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THE HOLISTIC APPROACH FOR OBESITY MANAGEMENT A CASE STUDY

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ABSTRACT:

Obesity comes with many health hazards and numbers of overweight persons are increasing rapidly worldwide and in our country also. There are many ayurvedic drugs under research for obesity management. Need is to control overweight along with improvement in general health aspects. *Maharshi Charak* describes principle of management for obesity i.e. *Sthaulya* in 23rd chapter of *Sutrasthan*. A 38 years old female patient having 90 kg weight and 36.8 kg/m² BMI consulted OPD, Dept. of Basic Principles, IPGT & RA. *Musta-Aaragvadhadi Yoga* (in *Kashaya* form) from *Charak Samhita*, *Sutrasthan* 23rd chapter along with dietary changes and lifestyle modifications was administered for 60 days. Bodyweight was reduced to 78 kg and BMI was reduced up to 31.64 kg/m². Significant changes were noted in subjective parameters as well as objective parameters like skinfold thickness, fat percentage, and body girth measurement after completion of the management. This observation shows importance and utility of ancient protocol for obesity. The detailed description and probable mode of action of treatment protocol will be discussed in full paper. This can be an effective management for the disease and its study on larger scale may give clear picture of its encouraging effect.

Key words: obesity, charak samhita, holistic approach

INTRODUCTION: Holistic / means, relating to or concerned with wholes or with complete systems rather than with the analysis of, treatment of, or dissection into parts. Rather than dealing symptomatically with any disease, Ayurveda approaches all the aspects related with pathogenesis and treatment of the disease. Obesity was believed to be associated with affluent life style in the west. Several studies in India have shown that changes in dietary pattern, physical activity levels, life styles associated with affluence and migration to urban areas are related to increasing frequencies of obesity and the risk of disease. A study published in the noted medical journal Lancet says India is just behind US and China in this global hazard list of top 10 countries with

highest number of obese people. Every five Indian men and women are either obese or overweight. According to the study, number of overweight and obese people globally increased from 857 million in 1980 to 2.1 billion in 2013. This is onethird of the world's population. i Charaka describes a group of diseases as a consequence of Santarpana. Obesity (Sthaulya) is among one of them.ⁱⁱ Charaka mentioned Ayushyahrasa (decreased life span) as a first complication among eight complications of Sthaulya. iii In obesity management it is the need to control overweight along with improvement in general health aspects. Charaka has described oral medications along with diet and lifestyle modification as obesity management at various places in

Samhita. The holistic approach for obesity treatment was adopted to treat an obese female patient visited in OPD, Dept. of Basic principles, I.P.G.T. & R.A.

METHODS (CASE STUDY):A 38 year old woman having Ayathopachaya (uneven fat distribution), Atikshudhapipasa (excessive hunger and thirst) and Swedadhikya (excessive sweating) as her chief complain visited to OPD, dept. of basic principles, IPGT & RA. She was having occasional giddiness and exertion after little efforts. Onset of symptoms was gradual and she started excessive weight gaining in adulthood. Patient mentioned that childbirth with caesarean section and sedentary lifestyle were precipitating factors for weight gain. After detailed history taking no specific medical past of Appher history was noted. Family history for obesity was positive in siblings (brother and sister). In personal history of patient; it Ingredients of Musta Argydhadi Kashaya

was noted that she was habitual to Madhura Rasa, Sheeta Gunapradhan vegetarian diet. Regular intake of water meals just after was observed. Occasionally patient was eating in between meals. Patient had no habit of physical exercise and had Stress free temperament (Achintana). Her menstrual history was normal. No h/o intra uterine contraceptive device, oral contraceptives pills and oral intake of steroids was observed. Physical examination noted her weight 90 kg and height 157 cm. Her BMI, body-girth (in cm), skinfold thickness, and fat percentage were measured. As per above history and measurements, she was diagnosed as obese. Her treatment protocol was decided after assessing all pathological aspects of present condition. Musta-Aaragyadhadi Yoga (in kwatha form) by Acharya Charak in Sutrasthana 23rd chapter was selected as an oral medication.

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No.	Name of Drug	Botanical name Honda	Part used	Proportion	
1.	Musta	Cyperus rotundus Linn. R	Rhizome	1 Part	
2.	Aargvadha	Cassia fistula Linn.	Fruit pulp	1 Part	
3.	Patha	Cissampelos pareira Linn.	Root	1 Part	
4.	Haritaki	Terminalia chebula Retz.	Fruit	1 Part	
5.	Bibhitaki	Terminalia belerica Roxb.	Fruit	1 Part	
6.	Aamalaki	Emblica officinalis Gaertn.	Fruit	1 Part	
7.	Devadaru	Cedrus deodara Roxb.	Heart wood	1 Part	
8.	Gokshura	Tribulus terrestris Linn.	Whole plant	1 Part	
9.	Khadir	Acacia catechu Willd.	Stem Bark	1 Part	
10.	Nimba	Azadirachta indica A.Juss.	Stem bark	1 Part	
11.	Haridra	Curcuma longa Linn.	Rhizome	1 Part	
12.	Daru haridra	Berberis aristata Roxb.	Stem	1 Part	
13.	Kutaja	Holarrhena antidysentericaWall.	Stem Bark	1 Part	

Dosage and duration: Dosage of Yavakuta for decoction iv was 25 gms twice a day with Anupana of normal water for 60 days of duration.

Method for **Preparation** of decoction: Decoction of above mentioned drugs was prepared by classical Ayurvedic Table 1: diet modification

method. Mixed rough powder of Kwathdravya was boiled with quality sufficient water up to the evaporation of 3/4 parts. Remaining part (1/4) with filtered to be used as medicine.Diet and lifestyle modifications were advised. She was advised to have diet in following manner.

diet	Take	Don't take
Grains, pulses	wheat, pearl millet, oats,	Rice, pulses other than green
	green gram, horse	gram, refined wheat flour
	gram(Kulathi)	items
Water	When needed, Boiled with	Chilled water, cold drinks,
	dry ginger and coriander	Water just after meal
	seeds	
Vegetables	Bottle gourd, bringal, bitter	Potatoes, sweet potatoes
	gourd, radish, cabbage,	
	spinach, fenugreek leaves,	
	garlic OF APPLIA	
fruits	Papaya, pomegranate, orange	Fruits having heavy pulp
	in less quantity	(banana, chikoo, apple), dry-
	ANO NED	fruits
milk/milk products	Skimmed milk, fresh butter	Curd, Cheeze, butter, paneer,
	milk 7	Milkshakes, sweets, buffalo
	Cow-milk ⁴	milk
	IJAAR	Fast food, fermented foods,
		pastry, cake

Lifestyle modification-

- Drinking water just after meals was restricted.
- Brisk walking at morning and evening time, for 30 minutes was advised.
- Patient was advised to change her eating habits. Meal only two times per day was advised.
- Upvas (of one day) was advised at interval of every fortnight. Laghu Aahar up to two days after Upvas was advised

RESULTS:

Table 2: Improvement in chief complains after therapy

Chief complaints		
Before treatment	After treatment	
excessive fat deposition over abdomen and hip region	Moderate fat deposition over abdomen. Moderate to mild fat deposition over hip region	
Feel hunger in 4-5 hours	Feel hunger in 5-6 hours	

3 to 4 litre intake of water	2 to 3 litre intake of water
Profuse sweating after little work and	Profuse sweating after moderate work and
movement	movement

Table 3: changes in weight, BMI and fat %

	B.T.	A.T.
Weight (kg)	90	78
BMI (kg/m ²)	36.8	31.64
Fat % v	42.5	38

Table 4: bio-chemical parameters

Bio-chemical parameters	BT	AT
RBS mg/dl	92	101
S. Cholesterol	133	124
S. Triglyceride	185	135
S.LDL	44	43
S.VLDL	37	27
S.HDL	52	54

Table 5: girth measurement

Girth measurement (cm)	HAL OF APPLIE	
Neck region	377	35
Mid arm	34	32
Forearm	24 🖁	22
Chest	1085	102
Abdomen	104	101
Hip	127	121
Mid-thigh	55	51
Mid-calf	39	35

Table 6: Skinfold thickness (cm)

Skinfold thickness (cm)	BT	AT
Biceps	1.0	0.8
Triceps	2.0	1.5
Scapular	0.5	0.3
abdomen	1.0	0.8
Supra iliac	1.0	0.5

DISCUSSION:Weight reduction of 12 kg from prior weight and decrease of body fat (Table: is percentage 2) Apatarpankarak effect of the treatment protocol. All the measurement also shows significant effect of therapy that is reduced body mass from all body parts (Table 5, 6). There was reduction in S. triglyceride

level but it was within normal limits. (Table: 4)

Probable pathogenesis and breaking of pathogenesis: More water intake just after meals leads to obesityvi ; sedentary habit, lack of physical exercise, stress-free temperament (Achintana)vii leads to hyper nutrition and obesity. These factors results in Rasadushti, which leads Medodhatuvriddhi. Increased Medodhatu causes obstruction to Srotas that leads to Kosthagata Vatavriddhi. Increased Vata in Kostha enhances hunger that produces more craving for food. This excessive food intake gives nutrition only to Medodhatu, and abnormal cycle of Medodhatuvriddhi takes place. Treatment protocol was planned to break this cycle and to correct level of pathogenesis. modification led to proper Rasanirmana. Daily brisk walking may be acted as kapha-meda kshayakarak Vyayama to the patient; that melted accumulated fat of body. Among thirteen contains of the Musta-Aaragvadhadi Yoga, hyperlipidemic activity is found in *Musta*, Trifala, Haridra and Khadir that is proven researches. Classically, property is found in Musta, Trifala, Haridra , Daruharidra , Patha and Khadir.^{viii} Ruksha quality of Nimba, Haridra-Daruharidra¹ Khadira, Medoghna^x quality of Khadira may reduce vitiated Medodhatu; that purify Srotas and stabilises *Vata*. *Dipana-Pachana*, *Lekhan* property of Musta and Dipana property of Gokshura may lead proper dhatvagnikarma. Aaragvadha having Sransana^{xi} property may lead to Kosthashuddhi. These Karma may ultimately result in Samyak Upachaya of body.

CONCLUSIONS:

- Acharya Charaka's principle management (holistic approach) gives significant result to treat obesity. Changes in diet and lifestyle modification along medication with prevents development of the disease. (As no weight gain found in two months of follow up.)
- This be can an effective management for the disease and its study

on larger scale may give clear picture of its effect.

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