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RESEARCH ARTICLE

CO-RELATION OF PRANAVAHA SROTAS AND RASAVAHA SROTAS WITH REFERENCE TO THEIR MOOLASTHANA

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ARTICLE INFO	ABSTRACT
Article History:	\mathscr{I} Pranavahe dwe tayormoolam hridayam rasavahinyaschya (pranvahinyashchya)dhamanya: \mathscr{I}
Received 28 th April, 2017 Received in revised form 25 th May, 2017 Accepted 22 nd June, 2017	su.sha.9/12 ∬ tara pranavahanam srotasam hridayam moolam mahasrotasam ch∬ ∬Rasavahanam srotasam hridayama moolam dasha cha dhamanya ∬ cha.Vi. 5/7
Published online 26 th July, 2017	<i>Sharir Rachana</i> is basic subject of medical science. Hence concepts of <i>Sharir</i> should be cleared. Ayurveda gives various ideas of <i>Sharir</i> , which should be explained on the modern basis. <i>Strotas</i> is
Keywords:	one of Ayurvedic term & one of the basic concept of Ayurveda. Acharya Charak had explained srotas as medicinal view while Sushrut had explained strotas according to surgical aspect. Pranavaha strotas
Pranavaha strotas, Prana, Respiration, Strotas, Lungs, Oxygen, Rasavaha strotas, Rasavahi dhamni, Hriday.	and <i>Rasavaha</i> strotas are important <i>strotas</i> , which carry <i>Prana</i> and <i>Rasa</i> all over body. By studying these <i>strotas mulasthana</i> , <i>vidha laxanas</i> & <i>vahana</i> , also by studying concern reference regarding <i>pranvaha</i> & <i>Rasavaha strotas</i> etc. idea of these <i>strotas</i> are explained, how they are related to respiratory & cardiovascular system. It will be helpful to people concern to <i>ayurveda</i> to clear ideas regarding <i>strotas</i> as well as <i>Pranvaha</i> & <i>Rasavaha strotas</i> . How <i>Pranavaha</i> & <i>Rasavaha strotas</i> are corelated to heart,lungs and other structures like pulmonary artery and pulmonary vein is elaborated in this article. In modern science this correlation of <i>Pranavaha</i> & <i>Rasavaha strotas</i> may called as cardiopulmonary system.

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INTRODUCTION

Defination of Srotas

- A Channel that transport only *dhatu* under metabolic transformation is called *srotas*.
- There are a many number and types of *SROTAS* mention by different authors.
- Each *SROTAS* is attached to a specific anatomical structure called *Moola Sthana*.
- As per *Acharya Sushrut* A srotas is tubular structure or organ which initiate the flow of the fluid material from the inner of the body to its outer opening
- SU. SHA. 9/13
- As per *Acharya Charak* There are *srotas* as much organs are there in our body.
- CHA. VI. 5/2

Panchabhautkatva of srotas (Constituion): *Srotas* are *Panchabhautik* with predominans of *akash mahabhoot*.

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Utpatti of srotas

In intrauterine life, due to *pradhamana* (movements) of vayu in embryo (*pittadwara pachit mansakhanda*) srotas are produced.

Functions of srotas

- STRAVAN (Secretion)
- PARINAMANA (Reproduction and Recycling)
- UTSARJANA (Excretion of Waste Products)

The normal functioning of the particular *srotas* is depends upon its moolasthan. Any abnormalities in these periphera *lsrotas* ultimately can affect the *moolasthan* of *SROTAS*.

Types

As per Charaka-

- A) BahirmukhaSrotas-9
- B) Antarmukha srotas-14

AS PER SUSHRUTA

- He stated 11 pairs that is 22 SROTAS
- He had not consider *Asthivaha*, *Majjavaha and Swedvaha srotas*
- Because these are *sarvashahir vyapi* (involved all over body)

Determination of Moolasthan of srotas

For the determination of moolasthana of srotas some points have been logically and categorically counted in the various classics. Such as-

- *Utpatti sthana (moolasthan* related with origin point of view)
- Sangraha sthana (moolasthan related with storage)
- Vahana sthana (moolasthan related with conduction)
- *Naidanic drishtikon (moolasthan* related with diagnostic point of view)
- *Chikitsatmak drishtikon (moolasthan* related with clinical point of view)

But the clinical standpoint has been considered in all the cases of determinations of the *moolasthan*. Observation as per clinical point of view it is clear that, the *mulasthan* of *srotas* can be divided basically into two types-

• *Sthaniya niyantrak* (local controller), b)*Pramukha niyantrak* (unique controller).

It can be considered that, all above explained *moolasthan* are local controllers of their corresponding *srotas*.

Pranavaha srotas and its Moolasthana: Pranavaha srotas is one of the most important systems in the body. Prana is said as pavana or anila. Life sustenance relays on Oxygen Ambara peeyusha and water in the body. The word Prana is derived from the Sanskrit root "An" with a prefix "Pra". "An" means to breath, to live. One of the meanings of the root "Pra" is to fulfill, where as one of the meaning of "Na" is the nasal. Thus, the whole word Prana means the fulfillment through the nasal part, which is necessary for the prolongation of life. Acharya Chakrapani has explained thatPranavaha srotas are the channels through which the Pranavayu flows. Charak stated that Hridaya and Mahasrotas is the root of Pranavaha srotas, while some others believe Hridaya and Rasavahani dhamani to be the roots of Pranavaha srotas. In a human body, nasa or nose is said to be the gateway of head and as such, it can be assumed that Pranavaha srotas is a structure made up by various organs right from the tip of nasa up to the maha srotas.. Sushruta seems to have indicated this aspect by stating that the Hridaya (in this context, the thoracic heart) and Rasavahani dhamanies are the moolas of the Pranavaha Srotas. From Acharya Sharangadhara explanation about the total physiology of Respiration, it is understood that Hridaya is the Moola Sthana of Pranavaha srotas. According to him, "Prana Pavana" situated at Nabhi (Heart), after leaving Hritkamala (Lungs) comes out through Kantha mixed with Vishnupadamruta. After having Ambara Peeyusha (oxygen), it comes back quickly into the body to nourish the whole body and to enliven the digestive fire in the stomach. With

cardiovascular system. The process of respiration is- governed by the conduction system of heart and by brain. Therefore, Hridaya comes as the Moola Sthana of Prana vaha srotas.. In Sharngadhara samhita, it is mentioned that Phupphusa is the adhara for Udanavavu. Moreover, Udanavavu is the one, which helps in ucchwasa kriva. This also supports Phupphusa as Mahasrotas. Rasavahi dhamani is the name given to the arteries which helps in taking pure and nutritionally rich blood. from Phupphusa to Hridaya and then to all body tissues. Hridaya is the seat of Ojus, Prana and root of the Rasavaha srotas also. Hence, it is clear that these siras carry the Ojus or the Prana from Heart to the smallest unit of the body as they further divide into numerous branches and attain the name Mahaphala. Prana reaches to every corner of the body through Rasavahi dhamani and then performs the categorical functions. So there by Rasavahi dhamani is considered as Moolasthana as mode of transportation

Rasavaha Srotas and its Moolasthana

According to *Charak* and *Vagbhatta*: The moola of *Rasavaha* srotas is hridaya and related ten *dhamanis*.

Dhatuvaha srotas are called as *abhyantara pranas* of the body. The first question is why *hridaya* and *rasavahini dhamanis* are considered as *moola sthana* of this *srotas*? No doubt *hridaya* is essential in transporting all the nutrition of the body to the tissues, but still why it is considered only to this *srotas* and to pr*anavaha srotas* only what might be the reason beyond this? Among these two *moola sthanas*, first one is very clear and where as second one is not much clear.

In *Sutra sthana Charaka* mentioned a *Arthedashamahamooliya* chapter in which he explained about the *hridaya* regarding the importance, structures related to it and how to protect it from external and internal factors. But in this chapter he did not mentioned about the ten *dhamanis* which are related to *hridaya* in detail. Some people have related the ten *dhamanis* as follows:

- Right coronary artery
- Left coronary artery
- Superior vena cava
- Inferior vena cava
- Pulmonary trunk
- Aorta 7-10. Four pulmonary veins.

Totally these 10 have been considered as ten *dhamanis* as per some authors.

As per Sushruta the moola sthana of rasavaha srotas are hridaya and rasavahini dhamani. Here Sushruta has said that one lakshana as extra than the pranavaha srotas viddha lakshana which is 'shosha' and the remaining all are same which are explained in pranavaha srotas. Because srotas has a main role in nourishing the body parts and also essential in formation of remaining dhatus in the body.

DISCUSSION AND CONCLUSION

As per *sushruta* the *moola sthanas* of *pranavaha srotas* are *hridaya* and *rasavahini dhamani*. So what is *rasavahiniya dhamanis*? It can be considered as the vessels which carry *rasa*

in the body. In the body prana and rasa are moving in same channel so Acharya has used the word as 'rasavahiniya dhamanis' for both pranavaha and rasavaha srotas. the vessels which carry the fluid which is more predominant of nutrition and oxygen should be considered as rasavahini dhamanis. In case of Pranavaha Srotasa, Moolastahana is the place from where it is being distributed and regulated. The Heart and the Respiratory centre of the Brain ultimately govern the process of respiration, which takes place in the Lungs. Rasavahi dhamani is considered as Moolasthana as mode of transportation. Therefore, it can be concluded that Mahasrotas, Hridaya, Rasavahi dhamani and Moordha works together in the functioning of Pranavaha srotas .whereas the hridaya and rasavahi dhamni are the moolasthana of rasavaha srotas also.It means from this we can conclude that moolasthana of pranavaha srotas and rasavaha srotas are strongly co-related as a functional units of pranavaha srotas and rasavaha srotas. In many of the cardiac diseases it is observed that Swasa and Kasa as common cardinal feature. Which can be regarded as Paratantra Swasa or Kasa, there are many of cardiac disorders resulting from Pranavaha sroto vyadhis which are placed under Swasa particularly Maha, Urdwa and Chhinna swasa In the context of Vega dharana also Acharya Charaka mentioned about Hridroga in Sramaswasa dharana and Kasa Dharan, which are having direct relation with Pranavaha srotas. Lungs looks active during the process of respiration, but it is vitalized by heart, so there is a proportion with Heart rate and respiratory rate in the ratio of 4:1.

Thus by considering all these views of our great saints, it can be concluded that there is deep relation of respiratory system and cardiovascular or circulatory system. This prosses of respiration is governed by the conduction system of heart and brain .therefore, *Hridaya* comes as the *moolasthana of pranavaha srotas*.

From all above discussion and review of literature we can conclude that the *Moolasthanas* of *Pranavaha* and *Rasavah* srotas are strongly co-related.

REFERENCES

- Agnivesha,1994.Charakasamhita viman sthana ,chapter 5,shloka 2.4th edition. varanasi, Choukhamba Sanskrit Sansthana.
- Ghanekar, B.G. Sushrut samhita, sharirsthanam, Meharchand, Laghamchand Publication, New Delhi-110002.Reprint-2006,chapter4/2
- Nicholas Boom, Nicki R. Colledge, and Brian R.Walkar, Devidson's Principles and Practise of Medicines.
- Richard L Drake, Wayne Vogl, Adam W.M. Mitchell Grey's anatomy for student,
- Vd.Kashinatha Pandya,CharakSamhita,viman sthana,chapter 5,shloka 2Chaukhambha-BharatiAcademy, Varanasi.
