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EFFECT OF 'HARIDRADI KWATHA GHANAVATI' IN THE MANAGEMENT OF HYPERLIPIDEMIA IN STHAULYA

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ABSTRACT

Obesity is one of the most challenging health issues in the present era. It almost felt like an epidemic problem nowadays. Not only developed but also the developing nations affected by this problem. Obesity is the complex, multifactorial type of nutritional metabolic disease. It is a medical condition in which body fat has accumulated to the extent that it has a negative effect on health. It greatly increases risk of chronic diseases like disability, depression, type 2 DM, cardiovascular disease, Hyperlipidemia and many more serious mental problems. Dyslipidemia is a common issue associated with various health problems like cardiovascular diseases, fatty liver, and more. In India, around 25-30% of urban and 15-20% of rural individuals have high cholesterol levels. According to Ayurveda, Dyslipidemia is linked to imbalances in the *Medovaha Strotodushti*. Ayurvedic treatment for this involves *Shodhana* and *Shaman Chikitsa* along with various dry therapies, massage, and dietary adjustments. *Shaman Chikitsa* involves Drug Therapy for maintaining balance of all three Doshas. A 60-year-old woman with weight issues, having complaints like *Shwasadhikya*, *Atikshudha Ati-trushna Aayas-Akshmata*, *Balahinata* and *Nidradhikya* was treated. *Haridradi Kwatha Ghanavati* was used for management in this case resulting in improved symptoms and lipid levels. In summary, *Haridradi Kwatha Ghanavati* appears to be effective for treating Dyslipidemia.

KEYWORDS: Sthaulya, Haridradi Kwatha Ghanavati, Dyslipidemia, Medovaha Strotodushti.

INTRODUCTION

The rapid progress in technology, demanding schedules, sedentary lifestyles, and shifts in dietary patterns have rendered individuals more susceptible to various "Lifestyle Disorders," and one of these Hyperlipidemia. Underlying factors contributing to secondary Hyperlipidemia^[1] include conditions like Type 2 Diabetes, Chronic Kidney Disease, abdominal obesity, excessive alcohol consumption, liver issues, and factors leading to Secondary Hypercholesterolemia such as Hypothyroidism, Nephrotic syndrome, pregnancy, Anorexia Cholestatic nervosa, liver disease, Hyperparathyroidism, and certain drugs (diuretics, Corticosteroids). Consuming a diet rich in fats (Snighdha, Guru, Pichhila) and living a sedentary lifestyle (Cheshtadvesha, Asana Sukha) may contribute to Medovruddhi, a condition in Ayurveda characterized

by excessive fat accumulation. Ayurveda attributes Medovruddhi to Avyayam (habits like lack of physical activity) Achinta (No worry), Diwaswap (daytime sleep), over indulgence in Madhur Snigdha Ahara, excessive eating, consuming food in large quantities and Beeja Swabhav. This gradually leads to Medovaha Strotodushti^[2] eventually leading to conditions like obesity (Sthaulya), metabolic disorders (Prameha), skin disorders (Kushtha), and various issues associated with digestion impaired (Ama),reduced (Napunsakata), and urinary problems (Dysuria).[3] Dyslipidemia, a condition characterized by abnormal levels of lipoproteins in the blood, [4] can be correlated with the concept of Medovruddhi in Ayurveda. [5] This condition is often linked to health problems like Diabetes, Obesity, Heart Disease, and Thyroid disorders. Dyslipidemia is a widespread concern and a modifiable

risk factor for cardiovascular diseases, which have now become a leading cause of mortality globally. [6] Many instances of Dyslipidemia are detected during routine lipid profile assessments.

There are many medicines available in allopathy for management of Hyperlipidemia. Some famous medicines are like Statins (Rosuvastatin, Atrovaststin etc.), Gemifibrozil, Ezetimibe, Benzafibrate etc., but there are some side effects or some undiscussed symptoms are seen. So, it is necessary to find out some alternative medicine which will not harm towards body, which is human friendly and also a cost effective. Ayurvedic treatments and dietary practices (*Ahara*) can contribute to preventing Dyslipidemia and offer a more holistic approach, complementing the use of allopathic medications, thus potentially reducing the burden of pharmaceutical interventions.

In this case study, treatment centred on *Haridradi Kwatha Ghanavati* provided positive results, highlighting its potential in addressing Dyslipidemia and *Sthaulya*

Aim: To study Effect of *Haridradi Kwatha Ghanavati* in The Management of *Dyslipidemia* in *Sthaulya*.

Objective: To study role of *Haridradi Kwatha Ghanavati* to reduce sign and symptoms of *Sthaulya* and Lipid Levels.

CASE REPORT

A 60-year-old Female patient having following complaints was came in OPD of Kayachikitsa Department, PDEA'S College of Ayurved and Research Centre, Nigdi Pune.

Chief complaints

Shwasadhikya
Atikshudha Ati-trushna
Aayas-Akshmata
Balahinata
Nidradhikya

Since last 3-4 years Aggravated in last 6 months

History of Present Illness

60 years female patient came to OPD with Above complaints since last 3-4 years Aggravated in last 6 months. she was taking Allopathy medicines for same complaints in the last 6 months but she did not get relief completely. So for treatment, patient came to Kayachikitsa OPD for further treatment and management.

Present medicinal history: Tab. Telmikind 40 (Telmisartan 40mg) 1 tablet at morning Tab. Ecosprin AV at Night (Aspirin 75mg+ Atorvastatin 10mg)

Family history: *Matruj Kula: Mruta* (H/O: Diabetes Mellitus)

Pitruj Kula: Jivit. (K/C/O: Hypertension)

Past history: K/C/O: Hypertension and Dyslipidemia since last 10 years.

Past surgical history: Tubal Ligation done 25 years ago.

General examination

Temperature	98.4 F
RR	18/ Min
Pulse rate	72 /Min
Blood pressure	140/90 mm of Hg

Systemic examination

RS	AEBE
CVS	S1 S2 Normal
CNS	Conscious, oriented
P/A	Soft and Non tender

Ashtavidha parikshan

Nadi	Hansa Gati
Mutra	6-7 times a day
Mala	Asamyak
Jivha	Sama

Shabda	Spashta
Sparsha	Samshitoshna
Druk	Prakrit
Akruti	Madhyam

Hetu^[7]

Ahara: Snigdh (fatty food), Madhur (sweet), Guru (heavy to digest), Navanna (new grains), Mansa (Meat), Goras (dairy products), Gaudik (jaggery products), Paishtik (flour preparation containing more carbohydrate) Vihara: Diwaswap, Achinta, Avyayam.

Samprapti^[8]

According to Charak, due to Avarana (obstruction) on all the Strotas (channels) by the Meda, there is Vriddhi of kosthasthit Saman Vayu, which increases Koshtha Sthita Jatharagni. The increase in Jatharagni leads to rapid digestion of consumed food and leads to craving for more food. If at all due to some reason the person does not receive more food the increased Agni causes self-Dhatu Pachan. But because of the hunger the persons tend to eat more and the cycle continues. In this way it becomes a vicious circle creating excessive formation of Vikrita Meda Dhatu, giving various symptoms. Because of such a condition of Strotorodha, the other Dhatus are not nourished properly causing *Dhatu Shaithilya* prior to Meda Dhatu and depletion of Dhatus next to Meda are observed. According to Sushruta, [9] Kaphavardhaka Ahara, Adhyashana, Avyayama, Divasvapna etc. leads to formation of Aama Rasa i.e., Apachit Adya Rasa Dhatu. The Madhur Bhavayukta Ama Rasa moves within the

body, this Ama causes Strotosanga which leads to Sthaulya.

Samprapti ghatak

- 1) Dosha:
- 2) Kapha: Kledaka
- 3) Pitta: Pachaka
- 4) Vata: Samana, Vyana
- 5) Dushya: Rasa, Mamsa and Medadhatu
- 6) Agni: Jathragni, Rasa and Meda Dhatvagni
- 7) Strotas: Medovaha Strotas, Rasavaha Strotas, Svedavaha Strotas, Udakavaha Strotas
- 8) Stroto Dushti: Sanga Margavoroddha, Amatah
- 9) Adhisthan: Particularly Vapavahana and Meda Dhatu Kala
- 10) Udhbhava Sthana: Amashya
- 11) Sanchara Sthana: Rasayani
- 12) Roga Marga: Bahya
- 13) Vyaktsthana: Sarvanga, Specifically Sphika Udara, Stana and Gala.

Management: Haridradi Kwatha Ghanavati^[10]

• Drug: Haridradi Kwatha Ghanavati

• Matra: 500 mg twice a day

Anupana: Sukoshna Jala

• Aushadhasevan Kala: Apan Kali

• Duration: 3 months

Table 1: Latin Name, Family and Part use in of dravya in haridradi kwatha ghanavati.

No.	Drug	Latin Name	Family	Part Used
1.	Haridra	Curcuma Longa	Zingibraceae	Moola
2.	Daruharidra	Berberis Aristata	Berberdaceae	Moola
3.	Indrayava	Holarrhena Antidysentrica	Apocynaceae	Вееја
4.	Yashtimadhu	Glacyrrhiza Glabra	Fabaceae	Kanda
5.	Prushniparni	Uria Picta	Fabaceae	Patra

Table 2: Rasa, Virya, Vipaka, Doshaghnata and Karma of Dravya in Haridradi Kwatha Ghanavati.

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		Rasa	Vipaka	Virya	Guna	Karma
		Tikta, Katu	Katu	Ushna	Laghu, Ruksha	Lekhaniya
2.	Daruharidra ^[12]	Kashay, Tikta	Katu	Ushna	Laghu, Ruksha	Lekhaniya
		Tikta, Kashaya	Katu	Sheeta	Alghu, Ruksha	Shodhghna
4.	Yashtimadhu ^[14]	Madhur	Madhur	Sheeta	Guru, Pichhil	Jivniya
5.	Prushniparni ^[15]	Madhur, Tikta	Madhur	Sheeta	Laghu	Shothaghna

Table No. 3: Showing Observation and Results.

Symptoms	Gradation	Grade	BT	AT
	Absent	0		
Clauses dhibas	Present on only heavy exertion		2	0
Shwasadhikya	Present on only heavy exertion	2	2	U
	Present at rest also	3		
	As usual	0		
Ati kshudha	slightly increased 1-2 meals with normal breakfast	1	2	1
Att Ksnuana	moderately increased 3-4 meals with heavy breakfast		3	1
	markedly increased 4-5 meals with heavy breakfast	3		

	Absent			0
A an a a ababa ata	Works with efforts		3	
Aayas-akshmata	Avoids heavy work		3	
	Tries to avoid light work	3		
	As usual	0		
Ati trushna	Mild (upto 1-2 liter intake of water)	1	3	1
Att trusnna	Moderate (2-3liter intake of water)		3	1
	Severe (more than 3 liter intake of water)	3		
	Absent	0		
Balahinata	Feels weakness occasionally	1	3	0
Baianinaia	weakness after work or activity only	2		0
	Weakness after mild work	3		
	Samanya Nidra -6-7 hrs per day	0		
Nidradhikya	8-10 hrs Nidra per day	1	3	1
	11-12 hrs Nidra per day		3	1
	more than 12 hrs Nidra per day	3		

Lipid profile test	BT	AT	Reference range
Sr. Cholesterol	180.00	172.40	130-250 mg/dl
Sr. Triglycerides	168.00	119.20	40-160 mg/dl
Sr. HDL	45.48	50.35	30-80 mg/dl
Sr. LDL	98.72	103.66	0-150 mg/dl
Sr. VLDL	33.80	24.24	05-40 mg/dl
Cholesterol/HDL ratio	3.95	3.42	Upto 6.0
LDL/HDL ratio	2.17	2.06	Upto 4.5

There is 4 Kg significant reduction in weight was observed relief was observed in the Symptoms as shown in Table No. 3. The significant improvement was observed in the values of Sr. triglyceride from lipid Profile.

DISCUSSION

In Ayurveda, dislipidemia is associated with a condition known as "Medoroga." The primary factor in Medoroga is an imbalance of Kapha-Pradhana Tridoshas, which leads to the accumulation of fat. This excess Kapha obstructs the movement of Vata, leading to its accumulation in the gastrointestinal tract and an increase in Koshta Agni. This causes a person to overeat even though the quality of the food consumed may not be nourishing (Ama Rasa). Consequently, this type of food intake contributes to the accumulation of fat (Meda) and the onset of Medoroga. The treatment for Medoroga involves a comprehensive approach. Medicines used should correct the digestive fire (Agni), balance the Kapha-dominant Doshas, and reduce excessive fat. Haridradi Kwatha Ghanavati, a formulation described in Bhavprakash, exemplifies such a remedy. ingredients in Haridradi Kwatha Ghanavati possess qualities like Katu-Tikta-Kashaya Rasa, Laghu-Ruksha Guna, Ushna Virya, and predominantly Katu Vipaka. These qualities are particularly effective in managing the aggravated Kapha and reducing fat. The presence of Katu Tikta-kashaya Rasas and Laghu-Ruksha Guna in the ingredients aids in reducing the accumulation of fat. These qualities have a *Kapha*-reducing and drying effect, which helps to balance the aggravated Kapha and improve digestion. Some ingredients also possess

digestive properties that aid in breaking down and digesting the excess, unwholesome food (Ama Anna Rasa), thereby preventing the formation of excessive fat. Furthermore, some ingredients exhibit Rasayana properties, which not only help in treating the disease but also in preventing complications. Phytochemical analysis and experimental studies of the Haridradi Kwatha Ghanavati ingredients reveal significant hypolipidemic (reducing lipid levels) effects. Many of these drugs contribute to lower total cholesterol (TC), triglycerides (TG), and LDL cholesterol (LDL-C) levels, while increasing HDL cholesterol (HDL-C). The antioxidant and free radical scavenging activities of these drugs protect against oxidative damage and lipid peroxidation. Additionally, certain ingredients regulate fat metabolism by decreasing lipogenesis and increasing lipolysis in visceral fat. This approach also results in a reduction in the atherogenic index, suggesting a potential preventive effect against coronary artery disease (CAD). In summary, Haridradi Kwatha Ghanavati is a wellrounded remedy in Ayurveda that addresses the multifaceted aspects of Sthaulya by balancing Doshas, improving digestion, reducing fat accumulation, and potentially preventing complications associated with dislipidemia.

CONCLUSION

Haridradi Kwatha Ghanavati predominantly has Katu-Tikta-kashaya Rasa, Laghu-Ruksha Guna, Ushna veerya and Katu Vipaka. These properties help in reducing the excessive Meda. They also normalize Agni thus leading to the formation of proper Anna rasa and Medo dhatu. Which helps in Relief in Symptoms as shown in table no.

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3 and reduction of weight by 4 kg in duration of 3 months. Ingredients of *Haridradi Kwatha Ghanavati* possess hypolipidemic activity which helps in lowering the lipoprotein levels. Antioxidant and free radical scavenging activities of the ingredients help in preventing the progression of dyslipidemia, formation of atherosclerotic plaques and occurrence of complications.

REFERENCES

- 1. Davidson's Principle and Practice of Medicine, 22: 16 454.
- Kashinath Shastri and Gorakhnath Chaturvedi, Agnivesha, Charaka Samhita. Sutrasthana, 21: 21 – 415.
- Kashinath Shastri and Gorakhnath Chaturvedi, Agnivesha, Charaka Samhita. Sutrasthana, 23: 5 - 7, 437
- 4. Shastri R, Pandeya GS, Charaka Samhita. Vidyotani Hindi Commentary. Sutrasthana Varanasi: Choukhamba Bharati Academy; 2008; 436, 1: 23, 3 4.
- Shastri R, Pandeya GS, Charaka Samhita. Vidyotani Hindi Commentary. Sutrasthana. Varanasi: Choukhamba Bharati Academy, 2008; 572: 28 – 15, 1.
- Kashinath Shastri and Gorakhnath Chaturvedi, Agnivesha, Charaka Samhita. Sutrasthana, 23: 5 - 7, 437.
- 7. Tripathi B.: Charak Samhita Sutrasthan published by Chaukhamba Surbharati Prakashan, Varanasi, 2016; 422: 23 6.
- 8. Tripathi B.: Charak Samhita Sutrasthan published by Chaukhamba Surbharati Prakashan, Varanasi, 2016; 400: 21 5.
- 9. Shastri A.: Sushrut Samhita Sutrasthan: Published by Chaukhambha Sanskrit Sansthan, Varanasi, 2016; 81: 15 37.
- 10. MUHS THESIS: Dr. Asmita Satkar, 2020.
- Sharma P., Dravyaguna Vijnana (Hindi), Varanasi:
 Chaukhambha Bharati Academy, 2011; 162: II,
 4 9.
- 12. Sharma P., Dravyaguna Vijnana (Hindi), Varanasi: Chaukhambha BharatiAcademy, 2011; 537: II, 4–9.
- 13. Sharma P., Dravyaguna Vijnana (Hindi), Varanasi: Chaukhambha BharatiAcademy, 2011; 436: II, 4–9.
- Sharma P., Dravyaguna Vijnana (Hindi), Varanasi:
 Chaukhambha Bharati Academy, 2011; 253: II,
 4 9
- Sharma P., Dravyaguna Vijnana (Hindi), Varanasi: Chaukhambha Bharati Academy, 2011; 822: II, 4-9.