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RESEARCH ARTICLE

THERAPEUTIC REVIEW OF BILVADI PANCHAMULA (BRUHAT PANCHAMULA) IN THE MANAGEMENT OF STHAULYA

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ABSTRACT

Acharya Sushruta has mentioned the main constituent of pathogenesis of Shaulya (Obesity) is Dhatwagni Mandya (decrease in the functional efficacy of Dhatwagnigni). Acharya Charaka described Atisthoola is a person having pendulous appearance of Sphika, Udara and Stana due to excess deposition of Meda (Fatty tissue) along with Mamsa Dhatu (Mus cle tissue) and having in adequate abnormal distribution of Meda with reduced zeal towards life. The disease Sthaulya originates due to consumption of Kapha Vriddhikara Ahara (Kapha Dosha Vitiating diet), Vihara (exercise) and Manasa Nidana (Psychological Causes). Bilvadi Panchamula (Bruhat Panchamoola) contains Bilva, Agnimantha, Shyonak, Kashmari and Patala which encounters Vata and Kapha Dosha by virtue of its Tikta, Kashay-Rasa dominance and Ushna-Virya. Tikta-Rasa performs Medo-Kledopa- Shoshana action. Sthairya Guna of Madhura Rasa combats Sharira Shaithilya. Ushna-Virya also helps in Kleda and Meda Vilayana action. Tikta-Rasa, Ushna-Virya, Laghu Guna encounters Dhatwagnimandya and potentiates the weakened Dhatwagni and help in Amapachana, thereby alleviates Aparipakwa and Ama Dhatu. Ultimately act as Medohar and breaks the Samprapti of Sthaulya.

INTRODUCTION

Sthaulya (obesity) is now a day became a global health problem caused due to sedentary life styles and changing environment, accompanied with faulty irregular dietary habits which lead to many diseases. The industrialization, stress during the work, lack of exercise and various varieties of the daily diet e.g. fast food, freeze fruits, increased amount of soft drinks and beverages, canned foods result into the clinical entity called as Sthaulya. Many institutions and Medical schools are making efforts to find a perfect remedy for this burning problem. Sthaulya leads to various complications. The long term dangers of Sthaulya are like a sword hanging over one's head tied in a weak thread which can strike at any time and create numerous difficulties and boundless miseries. Acharya Charaka has classified Sthaulya under "Ashta Nindit Purusha" (eight despicable personalities)¹.

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Atisthaulya is also mentioned as Sanatarpan Janya vyadhi (disease due to overeating)². Sushruta has Mentioned it as Medadoshaja Roga and Dhatvagni Mandya as the main cause of the etiopathogenesis of Sthaulya Roga². Further elaboration of line of treatment has been described by Acharya Sushruta with many remedies described for the management of Sthaulya at different places which indicates railing condition of the disease in that time of society. Types of Sthaulya and their management have been first time mentioned by Vriddha Vagbhata in Ashtanga Sangraha Sutrasthana. Vriddha Vagbhatta and Vagbhatta have elaborated etiopathogenesis of Sthaulya on the basis of formation of Ama and disturbance of the process of Dhatu Parinamana (Process of Dhatu formation).

Nirukti of *Sthaulya:* The person who has heaviness and bulkiness of the body due to extensive growth of *Meda* (fat) in *Udaradi* (abdominal) region is called as "*Sthula*" and the state of *Sthula* is called "*Sthaulya*".⁵

Paribhasha of Sthaulya: Acharya Charaka has defined Atisthula is person having inordinate increase of fat and flesh,

which dis figured his appearance and has pendulous, buttocks, belly and breasts with increasing bulk not matching by a corresponding increase in energy". 6 Nidana (Causative Factors) of Sthaulya

Several etiological factors of *Sthaulya* related to different aspects of life that affect the body from outside and inside are described in *Samhitas*. The hereditary (*Bija Dosha*), dietetic, regimen and psychological factors cause *Sthaulya* as per *Charaka Samhita*. These are mostly of exogenous type and vitiate *Vata*, *Meda* and *Shleshma* resulting is *Sthaulya*. *Dhatwagni-Mandya* (decrease in the functional efficacy of *Dhatvagni*) is the main cause besides other components in etiopathology of *Sthaulya* according to Vagbhata. All the causative factors described in *Ayurved* classics can be classified into four groups described in table no 1.

According to different Acharyas, Rupas of Sthaulya are, Kshudra Shwasa (Dyspnoea), Nidradhikya (Excessive sleep), Gatrasada (Numbness of limbs), Gadgadadhvani (Slurred speech), Krathana (Sudden catch of breath), Alpaprana (Less energy), Sarvakriyasu Asamarthata (Incapable of doing any work), Alpavyavaya (Lack of sexual urge), Kasa (Cough), Shvasa (Asthma), Snigdhangata (Unctousness in body), Udaraparshva vriddhi (Excess accumulation on abdomen and chest), Alasya (Laziness), Ama, Moha (Delusion), Saukumarata (Cannot sustain difficulty), Anga Shaithilya (Looseness in parts) and Alpabala (Lack of power). 11

Samprapti of Sthaulya

The whole process of the manifestation of disease can be explained based on different *Hetu sewan* (causative factors) in the diagram ¹³

Classification of Sthaulya

In Ayurveda text there is no clear classification of Shtaulya available. Only Astanga Hridaya and Astanga Sangraha has described three types of Sthaulya i.e. Adhika, Madhya and Hina while describing the indications of Langhana upakrama¹⁴. Acharya Charaka has mentioned Sthoola and Atisthoola¹⁵. Acharya Sushruta has mentioned Sthaulya and Medoroga¹⁶. Classification of Sthaulya can be done in following table No.4 A number of herbs and herbominerals has been described in the ancient Ayurveda text for the treatment of Sthaulya. Acharya Charaka has mentioned brief treatment of Astisthaulya and use of Bilvadi Panchamula churna¹⁷ with Madhu (honey) is one of the treatment Yoga (remedy) which can be very effective in the treatment of Sthaulya.

Objectives

- To review literature of *Sthaulya*.
- To review literature of Bilvadi Panchamula
- To Study the therapeutic effect of *Bilvadi Panchamula* in the management of *Sthaulya*.

METHODOLOGY

A systemic Review was done from various ancient Samhita and text book for Sthaulya, Dravya Guna Vidhnyanam,

Ayurved Pharmacopeia of India, and contents of Bilvadi Panchamula.

Bilvadi Panchamula: Actions which bring the equilibrium of Dhatu, constitute the treatment of diseases. According to Acharya Charaka, "Chikitsa" aims not only at the radical removal of the causative factors of the disease, but also at the restoration of the Doshik equilibrium". According to Acharya Charaka treatment of Sthaulya includes Vataghna-Kapha-Medaghna Ahara (diet which controls Vata, and Kapha And Meda Dhatu.), Basti (Medicated enema) treatment with of dugs having Ruksha —Ushna properties along with the many formulations and Bilvadi Panchamoola with Madhu is one of them. Madhu has Kapha-Medoghna property by his Chedan-Ruksha Guna, Madhur-Kashaya Rasa. Properties of Bilvadi Panchamoola has been described by various ancient text in table no 5 it is as follows

Mode of action

The mode of action of Bilvadi Panchmola on Sthaulya can be explained as follows:

The disease Sthaulya originates due to consumption of Kapha Vriddhikara Ahara, Vihara Avyayam, Manasa Nidana. These factors derange Jatharagni causing Ama Annarasa, which results in Medodhatvagni- mandya. This condition leads to the excessive growth and accumulation of Mansa-Medodhatu, causing the manifestation of disease Sthaulya. Bilvadi Panchamooola contains Bilva, Agnimantha, Shyonak, Patala, Gambhari . All these drugs encounters Kapha Dosha Meda dhatu by virtue of its Katu, Kashay-Rasa dominance and Ushna-Virya when used along with Madhu which has Kapha-Medoghna property. Meda and Kleda are the chief culprits in Sthaulya. Katu-Rasa performs Medo-Kledopa-Shoshana action. Sthairya Guna of Madhura Rasa combats Sharira Shaithilya. Ushna-Virya also helps in Kleda and Meda Vilayana action. Katu-Rasa, Ushna-Virya encounters Dhatwagnimandya and potentiates the weakened Dhatwagni and help in Amapachana thereby alleviates Aparipakwa and Ama Dhatu. Ultimately act as Medohar and breaks the Samprapti of Sthaulya.

DISCUSSION

Sthaulya (obesity) is a non-communicable disease, which provides the platform for so many

Threats like Hypertension, Cardiovascular disease, diabetes and Osteoarthritis, infertility, impotency as well as psychological disorders like stress, anxiety, depression, etc. Thus, the mortality and morbidity are more in obese person compared to others. In condition of Sthaulya, Jatharagni is found in excessive condition whereas Medodhatvagni is found in Manda condition. It is due to Avarana of Vayu in Kostha. So, the person indulges more food, which produce excessive Meda and vitiated Vayu, this cycle go on. This cycle can be broken (Samprapti Vighatana) by Katu-Rasa and Ushna-Virya Pradhana Drugs which are included in Bilvadi Panchamooola which decreases Meda by its Lekhana, Shoshana and Kaphanashaka properties when taken with Madhu. BilvadiPanchamoola has Pachan property which prevents Amarasa formation caused due to excessive intake of Madhur Ahara(Atisampuran).

Table no 1. Nidana Of Sthaulya

Sr. No	Types of Nidana	Nidana
1.	Aharatmaka	Atibhojana (Excessive eating), Guru Aharasevana (Consumption of food which heavy to digest), Madhura Aharasevana
	Nidana	(Sweet food), Sheeta Aharasevana (Consumption of cold diet), Snigdha Aharasevana (Consumption of unctuous food), Navanna Sevana (Usage of fresh grains, Cearls), Nava Madhyasevena (Usage of fresh alcoholic preparation), Gramya Rasa sevana (Usage of domestic animal's meat and soups), Paya Vikara Sevana (Usage of milk and its preparations), Dadhi Sevana (Use of curd), Sarpi Sevana (Use of ghee), Sleshmala Aharasevana (Kapha increasing food), Ikshu Sevana (Use of curd), Cold Vilage Sevana (Use of Sev
		(Usage of sugarcane), Guda Vikara Sevana (Usage of Jaggery preparations), Mamsa Sevana (Use of meat), Shali sevana (Use of rice), Masha Sevana (Use of black gram), Godhuma Sevana (Use of wheat), Audak Rasa Sevana (Usages of aquatic animal's meatand soups)
2.	Viharatmaka Nidana	Avyayama (Not exercising), Avyavaya (Avoiding sex), Divaswapa (Day sleep), Sukha Shaiya (Comfortable bed), Snana Sevana (Bathing), Gandhamalyanu Sevana (Anointment with fragrent unction's and wearing of garlands), Swapna Prasangat (Excessive sleep)
3.	Manas Nidana	Harshanityavat (Always in the state of happiness), Achintan (Devoid of worries), Manasonivritti (Relaxed state of mind), Priyadarshana (Meeting with loved ones), Saukhyena (Good health)
4.	Anya Nidana	Amarasa (improperly digested Rasa), Snigdha-Madhura Basti (Sweet unctuous enema), Tail Abhyanga (Oil Massage), Snigdha Udvartana (Unctuous Udvartana), Bijadoshasvabhavat (Hereditary)

Table 2. Rupa of Sthaulya

Sr. No	Rupa
1	Aayushrhasa (Decrease life span)
2	Javoparodha (Slow movement)
3	Krucchavyavayata (Difficulty in Sex)
4	Daurbalya (Weakness)
5	Daurgandhyam (Foul Smell)
6	Sve dabadha (Excessive amount of sweat)
7	KshuKshudhanam Atimatram (Exc essive amount of Hunger)
8	Atipipasa (Excessive amount of thirst)
9	Chala Sphika (Excess fat on buttocks)
10	Chala Udara (Excess fat on abdomen),
11	Chala Stana (Excess fat on chest)
12	Ayatha Upachaya (Disproportionate body)
13	Anutsaha (Lack of enthusiasm)

Table no 3. Sampra pti G hatak of Sthaulya

Dosha	Kapha-Kedaka, Pitta-Pachaka Vata-Samana, Vyana
Dushya	Rasa, Meda, Mansa Dhatu
Agni	Jatharagni Tivrata, Parthiva, Apya Bhutagni, Raxa & Meda Dhatvagni
Ama	Dhatvagnimandyajanita Ama
Strotas	Medovaha Strotas
Strotodushti	Sanga, Margavarodha, Ama Annarasa-Atipravrutti
Adhisthana	Whole body particularly Vapahana and Medo Dharan Kala
Udbhavasthana	Amashaya
Prasara	Rasayani
Rogamarga	Bahya
Vyaktisthana	Sarvanga specifically Sphik, Udara, Stana and Gala

Table no 4. Classification of Sthaulya

Sr. No	Acharya Name	Classification
1	Vagbhata	Hina Sthaulya Madhy am Sthaulya Ati Sthaulya
2	Charak	Sthoola AtiSthoola
3	Sushrut	Sthaulya Medoroga

Table no 5. Properties of Bilwadi Panchamula

Sr. No	Dravya	Rasa	Virya	Vipaka	Guna	Karmıkatva	
1.	Bilva ¹	Kashay.	Ushna	Katu	Laghu,	Pachck,Grahi,Ruksha,Agni-	
	(Aegle Marmelos)	Tikta			Ruksha	PittaKrut, Vata-Shleshmahara	ı
2	Agnimanthá [‡] (Prem na Mucronata)	Tikta Katu, Kashay, Madhur	Ushna	Katu	Laghu, Ruksha	Pachan,Agnimandya Nashanan,Dipanam, Kapha-Vataghna	
3	Shyonak ²⁵ Madhur-		Ushna	Katu	Laghu,	Dipan,grahi,Vata-Kapha	
	(Oroxy lum indicum)	Tikta-Kashay			Ruksha	Doshaghna, Amanashana	
4.	Patalā ⁴ (Stereosperm um sauveolens)	Tikta-Kashay	Ushna	Katu	Laghu, Ruksha	Tridoshaghna,Pachak, Amlapittaghna	
5.	Gambharí°	Tikta, Kashay, Madhur	Ushna	Katu	Guru	Tridoshaghna,	Dipan,
6	(Gmelina arborea) Bruhatpanchamula°	Tikta-Kashay-Madhur	Ushna	Katu	laghu	Pachan,Amashoolaghna, Rasayana Agnidipanam, Kapha-Vataghna,	

it also has *Vatghna* property due to its *Ushna Virya* which leads to keep *Vata Dosha* in its *Stahana Awastha* and prevent it from getting circulated in *Kostha* and does breaks the *Samprapti* of *Sthaulya*. Also *Bilvadi Panchmoola* and *Madhu* can remove *Medovaha Strotas Khavaigunya* by *Tikta-Kashay-Madhur Rasa, Ushna –Virya,Katu-Vipaka properties*.

Conclusion

Sthaulya has devastating effect on human body. It affects overall physical status along with social status. Atusampuran, Excessive intake of Madhur Ahara, Avyayam, and Medovahastrotasdusthi are the main causative agent for manifestation of Sthaulya. Excessive formation of Mansa-Medadhatu, Vitiation of Kapha Dosha, Vimargamanam of Vatadosha and excessive increase in Agni are the main factors which are actually involved in the pathogenesis of Sthaulya. Bilvadi Panchamoola has Kashay-Madhur Rasa, Ushna -Virya, Katu-Vipaka properties while Madhu has Kapha-Medoghna, Lekhan Propery which can lead to Mansa -Medoekhan.. Bilvadi Panchamoola does Ama-Annarasa P achana by its Kashaya Tikta-Rasa, it also controls vitiated Vata Dosha by its Ushna Guna and prevents Vata Dosha form getting moved into Kostha, Bilavdi Panchamoola when used used with Madhu can break Samprapti of Sthaulya by controlling all responsible factors. So, from current study it can be concluded that use of Bolvadi Panchmoola with Madhu will be effective in treatment of Sthaulya.

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