PHYSIOLOGICAL ASPECT OF SWEDAVAHA SROTAS WITH SAMANA VATA AND ITS CLINICAL IMPORTANCE

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ABSTRACT

The concept of *srotas* broadly described in *ayurveda samhitas* in both anato-physiological aspect. The word *srotas* is derived from the Sanskrit root *shu- gata dhatu*, which means to exude, to flow, to filtrate. *Srotas* is nothing but the *akash mahabhuta* (space). The concept of *srotas* indicates all macro, micro level description applicable to exchange, transportation and excretion. The *swedavahasrotas* and *samana vata* perform many functions in body but when it get disturbed may convey some pathological manifestation, therefore it is essential to understand physiological concept of *swedavahasrotas* and *samana vata*. This article presenting *Ayurveda* concept of *swedavahasrotas* in systemic manner, to understand functions of *swedavahasrotas* and *samana vata* in physiological condition and its clinical importance.

KEYWODRS

Ayurveda, Swedavahasrotas, ambuvaha srotas, samana vata, agni, kleda.

INTRODUCTION

The concept of *srotas*as of both the *Acharyas* has be mentioned differently in their views, *charka* broadly considered the concept of *srotas*as on physiophatological (i.e. on functional abnormalities), whereas *sushruta* considered on anatopathological (i.e. on structural abnormality). Due to this discrepancy in their outlook it is sure that there must be diversification between two *acharyas*. That can be clearly understood in relation to the *sweda* vaha *srotas*. *Moolasthana* of *swedavahasrotas* are *medas* and *romakupa*. Mainly *moolastha* of *srotas* maintains and regulates the flow of *dhatu* and *mala*. The existence of *srotas*as can be proved with the help of *pramanas* as *Aptopdesh* (Aoutherative statement), *Prathyaksha* (direct persrption), *Anuman* (inference), *Yukati* (Rational-logical reasoning).

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AIM

1. To study the physiological and clinical significance of *swedavahasrotas* and *samana* vata.

OBJECTIVES

To understand the concept of swedavahasrotas in detail by review of literature.

To get knowledge about functions of swedavahasrotas with samana vata.

To understand clinical significance of *srotas* and *samana vata* in diseases.

MATERIAL METHODS

Classical Ayurveda texts like charaka samhita, ashtang hrudya, sharangdhara.

Sweda –

In Ayurveda sweda is one of the waste product of body. Ayurveda explains sweda is mala of meda.

Properties of sweda- drava, singdha, ushna, visragandhi.

Panchabhautika constitution

Sweda has dominance of jala and teja mahabhuta. Some scholars consider it as jala mahabhuta dominant.²It is listed among the watery components in body.³

Formation of *sweda* - as waste product (mala) of *meda* dhatu.⁴ *Sweda* and *dosha* – *dosha* which are functionally active in *sweda*

Acc. To ashryaashrayee bhava sssssss is present in sweda.5

sweda is ushna and in vapor form so it is considered as site of pitta dosha.6

Samana vata and vyana vata are helps in transport and excretion of sweda respectively.

Functions of sweda – holding of kleda in body.⁶, softness of skin, gives moisture to skin, kept skin soft and singdha.⁷

Swedavahasrotas -8

Moolasthana of swedavahasrotas – The moolasthana of swedavahasrotas are meda (adipose tissue) and lomakupa (hair follicles). Mainly moolasthanas of srotas maintains and regulates the flow of dhatu or mala.

Vitiating factors of *swedavahasrotas* are *ativyayama* (heavy exercise), *atisantap* (exposed to heat condition), *sheetaoshnakrama sevana* (improper use of hot and cold substances), *krodha*(anger), *shoka*(grief) and *bhaya*(fear).

Swedavahasrotas dushti lakshana- symptomps of swedavahasroto dushti

SwedavahaSrotas are affected due to Ati-Vyayama (excess of exercise), Atisantapa (exposureto excessive heat), Shita-ushna karma sevana (indulgence of cold and hot things without following the prescribed order or alternatively), Krodha (anger), Shoka (grief) and Bhaya (fear) ⁹and following symptoms appear-

- 1). Atiswedana- Atiswedana also known as Sveda-abadha. It is condition where sweating (hyperhidrosis) becomes clinically noticeable. Generalized hyperhydrosis may present in Jwara¹⁰, Prameha, Vatarakta etc.
- 2). Aswedana- Aswedana or Sweda apravartana or Sweda avarodha means absence or reduction of sweat. This implies either to complete absence of sweat or partial absence of sweat. Aswedanam can be assessed by the features of Swedakshaya like Romachyuti, Sphutan Twacha. It may be found in various diseases such as Ekakustha, Kustha etc. while in modern it may be present in Eczema, Atopic dermatitis, Psoriasis, Lichen planus etc.
- 3). Parushya- Parushya generally means roughness or hardness. Various synonyms of Parushya are described in classics like Karkash, Kathinyam, Rukshatvam.
- 4). Atishlakshana- It means excessive smoothness and glossiness in the skin.
- 5). Paridaha-Paridaha means burning sensation or conflagration. Other terminologies which can be included under Paridaha are Osha: Burning sensation pertaining to an area. (eka deshiko daha) Chosha: Pain produced when something getting sucked out of the body. (aachushana samatvadityeke)
- 6). Lomaharsha- Temporary local change in the skin when it becomes rougher due to erection of arrectors pilorum, also known as *horipilation* and *goose lumps*. It occurs due to cold, excitement or fear.

Samana vata-

One of the important type of *vata dosha*. Which helps in digestion and separation of essence and wastes and eliminates from the body.

Location and function of *samana vata – samana vata* remains situated near digestive fire, moves in *koshta* according to *vagbhatacharya*. ¹⁰

Sharangdhra describes naval as the prime location of smana vata.

Charkacharya has described the special location of samana *vayu* is *swedavahasrotas*, *ambuvaha srotas* and *doshavaha srotas*. It also remain near the *jatharagni* and provides strength and helps the digestive system. ¹¹

Sharangadhar finds samana *vayu* helpful in the circulation of blood. The main diseases produced by the aggravation of *samana vayu* are *gulma*, *agnisada*, *atisara*. 12

Action of smana vayu can be summarized as-

- 1. Annaghrahana
- 2. Agni sandhukshna

- 3. Annapachana
- 4. Sarakittavibhajna
- 5. Control over the *sweda*vaha, *dosha*vaha and *ambuvaha srotas*.
- 6. Facilitating the absorption of digestive food and helping in blood circulation.
- 7. Excretion of the waste products.¹³

Functions of vata dosha in swedavahasrotas -

- 1. *Vyana vata* opening and closing of *swedavaha*srotomukha is done by the *vyana vata*.
- 2. Samna *vata* –to bring *agni* in *swedavahasrotas* from *koshta* and brought back to the *koshta* is the important function of *samana vata*. Sarakitta vibhjana and vikshepan means transport of sara and kitta to their respected srotas is also the main function of samana vata¹⁴. Because all body entities are *pangu* (handicapped), only *vata* can move and moves other body entities also.

Relation between kleda and sweda

Sweda is also have character of kleda. In Ayurveda watery fluids in body is also known as jala, ambu, ap dhatu and kelada. Kleda is also drava mala. Functions of kleda is transport of malas of sapta dhatu. Sweda and kleda are same that's why "swedasya kledavidhruti".

DISCUSSION

Dosha dhatu malanam ushma iti agni |

Iti aangeya anushasanam || vagbhata

What *vaghbhatcharya* want to say from this quote. All taken food in our body is digested by the *pachakagni*, *panchabhutagni* and *saptadhatvagni* and all *dhtau malas* are produced.

But also there is generation of heat energy also at every step of chemical reaction of the body and all chemical and enzymatic reaction of the body are carried out under the cover of this heat energy. But in this way body heat energy is going to increase only. On other hand release and control of body heat energy is also important and is done by the *samana vata*

Samana vata is responsible for the generation of heat energy through pachakagni and dhatvagni and regulation of heat energy through swedavahasrotas and ambuvaha srotas. Protection of the body from external weather by regulating body heat energy.

Functions of swedavahasrotas through samana vata –

- A. In different seasons grishma and sharad rutu
- B. In different diseases like jwara, medoroga.
- 1. *Grishma rutu* During *grishma rutu* external environmental heat increases continuously s similarly body heat energy is also increases.

On that time *samana vata* carries body heat energy through *swedavahasrotas* and releases heat through *sweda*. Heat energy is thrown away from the body by conduction radiation and evaporation.

Samana vata carries agni towards skin and swedavahasrotas. That's why rasaraktasamvahana increase at the level of skin then body sweats and body heat get controlled.

Also because of *agni* carried in *swedavahasrotas* by *samanavata, dourbalya* and *agnimandya* is occurs in summer season. 14s

2. Sharad rutu- During sharad rutu samana vata shows opposite functions. Samana vata carries agni from srotas to koshta.refrence

Mukha (openings) of swedavahasrotas are closed and rasarakta samvahana is decreased at the level of skin results in no sweating and agni at his own place (koshta) that's why appetite is increases means koshtagni increases.¹⁵

In this way we can understand the functions of *swedavahasrotas* with the help of saman *vata*.

- 3. Jwara¹⁶ Aamavstha In sama jawara agni is present in the rasaraktasamvahana not in koshta and mukha (opnings) of swedavahasrotas are closed due to aama.
 - For that *aama pachan samana vata* carries *agni* from *kostha* to *shakah*. That's why *jwara* patient shows signs of *agni*mandya and increased body temperature.
 - After proper *pachan* of *aama, mukha* of *swedavha srotas* gets opened and body sweats. After sweating body temp decreases automatically.
- 4. *Medoroga* –In *medoroga samana vata* and *agni* both obstructed *koshta* due to *meda*.¹⁷ That's why *samana vata* not able to carry *agni* towards skin and in *swedavahasrotas*. *Medorogi* patients feels hungry always *Agni* get obstructed in *koshta* and *samana vata* does *sandhukshan* continuously.

But also fatty person sweats a lot¹⁸ and his body touch is always cold.

How does this happen? The answer is hidden in functions of *vata*.

As we see the transport of Agni is the function of samana vata and opening and closing of srotomukha is the function of vyana vata. And in meda roga opening of swedavahasroto mukha done by the vyana vayu. That's why sweating in medoroga happens and sweda is the mala of meda. When meda dhatu increases its mala sweda also increases but in medorogi this formed swedaas pachan is not done because samana vata get obstructed in koshta. For sweda pachan there is no agni in swedavahasrotas and sweat of medorogi have visragandha.¹⁹

Swedavahasroto dushi lakshane includes aswedana, atiswedan, parushya, paridaha, lomaharsh.

Aswedana and atiswedanam is both done by the samana vata²⁰ and vyana vata dosha. Reference only of vyan²¹ vata-su.ni.1

Swedana karma –

Ayurveda swedana karma is important as a purva karma and Pradhan karma also.

In swedana karma bahya ushma opens the swedavahasrotomukha and excrete the mala sweda.

Swedana karma mainly done in the vatakaphatamaka vyadhi. In this type of vyadhi sthambhan of vata is occurs due to kapha. That sthambhan released by the ushna, laghu, sukshma srotogami swedan drugs. Then samana vata comes with agni in swedavahasrotas does pachan of sweda mala and then body sweats properly.

CONCLUSION

Swedavahasrotas not only plays a vital role in the manifestation of the disease but also are the prerequisite for maintaining the basic physiological function of the human body.

Swedavahasotas are pathologically important because any deformity in this srotas causes excessive perspiration or no perspiration and other symptoms related to this srotas. In various diseases, for example- Kustha and Ekkustha, Pandu, Sthaulya, Prameha and Madhumeha, Vatarakta, Jwara etc, vitiation in swedavahasrotas causes different rupa and purvaru. Obstruction in swedavahasrotas causes Udara roga.

Pathophysiologically *Swedavahasrotas* and *samana vata* plays important role to maintain homeostasis of human being, because any disturbance in this *srotas* rises many symptoms and diseases.

In all Functions of *swedavahasrotas* and its pathophysiological condition there is main role of *samana vata* and *vyana vata*.

In various diseases of *swedavahasrotas* for *samprapti vighatan* (breakdown of pathogenesis) we should think about condition of *samana vata* and *vyana vata* also.

Samana vata location is near digestive fire so in the treatment of swedavahasrotas jatharagni should be treated first.

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