

An International Journal of Research in AYUSH and Allied Systems

Research Article

AN AETIOPATHOLOGICAL STUDY OF MEDOVAHA SROTODUSHTI WITH SPECIAL REFERENCE TO HYPERLIPIDEMIA AND ITS UPASHAYATMAKA STUDY OF MUSTA KWATH

Ankita Saiwan^{1*}. Basant Kumar Thakur²

*1PG Scholar, ²Professor & HOD, Department of Roga Nidana evam Vikriti Vigyan, Government Ayurvedic College and Hospital, Patna, Bihar, India.

Article info

ABSTRACT

Article History: Received: 18-01-2025 Accepted: 24-02-2025 Published: 20-03-2025

KEYWORDS:

Medovaha Srotas, Hvperlipidaemia. Medoroga,Musta Kwath.

Today is the era of modernization and everybody is busy and living stressful life. A variety of health problems might arise from people developing behaviors that discourage them from being active and encourage a sedentary lifestyle. Some of the factors that contribute to chronic non-communicable diseases, which can have near-fatal outcomes, include stress, eating fast food, and not exercising. The burden of metabolic disorders is increasing due to the significant changes that have occurred in daily living during the past century. Hyperlipidemia is one of them, which is potential risk factor for multiple disease like atherosclerosis, metabolic syndrome and even hypertension. The term "hyperlipidemia" refers to elevated serum levels of either triglycerides or cholesterol, or both. In Ayurvedic literature, hyperlipidemia is discussed as Medovriddhi, Rasagata Sneha Vriddhi, and Rasa Raktagata Sneha Vriddhi, among other names. When kept in the body for a prolonged period of time, hyperlipidemia is the same as increased Asthavi Sama Medo Dhatu and causes difficulties. While describing the treatment of *Medovaha Srotas vikar*, I select the drug *Musta*. It is mentioned in Lekhaneeya Dashemani dravyas. The medicine was chosen due to its wide availability, affordability, and variety of applications.

INTRODUCTION

An increase in one or more plasma lipids, such as phospholipids, cholesterol, cholesterol esters, and triglycerides, is known as hyperlipidemia. One of the main risk factors for cardiovascular diseases (CVDs) is hyperlipidemia.

The number of people with hyperlipidemia has increased due to the metabolic effects of dietary and lifestyle modifications.^[1]

The etiological factors for hyperlipidemia can also be attributed to the causes of Medovaha Srotodushti, since Dhatu Dushti arises from any disturbance in the Srotas. The vitiation of Medovaha Srotas can be attributed to various factors such as excessive alcohol use, fatty food consumption, sleep deprivation, and lack of exercise. [2]

Access this article online								
Quick Response Code								
	https://doi.org/10.47070/ayushdhara.v12i1.1876							
	Published by Mahadev Publications (Regd.)publication licensed under a Creative CommonsAttribution-NonCommercial-ShareAlike4.0International (CC BY-NC-SA 4.0)							

In Pathological condition

Consumption of a diet high in fat (Snigdha Ahara) results in increased synthesis and storage of nutrients similar to Medo Dhatu. The Rasa, Rakta, and Mamsa Dhatus are the first to be nourished by the ingested Sneha Dravyas, while the Medo Dhatu is only supplied afterward. This causes an excessive amount of Asthayi Medo Dhatu to form, which is associated with hyperlipidemia, a condition in which the blood contains an excessive amount of lipoproteins accumulated in it.

AIM

An aetiopathological study of Medovaha Srotodushti with special reference to hyperlipidemia and its Upashayatmaka study of Musta Kwath."

OBJECTIVES

- 1. To evaluate the etiology and pathology of disease, Medavaha Srotodushti vis-a-vis hyperlipidemia.
- 2. To assess the Upashayatmaka effect of Musta Kwath in clinically diagnosed case of Medovaha Srotodushti.

3. Try to establish a guideline regarding dietary habit and lifestyle of such type of disease.

MATERIALS AND METHODS

Materials

- *Medovaha Srotodushti, Medoroga, Meda* and *Srotas* were reviewed in all *Samhita*.
- Hyperlipidemia was reviewed in modern texts, journals and internet.
- *Musta* and *Musta Kwath* were reviewed in all *Samhita*, text books, journals and internet.
- *Musta* was provided by Pharmacy of Government Ayurvedic College and Hospital, Kadamkuan, Patna, Bihar.

Methods

A total no. of 30 patients fulfilling the criteria and attending the OPD and IPD of GACH, Patna, were selected for the present study irrespective of age, sex, religion etc. A comprehensive case-taking form was specifically created in accordance with the study's protocol, including all aspects of the illness in both modern and Ayurvedic terminology.

The study has been approved by the institutional ethics committee (Sl. No. 40, Letter no-349, Dated- 30/04/22) and is registered to CTRI (CTRI/2023/03/050276) and consent from each patient was obtained before starting the research work on approved proforma.

Method of Preparation of Musta Kwath

Initially drug *Cyperus rotundus Linn*. Was identified and authentified in pharmacy Government Ayurvedic College and Hospital, Patna. *Motha* rhizomes was procured from the storage of our pharmacy. Firstly, foreign matter was separated with water and kept to sun- dried. They were grinded and coarse *Churna* was made. Total *Musta* coarse powered weight was 38kg. After that packing of *Musta* coarse *Churna* was made. Packet weight was 300gm and in every follow-up one packet was provided for per patient.





C) Weighing of drug D) Sealing of drug

Inclusion Criteria

- 1. The patient having age between 20 to 60 years.
- 2. The patient's sign and symptom should be based on both Ayurvedic as well as modern view.

Exclusion Criteria

- 1. Age above 60 and less than 20 years.
- 2. Immunocompromised patients e.g. HIV etc.
- 3. Severe deformities.
- Pregnant and lactating women not included in this study.
- 5. Patients suffering from type 1 diabetes mellitus and uncontrolled diabetes or hypertension.

Diagnostic Criteria

Patients were diagnosed on the basis of lipid Profile. Any one or more of the following criteria were selected.

- ♦ S. Cholesterol (201mg/dl or more)
- ♦ S. Triglycerides (151mg/dl or more)
- ♦ S. LDL (131mg/dl or more)
- ♦ S. VLDL (41mg/dl or more)

Study Type

- Open randomized clinical study.
- Prior to their inclusion in the trial, all patients provided their informed permission.
- Separate case paper proforma will be prepared as per need.

Drugs and Posology

Tuble Influence (opportub Fotuntuus Innin)						
Botanical Name	Cyperus rotundus Linn. (Bhadramusta)					
Family Name	Cyperaceae					
Hindi	Motha					
Synonyms	Musta, Varidhara, Musta, Meghakhya, Kuruvindaka, Varaha, Abda and Vajakaseruka					

Table 1: Musta (Cyperus rotundus Linn.)^[3]

General Properties & Uses: The tubers have antiinflammatory, digestive, carminative, anthelminthic, stomachic, diuretic, febrifuge, hypolipidemic, antiobesity, antioxidant, and hepatoprotective properties. They are also bitter, acrid, astringent, cooling, and antiinflammatory. It is used to treat intestinal worms, cough, bronchitis, renal and vesical calculi, dyspepsia, and hyperdipsia.

Table 2	2
---------	---

Drug	Musta Kwath
Dose	40 ml BD
Duration	60 days
Kala	Before meals

Pathya Apathya

Every patient who was registered was given instructions on specific food modifications and exercise regimens. Patients were instructed to restrict their intake of saturated fats, such as oil and ghee, when making dietary adjustments. Additionally, they were designed to reduce the consumption of items high in energy, such as rice, potatoes, fried foods, and baked items. Every patient received advice to limit their intake and keep one-third of their stomachs empty. They were also told not to consume chilled water and to stick to lukewarm water. Depending on their ability, all enrolled patients were asked to walk briskly for 30 to 45 minutes as part of their fitness regimen.

Assessment of Therapy Criteria for Assessment

Every fifteen days, the patients were checked up, and in order to evaluate any changes in the patients, an appropriate scoring system and objective indicators were noted. The following objective and subjective criteria were used to evaluate the therapy's effectiveness after two months of treatment.

Subjective Criteria

While the majority of patients came with concerns related to *Medoroga*, no ancient or modern source specifically mentions the signs and symptoms of hyperlipidemia. As a result, a multidimensional scoring pattern was employed for the symptomatic evaluation of the *Medoroga* signs and symptoms, which are subjective in nature. The patients were evaluated twice, with scores assigned based on the intensity of their symptoms both before and after the therapy. The percentage of relief was obtained by statistical analysis in order to evaluate the effectiveness of the therapy.

Absence of symptoms - 0

Mild degree of symptoms - 1

Moderated degree of symptoms - 2

Severe degree of symptoms - 3

The details of the scoring pattern adopted for the main signs and symptoms in the present study were as follows.

1.	Kshudra shwasa	 Dyspnoea after heavy work but relieved after rest - 0 								
	(dyspnoea on	$\circ~$ Dyspnoea after moderate work but relieved late and up to tolerance -1								
	exertion)	$\circ~$ Dyspnoea after little work but relieved soon and up to tolerance -2								
		 Dyspnoea in resting condition- 3 								
2.	Atipipasa	\circ Normal thirst (Up to 2.5 lit to 3.0 lit intake of water in 24 hours) - 0								
		$\circ~$ 3.0 to 4.0 lit intake of water in 24 hours -1								
		\circ 4.0 lit to 5.0 lit water in 24 hours - 2								
		$\circ~$ More than 5 lit. intake of water in 24 hours- 3								
3.	Atinidra	○ Normal sleeps 6–8 hrs/Day -0								
		 Sleep up to 8 hrs/day with Angagaurav - 1 								
		\circ Sleep up to 8 hrs/day with Angagaurav and Jrimbha - 2								
		$\circ~$ Sleep up to 10 hrs/day with <i>Tandra</i> and <i>Klama</i> - 3								
AXZIIC			1							

Table 3: Subjective Assessment

AYUSHDHARA, 2025;12(1):63-72

4.	Kshudha	\circ Feeling of hunger after 6 hours -0
		\circ Feeling of hunger between 5 to 6 hours -1
		\circ Feeling of hunger 4 hours after meal -2
		$\circ~$ Irritable desire of hunger within 3 hours after meal -3
5.	<i>Swedadhikya</i> (at	\circ Sweating after heavy work and fast movement or in hot season -0
	normal	 Profuse sweating after moderate work and movement -1
	temperature in	• Profuse sweating after little work and movement -2
	normal	 Sweating even at rest or in cold season -3
6.	Dourganaya	• Absence of bad smell -0
		• Occasional bad smell in the body -1
		• Persistent bad smell limited to close areas suppress by deodorants -2
		o Persistent dau smell leit from long distance even intolerable to the patient himself -3
7	Chala Sphika	$\sim \text{Absence of Chalatva}_0$
/.	Udara Stana	\sim Little visible movement after fast movement -1
	ouur a bounta	\sim Little visible movement after moderate movement -2
		\circ Movement even after changing posture -3
0	Dourhalua	 Con do routino oversico. 0
0.	Dourbulyu	\circ Can do moderate exercise without difficulty -1
		\circ Can do mild evercise with very difficult -2
		\circ Cannot be even mild every \circ -3
0	Snjadhanaata	Normal Sniadhata 0
9.	Shiyunungutu	 Oily complexion of body in summer season -1
		\circ Only complexion of body in summer season -1
		 Always feel oiliness need special care-3
10	Sandhi Shoola	 Na noin 0
10	Sunum Shoolu	 No pain -0 Mild pain due to excessive walking 1
		 Mild pain due to excessive walking -1 Moderate pain due to excessive walking later up to tolerance -2
		\circ Moderate pain due to excessive waiking later up to toterative -2
11	Alagua	• Severe pain at the time of resting of sitting also -5
11.	Alasya/ Utsahahani	• No Alasya (doing work satisfactorily with proper vigor in time) -0
	otsunununi	• Doing work satisfactority with late initiation late in time with lat of montal stress 2
		 Doing work unsatisfactory with initiation late in time with lot of mental stress -2 Does not have initiation and do not want to work even after motivation. 2
10	Cartana Cardan	S Does not have initiation and do not want to work even after motivation -5
12	Gatra Sada	• No ratigue -0
		 Little ratigue in doing nard WORK -1 Mederate fatigue in doing routing work -2
		• Mouerate ratigue in doing routine work -2
		O Excessive laugue even in uong nue work -3
13.	Anga Gaurava	• No heaviness in body -0
		• Feels heaviness in body which occasionally hamper daily routine work -1
		• Feeling of heaviness in body which frequently hamper normal activities -2
		• Feeling of heaviness throughout the day totally hampering normal activities- 3

The evaluation was conducted both prior to the initiation of the therapy and sixty days later, upon its conclusion. The improvement was evaluated using statistical analyses and the percentage of relief that was attained.

Objective Criteria Biochemical Test

Complete lipid profile as S. Cholesterol, S. Triglycerides, S. HDL, S. LDL, and S. VLDL were

investigated biochemically both before and after treatment.

Anthropometric measurements

Body mass index (BMI) can be used to classify those who are under- or over- nutrition. It is calculated by squared the weight in kilograms divided by the height in meters.^[4]

Body Mass Index as a Prognostic Indicator

The disorders linked to an adult's high body mass index (BMI) are divided into three categories by the World Health Organization:

- 1. **Slightly increased risk:** Cancer of the breast, endometrium, and colon; changes in fertility and reproduction; polycystic ovary syndrome; low back pain; increased risk of anesthesia; and birth abnormalities.
- 2. **Moderately increased risk**: Chronic heart disease, hypertension, osteoarthritis and gout.
- 3. **Greatly increased risk:** Dyspnoea, insulin resistance, dyslipidemia, gallbladder disease, and sleep apnea. Obesity has been a significant risk factor for fatty liver in recent years. ^[5]

Obesity and BMI (kg/m ²)							
WHO Criteria Indian Criteria							
Normal	18-25	18-23					
Overweight	<30(26-29)	≤ 25					
Obesity	> 30(30-39)	<25					
Morbid obesity	>40	≥32.5					

Table 4: Obesity and BMI [6]

Waist-hip ratio: When the body is upright, the measurement of the abdominal circumference is made at the level of the greater trochanter and at the point that is equally spaced between the iliac crest and the Costal margins. The statement suggests that abdominal obesity is a component of metabolic syndrome. abdominal obesity is indicated by waist circumference.

> 102 cm (>90cm in Indian) in men and

> 88 cm (≥80cm in Indian) in women. [7]

Effect of therapy on various biochemical parameters

Based on the overall impact of therapy: The percentage of score reduction was used to evaluate the overall impact of therapy.

•	-	
	Table	5

Assessment	Score
Marked improvement	>75%
Moderately improvement	50-75%
Mild improvement	25-50%
No change	<25%

Statistical Analysis

A statistical analysis was conducted using B.T. (before treatment) to examine all of the observations gathered on different parameters. The following tests were run: Wilcoxon's signed rank test, Paired 't' test, Mean (x), Standard deviation (S.D.), Standard error (S.E.), and P>0.05, P<0.05, P<0.01, and P<0.001. The Wilcoxon signed Rank test was used to evaluate the subjective parameter, while the Paired 't' test was used to evaluate the objective parameters.

The obtained results were interpreted as Wilcoxon's Signed Rank test Paired 't' test

Insignificant P>0.05

Significant P<0.05, P<0.01

Highly significant P<0.001

OBSERVATION

In this study maximum 46.6% patients belonged to age group of 41-50 years. Out of 30 patients 56.6% patients were male and 43.33% patients were female. In which 96.66% patients were from Hindu community, while only 3.33% patients were from Muslim community. The socioeconomic status showed that maximum patients belonged to middle class (43.33%) followed by patients who belonged to poor class (16.66%). According to occupation maximum patients were housewives (33.33%) followed by of patients doing business (26.66%).

Deha Prakriti wise observation showed that maximum patients had Kaphapradhana Pittanubandhi Prakriti (53.33%), followed by patients having Kaphapradhana Vatanubandhi Prakriti (43.33%) and Pittapradhana Vatanubandhi Prakriti (3.33%) respectively. Maximum number of patients 76.67% were taking both vegetarian and non-vegetarian food. According to this study, up to 53.33% of patients engaged in irregular exercise. 26.67% patients were not performing any type of exercise. 80% of the patients slept soundly, and the majority slept for seven to nine hours per day

The *Aharaatmaka Nidana* reported as *Atibhojana* in 70% patients, *Snigdhahara* in 63.33%

AYUSHDHARA, 2025;12(1):63-72

patients, *Dadhi sevana* in 53.33% patients, *Atimadhura Ahara* in 43.33%, *Guruahara* in 30%, *Mamsarasaevana* in 23.33% patients, *Sheetahara* in 13% patients and *Sarpi* in 10% patients. *Viharaatmaka Nidana* recorded in present series were *Diwaswapana* in 80% patients, *Sukhsaiyasevana* in 30% patients, tobacco/smoking in

33.3% patients, *Avyayama* in 26.66% patients and *Avyavaya* in 13.33% patients.

RESULT

In this present clinical study, the trial drug *Musta Kwath* was given in 30 patients in which all 30 patients completed the trial for a period of 60 days and results are as follows:

Kshudra Shwasa	Mean	Median	SD	SE	Wilcoxon Z	P-Value	% Effect	Result		
BT	1.30	2.00	0.92	0.17	-4.600 ^b	0.0000.40	58.97	Sig		
AT	0.53	0.50	0.57	0.10		0.0000042				

Table 6: Effect of Drug on Following Symptoms

Ati pipasa	Mean	Median	SD	SE	Wilcoxon Z	P-Value	% Effect	Result
ВТ	1.70	2.00	0.88	0.16	-4.973 ^b	0.000007	F0.02	C:-
AT	0.70	1.00	0.70	0.13		0.0000007	58.82	Sig

Atinindra	Mean	Median	SD	SE	Wilcoxon Z	P-Value	% Effect	Result
ВТ	0.77	1.00	0.86	0.16	2 6 2 0 h	0.0002747	65.22	Sig
AT	0.27	0.00	0.52	0.10	-3.030			

Kshudha	Mean	Median	SD	SE	Wilcoxon Z	P-Value	% Effect	Result	
ВТ	1.33	1.00	0.76	0.14	4.1.4.Cb	0 0000220	47 50	C: a	
AT	0.70	1.00	0.53	0.10	-4.140	0.0000338	47.50	Sig	

Swedadhikya	Mean	Median	SD	SE	Wilcoxon Z	P-Value	% Effect	Result
ВТ	1.23	1.00	0.68	0.12	2 0 2 0h	0.0046777	21 (2	C: a
AT	0.97	1.00	0.56	0.10	-2.8285	0.0046777	21.02	Sig

Dourgandya	Mean	Median	SD	SE	Wilcoxon Z	P-Value	% Effect	Result
ВТ	0.47	0.00	0.63	0.11	2 207h	0.0012406 05.71	Sig	
AT	0.07	0.00	0.25	0.05	-3.2075	0.0013400	05.71	Sig

Chala Sphika Udara Stana	Mean	Median	SD	SE	Wilcoxon Z	P-Value	% Effect	Result
BT	1.30	1.00	0.88	0.16	2 0 2 0h	0.0046777	20 51	Sig
AT	1.03	1.00	0.85	0.16	-2.828	0.0046777	20.51	Sig

Dourbalya	Mean	Median	SD	SE	Wilcoxon Z	P-Value	% Effect	Result
BT	0.97	1.00	0.81	0.15	4 F O2h	0.0000046	72 41	C: a
AT	0.27	0.00	0.58	0.11	-4.585	0.0000046	/2.41	Sig

Snigdhangata	Mean	Median	SD	SE	Wilcoxon Z	P-Value	% Effect	Result
ВТ	0.63	1.00	0.61	0.11	2.000b	0.0026000 47.27	C: ~	
АТ	0.33	0.00	0.55	0.10	-3.000	0.0026998	47.37	Sig

Ankita Sajwan, Basant Kumar Thakur. An Aetiopathological Study of Medovaha Srotodushti with special reference to Hyperlipidemia and its Upashayatmaka Study of Musta Kwath

Sandi Shoola	Mean	Median	SD	SE	Wilcoxon Z	P-Value	% Effect	Result
BT	1.53	2.00	0.63	0.11	Г 12Гh	0.0000002	(5.22	C: a
AT	0.53	1.00	0.51	0.09	-5.135	0.0000003	05.22	Sig

Alasya/ Utsahahani	Mean	Median	SD	SE	Wilcoxon Z	P-Value	% Effect	Result
BT	0.40	0.00	0.56	0.10	2 000h	0.0026000	75.00	Sig
AT	0.10	0.00	0.31	0.06	-3.0005	0.0026998	/5.00	Sig

Gatra Sada	Mean	Median	SD	SE	Wilcoxon Z	P-Value	% Effect	Result
BT	0.97	1.00	0.81	0.15	2 21 7h	0.0000111 27.02	C: a	
AT	0.60	1.00	0.56	0.10	-3.3175	0.0009111	57.93	SIg

Angagaurva	Mean	Median	SD	SE	Wilcoxon Z	P-Value	% Effect	Result
ВТ	1.43	2.00	0.82	0.15	4 F 2 2 h	0.000061 EE.91	C:~	
AT	0.63	1.00	0.56	0.10	-4.5230	0.0000061	55.81	SIg

Table 7: Effect of Drug on BMI (kg/m²)											
BMI (kg/m²)MeanNSDSEt-ValueP-Value% ChangeResult											
BT	29.07	30	5.15	0.94	10 (52	0.000	2.04	C: a			
AT	27.93	30	4.94	0.90	10.652	0.000	3.94	Sig			

Table 8: Effect of Drug on Waist Circumference (cm)

Waist Circumference (cm)	Mean	Ν	SD	SE	t-Value	P-Value	% Change	Result
ВТ	102.10	30	11.84	2.16	0,600	0.000	1.06	Sig
AT	100.10	30	11.47	2.09	0.090	0.000	1.90	Sig

Table 9: Effect of Drug on Hip Circumference (cm)

Hip. Circumference (cm)	Mean	Ν	SD	SE	t-Value	P-Value	% Change	Result
BT	110.40	30	12.52	2.29	0 1 0 1	0.000	2.02	C: a
АТ	108.17	30	12.34	2.25	9.191	0.000	2.02	SIg

Table 10: Effect of Drug on WHR

WHR	Mean	Ν	SD	SE	t-Value	P-Value	% Change	Result
ВТ	0.93	30	0.08	0.01	0.246	0.721	0.10	NC
AT	0.93	30	0.08	0.01	-0.340	0.731	0.10	N3

Table 11: Effect of Drug on Lipid Profile

Total Cholesterol (mg/dl)	Mean	N	SD	SE	t-Value	P-Value	% Change	Result
ВТ	196.07	30	48.71	8.89	4 0 2 0	0.000	12.06	Sig
AT	168.91	30	22.94	4.19	4.828	0.000	15.80	SIg

AYUSHDHARA, 2025;12(1):63-72

Serum LDL (mg/dl)	Mean	N	SD	SE	t-Value	P-Value	% Change	Result
ВТ	114.13	30	46.28	8.45	2042	0.000	17.00	Sig
AT	93.61	30	23.44	4.28	5.942	0.000	17.90	Sig

Serum VLDL (mg/dl)	Mean	N	SD	SE	t-Value	P-Value	% Change	Result
BT	44.61	30	13.95	2.55	()17	0.000	26.04	C: a
AT	32.99	30	7.35	1.34	0.317	0.000	20.04	Sig

Serum HDL (mg/dl)	Mean	N	SD	SE	t-Value	P-Value	% Change	Result
ВТ	41.83	30	8.12	1.48	0 721	0 477	0.00	NC
AT	42.25	30	6.49	1.18	-0.721	0.477	0.99	IN S

Serum. Triglycerides (mg/dl)	Mean	N	SD	SE	t-Value	P-Value	% Change	Result
BT	224.31	30	69.02	12.60	6 504	0.000	26.22	Sig
AT	165.47	30	36.63	6.69	0.394	0.000	20.25	Sig

Table 12: Incidence of Signs and Symptoms

Parameter	No. of Patients	Percentage
Kshudra Shwasa	22	73.33%
Ati pipasa	28	93.33%
Ati nindra	16	53.33%
Kshudha	26	86.67%
Swedadhikya	27	90.00%
Dourgandya	12	40.00%
Chala Sphika Udara Stana	24	80.00%
Dourbalya	22	73.33%
Snigdhangata	17	56.67%
Sandi Shoola	28	93.33%
Alasya/ Utsahahani	11	36.67%
Gatra Sada	21	70.00%
Anga Gaurva	25	83.33%

Table- 13: % Effect of Therapy

Parameter	% Effect
Kshudra Shwasa	58.97
Ati pipasa	58.82
Ati nindra	65.22
Kshudha	47.50
Swedadhiya	21.62
Dourgandya	85.71

Ankita Sajwan, Basant Kumar Thakur. An Aetiopathological Study of Medovaha Srotodushti with special reference to Hyperlipidemia and its Upashayatmaka Study of Musta Kwath

Chala Sphika Udara Stana	20.51
Dourbalya	72.41
Snigdhangata	47.37
Sandi Shoola	65.22
Alasya/ Utsahahani	75.00
Gatra Sada	37.93
Anga Gaurva	55.81
Average % Effect	54.78

Table 14: Overall Effect of Therapy

	F 5				
Overall Effect	Frequency	Percentage			
Marked Improvement	0	0.00%			
Moderate Improvement	19	63.33%			
Mild Improvement	11	36.67%			
No Improvement	0	0.00%			
Total	30	100.00%			

Table 15: Probable Mode of Action of the Drug

Tikta rasa	Agnideepaka, Pachana, Lekhana, Kled or Meda sosaka (Cha. Su 26/43)
Katu rasa	Agnideepaka, Sareer Sneha nasak, Kaphanasak, Sroto Sodhana. (Cha. Su. 26/43)
Kashaya rasa	Shleshma Prasamana, Kledasosaka. (Cha. Su.26/43)
Laghu guna	Lekhana (Su. Su. 46/526)
Ruksha guna	Kapha sosaka, Kledanashaka, <mark>Me</mark> dasosaka

All the above property of *Musta* helps to reduce *Medovaha Srotovikar*. It rectifies the *Agnimandhya* and reduces *Ama Medo Dha*tu which obstructs the *Srotas* (channels). *Kled Sosaka* and *Meda* and *Kapha Sosaka* property also reduce unwanted *Ama Kapha* and *Medo Dhatu* by drying it. *Lekhana* property of this drug scrapping off the unwanted *Dhatu* obstructs the channels. Hence, we can say that *Musta* is one of the drug which reduce *Medovaha Srotovikar*.

CONCLUSION

After the careful observation of the results obtained from the study entitled "An aetiopathological study of *Medovaha Srotodushti* with special reference to hyperlipidemia and its *Upashayatmaka* study of *Musta Kwath*" following conclusion can be drawn:

- The trial drug provided significant effect in Kshudra Shwasa (58.97%), Pipasa (58.82%), Nidradhikya (68.75%), Kshudha (47.50%), Daurgandhya (85.71%), Chala Sphika Udara Stana (20.51%), Snigdhangata (47.37%), Swedadhikya (21.62%), Dourbalya (72.41%), Sandi Shoola (65.22%), Alasya (75.00%), Gatra Sada (37.93%) and Anga Gaurva (55.81%).
- Effect of trial drug provided statistically significant changes in BMI, waist and hip circumference.

- Effect of drug on objective parameters provided statistically significant relief in total cholesterol, serum triglyceride, serum LDL, serum VLDL. There is no significant change observed in serum HDL.
- In this study out of 30 patients treated 19 patients (63.33%) showed moderate improvement and 11 patients (36.67%) showed mild improvement. None of the patients showed marked improvement or no improvement.
- There is no direct reference of hyperlipidemia in Ayurvedic classics but it can be referred as Medovaha Srotodushti. In which Asthayi Medo Dhatu is formed due to deformity of Medovaha Srotas.
- Guru, Snigadha, Shleshmala, Atipicchil, and Abhishyandi attributes of food raise the Kapha Dhatu and Medo Dhatu, according to the Ayurvedic perspective. Overindulgence in these foods raises Abaddha Medo Dhatu levels in our bodies, which eventually interfere with Medovaha Srotas and cause hyperlipidemia.
- Katu, Tikta, Kashaya rasa, Lagu, Ruksha guna, and Katu vipak are present in Musta. These characteristics of Musta help in the better metabolism of fats and their metabolic processes.

- Musta has a major impact on Medodushti Lakshanas and in lowering measurable parameters like body circumference, weight, and BMI.
- Nidanaparivarjana is one of the basic management for Medovaha Srotodushti. If we control our caloric intake, in such patient's cholesterol, triglyceride, blood glucose and blood pressure level fall.
- Exercise is one of the important factors to reduce Triglycerides level.
- Modifications to diet and lifestyle are beneficial for treatment of hyperlipidemia and *Medovaha srotodushti.*

REFERENCES

- Harrison's Principles of Internal Medicine Editors Dennis L. Kasper. (et al.), 16th Edition, Volume 2nd 2005, Page-2286.
- 2. Caraka Samhita of Agnivesa part 1st, By Pt. Kasinatha Sastri and Dr. Gorakha Natha Chaturvedi, Chowkhamba Bharati Academy, Reprint Edition 2013, Vimanasthana, Chapter 5, page-713.

- 3. Madanapala Nighantu by Dr. J.L.N. Sastry Forward by Dr. K. Raghunathan, First Edition: 2010, Chaukhambha Orientalia, Varanasi, page- 172- 174.
- Davidson's Principles and Practice of Medicine Edited by Brain R. Wailer, Nicki R. Colledge, Stuart H. Ralston and Ian D. Penman 22nd Edition 2014, Churchili Livingstone Elsevier, Page- 114.
- 5. Body Mass Index New research editor Linda A. Ferrera 2005 by Nova Science Publishers page or https://www.google.co.in/books/edition/Body_M ass_Index/dxLcCbv0Q_IC?hl=en&gbpv=1&dq=BMI &printsec=frontcover.
- Clinical Methods in Medicine, Clinical Skills and Practices by SN Chugh, and Eshan Gupta- 2nd Edition 2015, Jaypee Brothers Medical Publishers (P) Ltd, Page -56
- Clinical Methods in Medicine, Clinical Skills and Practices by SN Chugh, and Eshan Gupta- 2nd Edition 2015, Jaypee Brothers Medical Publishers (P) Ltd, Page - (55-56).

Cite this article as:

Ankita Sajwan, Basant Kumar Thakur. An Aetiopathological Study of Medovaha Srotodushti with special reference to Hyperlipidemia and its Upashayatmaka Study of Musta Kwath. AYUSHDHARA, 2025;12(1):63-72. https://doi.org/10.47070/ayushdhara.v12i1.1876 Source of support: Nil, Conflict of interest: None Declared *Address for correspondence Dr. Ankita Sajwan PG Scholar Department of Roga Nidana evam Vikriti Vigyan Government Ayurvedic College and Hospital, Patna Email: ankusajwan332@gmail.com

Disclaimer: AYUSHDHARA is solely owned by Mahadev Publications - A non-profit publications, dedicated to publish quality research, while every effort has been taken to verify the accuracy of the content published in our Journal. AYUSHDHARA cannot accept any responsibility or liability for the articles content which are published. The views expressed in articles by our contributing authors are not necessarily those of AYUSHDHARA editor or editorial board members.