State	Dr. Parvati Birajdar	2016	A clinical evaluation of vandhyatwa (anovulation) with Shatpuspa taila nasya and churna orally	Overall result among 30 <i>Vandhyatwa</i> patients 18 (60.00%) and 12 (40.00%) which are rated as Fair and good response respectively, and considered as to be considered as a best treatment in controlling, relieving and curing <i>Vandyatwa</i> condition.
6	M.A.Podar Ayurved Medical Hospital	Dr.Bhagya shri Mahavir Khot. Dr.Meena Dipak Lad. Dr.Arun Jagannath Patil. Dr.Anil Chindhu	2013	"A Clinical Study To Evaluate The Efficacy Of Shatapushpa Tail Uttarbasti & Shatavari Tail Uttarbasti With Herbal Compound In The Treatment Of Anovulatory Cycle"	Shatpushpa and Shatavari both are contains natural phytooestrogen therefore its increases endometrial thickness & menstrual flow.
7	National Institute of Ayurveda (N.I.A.) Hospital, Jaipur.	Dr. Kamble Snehal Bhimarao	2019	The Comparative Clinical Study of Shatapushpa Churna and Tilshelukarvi Kwatha on Artava Kshaya Dr. Kamble Snehal Bhimarao	Combined use of <i>Shatapushpa Churna</i> and <i>Tilshelukarvi Kwath</i> is effectively helps in managing the disease <i>Artava kshaya</i> .
8	DGM Ayurvedic Medical College Gadag	Nidhi Garg Akhil Jain	2016	evaluation of efficacy of shatapushpa phala churna in rajakrichra with special reference to primary dysmenorrhoea	Shatpushpa showed highly significant result in subjective Parameters in curing dysmenorrhea
9	Qom University of Medical Sciences of Iran.	Reza Heidarifar, Nahid Mehran,	2014	Effect of Dill (Anethum graveolens) on the severity of primary dysmenorrhea in compared with mefenamic acid: A randomized, doubleblind trial	Comprising the VAS showed that the participants of Dill and mefenamic acid groups had lower significant pain in the 1 st and the 2 nd months after treatment
10	Masshad university of medical science, Iran	Samira Ebrahimza deh et al	2012	An investigation of effectiveness of oral Dill extracts on postpartum hemorrhage. J Women Midwifery Infertily Iran	Dill seeds can be used for the augumentation of uterine contraction in low risk women in labour and also prevents post pregnancy complication.

<u>www.wjpr.net</u> Vol 9, Issue 11, 2020. 486

All these above studies prove that shatapushpa is useful in gynaecological disorders like *kashtaartava* (dysmenorrhoea (Especially in Primary dysmenorrhoea), Post partum haemorrhage, for increasing labor pains, *artava kshaya*, *vandhyatav* (infertility), and polycystic ovarian disease. *Shatapushpa* oil is beneficial in form of *nasya pana abhyanga* and *basti. Shatapushpa*.

- 1 Because of *Katu Rasa*, *Katu Vipaka* and *Ushna Veerya* this drug will help in *Rajapravartana*.
- 2 Because of *Ushna Guna* and *Vata Shamaka* property *Shatapushpa* will help in *Shamana* of *Shoola*.
- 3 *Kapha Shamaka* properties will help in alleviating *Kapha Dosha*, which will relieve obstruction to flow of *Raja*.
- 4 Because of its *Anulomaka Guna* it will cause *Anulomana* of *Doshas* and *Malas* and it will change *Gati* of *Apana Vayu* from *Pratiloma* to *Anuloma* that in the turn will help in its proper functioning i.e. *Pravartana of Raja* and *Mala*.
- 5 Because of *Rochana* and *Agnivardhaka* properties it will help in *Ama Pachana* and *Ama* is considered as *Moola* of all the *Vyadhis*.
- 6 Because of *Rasayana Guna* and *Madhura Rasa* it alleviates *Vata* and increases the *Rasa Dhatu* so its Upadhatu Artava also increases.

Researchers and literature have proven that it has capacity to increase the production of milk. It is also rich source of Phytoestrogen^[21] hence can be effectively used in menopausal females for symptoms like hot flush, vagintis, anxiety and osteoporosis Phytoestrogens acts as anti estrogenic in breast and endometrial tissue, so when used in proper ways these can be beneficial in breast CA, Endometrial CA. Along with this it is also beneficial as antioxidant, antihyperlipidemic^[22], anti-inflammatory.^[23] and antimicrobial.^[24] Seed oil is also effective in stomach illnesses, food digestion, stopping hiccup, relieving of pain.

CONCLUSION

In present review it is clear that *shatapushpa* has properties which are useful for treating many gynaecological disorders. It can prove key plant especially in the management of *artavakshaya*, *kashtaartava*, *vandhyatava* and post partum hemorrhage.

So it is concluded that with various preparations *shatpushpa* can be effectively used in the management of various gynaecological disorders. Also there is a great scope for development of new preparations of *shatapushpa*.

REFERENCES

- Vriddha Jivaka, Kashyapa Samhita or (Vriddha Jivakiyam Tantra), Pandit Hemaraja Sharma, The Vidyotini Hindi commentary, Sri Satyapala bhisagacharya, Chaukhamba Sansktit Sansthan, Varanasi, Edition: Reprint, 2015, shatapushpa-shatavari kalp adhyaya pgno. 281.
- 2. ibidem, shatpushpa Shatavari kalp adhyaya shloka 25, pg no. 282.
- 3. Ibidem.
- 4. Directorate of arecanut and spices development (ministry of agriculture and farmers welfare http://spicenurseries.in/variety-description.php?View=description&PL=T257e44aa9d5bade97bafMc74d97b01eaeY
- 5. Quality standards of Indian medicine plants, ICMR New Delhi, 2006; 4: 18-27.
- 6. Acharya Priyavratt Sharma Dravyaguna Vigyana, Chaukhamba Bharti Academy Varanasi volume 2nd Reprint, 2011; Plant165 page no.403.
- 7. Acharya Priyavratt Sharma Dravyaguna Vigyana, Chaukhamba Bharti Academy Varanasi volume 2nd Reprint, 2011; Plant165 page no.403.
- 8. P.V Sharma, Classical uses of medicinal plants, 1 st edition, Varanasi, Chaukhamba Vishvabharati, 1996; 354.
- 9. Vriddha Jivaka, Kashyapa Samhita or (Vriddha Jivakiyam Tantra), Pandit Hemaraja Sharma, The Vidyotini Hindi commentary, Sri Satyapala bhisagacharya, Chaukhamba Sansktit Sansthan, Varanasi, Edition: Reprint, 2015, shatapushpa- shatavari kalp adhyaya shloka no.18 pgno. 281.
- 10. Vriddha Jivaka, Kashyapa Samhita or (Vriddha Jivakiyam Tantra), Pandit Hemaraja Sharma, The Vidyotini Hindi commentary, Sri Satyapala bhisagacharya, Chaukhamba Sansktit Sansthan, Varanasi, Edition: Reprint, 2015, shatapushpa-shatavari kalp adhyaya pgno.281.
- 11. Shrangadhara, Sharangadhra Samhita, Dipika Hindi commentary by Pt. Parashuram shastri vidyasagar Chaukhamba Subharti Prakashan, Varanasi, 1st edition, 2013; 239.
- 12. Shrangadhara, Sharangadhra Samhita, Dipika Hindi commentary by Pt. Parashuram shastri vidyasagar Chaukhamba Subharti Prakashan, Varanasi, 1st edition, 2013; 223.
- 13. Shrangadhara, Sharangadhra Samhita, Dipika Hindi commentary by Pt. Parashuram shastri vidyasagar Chaukhamba Subharti Prakashan, Varanasi, 1st edition, 2013; 235–236.
- 14. Sahsraayogam by Dr. K. Nishteshwar & Dr. R. Vidyanath, chaukhamba Sanskrit series office Varanasi,4th edition, 2014, taila prakarana pg no. 109.

- 15. Shrangadhara, Sharangadhra Samhita, Dipika Hindi commentary by Pt. Parashuram shastri vidyasagar Chaukhamba Subharti Prakashan, Varanasi, 1st edition, 2013; 235–236.
- 16. Yogaratnakara with Vidyotini hindi commentary by Vaidya Laxmipati Sastri, chaukhambha prakashan, reprint, 2015; 400.
- 17. Bhavaprakasha Nighantu of Sri Bhavanishra by Sri brahmasankara Mishra, First Part, Chaukhamba Sanskrit Sansthan, Varanasi, 11th edition-2007; 218.
- 18. Vriddha Jivaka, Kashyapa Samhita or (Vriddha Jivakiyam Tantra), Pandit Hemaraja Sharma, The Vidyotini Hindi commentary, Sri Satyapala bhisagacharya, Chaukhamba Sansktit Sansthan, Varanasi, Edition: Reprint, 2015, shatapushpa-shatavari kalp adhyaya, 281.
- 19. Vrddha Vagbhatta, Ashtanga Samgraha, Shashilekha Sanskrit Commentary by Indu, translated by Prof. Jyotir Mitra, edited by Dr. Shivprasad Sharma, Chaukhamba Sanskrit Series Office, Varanasi, Reprint, 2012; 571.
- 20. Shrangadhara, Sharangadhra Samhita, Dipika Hindi commentary by Pt. Parashuram shastri vidyasagar Chaukhamba Subharti Prakashan, Varanasi, 1st edition, 2013; 156.
- 21. Phytoestrogens and their health effect, Desmawati Desmawati and Delmi sulastri, PMC, Open Access Maced J Med Sci, 2019; 7(3): 495-499.
- 22. Yazdanparast R, Alavi M. Antihyperlipidaemic and antihypercholesterolaemic effects of Anethum graveolens leaves after the removal of furocoumarins. Cytobios; 2001; 105(410): 185-191.
- 23. Naseri M, Mojab F, Khodadoost M. The study of anti-inflammatory activity of oil-based dill (Anethum graveolens L.) extract used topically in formalin-induced inflammation male rat paw. Iranian Journal of Pharmaceutical Research, 2012; 11 (4): 1169-117.
- 24. Kaur G J, Arora D S. Antibacterial and phytochemical screening of Anethum graveolens, Foeniculum vulgare and Trachyspermum ammi. BMC Complement. Altern. Med, 2009; 9: 30.