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CONCEPTUAL STUDY OF STHOULYA W.S.R TO OBESITY

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ABSTRACT:

In Ayurveda, *Sthoulya* has been described since early days in various *Samhita's*, *sangraha's* etc. *Acharya Charaka* described *Sthoulya* among the *ashtaninditha purusha*. *Sthoulya* is becoming a burning problem in today's era. The dietary habits, sedentary lifestyle's, stress etc. is the predisposing factors. *Sthoulya* is becoming a difficulty to person's life which is hampering the physical activity, sexual life, various metabolic and psychological disturbances. *Kapha* and *pitta* vitiation are the major contributing factors for the manifestation of *Sthoulya*. In Ayurveda, *shodanagna snehapana* followed by *virechana*, *nidana parivarjana* also *pathya-apathya* is the line of treatment of *sthoulya*. Conservative management of *sthoulya* through ayurvedic principle provides significant relief and improves quality of life. Commonly, obesity is due to the excessive eating and lack of exercises. So, in obesity the concept of "prevention is better than cure" is well acceptable.

KEYWORDS: Sthoulya, Obesity, Assessment of obesity, Sthoulya chikitsa, pathya-apathya

MATERIALS AND METHODS:

An effort was made to collect & interpret various references pertaining to Obesity along with its Ayurvedic correlation as *sthoulya*, across relevant texts and internet.

INTRODUCTION:

Sthoulya (obesity) is one among the diseases of modern era, which refers to an excessive accumulation of body fat resulting more than 20% excess of expected body weight. Changes in the dietary habits and lifestyles like excess intake of junk foods, soft drinks, lack of physical activity, stress during works, and due to endocrine disorders, metabolic disorders including type II DM, HTN, Hyperlipidemia are referred as lifestyle disorders and obesity is one among them ^[1].

The prevalence and number of obesity cases is steadily increasing nowadays. In India obesity and overweight has reached epidemic proportions affecting 5% of countries population. Worldwide, at least 2.8 million people die each year as a result of being overweight or obese, and an estimated 35.8 million (2.3%) of global DALYs are caused by overweight or obesity [2].

Obesity can be compared with sthoulya as the excessive increase of *meda* and *mamsa dhatu* causes pendulous movement of abdomen, buttocks, and breasts. This improperly formed *Medodhatu* causes altered configuration and *utsahahani* in the individual; such person is called *Atisthula* [3] and is described as *medoroga* or *sthoulya roga*, and *sthoulya* is one of the *santharpanotha vyadhi* [4] and one among the *astaninditha purisha* [5] also as *kaphaja nanatmaja vyadhi*. In India, abdominal obesity is one of the major risk factors of CVD [6] And line of treatments includes *Apatarpana* [7] and *Langana*, which can be done by *Shamana* and *shodana karma*. *Pathya-apathya* and life style modifications play an important role in the management of *sthoulya*.

NIDANA [8]- All the etiological factors can be classified into four groups:

- 1) AHARATHMAKA NIDANA- It includes atisampuranam, Guru, Madhura, sheeta snigda ahara sevana. Ahara rasa plays major role in the increasing medodhatu in sthoulya. Acharya Susurutha, mentioned sthoulya and karshya depend on the quality and quantity of ahararasa [9].
- 2) VIHARTHMAJA NIDANA- it includes avyayama, avyavahara and diwaswapna. It indicates that the decreased physical activity which aggravates kaphadosha and leading to the medas deposition in body. Divaswapna having abhishyanda property which leads to medovaha srothas blockage.
- 3) MANASIKA NIDANA- It includes harshanityatvat, achinthanat. These two psychological factors are kaphadosha aggravating and hence leading to the medas deposition in body.
- 4) *BEEJA DOSHAJA NIDANA* over nutrition particularly with Madhura rasa during pregnancy is mentioned as a causative factor for birth of obese child ^[10].

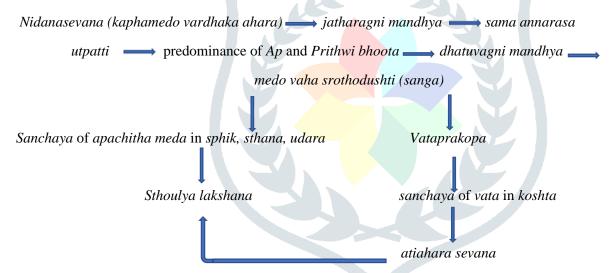
PURVARUPA:

Acharya charaka, explains similar *samprapthi* of *Prameha* and medoroga due to *kahpa* and *medodushti* in both. So *purvarupa* of prameha and *medovaha srotodusthi lakshanas* [11] can be considered as *purvarupa* of *sthoulya*. *Atinidra*, *Alasya*, *Tandra*, *Visrasharira gandha*, *Angagourava*, *Angashaithilya*, *Atisweda* are explained.

RUPA:

Cardinal symptoms of sthoulya as *medomamsa ativrudhi*, *chala sphik udara* and *sthana*, *ayathaopachaya*, *anutsaha* are the *prathyathma lakshanas* ^[12]. Besides these 8 harmful effects of *sthoulya* as- *Asta mahadosha* ^[8].

SAMPRAPTHI:



According to charaka, due to avarana in the srothas by medas, there will be vridhi of koshtashit samanavayu, which causes atisandhukshana of jatharagni. The increase in jatharagni leads to rapid digestion of consumed food and having more cravings. This is due to the increased agni causing dhatu pachana leading to various complications. Because of these other dhatu are not nourished properly causing shaithilya of dhatus prior to medodhatu

SAMPRATHI GHATAKA:

Dosha: kapha vata

Dushya: meda, later other dhatus

Ama: jatharagni vishamatha, medodhatvagni mandhya

Agni: jatharagni, medo dhatvagni

Srothas: medovaha Srothodusthi: sanga

Udhbava sthana: amashaya

Vyaktha sthana: sarvanga, especially in sphik, udara, sthana, gala

Roga marga: bahya and abhyanthara

Swabhava (vyadhi prakara): chirakari

Prasara: sarva deha (especially wherever medodhara kala is present)

Adisthana: vrukka and vapavahana Sadhya asadhyata: kruchrasadhya

ASSESSMENT OF OBESITY-

According to ayurveda- In Ayurvedic texts, diagnostic methods includes both subjective and objective types, in astavidha pariksha, Sthoulya is diagnosed by akrithi pariksha, pramana pariksha, and samhanana pariksha can be correlated with objective criteria of diagnosis like measurement of height, weight, various girth measurements, skin fold thickness. Acharya charaka explains anthropometry of body under dashavidha pariksha, which provides a relative measurement and objective criteria of sthoulya patient.

According to modern-Obesity can be assessed by following tool [13]: body mass index. waist circumference, waist/hip ratio, relative weight, skin fold thickness.

The classification of obesity includes-

Underweight $< 18.5 \text{ kg/m}^2$,

Normal weight 18.5-24.9 kg/m²

Overweight 25-29.9 kg/m²

Obesity (class 1) 30-34.9 kg/m²

Obesity (class II) 35-39.9 Kg/m²

Morbid obesity (class III) > 40kg/m²

Body mass index- BMI describes relative weight of height. BMI is calculated as weight in kg divided by height in meter square.

Adhika sthoulya, BMI $> 40 \text{kg/m}^2$

Madhyama sthoulya, BMI 30-40 kg/m²

Hina sthoulya, BMI 25-30 kg/m²

CHIKITSA:

In the Sthoulya general principle of treatment includes Nidana parivarjana-Samshodhana-Samshamana. Charaka explains treating asthisthula people is very difficult because, after applying karshana therapy, there is aggravation of already aggravated jatharagni and vata. And if brimhana therapy is applied, it will further increase meda. Acharya Vagbata mentioned that karshya is better than sthoulya because for sthoulya exact remedy is difficult [14].

Shodhana-In Ayurveda sthoulya is explained under bahudoshavastha, hence shodana can be done. It is of two types bahya and abhyanthara. Bahya shodana includes ruksha udvarthana [15] and abhynthara shodana includes vamana, virechana, lekana basthi^[16], shirovirechana and rakthamokshana.

Shamana chikitsa is explained in seven different ways such as; deepana, maruthsevana, kshudha nigraha, pachana, atapasevana, trusha nigraha, vyayama. In santharpana janya vyadhis, amashayoktha vyadhis, shleshma pradhana vyadhis, rasapradoshaja vyadhi, langana therapy is advisable. In santharpanajanya vyadhi, amashotha vikara, shleshmika vikara, and in rasaja vikara all seven types of lanagana can be applied.

Nidana parivarjana is most important in the management of sthoulya. To stop the further progress of disease, factors which are responsible for diseases should be avoided.

PATHYA-APATHYA¹⁷:

In the treatment of sthoulya diet pathya is most important and charaka advices vata kapha and medahara anna pana for sthoulya

Table 1: Pathya-Apathya - Ahara

AHARA VARGA	PATHYA	APATHYA
Shuka dhanya	Purana shali, yava,laja,priyangu	Naveenashali,ghoduma
Shami dhanya	Mudga,rajamasha, kulatha, adhaki	Masha,Tila
Shaka varga	Patola, shigru, katutiktha,adraka	Kandashaka,madhura
Phala varga	Kapitha,jambu,amalaka,ela,haritaki	Madhura phala
Drava varga	Madhu, takra, ushnajala,	Dugdha varga
	tila,sarshapa taila,asava-arishta	
Mamsa varga	Rohita matsya	Anupa, audaka, gramya mamsa

Table 2:Pathya-Apathya-VIHARA.

PATHYA	APATHYA
Shrama	Sheetha jala sevana
Jagarana	Diwaswapna
Nitya bhramana	Avyayama
Vyayama	Avyavaya
Vyavaya	Ati ashana

Table 3:Pathya-Apathya- MANASIKA.

PATHYA	APATHYA
Chinta	Achinta
Shoka	Nitya Harsha
Krodha	Manaso nivriti

DISCUSSION:

Sthoulya is an abnormal and excess accumulation of medodhatu. A current world health study claims that obesity is included among the top ten selected risk to health. It has many complications like HTN, DM, OA, Infertility as well as psychological disturbances like stress, depression and so on. The Bijadosha (heredity component) besides Aharatmaka, Viharatmaka and Manasa factors in cause of Medoroga. Alleviation of vata, pitta and kapha along with depletion of medodhatu by increasing medodhatvagni is the main aim of treatment of medoroga. By adopting the simple life style and healthy food habits (pathyaapathya) anyone can enjoy the life optimally without having lifestyle diseases.

CONCLUSION:

Sthoulya is a santharpana nimitaja vyadhi can be easily treated by proper lifestyle management and shodhana samana treatment plans it is caused by excessive indulgence in oily and fatty food and sedentary life style; psychological factors along with genetic predisposition. Among treatment shodananga snehapana followed with virechana is the best way to manage along with nidana parivarjana. Sthoulya is a metabolic disorder, which is described by charaka in Astanindita purusha. Kapha prakruthi persons are more prone to become obese. Some herbal drugs like musta, triphala, guggulu possesses kapha-medohara and vatagna in properties. So, Ayurvedic line of management provides equal beneficial for the promotion and preservation of health in a sthoulya person through the removing toxic wastes and balancing morbid matters and correction of agni.

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REFERENCES:

- 1. Obesity browsed on 15-01-2023, available at https://en.wikipedia.org/wiki/obesity
- 2. Global database on body mass index browsed on 15-01-2023, available at http://www.who.int
- 3. Vaidya jadavji trikamji acharya, editor, Commentary Ayurveda dipika of Chakrapanidatta on charaka samhitha by agnivesha, Sutrasthana, Asthanindithiyoadhya: chapter 21, verse 4. New Delhi: Chaukamba publications, reprint 2020:116.
- 4. Jadava trikamji acharya, charaka samhitha of agnivesha revised by charaka and completed by dridabala, reprint edition, sutrasthana; Santharpaniyodhyaya: chapter 23, verse 80. Varanasi: chaukamba Orientalia, 2014;122.
- 5. Vaidya jadavji trikamji acharya, editor, Commentary Ayurveda dipika of Chakrapanidatta on charaka samhitha by agnivesha, Sutrasthana, Asthanindithiyoadhya: chapter 21, verse 3. Newdelhi: Chaukamba publications, reprint 2020;116.
- 6. Obesity browsed on 15-01-2023, available at https://pubmed.ncbi.nim.nih.gov/30691719/
- 7. Jadava trikamji acharya, charaka samhitha of agnivesha revised by charaka and completed by dridabala, reprint edition, sutrasthana; Asthanindithiyoadhya: chapter 21, verse 20. Varanasi: chaukamba Orientalia, 2014;122.
- 8. Vaidya jadavji trikamji acharya, editor, Commentary Ayurveda dipika of Chakrapanidatta on charaka samhitha by agnivesha, Sutrasthana, Asthanindithiyoadhya: chapter 21, verse 9. Newdelhi: Chaukamba publications, reprint 2020;117.
- 9. Acharya Vaidya Jadavji Trikamji, editor, Commentary Nibandhasangraha of Dalhanacharya on Sushrutha samhitha of sushrutha,Sutrasthana;Mudagarbhachikitsitham: chapter 15,verse 32. Varanasi: Chaukamba publications,reprint 2009;73.
- 10. Vaidya jadavji trikamji acharya, editor, Commentary Ayurveda dipika of Chakrapanidatta on charaka samhitha by agnivesha, Sharirasthana, Jathisutriyashariram: chapter 8, verse 21. Newdelhi: Chaukamba publications, reprint 2020;462.
- 11. Vaidya jadavji trikamji acharya, editor, Commentary Ayurveda dipika of Chakrapanidatta on charaka samhitha by agnivesha, Nidanasthana, Pramehanidanam: chapter 4, verse 47. Newdelhi: Chaukamba publications, reprint 2020;215.
- 12. Acharya Vaidya Jadavji Trikamji, editor, Commentary Nibandhasangraha of Dalhanacharya on Sushrutha samhitha of sushrutha,Sutrasthana;Viparithavranavijnaiyadhyaya: chapter 28,verse 15. Varanasi: Chaukamba publications,reprint 2009;179.
- 13. API Textbook of medicine, Shidharth N Shah, volume-II, Chapter 16, published by Association of physician of India. Bombay: 8th edition;986.
- 14. Bhishagacharya Vaidya Harasastri Paradakara, editor, commentary Sarvangasundara of Arunadatta & Ayurvedarasayana of Hemadri on Astangahridayam of Vagbhata. Sutrasthana;Dwividopakramaniyadhyaya,chapter14; verse31. NewDelhi: Chaukamba Publications, 2012;316.
- 15. Bhishagacharya Vaidya Harasastri Paradakara, editor, commentary Sarvangasundara of Arunadatta & Ayurvedarasayana of Hemadri on Astangahridayam of Vagbhata. Sutrasthana; Dinacharya,chapter2; verse15. NewDelhi:Chaukamba Publications, 2012;68.
- 16. Acharya Vaidya Jadavji Trikamji, editor, Commentary Nibandhasangraha of Dalhanacharya on Sushrutha samhitha of sushrutha, Chikitsasthana; Niruhakramachikitsitham: chapter 38, verse 82. Varanasi: Chaukamba publications, reprint 2009; 358.
- 17. Vaidya jadavji trikamji acharya, editor, Commentary Ayurveda dipika of Chakrapanidatta on charaka samhitha by agnivesha, Sutrasthana, Asthanindithiyoadhya: chapter 21, verse 26-29. Newdelhi: Chaukamba publications, reprint 2020;128-130.