Thernation of

Original Research Paper

Ayurveda

CONCEPTUAL STUDY OF MEDO-VRIDDHI WITH SPECIAL REFERENCE TO HYPERLIPIDEMIA

Dr. Bijita Chutia

PhD Scholar, Department of Samhita & Siddhanta, Govt. Ayurvedic College, Jalukbari, Guwahati-781014, Assam,

Dr. Khagen Basumatary*

Professor & Head, Department of Samhita & Siddhanta, Govt. Ayurvedic College, Jalukbari, Guwahati-781014, Assam, *Corresponding Author

ABSTRACT In present era, life style modification and use of more and more junk food with stressful life helping obesity tree to propagate. Recent studies have reported that high cholesterol is present in 25-30% of urban and 15-20% rural population. Hyperlipidemia is a serious life style disease in today's era of fast and furious life. Hyperlipidemia is a disorder of lipid metabolism manifested by elevation of plasma concentration of the various lipids and lipoproteins fraction, which is the key risk factor for all the life threatening diseases like cardio vascular disease, diabetes, hypertension etc. It has been well described about the consequences of Medo-vriddhi and its hazards in Ayurvedic classics. Medo-vriddhi is mainly imbalance of agni because of various etiological factors. Etiological factors may be Aaharatmak, Viharatmak, Manasik and others like Bijaswabhava (hereditary). In Ayurvedic classics there is no such term like Hyperlipidemia but the properties of sneha dravya like Medodhatu in Ayurveda are described. Present study tries to correlate conceptual facts to show relation between Medo-vriddhi and Hyperlipidemia.

KEYWORDS: Hyperlipidaemia, Medo Dhatu, Medo-vriddhi

INTRODUCTION

As per Ayurveda, human body consists of 7 types of tissues known as Dhatu. Meda is one of those Dhatus and necessary to maintain snehatwa(lubricity). Sneha is essential and offers corpulence to the body when normal, but it leads to born various disorders when it is in a disturbed state in terms of Rasagata Snehavriddhi which lead to Medo-vriddhi (Hyperlipidaemia). In Ayurveda, Hyperlipidemia does not bear a precise reference in any Ayurvedic classical treatises, though the study of Ayurvedic literature bears some implicit references. Hyperlipidemia is characterized by an increased amount of lipids present in the bloodstream. The lipids which are elevated can be correlated to Sneha, Medo-dhatu, Saama-rasa, due to the similarity in their properties. Attempts were made by various scholars of Ayurveda to correlate clinically it to Rasagata Sneha Vriddhi, Raktagata Sneha Vriddhi, Rasaraktagata Sneha Vriddhi, Medoroga and Sthaulya. Hyperlipidemia can be included in Santarpanjanyavyadhi. Hyperlipidemia is also a Dhatu-pradoshajaVikara in which Medodhatu is being dominant, thus it can be correlated with 'Medodosha' (Amaposhakamedodhatu Vruddhi) comes under the broad umbrella of Ama. Hence, the condition of Hyperlipidemia can be considered under Medo-vriddhi as well as Santarpanjanya Vyadhi. By understanding the concept of lipid on the basis of Meda in Ayurveda, it is necessary to modify lifestyle and follow the rules of diet and behavioural factors as per Ayurveda.

AIMS AND OBJECTIVES

 To study the etiology, symptoms, pathology of Medovriddhi with special reference to Hyperlipidemia.

Concept of Meda

Meda is mainly present in Udara but Mamsa and Brihat Asthi also consist some of it's part. It is termed as Sarakta Meda when Meda is present inside of Anu Asthi (small bones) and said as Majja when it is present in Sthula Asthi (large bones). Vasa is the pure form of Meda which is present inside the Mamsa (Peshi)^[1] Thus Meda, Vasa and Majja can be correlated to all forms of lipids. But among these, Medo Dhatu has more importance as it is responsible for Medo-vriddhi (Hyperlipidaemia) and various metabolic disorders. Medo Dhatu is of two types- (a) Poshak and (b) Poshya. Poshaka Medo Dhatu is circulated in the whole body along with the Rasa and Rakta Dhatu to give nutrition to Poshya Medo Dhatu. Poshya Medo Dhatu is stored in Medodhara Kala which is immobile in nature. The site of Medodhara Kala is Udara, Stana, Gala, Anu Asthi and Sphika.

Medo-vriddhi

Medo-vridhhi is a disorder of medovahasrotas as per Ayurvedic concept with symptoms of deposition of meda at the site of abdomen, buttock, chest, arm, thigh, neck, and all over body. The associated symptoms like chalasphikudarastana, kshudraswasha, pipasatiyoga, kshudhatimatra, swapna, kshavathu, dourgandha, dourbalya etc. are also found in this condition [2.3].

Nidana (Causative Factors)

In brief, all causative factors described in Ayurveda can be classified into four groups-

- 1) Aharaja
- 2) Viharaja
- 3) Manasik
- 4) Anya

For better understanding these causes are being tabulated as follow:

Table 1: Aharaja Nidana

Aharaja nidana		Su.	A.S	A.H	Mn.	B.P.
Ati sampurana (Over eating)	+	-	+	-	-	-
Samtarpana	+	-	+	+	-	-
Adhyashana		+	-	-	-	-
Guru Ahara sevana (Excessive consumption of Heavy food)	+	-	+	+	-	+
Madhura Aharasevana (Excessive consumption of sweet food)	+	-	+	+	-	+
Sheeta Aharasevana (Excessive consumption of cold diet)	+	-	-	-	-	-
Snigdha Aharasevana (Excessive consumption of unctuous food)	-	+	+	+	-	+

Table 2: Viharaja nidan

Avyayama (Lack of physical exercise)		+	+	-	+	+
Avyavaya (Lack of sexual life)		-	+	-	-	-
Divaswapa (Day's sleep)	+	+	+	-	+	+
Asana Sukha (Luxurious sitting)		-	+	+	-	-
Swapnaprasangat (Excessive sleep)	+	-	+	+	-	-

Table 3: Manashik nidan

Manasika Nidana	Ch	Su.	A.s.	A.h.	Mn.	B.P.
Harshnityatvat (Uninterupted cheerfulness)	+	-	+	+	-	-

VOLUME - 11, ISSUE - 04, APRIL - 2022 • PRINT ISSN No. 2277 - 8160 • DOI : 10.36106/gjrα

Achintanat (Lack of anxiety)	+	-	+	+	-	-
Manasonivritti (Relaxation from tension)	+	-	+	+	-	-
Priyadarshana (Observations of beloved things)	+	-	-	-	-	-
Saukhyena	-	-	-	+	-	-

Table 4: Anya nidana

Anya Nidana	Ch.	Su.	Ā.s.	A.h.	Mn.	B.p.
Amarasa	-	+	-	-	-	+
Snigdha Madhura Basti Sevana (Administration of unctuous & Sweet enema)	+	-	-	-	-	-
Tailabhyanga (Massaging of oil)	+	-	+	+	-	-
Snigdha Udvartana (Unctuous unction)	+	-	-	-	-	-
Bijadoshasvabhavat (Heriditary)	+	-	-	-	-	-

Rupa (Symptoms)

The symptoms of atisthoulya are considered as Medo-vriddhi. Person can be diagnosed as ati sthoulya when his buttocks, abdomen & breasts begin to show movement due to excess accumulation of Meda in these areas. Contrary to his age there is a disproportionate in relation to build & enthusiasm. Kustha, visharpa, Bhagandara, Jwara, Atisara, Prameha,

Arsha, Slipada, Apachi, Kamala may develop in medo dhatu dushti. (B.P.M.39/9-1)

Table 5: Rupa

Rupa	Ch.	A.S.	Mn.	A.H	Mn.	B.P.
Chala Sphika (Pendulous Buttock)	+	-	+	+	+	+
Chala Udara (Pendulous Abdomen)	+	-	+	+	+	+
Chala Stana (Pendulous Breast)	+	-	+	+	+	+
Ayatha Upachaya (Abnormal growth of the body)	+	-	+	-	+	+
Udara parshva vriddhi (enlargement of abdomen)	-	+	-	+	+	+

Samprapti (Pathogenesis)

Medo-vriddhi is a complex consequential process caused by Dushti of Medo Dhatu. Acharya Madhav described its pathogenesis as follows[4] -

- 1. Excessive production of Medo Dhatu (due to dietary factor, behavioural factor, genetic or hereditary factor)
- 2. Excessive Medo Dhatu lead to margavarodh and depletion of other Dhatus and provocation of Vayu.
- 3. Provocation of Vayu increases false appetite which lead to excessive consumption of food.
- Excessive consumption of food lead to excessive Medo Dhatu production (Medo vriddhi).

Different Concepts of Hyperlipidaemia

Hyperlipidaemic condition cannot be directly referred to diseases. Moreover various scholars have their different opinions. Most of them compare Hyperlipidaemia under the heading of Medo-vriddhi and some consider it as Rasagata Snehavriddhi, whereas some suggest it under broad term of Ama. So all these conditions are somewhat similar.

Table 6: Comparison between Meda And Lipids

Sr. No.	Ch	Su.
1.	Ingestion of excessive Sneha	Intake of high fat diet

	(Ghrita, Taila, Vasa, Majja)[5]	(ghee, oils, butter,etc.)
	increases meda	increases body lipids
2.	Dietary intake of excessive	Increase consumption of
	Madhur Dravya causes	carbohydrates (specially
	Medovriddhi ^[6]	sucrose enhances
		cholesterol level)[7]

Table 7: Comparison betweeen Medo-vriddhi And Hyperlipidaemia[8]

	Medo-vriddhi	Hyperlipidaemia
Etiologic	Avyayam, Diwaswapna,	Intake of high fat diet,
al factors	Medyanam Atisevan, Ati	junk food habits, lack
	Varuni sevan	of exercise, genetic
		predisposition
Clinical	Medo, Maans Ativriddhi,	Excessive deposition of
features	Flabbiness of buttocks,	fats in abdomen,
	abdomen and breasts,	waist, buttock, etc.
	loss of enthusiasm	Excessive appetite,
		exersional dyspnoea,
		excessive perspiration,
		general weakness
Complica	Ayushya hras, loose and	Decreased life
tions	delicate body, Javoparodh,	expectancy,
	difficulty in mating,	Mechanical
	Weakness, Excessive	disabilities, loss of
	sweating with bad odour,	immunity,
	frequent thirst and hunger	cardiovascular and
		cerebrovascular
		manifestations.

Hyperlipidemia

- Disorder of Lipid & Lipoprotein Metabolism
- A common form of Hyperlipidemia is characterized by three lipid abnormalities:
- 1. Elevated triglycerides.
- 2. Elevated LDL.
- 3. Reduced HDL cholesterol.

Risk Factor

Important Modifiable Risk Factor for Hyperlipidemia

- · Cigarette smoking
- · Obesity and sedentary lifestyle
- · Consumption of foods high in saturated fat and transfat
- Excessive alcohol consumption may also contribute to higher triglyceride levels
- · Genetical cause
- · Advanced age.

Types of Hyperlipidemia

Hyperlipidemia is divided into primary and secondary types.

- 1. Primary-Inherited
- 2. Secondary-Aquired

Symptoms

- · High blood pressure
- Coronary artery diseases
- Diabetes
- PAD(Pulmonary artery disease)
- Obesity
- Abdominal pain
- Acute pancreatitis
- Chronic kidney disease
- Chest pain
- Stroke
- Dizziness
 - Calf muscle pain during walking
- Dyspnea
- · Confusion.

Diagnosis

- Lipid profile (Blood test for LDL, HDL, and
- · Triglyceride)

Prevention

- Following heart-healthy diet
- Exercise regularly
- Quit smoking

DISCUSSION

- 1. After studying the above facts, Hyperlipidaemia can be correlated with Medo-vriddhi. Acharya Charak didn't mention Medo-vriddhi separately but instead that he explained Sthaulya which is nothing but Medo-vriddhi[9].
- 2. Acharya Charak has described Medo-vriddhi under the heading of Atisthaulya and he explained Atisthaulya is due to the dushti of Medovaha Srotas and can be taken as synonym of Medo-vriddhi.
- 3. Acharya Madhava described Medo-vriddhi and its etiology. He explained abnormal deposition of Medo Dhatu in the body is termed as Medodushti. Medodushti includes several numbers of other Medo Vikaras which are collectively known as Medo-vriddhi.
- 4. It can be stated that abnormal and unequal distribution or collection of Medo Dhatu in the body may be known as Medo-vriddhi.
- This theory is also supported by Madhukoshkara[10] and Bhavamishra[11] by describing individual chapter of Medoroga.
- 6. Madhavakar has described the disease under heading of Medoroga in 34th chapter and has used Medaswina[12], Atisthula[13] and Sthula[14] words as synonyms.
- 7. Madhavakar has mentioned the Nidana, Rupa and gave clear picture of Medo-vriddhi- borrowing all the thoughts of previous authors.

CONCLUSION

With the proper exploration of literary sources and applying the basic concepts of Ayurveda, one can make the possible equivalence of concept of medo-vriddhi with the hyperlipidemia. The Etiological factors, signs and symptoms mentioned for medo-vriddhi or any santarpanottavyadhi's are almost similar to Hyperlipidemia. Thus the condition which is characterized by Hyperlipidemia in the body can be considered under the concept of medo-vriddhi.

REFERENCES:

- Vaidya Yadavji Trikamji. Susruta Samhita (Sharir Sthan 4/12,13). Varanasi; Chowkhabha Krishnadas Academy; 2004.
- Tripathi R.D. CharakSamhita. Varanasi; Choukhamba Sanskrit Pratisthan: 2007.
- Shastri Ambika Dutt, Sushruta Samhita, Varanasi; Choukhambasanskritsasthan; 3.
- Narendranath Shashtri. Acharya Madhavakarpranitam Madhavanidanam with Madhukosh Sanskrit Commentary (Chapter 34). Delhi; Motilal Banarasidas: 2005.
- Vaidya Yadavji Trikamji. Susruta Samhita (Dalhana at Sutra Sthan 15/37). 5. Varanasi; Chowkhabha Krishnadas Academy; 2004.
- Vaidya Yadavji Trikamji. Charak Samhita (Sutra Sthan 21/4). Varanasi; Chowkhambha Krishnadas Academy; 2004.
- Chatterjee and Shinde. Textbook of Medical Biochemistry. 1988. P. 484. Pankaj Kothari et al. Similarity Concept Of Lipids & Meda Dhatu Vis-à-vis Hyperlipidemia (Comparison between Medoroga and lipid disorders). IAMJ. September 2015; 3(9).
- Vaidya Yadavji Trikamji. Charak Samhita (Sutra Sthan 21). Varanasi; Chowkhambha Krishnadas Academy; 2004.
- Acharya Narendranath Shashtri, Madhavanidanam with Madhukosh Snskrit Commentary (Chapter 34). Delhi; Motilal Banarasidas; 2005.
- Bhavamishra. Bhavaprakasha(Uttarakhand 39). Varanasi; Chaukhambha Sanskrit Sansthan.
- Acharva Narendranath Shashtri, Madhavanidanam with Madhukosh Snskrit
- Acharya Narendranath Shashtri. Snskrit Commentary (Chapter 34/9). Delhi; Motilal Banarasidas; 2005.
- 14. Acharya Narendranath Shashtri. Madhavanidanam with Madhukosh Snskrit Commentary (Chapter 34/7). Delhi; Motilal Banarasidas; 2005.