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A CLASSICAL REVIEW STUDY ON HARIDRA (CURCUMA LONGA LINN.)

Baldev Singh*¹, Parshant Pareek² and Dr. Aditi Chauhan, M.D (AY)³

¹Resident Intern, Babe Ke Ayurvedic Medical College and Hospital, Daudhar, Moga, Punjab, India.

²Resident Intern, Babe Ke Ayurvedic Medical College and Hospital, Daudhar, Moga, Punjab, India.

³Assistant Professor, Department of Kayachikitsa, Babe Ke Ayurvedic Medical College and Hospital, Daudhar, Moga, Punjab, India.

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*Corresponding Author Baldev Singh

Resident Intern, Babe Ke Ayurvedic Medical College and Hospital, Daudhar, Moga, Punjab, India.

ABSTRACT

Curcuma longa linn. or Haridra commonly known as turmeric is a plant of zingiberacea family which is vital part of various ayurvedic formulations like Chandraprabha vati, Mahatikta ghrita, Haridra Khand etc. The word Haridra signifies its golden color or hue. Haridra has various pharmacological properties like anti-inflammatory, antibacterial, antidiabetic, anti- helminthic, hepatoprotective, hypolipidemic, antihistaminic and antifungal properties. Ancient Ayurvedic texts describes Haridra in treatment of various disorders like prameha, krimi roga, aruchi, Pandu, Visha roga etc. This article will provide a classical insight about morphological features, its pharmacological properties and therapeutic uses of Haridra.

KEYWODS: Haridra, Ayurveda, Curcuma longa, curcumin.

INTRODUCTION

Haridra is an important herb used in medicine as well as in rituals. It is a well known spice in Indian culinary used in various recipies. Therefore it combines both diet and medicine. Many of its functions have been discovered by modern science but before this its high medicinal values has been described in ancient ayurvedic text. In *Charaka Samhita*. Sutrasthana it was mentioned in, Lekhaniya, kustaghna, kandughna, krimighna gana, in Chikitsasthana it is used in prameha chikitsa, arshas chikitsa etc. In Shushruta Samhita Shushruta mentioned

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Haridra in Sutrasthana in Haridradi gana, Mustadi gana, Sleshma samshamana varga. Its prayoga in different rogas have been mentioned in Chikitsasthana and Uttaratantra. In Astanga Sangraha^[3] – In Haridraadi gana, Mustadi gana, Tikta skandha, Lekhaneeya dravya, Shirovirechanopaga dravya, kustaghna dravya. In Astanga Hridaya^[4] – In Sutrasthana, Haridradi, Mustadi, Tiktha skandha, Lekhaneeya dravya, Shirovirechanopaga, Kustaghna dravya and Chikitsasthana of Astanga hridaya. In kashyapa samhita^[4] – In kalpasthana and in khilasthana Haridra is mentioned as an ingredient of dhupa & also in chikitsa of a kasa, shwasa, charmadal etc. In Sangraha Kala Authors of Chakradatta, Yoga Ratnakara, Rasa Ratna Samucchaya, Bhaishajya Ratnavali, Rasatarangini etc. have mentioned this drug in their literature. In Aurvedic Pharmacopia of India and Ayurvedic Formulary of India Drug Haridra has been mentioned. Thus Haridra is one of the best herbal drug and important drug from vedic period to till today.

Table Shows the categorization of Haridra in Brihatrayi^[6]

Name of Samhita	Categorization of Haridra
Caraka Samhita	 Lekhaniya Mahakashaya Kusthaghna Mahakashaya Visaghna Mahakashaya Sirovirecana dravya Apatarpanaausadha Tikta Skandha Vamana dravya
Susruta Samhita	 Vacadi gana Haridradi gana Mustadi gana Vata samsamana Slesma samsamana Lakshadi gana Tikta varga
Astanga Hridayam	 Haridradigana Mustadigana Vacaharidradigana

METHOD AND MATERIALS

Ayurvedic and modern publications, authentic websites (PubMed, Medicinal Plants, etc.), genuine magazines, literature, manuscripts, Sanskrit Dictionary, Shabdakosha, and other sources are used to compile information about Haridra (Curcuma longa).

Taxonomical classification^[7]

• Kingdom: Plantae – plants

• Subkingdom: Viridiplantae.

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- Division: Tracheophyta.
- Class: Magnoliopsida.
- Order: Zingiberales.
- Family: Zingiberaceae / Scitaminae.
- Genus: Curcuma.
- Species: Longa.

Vernacular names

Persian Darzardi; French Curcuma; Gujarati Haladar; Hindi Bimb, Kanturi, kundaru, kanduri, Tirkol; English Indian saffron, turmeric; Kannada Arisina; Kokani Halad, ollodi; Marathi Haldi; Panjabi Haldar, halija; Sanskrit Haridra; Telugu Pasupu; Urdu Haldi; Tamil Manzal; Malayam Mannal, Marinalu; German kurkuma.

Rasa panchaka^[8]

- Rasa Tikta Katu
- Guna –Ruksha Laghu
- Vipaka –Katu
- Virya –Usna
- Dosa karma Kapha Pitta Samaka, Pittahara Due To Tikta Rasa And Kapha Nasaka,
 Varnya, Twacya, Pramehahara, Sothahara, Vranahara, Kandughna, Visaghna, Krimighna,
 Ruci Kara, Sitapittahara.

Morphological description^[9]

Root stock is big and ovoid, and sessile tubers are thick, cylindrical, and bright yellow on the interior. Leaves have a long petiole and are oblong with a narrow base. Bracts pale green; blooms pale green, as long as bracts; blossoms during wet seasons. The plant is extensively grown in warmer parts of the world, such as India, yet it is native to South Asia.

Macroscopic & Microscopic Study^[10]

Macroscopic Study

Horny Structure, shattered surface orange to reddish brown, externally yellowish to yellowish- brown, with root scars and leaf base annulations; rhizomes oval, oblong, or pyriform (round turmeric) or cylindrical, usually short branching (long turmeric); former roughly half as wide as long, later 2-5 cm long and about 1-1.8 cm thick.

Microscopic Study

A transverse section of the rhizome reveals a few layers of cork developed under the epidermis, scattered oleo-resin cells with brownish contents, and cortex with mostly thin-walled, rounded parenchyma cells. Cork is typically composed of 4-6 layers of thin-walled, brick-shaped parenchyma cells. The epidermis has thick-walled, cubical cells of various dimensions.

Phyto-chemistry^[11]

The major chemical constituents are curcuminoids (approx.6%), the yellow colouring principles of which curcumin constitutes 50-60%; essential oil (2-7%) with high content of bisabolene derivatives. Major chemical constituents: Curcumin, desmethoxycurcumin and bisdemethoxycurcumin curcumin collectively known as curcuminoids (3-6%) are major polyphenolic compounds in turmeric rhizomes. The main colouring principle of turmeric rhizome was isolated in 19th century and named as Curcumin. Its chemical structure was determined by Roughley and Whiting (1973).

Pharmacological Activity^[12]

Curcumin, the primary active component of turmeric, is a powerful antioxidant that is comparable in strength to vitamins C, E, and beta-carotene. This makes it a popular choice among customers seeking to prevent cancer, preserve their livers, and fight aging (*Rasayana*). Numerous studies have also demonstrated that turmeric (as *Lekhaniya*) inhibits the growth of many cancer cells. Numerous studies have proven that curcumin is safe for human consumption. It has been demonstrated that turmeric reduces post-surgical inflammation (*Sothahara*). It is quite effective in mending wounds (*Vrana ropak*). It protects against respiratory tract infections (impact on *Shwasa and Kasa*). Curcumin inhibits Helicobacter pylori, the bacteria that causes stomach ulcers and has been linked to stomach cancer (impact on *Aruchi, Grahani and Krimi*).

Heavy metals like lead and cadmium can bind to curcumin, which reduces their toxicity (Vishaghna).

EKMULIKA PRAYOGA^[13]

- In disorders due to change of place (*asatmyajanya* or allergic), one should Take *Haridra* pounded with sour gruel. (vai. M 1/16)
- In pandu, One should take Haridra mixed with triphala, and honey.(Su.U.44/17)

- In thirst caused by *kapha*, one should take water processed with *Haridra* and mixed with honey and sugar.(A.S.Chi 8/81)
- Prameha Haridra powder mixed with honey should be taken with the of Amalaka.(C.Chi6/26, Su.chi 11/8, A.S.Chi 14/5, A H Chi 12/5) juice
- Decoction of *Haridra* and *DaruHaridra* is specific remedy of *Pistameha*.
- In treatment of *Kushta*, *Haridra* is given with the cow^cs urine for a month.(Bhela samhita.Chi 6/56)
- Sleepada- Haridra mixed with Jaggery should be taken with cow urine. It destroys Filaria
 & also ring worm.(Vru,M42/24, Bha P Chi 45/14)
- Vatarakta Decoction of Haridra & Guduchi mixed with honey should be taken in Vatarakta predominant in kapha.(Bh. P Chi 29/79)
- By taking *Haridra* & Jaggery in equal parts with sour gruels *ashmari* passes away. (Vangasena Ash.45)
- Cow"s urine mixed with paste of *Haridra* should be taken, it destroys Scabies & Eczema (Vru.M 41/41)
- Ghee should be cooked separately with the paste of *Haridra*, *Nakuli & Jati*. It is efficacious in Poisoning.(A.S.U 40/127)
- Intake of ghee mixed with *Haridra*, Rocksalt & Honey is useful in poisoning by root or arrow. (Vru.M 68/18)
- *Prameha* Fresh Rhizome juice with honey should be taken.(*priya nighantu*)
- In *prameha Amalaki Swarasa* and madhu mixed with *Haridra churna* should be consumed.(cha chi 6)
- *Haridra churna* and *gudayukta kanji* is effective in *sharkara meha(vangasena)* Haridra churna with *Gomutra (shodala nighantu)*
- In Masurika, Haridra is trichurated with cincha patra and is given with cold water (shodala nighantu)

CONCLUSION

This study shows that Haridra (turmeric) can be used to treat many health problems. According to Ayurvedic texts, it has specific taste, qualities, energy, and effects on digestion that make it very useful. *Acharya Vagbhata* says *Haridra* mainly helps balance Pitta, but it also supports all three doshas (Vata, Pitta, and Kapha). Its unique properties give it many health benefits. Overall, Haridra has been valued as a powerful and versatile remedy in Ayurveda since ancient times and continues to be seen as a "golden medicine" today.

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