# WORLD JOURNAL OF PHARMACEUTICAL RESEARCH

SJIF Impact Factor 8.084

Volume 10, Issue 3, 2026-2031.

Review Article

ISSN 2277- 7105

# "ROLE OF HARIDRA (CURCUMA LONGA) IN THE MANAGEMENT OF DYSLIPIDEMIA"

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### Article Received on 14 Jan. 2021,

Revised on 04 Feb.2021, Accepted on 25 Feb. 2021

DOI: https://doi.org/10.17605/OSF.IO/4VOMX

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### **ABSTRACT**

Disorders of lipoprotein metabolism are collectively referred as Dyslipidemia. The prevalence of Dyslipidemia in India is 25-30% of urban population and 15-20% in rural population. It affects both the genders but it is more common in males. 30-40 years of age group has a tendency to high prevalence. Because of the present lifestyle Dyslipidemia has become a burning problem not only in India but worldwide. Dyslipidemia can be correlated to Medodustijanyavikaras in Ayurveda. Nidanas like atimadhura, atisiddha, guru ahara, avyama, diwaswapna leads to Medodusti. avyavaya, Santarpanajanyavikara which should be treated by Apatarpan. Ruksan, lekhan, usnagunas causes Apatarpan. Haridra (Curcuma longa) has been described as kustaghna, krimighna, lekhana,

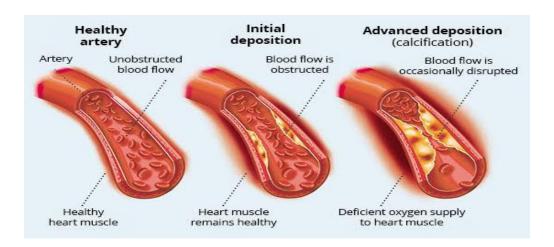
kaphanasana, varnya etc by our Acharyas. The laghu, ruksaguna, katu vipaka and usnavirya of *Haridra* stands out to be very potential as *medohara* and *lekhana*. Therefore this article reviews management of Dyslipidemia (Medodustijanya Vikara) using Haridra (Curcuma longa).

**KEYWORDS:** Haridra, Dyslipidemia, Medodushti, Santarpana, Apatarpan, Curcumin.

### INTRODUCTION

Lipoproteins are a group of soluble proteins that transport fat and other lipids in blood plasma. Disorders of this lipoprotein metabolism gives rise to Dyslipidemia which includes deficiency or overproduction of lipoproteins or in some cases both. It is a key contributor for the increase rate of morbidity and mortality in present era. This is a primary risk factor for ATHEROSCLEROSIS, CORONARY ARTERY DISEASE and peripheral vascular disease.

Dyslipidemia is characterized by higher levels of cholesterol, higher levels of triglycerides, low high density lipoprotein (HDL) and increased very low density lipoprotein (VLDL). Dyslipidemia with obesity increases the risk of cardiovascular diseases. Excessive accumulation of *medas* in various parts of the body is termed as *Medoroga* in Ayurveda. A person with pendulous movement of buttocks, abdomen, breasts, shramaswasa, swedabaddha has been characterized as Atishtula. [1] Medasis Prithvi and ApMahabhuta predominant which is similar to kaphadosa. Consumtion of snigdha(unctuous), amlaras (sour), sita (cold), madhura (sweet), Kapahavardhakaaharas with lack of exercise (avyayama), day sleep (divaswapna), achintya causes over nourishment of medodhatu but other dhatusare deprived of nourishment. [11] The increase of medodhatu leads to accumulation of *medasin* various parts of the body. As described in Charak Samhita<sup>[1]</sup> the consequences are Ayuhrasa (decreased life span) Javoporodha (decrease enthusiasm), Dourgandhya(bad odour), Kricchavyavayata (loss of libido) Swedabadha (excess perspiration), Kshutpipasadhikya (increase hunger and thirst).<sup>[1]</sup> Medodushti also gived rise to PramehaRoga. Obesity and Dyslipidemia needs serious attention today. Haridra (Curcuma longa) on the other hand is an indispensable part of Indian cuisine since ages. The properties of haridra has been described extensively in Vedas and Samhitas. This article is an attempt to review the properties of *HARIDRA* and its role in managing DYSLIPIDEMIA (*Medoroga*).



## Haridra(curcuma longa)<sup>[21]</sup>

Kingdom	Plantae
Division	Mangoliophyta
Class	Liliopsida
Order	Zingiberales
Family	Zingiberceae
Genus	Curcuma
Species	Longa linn





# Rasa panchaka<sup>[13]</sup>

Rasa	Tikta, Katu
Guna	Laghu , Ruksa
Virya	Usna
Vipaka	Katu
Karma	Kaphavatanasan, VranashodhanPittarechak, Visaghna, Varnya, Kusthaghna, Krimihara, Pramehanasana, Sothara, Lekhan, Swasahara, Hikkanigrahan

### Properties of Haridra according to various Nighantus.

Sl No	Nighantu	Properties
1	Dhanvantari	Vishaghna, Kushthaghna, Kandughna, Pramehahar, Vrana,
	Nighantu <sup>[5]</sup>	Varnya, Balya, Krimighna, Pinasahar, Aruchihar
2	Bhavaprakash Nighantu <sup>[6]</sup>	Kaphanashan, Pittanashan, Varnya, Twakdoshahar,
		Pramehanashan, Raktadoshanashak, Shothahar, Panduhar,
		Vranaropan
3	Madanpala Nighantu <sup>[9]</sup>	Kaphanashan, Pittanashan, Varnya, Twakdoshahar,
		Pramehanashan, Ra ktadoshanashak, Shothahar, Panduhar,
		Vranaropan
4	Raj Nighantu <sup>[8]</sup>	Kaphanashan, Vatanasna, Varnya, Twakdoshahar,
		Pramehanashan, Raktadoshanashak,Vranaropan,
		Kushthaghna, Kandughna, Pramehahar,
5	KaiyadevNighantu <sup>[7]</sup>	Varnya, Kaphanasanm, Pittanasanam, Panduhara,
		Apachihara, Twakdoshanasanam, Visahar, Sothahara

### **GANAS** of Haridra

- > According to Charak samhita<sup>[1]</sup> kustaghna ,lekhaniya , vishaghna, sirovirechan and tiktaskanda
- > According to Susrutasamhita<sup>[2]</sup>— Haridradi, Mustadi, Lakhsadi, Vallipanchamul, Vatshamsan and Kaphashamsan.

- According to Ashtanga Hridaya<sup>[3]</sup>-Haridradi and Mustadi
- > According to Ashtanga Sangraha<sup>[4]</sup>- *Haridradi*

#### **Previous Studies on Haridra**

Studies shows that it helps in lowering the elevated levels of triglycerides and lipids. Haridra when feeded to rats shows elevation in the activity of hepatic cholesterol-7 alphahydroxylase which is rate limiting enzyme of bile acid synthesis. This study suggests that Haridra can stimulate the conversion of cholesterol to bile acids, an important way to eliminate cholesterol from the body. [21] In another study it shows that serum triglycerides were significantly decreased following curcumin supplement. [27] Another shows that curcumin protects against the oxidation of cholesterol and lowers the triglycerides level and slightly increases the HDL-C levels. [28] A study also shows that Curcumin is presumably most effective in lowering Triglycerides. [29]

### **DISCUSSION**

Dyslipidemia (Medoroga) is caused due to santarpanjanyanidanasevana like avyayama, achintya, atimadhura, atisnigdha, divaswapna, avyvaya, adhyasana, atimatraaharasevana. Apart from this *Medodusti* also occurs due to *beejaswabhaba*. *Jatharagni* is responsible for nourishment of the dhatus, but due to decrease in jatharagni there is formation of ama(undigested food) which causes srotoavarodh (obstruction of channels) which in turn increases medodusti and causes Medoroga. The qualities like sita, guru, snighdha, madhura, picchilagunas attributes to Medoroga so the qualities which are opposite should be used for treating it. Drugs which posseses the qualities like Laghu, Usna, Teekshana, vishada, ruksa, Khara significantly subdue Kapha and Medodushti. Katu, Kashayatikta rasa reduces vitiation of kapha and medodushti also neutralizes the Aam. All the qualities required for managing Medodushti is found in Haridra so Haridra is a very potential drug in Dyslipidemia.

### **CONCLUSION**

Haridra is a well-known and well established drug used since ages. It is used in many medicinal preparations for treating numerous diseases. The guna - karmas of Haridra mentioned in our classics, Ganas that includes Haridra and also by evaluating the various studies carried out on Haridra or its extract it is very much convincing that Haridra can be useful in the management of Dyslipidemia.

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