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Role of Diet in *Abbadha Medas* vis-à-vis Dyslipidemia

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ABSTRACT

Metabolic disorders are one of the major burning issues that the health system around the globe is counteracting through, dyslipidemia being one among them. Dyslipidemia is a condition where the metabolism of lipids are altered and can lead to increase levels of cholesterol in blood causing atherosclerosis and in turn being the major cause for CVD (Cardio Vascular Disease) and Stroke. Dyslipidemia is one among the 4 key metabolic risk factors which increase the risk of cardiovascular diseases (atherosclerotic vascular disease) a non-communicable disease; which account for 17.9 million deaths annually, worldwide. Diet is the prime line of treatment mentioned for these metabolic disorders without any side effects. In Ayurveda Dyslipidemia can be understood as *Abbadha Medas* where *Apatarpana Chikitsa* and *Kapha-Medohara Pathyas* are advised.

Key Words Dyslipidemia, Metabolic Disorder, Diet intervention, Abbadha Medas, Ayurveda, Pathya

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INTRODUCTION

Metabolic disorder is a disorder that negatively alters the body's processing and distribution of macronutrients such as proteins, fats, and carbohydrates. Metabolic disorders can happen when abnormal chemical reactions in the body alter the normal metabolic process. Disorders of Lipoprotein metabolism is considered as one among the metabolic disorder¹.

Dyslipidemia: Disorders of Lipoprotein metabolism are collectively called dyslipidemia, including lipoprotein overproduction or deficiency². These disorders may be manifested

by elevation of the serum total cholesterol, low density lipoprotein (LDL) cholesterol triglyceride concentrations and a decrease in the high-density lipoprotein (HDL) cholesterol concentration³. Dyslipidemia is classified mainly as primary which is caused due to single or mutation and multiple gene secondary dyslipidemia which can result due to other disease such as Diabetes mellitus, chronic kidney disease, Alcohol overuse, Hypothyroidism, Primary biliary cirrhosis and other cholestatic liver diseases, Drugs, such as thiazides, beta-blockers, retinoids, highly active

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antiretroviral

agents, cyclosporine, tacrolimus, estrogen and progestins, and glucocorticoids⁴.

Dyslipidemia can be understood under the concept of *Abaddha Medas* in Ayurveda where the *Kapha Pichilla* and *Sneha Guna* gets increased due to the *Nidana Sevana* (*Shleshmala Ahara Vihara, Gramya Dosha* and *Santarpanotta Vikaras*) causing *Abaddhata* of *Medas* and its *Paribramana* in *Rasa* and *Rakta Dhatu*⁵.

Principles of management: Lipid lowering therapies have a key role in the secondary and primary prevention of cardiovascular diseases. Assessment of absolute risk of cardiovascular disease, treatment of all modifiable risk factors and optimisation of lifestyle, especially diet and exercise, are central to management in all cases of Dyslipidemia⁶. Thus Diet is the prime line of treatment mentioned for these metabolic disorders without any side effects.

Long-term Dietary Modifications-

In order to reduce the risk for additional myocardial infractions, patients are encouraged to follow the ACC/ AHA Lifestyle management Guidelines. Many patients will benefit from a very specific daily menu guide to get them started on a healthier eating plan. Research supports the adoption of a Mediterranean diet or the DASH diet for patients with cardiovascular disease who have had an MI.

Thus diet has an important role to play in Dyslipidemia⁷.

Principles to be followed during fat intake -

- Take just enough fat.
- Moderate the use of animal foods containing high fat, SFA and cholesterol.
- Choose low- fat dairy foods in place of regular whole fat dairy foods.
- Eat foods rich in alpha-linolenic (ALA) acid such as legumes, green leafy vegetables, fenugreek and mustard seeds.
- Eat fish more frequently (at least 100-200g /week), prefer it to meat, poultry and limit/ avoid organ meats such as liver, kidney, brain etc.
- Minimize consumption of ready- to- eat fast foods, bakery foods and processed foods prepared in hydrogenated fat.
- Use of re-heated fats and oils should be avoided.
- Use fats and oils in moderation and consume varieties of foods to get good proportion of all fatty acids for optimal health benefits⁸.

PATHYA AS PER AYURVEDA CLASSICS

General principles of diet to be followed in Dyslipidemia:

Dyslipidemia is considered as one of the "Santarpanotta Vikara" where Kapha Dosha and Medo Dhatu are mainly involved in the initial Samprapti. Thus Pathya which has Kapha-Medo Shoshaka or having the properties of "Apatarpana" to be administered ⁹. Ayurveda emphasis on restricting Alcohol and Non-Vegetarian diet, minimize the Ahara which can increase the Kapha Dosha, follow the principles of Ashta Vidha Vishesha Ahara Ayatanani¹⁰ and Dwadasha Ashana Pravichara¹¹ which is very





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much similar to the principles of diet mentioned for Dyslipidemia in contemporary science.

Ayurveda has offered the *Guna* of *Ahara Dravya* which is consumed daily, which as *Kapha-Medohara* and can be beneficial in Dyslipidemia the list of the same in provided below.

Pathya-Apathya in Medo Roga:

In the context of *Medo Roga; Acharyas* have explained *Purana Shali, Mudga, Kulattha, Uddalaka, Kodrava, Yava, Godhuma, Kshoudra, Shyamaka, Chavya, Chitraka, Jiraka, Trikatu, Hingu, Dadhi Mastu* ^{12,13} *Gavedukanna, Kulatha, Chanaka, Masura, Mudga, Laja, Takra, Sura, Chingata, Matsya, Vartaka Phala, Sarshapa Taila, Ela, Patrotta Shaka, Pratapta Jala* and *Sauvarcha Lavana* as *Aharaja Pathya* ¹⁴.

Purana Vamsa Bija, Shyamaka Dhanya, Nivara Dhanya, Koraduha, Yava, Kulatha, Chanaka, Masura, Mudga, Tuvara, Madhu, Laja, Takra, Katu-Tikta-Kashaya Dravya, Pingala Matsya, Sura, Vartaka, Triphala, Guggulu, Trikatu, Payasa, Shweta Sarshapa Taila, Ela, Yavakshara, Akshataila, Patra Shaka and Ushna

Jala are considered as Aharaja Pathya in Medo Roga ¹⁵.

Purana Rakta Shali, Jangala Jantu Mamsa, Kulatta Yusha. Kambali, Mudga, Raga, Khandava, Patola, Kadali Phala, Purana Kushmanda, Amra, Dadima, Syamaka Shaka, Navina Masha, Eranda Taila, Akasha Jala, Saindhava Lavana, Ajatakra, Purana Guda, Shunti, Yavani, Lashuna, Haritaki, Dhanyaka, Pippali, Adraka, Kanji, Madhu, Madya, Tambula, Nagavalli are considered a Pathya in Hridroga ¹⁶.

Shali-Godhuma, Ksheera, Ikshu Vikruti, Masha, Sauhitya Sneha, Mamsa, Matsya, Madhura Dravyas ^{17, 18} Aja Dugdha, Kashaya Dravya, Yasti Madhu ¹⁹ are considered to be Aharaja Apathya in Medo Roga.

Thus based on these principles food articles can be selected from different *Vargas* mentioned in Ayurveda. Details of the same is provided in Table 1.

Table 1 Ahara Vargas which can be considered to be Pathya in Dyslipidemia along with their Guna/ Karma ^{20, 21, 22, 23, 24, 25}

Sl. No	Varga	Pathya	Guna
	Shuka Dhanya	Shashtika Shali (Rice/ පදීු)	Laghu, Tridosha Shamaka
1.	(Cereals)	Purana Godhuma (Wheat/	Jeevano, Guru
		ಗೋಧಿ)	
		Uddalaka, Shyamaka, Bajara	Laghu, Kapha-Pittagna, Shoshaka
		Kangu/ Kodrava/ Nivara/ Shyamaka	Vatakara, Lekhanakara, Kapha-Pittahara
		(Types of millet/ ರಾಗಿ, ನವಣೆ, ಸಾಮೆ, ಅರ್ಕ, ಊದಲು, ಕೊರಲೆ, ಬರಗು,	
		ಸಜ್ಜೆ, ಬಿಳಿ ಜೋಳ)	
		Yava (Barley/ ಬಾರ್ಲಿ)	Ruksha, Aguru, Shleshmavikaranut, Medohara
2.	Shami Dhanya (Pulses)	Adhaki (Toor dal/ ತೊಗರಿ ಬೇಳೆ)	Kapha-Pittagni, Vatala, Kapha-Vatanut.





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		112 112 11 7 11 11 12 12	•
		Mudga (Green gram/ ಹೆಸರು ಬೇಳೆ)	Kashaya, Ruksha, Katu Paka, Laghu, Vishada, Sleshma-Pittaghna.
		Chanaka (Bengal gram/	Laghu, Kashaya, Virukshanakara
		(Masoor Dal/ ප්රಪා ಬ්(ಳ), Khandika and Harenu (Pea/ ಬಟಾಣಿ)	
		Kulattha (Horse gram/ ಹುರಳಿ ಕಾಳು)	Ushna, Kashaya, Kapha-Shukra-Anilahara
		Raja Masha (Cow Pea/ ಹಲಸಂದೆ ಕಾಳು)	Sara, Ruchya, Kapha- Shukra- Amla-Pittanut Vatala, Ruksha, Kashaya, Vishada, Guru.
		Kalaya (Grass Pea/ ಕೇಸರಿ ಬೇಳೆ)	Laghu, Vatakara
		Nishpava (Flat beans/ ಅವರೆ/ ಚಪ್ಪರದ ಅವರೆ)	Kaphahara
		Shimbi Dhanyas (Pulses)	Ruksha, Kashaya, Vata Prakopaka
3.	Mamsa Varga (Non-Veg)	Rohita Matsya (Red Variety of Fish/ ಮೀನು)	Agnivardhaka
4.	Shaka Varga	<i>Methika</i> (Fenugreek/ ಮೆ೦ತ್ಯೆ)	Vata-Kaphahara, Ushna
	(Vegetables)	Patola (Pointed Gourd/ ಪಡವಲ)	Pitta-Kapha Nashini, Hrudya
		Karvellaka (Bitter Gourd/ ಹಾಗಲ ಕಾಯಿ)	Deepana, Kapha-Pittajit
		Tanduleyaka (Cluster Beans/ ಚೌಳಿ ಕಾಯಿ)	Ruksha
		Dhanyaka (Coriander/ ಕೊತ್ತಂಬರಿ)	Tridosha Shamaka, Ushna
		Vastukam (Mountain Spinach/ ಚಕ್ಕೊತ ಸೊಪ್ಪು)	Tridosha Shamaka
		Susha (Coffee Senna/ ಎಲ್ಲುರಿ ಸೊಪ್ಪು)	Tridosha Shamaka
		Sunishnaka (Water Clove/ ಹುಲಿ ಚಿಕ್ಕ)	Tridosha Shamaka
		Shobhanjana (Drum Stick/ ನುಗ್ಗೆ ಸೊಪ್ಪು)	KaphaVatahara, Pittakara, Laghu, Ruksha
		Kakamachi (Night Shade/ಕಾಕಿಸೊಪ್ಪು)	Tridosha Shamaka
		Mundukaparni Shaka (Indian pennywort /ಬ್ರಾಹ್ಮಿ ಸೊಪ್ಪು)	Tikta Rasa, Katu Vipaka, Kapha – Pitta Nashaka
		Surana (Golden Nugget/ ಸುವರ್ಣ ಗಡ್ಡೆ)	Kaphagna
		Tambula Patra (Betel Leaves/ ವಿಳದಲೆ)	Agni Deepaka, Vayu-Kaphanashakabb
		Trapusha (Cucumis sativus/ ਲੌਾ ਤੇ) Kakadi (Cucumis melo	Guru, Ruksha, Mutrala
		vari/ ಸಾಂಬಾರ್ ಸೌತೆ)	
5.	<i>Phala Varga</i> (Fruits)	Tanka Phala (Pear fruit/ න්(රා ಹಣ್ಣು)	Kashaya Rasa, Vata Vardhaka
		<i>Jambu</i> (Jamun∕ ನೇರಳೆ)	Kashaya- Madhura Rasa, Guru, Kapha-Pitta Nashaka, Vatavardhaka
		Shushka Badara (Jujube Fruit/	Kapha – Vata Nashaka
		Amalaki (Goose Berry/ ನೆಲ್ಲಿ	Ruksha, Kapha Pitta Nashaka





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		 ಕಾಯಿ)	
		Dadima (Pomegranate/	Agni Vardhaka, Vata Nashaka,
		ದಾಳಿಂಬೆ)	118th Faranasa, Fata Pashasa,
		Talaphala (Ice Apple/	
		ತಾಟಿನಿಂಗು)	
		Bilva (Wood Apple/ ಬೆಲದ	Agni Vardhaka, Kapha-Vata Nashaka
		ಹಣ್ಣು)	
		Vibhitaki Phala (Myrobalan /	Mamsa-Medo Vikara Nashaka, Kaphahara
		ತಾರೆ ಕಾಯಿ)	-
		Vruksamla (Tamrind/	Vata-Kaphahara, Ruksha, Ushna Veerya
		ಹುಣಸೆ)	
		(Citron/ ಮಾದಳ)	Agnideepaka, Hrudya, Kapha Nashaka
		Puga Phala (Betel Nut/	Kapha-Pitta Nashaka, Ruksha
		_ಅಡಕೆ)	
		Jati Kosha (Nut Meg/	Kapha Nashaka
		ಜಾಕಾಯಿ), <i>Jaavitri</i> (Mace	
		powder/ ಜಾಪತ್ರೆ), <i>Lavanga</i>	
		(Clove/ ಲವ೦ಗ)	* 1 * 1 * 2
		Naranga Phala (Orange/ ಕಿತ್ತಲೆ)	Hrudya, Vata Nashaka , Guru
6.	Harita Varga	Ardraka (Ginger/ ಶාරට්)	Deepana
	(Raw Vegetables)	Jambira (Lemon/ ನಿಂಭೆ)	Teekshna, Vta-Kapha Nashaka, Deepana
		Mulaka (Raddish/ ಮುಲಂಗಿ)	Bala Mulaka – Doshahara Shushka Mulaka – Kapha-Vata Shamaka
		Yavani (Ajwain/ ಅಜವೈನ),	Hrudya
		Arjaka (Clove Basil/ ತುಳಸಿ),	
		Shigru (Drum Stick, ನುಗ್ಗೆ	
		ಕಾಯಿ) Shaleya (Fenugreek/	
		ಮೆ $($ ತ್ಯ ಕಾಳು $)$, $Mrushtaka$	
		(Mustard/ ಸಾಸಿವೆ)	
		Tumburu (Ratten spice/ ತೇಜ	Teekshna, Ruksha, Kapha-Vatanashaka
		ಫಲ, Shrungaveraka (Dry	
		Ginger/ ಶාරම්)	
			Ushna Veerya, Vatagna
			Shushka – Vata-Kapha Nashaka
		Grunjanaka (Carrot/ ෆ්සර්)	Vata-Kaphahara
		Kharahva (Jeera/ 怨(つパ)	Kapha Vata Nashaka
7.	Gorasa Varga (Milk and its Products)	Ushtra Dugdha (Camel milk/ ಒಂಟೆ ಹಾಲು)	Ruksha, Laghu
		Chaga Dugdha (Goat Milk/ ಮೇಕೆ ಹಾಲು)	Kashaya-Madhura Rasa, Laghu
		Dhadhi Manda (scum of curds/ ಮಂದ ಮೊಸರು)	Sroto Shodhaka, Vata- Kapha Nashaka
		Takra (Butter Milk/ ಮಜ್ಜಿಗೆ)	Ruksha, Agni Deepana, Kapha-Vata-Medohara
0	47		Hrudya
8.	Aharopayogi Varga (Accessory Food Articles)	Sarshapa Taila (Mustard Oil/	Katu Rasa, Ushna Veerya, Kapha-Vata Nashaka
	(Accessory Food Afficies)	ಸಾಸಿವೆ ಎಣ್ಣೆ) Tila Taila (Sesame Oil/	Agni Vardhaka Vatanashaka Ushua Vagura
		Tila Taila (Sesame Oil/ ಎಳ್ಳೆಣ್ಣೆ)	Agni Vardhaka, Vatanashaka, Ushna Veerya
			Ushna Veerya, Vata Nashaka
		ಅಗಸೆ)	
		<i>Maricha</i> (Pepper∕ ಕಾಳು	Kapha Shoshaka, Agni Deepaka, Kapha-Van
		ಮೆಣಸು)	Shamaka





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		ಹಿಪ್ಪಲಿ)	
		Shunti (Dry Ginger/ ಶාරම)	Agni Deepaka, Hrudya
		Saindhava Lavana (Rock	Deepana, Tridosha Nashaka
		Salt/ ಕಲ್ಲುಪ್ಪು)	
		Yavani (Ajwain/ ಓಮ)	Agni Deepaka, Vata-Kapha Nashaka
		Trijata (Twak, Ela, Patra) / Chaturjata (Trijata + Nagakeasara)	Ruksha, Agnideepaka
		Trikatu (Shunti, Maricha, Pippali)	Kapha-Vatajit, Sthoulyahara
9.	Krutanna Varga	Peya (Thin gruel/ 多ಳಿ ಗಂಜಿ)	Agni Vardhaka
	(Different preparations)	Vilepi (Thick gruel/ ಗಟ್ಟಿ ಗಂಜಿ)	Laghu, Hrudya
		Manda (Gruel water/ ಗಂಜಿ ನೀರು)	Agni Deepaka
		Brushta Tandulakruta Odana (ಅಕ್ಕಿ ಗಂಜಿ)	Kapha Vikaranut
		Sattu (Flour prepared from different grams)	Ruksha
		Dhana/ Vatya (Barley preparation)	Lekhana
10.	<i>Udaka Varga</i> (Water)	Usha Ambu (ಬಿಸಿ ನೀರು)	Kapha-Medo-Anilaghna, Deepana, Sada Pathya
11.	Taila Varga	Tila Taila (ఎళ్ళేణ్ణే)	Lekhana, Vayu-Kaphahara
	(Oils)	Eranda Taila (ಹರಳೆಣ್ಣೆ)	Srotovishodhana, Vata-Kaphahara
		Sarshapa Taila (ಸಾಸಿವೆ ಎಣ್ಣೆ)	Kapha-Medohara
12.	Madhu Varga (Honey)	Purana Madhu (Old Honey)	Lekhana, Hrudya, Medo Rogahara, Laghu

DISCUSSION

Ahara, Nidra and Brahmacharya are considered as Trayopasthambha²⁶ of life and Pathya (wholesome) food have a major role to play in preventing and curing of a disease. Pathya is considered as one of the synonyms of Bheshaja²⁷. It is said that food articles and medicines do have a variety of effects on body depending on the dosage, time, mode of preparation, geographical location, the body constitution of the patient and Doshas. Hence, the physician who desires success in treatment shall consider effects of the natural properties of the drugs and dietary articles, as well as the usage patterns associated with such articles²⁸. On the other hand

"Apathya" can cause vitiation or imbalances in Doshas, Dhatus and Rasas thus causing diseases. Hence adopting "Pathya" would be the most important aspect of treatment²⁹. Dyslipidemia can be taken as the Snehamsha Vruddhi or the Abhaddha Medas Paribhramana in Dhatus especially in Rasa and Rakta Dhatu which could be caused due to Agni Mandya at the level of Dhatvagni, which can be considered as the defect in Lipid metabolism. Thus Agni Vardhaka, Kapha-Medohara Ahara would be beneficial in case of Dyslipidemia.

CONCLUSION

Lightness or heaviness of eatables is determined by the types of combination, methods of preparation and proportions in which ingredients





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are added to them ³⁰. Thus based on the above concepts the dietary protocol to be adopted in Dyslipidaemia.

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