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AN ATTEMPT TO DECODE KSHARA PRAYOGA WITH SHODHANA IN STHOULYA VIS A VIS OBESITY-A CASE STUDY

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ABSTRACT

Obesity is a lifestyle disorder which is one of the commonest condition among developed and developing countries. It is a condition of caloric imbalance that results from an excess intake of calories that exceeds their consumption by the body. Obesity is often associated with a higher risk of mortality and morbidity as it is an important risk factor of Non Communicable diseases like Type II Diabetes Mellitus, Hypertension, Cardio Vascular Disorders, Osteoarthritis, PCOD as well as psychological disturbances like Stress, Anxiety and Depression. Sthoulya being a *Bahudoshaja Vyadhi Shodhana* is necessary along with *Rukshana Chikitsa* to treat the root cause. **Aims and Objectives:** To assess the efficacy of *Udwartana, Virechana* followed by oral administration of *Erandapatra Kshara*.

Methods:

- > Udwartana with Triphala and Kolakulatthadi Churna for 7 days
- ➤ Snehapana with GugguluTiktaka Gritha and Sukumara Gritha for 4 days
- Virechana with Trivruth Avalehya
- ➤ Oral administration of *Erandapatra Kshara* along with *Manda* for 30 days

Results: Management of *Sthoulya* with *Udwartana*, *Virechana* followed by *Shamanoushadhi* was effective in all qualitative and quantitative data. **Discussion:** The drug possessing *Ushna*, *Teekshna*, *Pachana*, *Lekhana*, *Kapha-Ama-Medohara gunas* counteracts *Sthoulya*. **Conclusion:**

KEYWORDS: Erandapatra Kshara, Virechana, Sthoulya, Obesity.

INTRODUCTION

Sthoulya is one among the major diseases that falls under the category of Santarpanajanya Vyadhi^[1] wherein Srotorodha and Agnivaishamyata occurs. Due to Avyayama, Diwaswapna, Adhyashana, Consumption of Sleshmala Ahara there is Kapha Vata Prakopa and Medovriddhi as Dushita Dosha and Dushya.

Acharya Charaka has mentioned Ruksha Udwartana as one of the principles of treatment for Sthoulya. [2] It is Bahudoshaja Vyadhi^[3] hence Shodhana is advocated. Virechana Karma is one of the treatment modalities for treating Santarpanajanya Vikaras. [4] It clears the Sroto-Avarodha and normalizes the Agni. Acharya Bhavaprakasha has mentioned the administration of Erandapatra Kshara in Sthoulyadhikara. [5] Kshara as

such has *Ushna,Tikshna, Pachana, Lekhana, Kapha-Ama-Medohara gunas.* [6] *Kshara* along with specific *Anupana* having *Vatanulomana, Srotomrudukara gunas* corrects the digestive health along with lifestyle modification.

CASE STUDY

A 29 yr old male patient, business by occupation complained of gradual weight gain of 10 kgs in the last 8 months associated with increased hunger and thirst, heaviness of body, disturbed sleep, fatigue, generalized weakness and bloating of abdomen. Pt is a K/C/O of Hypothyroidism since 3 months with TSH-6.42 IU/ml but is not on any supplements for the same. There is no family history of obesity. Based on his complaints and

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considering BMI of 32.2 pt was diagnosed as Class I Obesity.

MATERIALS AND METHODS

A Clinical Case Study with Atarpana Chiktsa with Udwartana, Virechana and Shamanoushadhi.

Erandapatra Kshara -Acharya Bhavaprakasha has mentioned the use of Erandapatra Kshara in Sthoulyadhikara.

Ingredients, Preparation and Mode of Administration

Erandapatra Kshara-250mg Bharjitha Hingu-150mg Manda-O.S

Method of Preparation Erandapatra Kshara

- The erandapatra is dried under the hot sun until it is completely dry. The dried leaves are taken in a wide mouthed big iron vessel and ignited in an open
- After it is completely burnt, the ash is allowed to cool down on its own. This is filtered through a sieve to get rid of unburnt woody part.
- The obtained ash filtrate is now dissolved in 6 parts of water. The mixture is stirred well and kept undisturbed overnight. Next morning 'supernatant clear liquid' is carefully decanted into a separate clean stainless-steel vessel.
- It is now filtered through a clean cotton cloth for 21times. The final filtrate is taken in an open large iron vessel and heated over moderate fire with constant stirring. This should be continued till all the water content gets evaporated, leaving a solid white substance which is collected in air tight bottle.

Manda Kalpana: Manda is prepared by boiling 1 part of 'tandula' with 14 parts of water in a clean stain less steel vessel over mild fire until all the rice particles are properly cooked. Later the liquid part is filtered and the liquid filtrate is taken as' Manda'.

Mode of Administration

Erandapatra Kshara -250mg+ Hingu-150mg along with Manda (quantity sufficient) once daily in the morning in empty stomach for 30 days.

Pathya-Apathya Ahara -Vihara during the course of the treatment is as follows-

Ahara-To avoid sweets, curd, deep fried food, urad dal, bakery foods, packed foods, food made out of Maida.

- Use of buttermilk added with Shunti in the afternoon
- Use of hot water when thirsty
- Use of barley in the form of Ganji/processed with wheat flour to prepare Roti.
- Intake of more of Boiled vegetables.

Vihara-Walking for at least half an hour a day Dinner to be finished by 7:30pm To avoid Diwaswapna(day sleep) completely.

Examination

General Examination

- **Built-Endomorphic**
- Nourishment-Well nourished
- BP-110/70 mm Hg
- Pulse-78bpm
- Pallor- Absent
- Icterus-Absent
- Cyanosis- Absent
- Clubbing- Absent
- Lymphadenopathy- Absent
- Edema- Absent

Anthropometry

- Height-170 cm
- * Weight-100.8 kg
- BMI-34.6
- Chest Circumference-92 cm
- Waist Circumference-104 cm
- Hip Circumference-115 cm
- * W-H Ratio-0.90
- * Right Mid Arm Circumference-42 cm
- * Left Mid Arm Circumference-41 cm
- ** Right Mid Thigh Circumference-61 cm
- Left Mid Thigh Circumference-64 cm

Systemic Examination

RS-B/L NVBS heard

CVS-S1, S2 heard

P/A-Soft, NAD

CNS-Well oriented, conscious to time, place and person

Investigational History

Hb-15.3 g/dl

FBS-80.1mg/dl

PPBS-116.5mg/dl

Blood Urea-23.7mg/dl

BUN-11 mg/dl

S.Creatinine-1.1 mg/dl

S.Uric Acid-7.8 mg/dl

HbA1C-5.9%

Mean Blood Glucose-120.9 mg/dl

Lipid Profile

Total Cholesterol-233.6 mg/dl Triglycerides-198 mg/dl HDL Cholesterol-36.9 mg/dl LDL Cholesterol-157.1 mg/dl VLDL-39.6mg/dl TC/HDL-6.3 LDL/HDL-4.3

Dashavidha Rogi Pariksha

- Prakruti-Vata-Kapha
- Vikruthi-Kapha
- Sara-Madhyama
- Samhanana-Madhyama
- Pramana-Madhyama
- Sathmya- Madhyama
- Satva- Madhyama

- AharaShakthi-
- Abyavarana Shakti- Madhyama
- Jarana Shakti- Madhyama
- VyayamaShakthi- Madhyama
- Vaya- Madhyama

AshtaSthana Pariksha

- Nadi-Prakruta
- Mala- Prakruta
- Mutra- Prakruta
- Jihwa- Lipta
- Shabda- Prakruta
- Sparsha-Anushnasheeta
- Drik- Prakruta
- Akriti-Sthoola

Nidana Panchaka

Nidana

- Ahara: Guru snigdha, Madhura, Mamsala ahara
- Vihara: Diwaswapna, Avyayama, Sedentary lifestyle
- ❖ Purvarupa-Gurugatrata
- Rupa-Guru gatrata, Kshuth atimatra, Atipipasa, Anutsaha
- Upashaya-Vyayama, Apatarpana ahara
- Anupashaya- Santarpanajanya Ahara, Avyayama, Diwaswapna

Samprapti

Nidana



Medodhatu Vriddhi

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Srotoavarodha by Medas



Vata is confined to Koshta and causes Jatharagni Vriddhi



Causes Lakshanas like Atikshuth, Atipipasa, Sthoolata, Aalasya



Sthoulya

Samprapti Ghataka

- Dosha-Kledaka kapha, Pachaka pitta, Samana vata, Vyana vata
- Dushya-Rasa dhatu, Mamsa dhatu, Meda dhatu
- Srotas-Rasavaha, Mamsavaha, Medovaha, Swedavaha
- Srotodushti-Sanga, Vimargagamana
- Agni-Jatharagni, Medodhatwagni
- Ama-Jatharagnimandya janita, Dhatwagnimandya
- Udbhava Sthana-Amashaya
- Sanchara Sthana-Rasayini
- Vyakta Sthana-Sarvanga/Udara/Sphik/Sthana
- Adhishtana- Medovaha srotas
- Rogamarga-Madhyama
- Sadhya Asadhyata- Kricchra sadhya

Treatment Plan

Days	Treatment	Observations
1-10 th day	Udwartana with Triphala, Yava, Kolakulatthadi Churna	Weight loss of 2 kgs
11-14 th day	Snehapana with GTG+Sukumara Ghrita	Weight loss of 1 kg
15-17 th day	Sarvanga Abhanga with Asanadi Taila	No change in weight
18 th day	Virechana Karma-Trivruth Lehya-70g	Weight loss of 2 kgs
	Anupana:Triphala Kwatha-100ml	Weight loss of 2 kgs
19-22 nd day	Peyadi Samsarjana Krama	
	Erandapatra Kshara(250mg)+Bharjita Hingu(150mg)	
23-53 rd day	with Manda(Q.S) in empty stomach in morning for	Weight loss of 3 kgs
	consequtive 30 days.	

During the treatment schedule, pt was asked to do Nidana Parivarjana and follow Pathya Ahara-Vihara.

RESULTS

- There was remarkable reductions in symptoms like *Gurugatrata*, *Alpa nidra*, *Utsahahani*. There was mild reduction in other symptoms like *Atikshuth* and *Atipipasa*.
- There were significant positive changes in Lipid profile and also weight loss of 8 kgs in 52 days.
- The TSH levels had reduced from 6.42 mg/dl to 4.38 IU/ml.

Anthropometry changes

	BT	After Virechana	After Kshara
Right Mid Arm	42cm	40cm	39cm
Left Mid Arm	41cm	39cm	38cm
Right Mid Thigh	61cm	60cm	60cm
Left Mid Thigh	64cm	61cm	60cm

Chest Circumference-	92cm	90cm	89cm
Waist Circumference	104cm	104cm	103cm
Hip Circumference	115cm	115cm	114cm
Weight	100.8kg	96kg	93kg

Changes in Lipid Profile

Parameters	BT	AT	
Total Cholesterol	233.6 mg/dl	202 mg/dl	
Triglycerides	198 mg/dl	136 mg/dl	
HDL Cholesterol	36.9 mg/dl	42 mg/dl	
LDL Cholesterol	157.1 mg/dl	135 mg/dl	
VLDL	39.6 mg/dl	27 mg/dl	
LDL/HDL	4.3	3.2	

Changes in Signs and Symptoms

	BT	After Virechana	AT
Atikshuth	+++	++	+
Atipipasa	++	++	-
Gurugatrata	+++	++	-
Alpanidrata	+++	++	+
Utsahahani	++	++	+
Dourbalya	++	++	+

- +++=Severe
- ++ =Moderate
- + = Mild
- =Absent

DISCUSSION

Udwartana

Udwartana is one among the Bahir Parimarjana Chikitsa used in the form of Bahya Rookshana which brings about Pravilapana and Vimlapana and increases Agni. Udwartana does Kaphahara, Medovilayana, Medoshoshana, Vatahara, Siramukha vivikthatva, tandrahara, Gouravahara, and Sthirikaranam Anganam. [7] It is indicated in Mamsala, Medura, Bhuri Sleshma as Snehapurva Rukshana which does paachana of dushitha kapha dosha, meda dhatu and removes Srotorodha. To enhance the Medovilayana Karma, Katu-Tikta rasa, Ushna veerya, Laghu, Ruksha, Teekshna dravyas are to be used, due to which Twakstha Agni will be stimulated leading to Absorption of the drug and further does Pravilapana of Medodhatu. Triphala Churna is Tridoshahara, Ruksha and Kolakulatthadi Churna is Vata-Kaphahara. In the course of Udwartana patient noticed Laghuta, Agni vriddhi.

Virechana Karma

In Panchakarma, Virechana Karma is considered as the second Pradhana Karma through which Pitta and Kapha associated with Pitta from Pitta Sthana as well as Kapha Sthana can be eliminated. It does Tridoshahara. Shodhananga Snehapana is most important Purvakarma before Vamana and Virechana. The properties of Sneha are opposite to Rooksha Guna which helps bringing the Doshas from Shakha to Koshta by Vriddhi(excessive increase of Dosha), Vishyanada (Liquification of Dosha), Paka (digestion of Dosha), Srothomukha Vishodhana(clearness in channels) and Vayoshcha

Nigraha(controlling of Vata). by Swedana process brings the Doshas to Koshtha. Once the Dosha reaches the Koshtha it should be expelled through Virechana. Virechana drugs have Ushna, Teekshna, Vyavayi and Vikasi Gunas. The Ushna guna may help in increasing the quantum of Agni. Due to Teekshna guna drug will be able to do remove the Sanghata i.e., Disintegrates the doshas. Due to Vyavayi guna medicine can spread in the whole body prior to its digestion. On virtue of its Vikasi guna the drug can burn various Dhatus and can compel the Doshas which are residing in it to come out. Trivrit contains Tikta-Katu Rasa, Laghu, Ushna and Teekshna Gunas, it has effect on Pitta and Kaphadosha, Prabhava of Rechana. After Virechana, a special diet regimen is to be followed to increase Agni and to provide nourishment to the patient. The importance of Samsarjana Karma is to increase the strength of weakened Agni and body after Samshodhana Karma. By Virechana Karma, all Doshas are alleviated so that weight of the body automatically which leads to Sthoulyanashana. By Shodhana, doshas will be detached from their roots, by these chances of reoccurrences of diseases is less.

Shamanoushadhi

Sthoulya is a Santarpanajanya Vyadhi with Kapha and Meda dhatu pradhana in nature, to counteract act the same the drugs used should be Ruksha Pradhana. Reducing Baddha medas which is accumulated for a long time is not an easy task just by administration of shamanoushadhi.

According to Acharya Sushrutha, the person should make use of Shilajathu, Guggulu, Triphala, Loharaja, Madhu, Yava, Rasanjana. [8] Kshara has Ushna, Tikshna, Pachana, Lekhana, Kapha, Ama and Medohara Gunas. Kshara does Tridoshaghna, is Agneya gunayukta, does Vilayana, Shoshana. It should not be Ati teekshna, ati mridu, ati Shukla, and ati picchila and should be Slakshna, Abishyandhi, soumyatva and shigrakari. Erandapatra is Vata-Kaphahara and has Madhura, Katu, Kashaya rasa, Teekshna, Sukshma and Snigdha guna, Ushna Veerya and Madhura Vipaka. Hingu has Vata Kaphahara, has Laghu Teekshna gunas, digests the amasadushta annarasa and is Sreshta in Vata shamana. Manda has Deepana, vatanulomana, Srotomrudukara gunas and is indicated in Langhita and Virikta. Both Kshara and Hingu are Ushna and Teekshna which does Vilayana of accumulated Kapha. Due to the Sukshma guna of Eranda, it clears the margavarodha. According to Rasa Tarangini, Yava Kshara has Dipana, Pachana, Kapha-Vatahara Gunas.

The present study deals with typical obesity. Here Udwartana, Shodhananga Snehapana, Virechana and Erandapatra Kshara as Shamanoushadhi was found effective. Udwartana does Kaphahara, Medovilayana and is indicated in Mamsala, Medura, Bhuri Sleshma as Snehapurva Rukshana, removes Srotorodha and brings about Pravilapana and Vimlapana and increases Agni.(Bhrajaka pitta) To enhance the Medovilayana Karma, Katu -Tikta rasa, Ushna veerya, Laghu Ruksha Teekshna dravyas are to be used, due to which Twakstha Agni will be stimulated leading to Absorption of the drug and further does Pravilapana of Medodhatu. Triphala Churna is Tridoshahara, Ruksha and Kolakulatthadi Churna is Vata-Kaphahara.

Shodhananga Snehapana is the most important purvakarma for Vamana and Virechana. According to Acharya Charaka, Sneha gunas which are opposite to Ruksha gunas help in bringing doshas from Shakha to Koshta by Vriddhi, Vishyanadana, Paka, Srotomukha Vishodhana and Vayoshcha Nigraha. Once the doshas reaches the koshta, it should be expelled either through Vamana or Virechana. Virechana dravyas have Ushna, Teekshna, Vyavayi, Vikasi gunas which clears the Sroto-Avarodha and does Agnideepana. Erandapatra Kshara does Kapha -Vatahara, Lekhana, Pachana, Medohara when taken with Manda corrects the Agni and helps in effective weight management. Kshara is one among the tridravyas which are prohibited for long duration as it causes complications. [9] Almost all factors in this Universe have a general principle. On the other hand, certain factors have no idea about the principles. These acts are against the rule, and the entire universe accepts this system, an exception to the general rule called Utsarga Apavada Nyaya. But Acharya Chakrapani clarifies that excessive usage of Pippalyadi dravyas in Annasamskarana is prohibited not the swatantra prayoga as Aushadha. [10] Hence Kshara was administered in a less dose for a limited period of time.

Role of *Rasayana* in *Sthoulya*: *Rasayanas* like *Guggulu*, *Triphala*, *Guduchi* are effective in the management of Sthoulya.

Guggulu- Guggulusterone, the bioactive constituent of Guggulu is found to be a key transcriptional regulator for the maintenance for the maintenance of cholesterol and bile acid homeostasis in the body system. It has anti-inflammatory action which is documented as Shothaghna. Studies have proved that Guggulu shows potent inhibitory activity against the production of nitric oxide and therapeutically beneficial to diseases related to oxidative stress like Obesity. It consists of flavonoids, triterpenoids which shows anti - inflammatory action. It does Lekhana of Meda dhatu and is Tridoshahara.

Triphala- There is a connection between the modification of gut microbiota in the colon and the progressive increase in body weight. It has been observed that the human gut microbiome can be modified with the help of polyphenols in Triphala and promotes the growth of good bacteria and lactobacillus and also inhibits the growth of pathogenic gut microorganisms. Studies have showed that Triphala has antioxidant, anti- inflammatory, immunomodulatory activities. It possesses Laghu, Ruksha gunas which acts on Kapha and Meda and does Lekhana, Medohara and Vatanulomana which is useful in managing Sthoulya.

Guduchi -It is often included in various formulations for Sthoulya such as Guduchyadi yoga, Guduchi bhadradi Kashaya due to its Kapha-Medohara, Kledahara, Rasayana properties. It encounters Kapha-Vata due to its Tikta-Kashaya rasa and Ushna virya which does Medo-Kleda Shoshana and Vilayana. In vitro studies conducted on methanolic extracts of Tinospora cordifolia stems have demonstrated inhibition of lipid peroxidation, the elevation of glutathione levels, and radical scavenging properties which helps in managing Obesity.

CONCLUSION

Sthoulya is one among the lifestyle disorders which is more prevalent in young and middle aged population of India. This is caused due to Atisantarpana. Based on Dosha bahulyata, suitable Shodhana can be adopted. Based on the signs and symptoms, Sthoulya was treated with Sarvanga Udwartana, Virechana followed by Nidana Parivarjana in the form of Ahara and Vihara along with Erandapatra Kshara showed remarkable changes in reducing weight of the patient. To prevent relapse patient was adviced to follow Pathya Ahara and Vihara.

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