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CRITICAL STUDY OF DHAMANEE IN SROTAS MOOLSTHANA W.S.R. TO ANNAVAHI DHAMANEE

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ABSTRACT

In Ayurveda great emphasis has told laid upon concept of Srotas and got immense importance because the Sharir or Purush is assumed to be made of innumerable *Srotas*. Holistic biology of *Ayurveda* is based on Triguna, Tanmatra, Tridosha, Saptadhatu, Oja, Agni, Ama and Srotas. Srotas is used as dynamic inner transport system. Body consist of various components like Dosha, Dhatu and Mala. But other Bhavpadartha transported from one place to another in Srotas. Each Srotas is attached to specific anatomical structure called Moola means root or base. Structurally the Srotas are hollow channels originating from the root space spread with in whole body. In Ayurveda Dhamanee is term different at various places in different contexts like artery,

nerve, tubular structure etc. Every Srotas has two components one is act as source or reservoir and other work as disposing organ. In Sushrut Samhita in Dhamanee Vyakaran Sharir, there are two types of Koshtak, Dhamanee Koshtak and Srotas Koshtak in this work we explained Dhamanee in Srotas Koshtak. Annavaha Srotas is the channel for transportation, digestion and absorption of food. It's Moola are Amashaya and Annavahini Dhamanee as per Sushruta. As Annavaha Srotas and it's components deals with transportation of food material. Annavahi Dhamanee stated is a tubular structure other than artery, so Annavahi Dhamanee is considered as a esophagus and small intestine.

KEYWORDS: Annavahi Dhamanee, annavaha srotas, Sroto Dhamanee, srotas koshtak.

INTRODUCTION

Sharir is formed by innumerable number of Parmanu, which are in present time cosidered as cells. For the existence of life, the three elements i.e. Prana, Udak and Anna are very important, body which is constituted by the seven *Dhatus* and the end products formed in the body due to catabolism of Dhatus i.e. Mutra, Purisha and Sweda which all are eleven Yogvahi Srotasa^[1] in Sushrut Samhita. Moola of Srotas is anatomical base of the respective *Srotas*, the main seat of pathology of that *Srotas* or principal seat of manifestation of disease. Moola of Srotas is, 1) root of Srotas (origin of collecting place), 2) conducting parts, 3) the main seat of pathology of that channel, 4) the principal seat of manifestation of disease after the vitiation of that particular Srotas. Srotas is defined as the hollow channel, except Sira and *Dhamanee*, which originating from root space spreads the body and carries specific entities. [2] Each Srotas is attached to a specific anatomical structure called moola. "Moolamiti prabhav sthanam" moola means root or base. The base is known as "Prabhav sthanam" or area of influence.[3]

The normal functioning of the particular group of channels is depending upon *Moolsthana*. In Dhamanee vyakaran sharir, there are two types of Koshtak, 1) Dhamanee Koshtak, 2) Srotas Koshtak, in Srotas Koshtak Moolsthana of Srotas is a Dhamanee i.e. Pranyaha Srotas (Hriday, Rasavahi Dhamanee), Annavaha Srotas (Amashaya, Annavahi Dhamanee), Rasavah Srotas (Hriday, Rasavahi Dhamanee), Raktavaha Srotas (Yakrit, Pleeha, Raktavahi Dhamanee), Mansavaha Srotas (Snayu, Twacha, Raktavahi Dhamanee), Aartavavaha srotas (Garbhashaya, Aartavahi Dhamanee).[4] According to Ayurveda, Acharya has given different estimation concerning Moolsthana of Annavaha Srotas. Acharya Sushruta has reveals Amashaya and Annavahi Dhamanee as a Moolsthana of Annavaha Srotas. [5] Dhamanee is a comprehensive term used in Ayurveda compendia at various places in different context like Artery, Nerve, tubular structure etc. Thorough review of literature from Ayurved compendia, modern texts and journals was done to clarify the term *Dhamanee*. So there is ambiguity concering *Moolsthana* of *Annavaha Srotas* in ayurvedic compendia.

MATERIALS AND METHOD

Through review of literature related to *Dhamanee* in *Srotas Moolsthana* and relevant topics was done through the Ayurveda compendia, various other Ayurveda texts and textbooks of contemporary science. The references from internet and journals were also critically reviewed the study was initiated for affirmation of Annavahi Dhamanee is Moolsthana

of AnnavahaSrotas as per Sushruta.

REVIEW OF LITERATURE

Srotas is internal transport system of the body. Total eleven Srotas are described by Sushruta. [6] The cause of morbidity of Srotamsi and their manifestation, pertaining disease has also been explained. The set of channels is apparently described as major seat of disease which can be clinically examined in a patient by physician for diagnostic purpose. Dhamanee is "Dhamnadanilpoornad Dhamanya" [7] I.e. Dhamanad means Spandan or peristaltic movement due to Vayu and Akash Mahabhuta. The action of peristalsis looks like on ocean wave moving through the muscle. *Dhamanee* is a comprehensive term used in *Ayurveda* at various places in different context like artery, nerve, tubular structure etc. Components deals with transportation of Bhavpadartha, stated is tubular structure other than artery. The literature review from Sushruta samhita related to Dhamanee in Srotas Moolsthana. Related to usually *Moolsthana* are two cardinal organs directly or indirectly related through scattered Srotas of body. Vessels which carry Ras and Rakta towards the body and has property of pulsation are known as *Dhamanee*. [8]

Pranvaha Srotas- Prana carrying channels are two their root being heart and rasa carrying Dhamanees. If injured it causes crying, bending, fainting, giddiness, trembling and death. [9] Rasavahi Dhamanee also called as Pranavahi Dhamanee. It is correlated with pulmonary vessels which carries blood from heart to bronchiole and vice versa. Hridaya originates from the essence of blood and *Kapha* supports the prana carrying vessels.^[10]

Annavaha Srotas- Food carrying channels are two with their roots being Amashaya and Annavahi Dhamanee. If injured it causes flatulence, colic, aversion to food, vomiting, thirst, blindness and death.^[11] A tubular structure extending from mouth to stomach is called *Anna* nadi or Annavahinee. This Anna nadi (esophagus) is situated behind the Swasa nadi (trachea), expand below like a funnel, passes through diaphragm and enters the abdominal cavity to continue itself as stomach, it continues the small intestine. Acharya Sushruta has included this as root source of Annavaha Srotas.

Rasavaha Srotas- Rasa carrying channels are two their root being heart and rasa carrying Dhamanee. If injured it produces consumption along with other symptoms as in injury to the prana carrying ones and finally death. [12] Rasavahi Dhamanee correlated with pulmonary and systemic vessels because Srotoviddha lakshana of Pranvaha Srotas similar to Rasavah Srotas.

Raktavaha Srotas- Blood carrying channels are two their root being liver, spleen and blood carrying *Dhamanee*. If injured it causes cyanosis in body parts, fever, burning sensation, pallor, haemorrhage and blood shot eyes. [13] Raktavahi Dhamanee is correlated with portal capillaries.

Mansavaha Srotas- Muscle carrying channels are two their root being ligament, skin and blood carrying *Dhamanee*. If injured it produces swelling, wasting of muscles, nodular growths in blood vessels and death. [14] Raktavahi Dhamanee correlated with muscular capillaries which is embedded in the muscles.

Aartavavaha Srotas- Channels carrying menstrual blood are two their root being uterus and Dhamanee carrying menstrual blood. If injured it causes sterility, intolerance to sexual intercourse and amenorrhea. [15] Aartavvahi Dhamanee correlated with uterine arteries because, themenstrual blood collected for a month and which is slightly black and discolored is brought by Vayu through two channels to the vaginal opening in appropriate time. [16]

Dhamanee is a comprehensive term used in Ayurveda compendia at various places in different context like Artery, Nerve, tubular structure etc. Thorough review of literature from Ayurved compendia, modern texts and journals was done to clarify the term *Dhamanee*. So Dhamanee is the similar structure of the Srotas and cardinal organ of Moolsthana which carry other body components needs to be transported from one place to another.

DISCUSSION

Srotas are related to each other when one Srotas is vitiated then other Srotas are affected also. If Annavaha Srotas is vitiated then affected other Srotas also like Pranvaha, Rasavaha and Purishvaha Srotas. Such as GIT(Gastrointestinal tract) is too related to all other system. Actually anatomically, Annavaha Srotas is related with esophagus, stomach and small intestine. The digestion and absorption takes place till the last part of small intestine. Since the *Anna* is present in this area.

Annavaha Srotas describe in Ayurvedic epics is related to structural and functional units associated with mechanical and chemical digestion in the stomach, esophagus and small intestine. Annavaha Srotas is one of prime Srotas present in our body providing nutrition to each cell of body. The Moolsthana stated in Sushruta Samhita are Amashaya and Annavahi Dhamanee. The Annavahi Dhamanee stated by Sushruta in context of Annavaha Srotas is not clarified well in Ayurvedic literature. The Amashaya stated in Ayurveda has great similarities with stomach in contemporary science. Stomach is reservoir of the food. Serves as the mixer and grinder of food. Stomach secrets acid and powerful enzymes that continue the process of breaking the food down and changing it to a consistency of liquid or paste. According to Sushruta Samhita one of Moolsthana of Annavaha Srotas is Annavahi Dhamanee. Dhamanee is a broad term used in different Ayurvedic context at various places. In some previous work done Annavahi Dhamanee is taken as artery or blood vessels related to stomach. But transportation of food through blood vessels is not possible hence, Dhamanee is the tubular structure which transport food.

Food processing being with ingestion, form a bolus due to mastication. In deglutition, tongue pushes the bolus towards the pharynx and into esophagus. Upon entering the esophagus peristalsis of smooth muscle carries the bolus towards stomach, throughout the digestive tract. From the esophagus, the bolus passes through gastroesophageal sphincter into stomach. In the stomach peristaltic contraction churn the bolus, powerful HCL in stomach breakdown bolus in chyme. The chyme is transported through pyloric sphincter in to small intestine. The small intestine has three parts; duodenum, jejunum and ilium. Ingested food starts to arrive in small intestine after 1 hour and afte 2 hours the stomach has emptied. As the food is digested in small intestine and dissolve into the juices from the pancreas, liver and intestine. Food moves to the small intestine, between meals the non liquefiable remnants are released from stomach and ushered through the rest of the intestine to be eliminated. [17] Finally all the digested nutrients are absorbed through the small intestine and weast product moves in to large intestine.

In above discussion, it is clear that the esophagus and small intestine are two tubular structures connected stomach helping for the transportation of the food and digestion. So *Dhamanee* is a similar structure of stomach which perform function of transportation. In *Sushruta*, *Srotas* is excluded *Sira* and *Dhamanee* it means that here, *Dhamanee* is expected as a tubular structure which transport the concerned material not the artery. According to modern science study of digestive system clears that the esophagus and small intestine are help in the transportation of food. So it is clear that *Annavahi Dhamanee* stated by *Sushruta*. An be considered as esophagus and small intestine.

CONCLUSION

Annavaha Srotas is passage which serves the function of transportation and digestion of Anna. Anatomically *Annavaha Srotas* can be considered as upper part of GIT (gastrointestinal tract) i.e. esophagus, stomach and small intestine. Annavaha Srotas describe in Ayurvedic epics, it is related to structural and functional units associated with mechanical and chemical digestion in esophagus, stomach and small intestine. Esophagus and small intestine can correlated with Annavahi Dhamanee, described by Sushruta as Moolsthana of Annavaha Srotas.

REFERENCES

- 1. Sushrut samhita; purvardha, sharirsthana; Chapter 5, Verse-5, edited by kaviraj Dr. Ambikadutta Shashtri. Hindi commentary based on Ayurved tattva sandipika; edition reprint 2013; Chaukhamba Sanskrit Sansthan, 2013; page no. 55.
- 2. Sushrut samhita; purvardha, sharirsthana; Chapter 9, Verse-13, edited by kaviraj Dr. Ambikadutta Shashtri. Hindi commentary based on Ayurved tattva sandipika; edition reprint 2013; Chaukhamba Sanskrit Sansthan, 2013; page no. 97.
- 3. Joshi Y.G. Ayurvediya sharirkriya vigyana (marathi) 19th chapter; Reprint, edition, varanasi; chaukhamba vishwabharati, 2010; page. No. 348.
- 4. Sushrut samhita; purvardha, sharirsthana; Chapter 9, Verse-12, edited by kaviraj Dr. Ambikadutta Shashtri. Hindi commentary based on Ayurved tattva sandipika; edition reprint 2013; Chaukhamba Sanskrit Sansthan, 2013; page no. 97.
- 5. Sharma P.V. editor, English translation of Dalhan commentary on Sushruta samhita, vol.2, sharirsthana, chapter 9, verse 12, reprint edition varanasi, chaukhamba vishwabharati, 2005; page. No. 220.
- 6. Ghanekar B.G. Sushruta samhita, Ayurvedarahasyadeepika hindi commentary, sharirsthana, chapter 9, verse 11, reprint edition, new Delhi, meherchand laxman das publication, 2009; page. No. 238.
- 7. Dalhan tika, Sushruta samhita, nibandhsangraha hindi commentary by dr keval krushna thakaral, sharirsthana, chapter 9, verse 1, reprint edition, chaukhamba oriantalia Varanasi, 2017; page. No.129.
- 8. D.G. sharir rachana vigyan, (A textbook of Human Anatomy), chapter 5, 1st edition, varanasi chaukhamba sanskrit series, 2005; page. No. 244.
- 9. Ghanekar B.G. Sushruta samhita, Ayurvedarahasyadeepika hindi commentary, sharirsthana, chapter 9, verse 12, reprint edition, new Delhi, meherchand laxman das publication, 2006; page. No. 239.

- 10. Sharma P.V. editor, English translation of Dalhan commentary on Sushruta samhita, vol.2, sharirsthana, chapter 4, verse 31, reprint edition varanasi, chaukhamba vishwabharati, 2005; page. No. 156.
- 11. Ghanekar B.G. Sushruta samhita, Ayurvedarahasyadeepika hindi commentary, sharirsthana, chapter 9, verse 13, reprint edition, new Delhi, meherchand laxman das publication, 2006; page. No. 240.
- 12. Ghanekar B.G. Sushruta samhita, Ayurvedarahasyadeepika hindi commentary, sharirsthana, chapter 9, verse 15, reprint edition, new Delhi, meherchand laxman das publication, 2006; page. No. 241.
- 13. Ghanekar B.G. Sushruta samhita, Ayurvedarahasyadeepika hindi commentary, sharirsthana, chapter 9, verse 16, reprint edition, new Delhi, meherchand laxman das publication, 2006; page. No. 241.
- 14. Ghanekar B.G. Sushruta samhita, Ayurvedarahasyadeepika hindi commentary, sharirsthana, chapter 9, verse 17, reprint edition, new Delhi, meherchand laxman das publication, 2006; page. No. 241.
- 15. Ghanekar B.G. Sushruta samhita, Ayurvedarahasyadeepika hindi commentary, sharirsthana, chapter 9, verse 22, reprint edition, new Delhi, meherchand laxman das publication, 2006; page. No. 243.
- 16. Sharma P.V. editor, English translation of Dalhan commentary on Sushruta samhita, vol.2, sharirsthana, chapter 3, verse 10, reprint edition varanasi, chaukhamba vishwabharati, 2005; page. No. 142.
- 17. Ross and Wilson, Anatomy and physiology in health and illness, edition- 2005, section 3, chapter 12, page. No. 293-303.
- 18. Shweta G. Kherde and sachin G. Khedikar; "critical study of Annavaha srotas moolsthana w.s.r. to Annavahi Dhamanee" IAMJ, 2017.