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Shankhapushpi from the view of Samhita: A literary review

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ABSTRACT:

Shankhpushpi is one of the significantAyurvedicmedicine which helps in enhancing memory. According to Ayurveda, Shankapushpi is indicated as Medhya (brain tonic), digestive, appetite stimulant and carminative for digestive system. It has cardio-protective properties and it controls hypertension. It is also a natural tonic for mental development of children. This Review particularly deals with the Ayurvedic importance along with the pharmacological aspects of Convolvulus Pluricaulis Choisy. Though various indications are in use, controlled trials are needed to determine its real efficacy. The shankapushpi plant, its properties, mechanism of action and clinical uses are briefly reviewed in this article.

KEYWORD: Shankapushpi, Medhya, Convolvulus pluricaulis,

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INTRODUTION:

Shankhapushpi is pungent, alternative tonic, bitter, brightens intellect, improves complexion, increases appetite, useful in bronchitis, biliousness, epilepsy teething troubles of infants etc. It is also a natural tonic for mental development of children.Onlv scattered information exploring the curative potential of CP is available, and there is a need to assemble it. Therefore, to revalidate the Ayurvedic therapeutic claims of Shankhapushpiin light of contemporary experimental andclinical studies, this study was carried out. Information was extracted from various Ayurvedic literature viz. Brihattravi (CharakaSamhita, Sushruta Ashtanga Samhita and *Hridaya*) and Nighantu. Online studies available on Convolvulus pluricaulis Choisy published Pubmed, Scopemed, alsorationally reviewed and documented in this review. The current work appears to be the first of its kind and can be considered reference standard for future studies.

MATERIALS AND METHODS

Search Criteria

Information collected from various Nighantu, Brihattrayi (CharakaSamhita, Sushruta Samhita and Ashtanga Hridaya) and published articles, of whichfew review articles and references thereof were collected.

ShankhapushpiinBrihattrayi

All *Brihattrayees* i.e. *Charaka*, *Sushruta* and *Vagbhatta Samhitas* mentioned *Shankhapushpi* as a vital ingredient in various memory enhancer formulations along with other therapeutic attributes. Moreover, *Caraka* has expounded

The Medhya Guna of Shankhapushpi as 'Medhya Visheshena cha Shankhapushpi,

Sushrutahas considered Vegavati herb similar to Shankhapushpi. Commentators of Vagbhatta, Induhas attributed the synonym Supushpi. Chandra has also named Shankhapushpi as Shankhakusuma.

Shankhapushpiin Nighantu

Dhanvantari Nighantu describes

Rasa Katu(pungent), Kashya (astringent)

Guna Guru (heavy), Sara (unstable),

Snigdha (oily), Pichchila (sticky)

Virya Ushna (hot)

Vipaka Madhura (sweet)

Doshakarma Tridoshahara

Bio-energetic Properties

Rasa Katu (pungent), Kashya (astringent)

Guna Guru (heavy), Sara (unstable), Snigdha (oily), Pichchila (sticky)

Virya Ushna (hot)

Vipaka Madhura (sweet)

Doshakarma Tridoshahara

SCIENTIFIC CLASSIFICTION:

Kingdom	Plantae
Division	Magnoliophyta
Class	Magnoliopsida
Order	Solanales
Family	Gentianaceae
Genus	Convolvulus
Species	Pluricaulis

Habitat

Shankhapushpi is found in regions of Southern India, Sri Lanka,

Tropical Africa and South-Eastern Asia. It is ahorizontal-spreading, perennial wild herb commonly found on sandy or rocky land under xerophytic conditions and extensively grows on the wasteland in the plains of Punjab, Bihar and Chhota Nagpur India. Flowering begin September and October, and flowers vary from white to light pink in colour.

Morphology

Shankhapushpi is a perennial herb and detailed morphology is as following:

Branch: prostrate and can be more than 30 cm long

Stem: ascending or prostrate, 10-40 cm long, densely velvety

with spreading hairs, Leaves: Elliptic in shape (2 cm), linear to oblong, small and sub-sessile, nearly stalkless,

Description Shankhapushiin of Nighantu

Kaiyadeva Nighantu

Aushadhi Shvamadi Gana. Rasa -Katutikta,

Guna -sara, Virya -anushna

Properties-Swarya ,rasayan,Varnya medhya, balyaetc.

Indications-Luta, kushtha, bhuta, visha, krimi Misharaka Varga

Dhanvantari Nighantu Rasa -Katu, tikta,

virya -ushna

Indications - Kasa. visha, apasmara, medhya, rasayana

Paryayaratnamala: Synonyms - Santanika, mechaka, medhya, ashu

BhavaprakashaNighantu

Mishravarga/GuduchyadiVarga

Rasa -Kashaya,guna -sara,virya -ushna

Properties-Medhya, vrishya, smriti, kanti, bala, agni

Indications-*Manasaroga*, kushtha, krimi, visha

Raja Nighantu

Guduchyadivarga Rasa -Tikta, guna -hima Properties-Medhya, swarakaraini Indications-Grahabhutadidoshagna, vashikarana

RajavallabhaNighantu

Shankhapushpi Gana Krimivishapaha, properties or indications are mentioned

Phytochemistry

The extract of this botanical contains the alkaloids convolvine. convolamine. phyllabine, convolidine, confoline, convoline, subhirsine, convosine convolvidine along with scopoline and β-sitosterol as major phyto constituents. Ethanol, extracted from Shankhapushpi, helps in reducing total serum cholesterol, phospholipids and some types of harmful fatty acids from body. The specific pharmacological action of convolvine has been found to block M2 and M4 cholinergic muscarinic receptors. It was also found that muscarinic memory ameliorates enhancer that cognitive deficits in Alzheimers disease.

Chemical Constituents

Research into the chemical constituents in Shankhpushpi had found presence carbohydrate-D-glucose,

maltose, rhamnose, sucrose and starch, and certain other bio-chemicals which include glacial acetic acid,

scopoletin, three coumarins, β -sitosterol, tropane alkaloids, kaempferol, convoline, convolidine,

convolvine, confoline, convosine, palmitic acid (66.8%), linoleic acid (2.3%), and straight chain

hydrocarbonhextriacontane, 20-oxodotriacontanol, tetratriacontanoic acid and 29-oxodotriacontanol6.

Health Benefits

Reduces gastric ulcers: Gastric ulcers are generally caused when the stomach produces more acidthan required and in cases where the eating habits are irregular. In such cases, excess acid can rupture the stomach lining from the inside causing lesions or ulcers. Studies have shown that Shankhpushpi is a very good herb that can reduce gastric ulcers by healing the lesions faster and also by strengthening the mucus membranes and mucosal cells.

Reduces stress: Classically, Shankhpushpi was one of the few drugs that were used to reduce stresslevels and put the brain in a relaxed state. Studies on animals with induced stress showed that Shankhpushpi possesses stress and depression reducing properties. Further investigations into the process of stress reduction have to be done.

Neurotoxicity levels: Shankhpushpi is not only a stress reliever and an anti-depressant, but

it can also reduce the effect of toxins in the brain. Studies on lab animals administered with

aluminium chloride showed an increased level of neurotoxicity. But administering Shankhpushpi

extracts reduced neutrotoxicty to a significant extent. Further investigation into the neurotoxicity

reducing effects has to be taken up.

Improves memory: Simple memory tests such as pole-climbing apparatus, passive avoidance

paradigm and active avoidance paradigm tests were conducted on lab animals which showed an

improvement in memory after administering with shankhpushpi extracts.

Analgesic properties: Pain killing or analgesic is one of the important properties of shankhpushpi plant. These pain killer properties are very much useful in dealing with rheumatic pains, arthritis, osteoarthritis, etc. The pain killer effects produced by Shankhpushpi were very similar to a morphine induced ones.

Hyperthyroidism: Excess of thyroid hormones can lead to hyperthyroidismdisease. Hyperthyroidism can be reduced by taking shankhpushpi extracts on a regular basis.

AntidiabeticIt is an effective remedy for treatment of diabetes synthetic drug requirement was also reduced by the herb.

Main classical uses

Shankhpushpi is used in many formulations in Ayurveda: Shankhpushpipanaka, Medhyakashay.

Mainly, shankhapushpiis used as a brain tonic. It is one of the best in improving memory. The whole plant of shankhapushpi is used in medical treatment. Its use also prevents memory loss.

It is also beneficial in rejuvenation therapy and works as psycho-stimulant and tranquilizer.

It is also used as one of the most important ingredients in the treatment of hypertension, hypotension, anxiety stresses e

Shankhapushpi has an effect on overall health and promotes health and weight gain.

It is also one of the best herbs that are used for enhancing beauty and helps in nourishing all the layers of skin.

It also helps in removing certain types of fatty acids that are harmful for the body.

It also helps in reducing the level of cholesterol in blood, including triglycerides, phospholipids and fatty acids.

Shankhpushpi is helpful in improving the nerve tissues and bone marrow quality.

The studies on shankhapushpi have also put forward that it is beneficial in remedying hypothyroidism.

The herb serves to induce a feeling of calm and peace, promotes good sleep and brings relief in

anxiety and mental fatigue. It brings a significant reduction in anxiety levels

DISCUSSION

From the classics of *Brihattrayi* and *Nighantu*, it is clear that *Shankhapushpi* has been used to treat a wide range of diseases.CP is an astringent, hot aphrodisiac

and a nervine tonic; it improves strength, digestive power, complexion, voice, and it also cures intestinal worms, animal poisoning, skin disease, cough, dyspnea, diabetes, dysuria

and uterine disorder. It is also helpful in epilepsy, insomnia,

heart disease and haemetemesis. CP must be analyzed clinically in

wake of ethnomedicinal usage. Since no negative CP-drug interaction is reported till date,

more studies in this area remain yet to be accomplished. To summarise the scattered knowledge in ancient and contemporary literature, it is needed to highlight the entities which are worthy of further

Investigation leading to the drug developments.

CONCLUSION

Shankhapushpi has antioxidant laxative activities and is also used as brain and nervine tonic. It is also indicated to be used in anxiety, neurosis, epilepsy, insomnia, burning sensation, oedema and urinary disorders. The drug possesses multiple-target actions and several therapeutic claims by virtue of its various active phytomolecules. Thus. shankapushpi has wide spectrum of the properties and uses, some of them could myths and some of them could be real magic. In future, controlled studies are required to prove more effectiveness of shankapushpi under various conditions.

REFERENCES:

- 1. Acharya YT. CharakaSamhita. 7th ed. Varanasi: ChaukhambhaOrientalia; 2002.
- 2. Yoganarasimhan SN. Medicinal Plants of India.Vol. 2.Bangalore:Cyber Media; 2000.
- 3.Acharya YT. SushrutaSamhita. 7th ed. Varanasi: ChaukhambhaOrientalia; 2002.
- 4. Goyal PR, Singh KP. Shankhpuspi (Evolvulusalsinoides Linn) [J]a medicinal herb.Int J Mendel 2005

- 5. Sankhapuspi, TheAyurvedic Pharmacopeia of India, Part 1.
- 6. Hetal Amin, Vyas, Harisha, Shukla, A Comparative Pharmacognostical and Phytochemical Study of Shankhpushpi (Convolvulus pluricaulis Linn) tablet with Bhavana and witout Bhavana, International Journal of Research in Ayurveda & Pharmacy)
- 7.A Review on Traditional Indian Herbs *Convolvulus pluricaulis* Linn and its Medicinal Importance by Urvashi Chandel and Shivali Kharoliwal.

