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Role Of Srotadusti In Disease Manifestation

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Abstract

"Srotamayam hi Shariram" signifies that the living body functions as a network of countless channels, serving as an internal transport system for various purposes. In Ayurveda, the concept of Srotas-the intricate network of channels through which vital substances such as Dosha, Dhatu, Upadhatu, & Mala circulate in the body from one place to another is fundamental to health. Healthy Srotas perform their normal functions, the outcome is the body will be free from diseases and unhealthy Srotas will become the root cause for the development of the disease process. Improper food and dietetics and improper regimen and erratic behaviour which are not conducive to the body, can result in the imbalance of Doshas and Dushyas. Srotas possess the Khavaigunya quality, allowing for the accumulation of vitiated Dosha and Dushya. Consequently, these Dosha and Dushya become lodged there, leading to the occurrence of Dosha-Dushya Samurchhana. This entire process is known as Srotadusti, which triggers the manifestation of disease. Mainly Srotadusti are of 4 types i.e Atipravritti (Increased activity/flow), Sang (Obstruction), Siragranthi (Reduction of the lumen of the system) & Vimarggaman (Opposite direction flow)¹. A thorough understanding of Srotodushti and its role in developing specific diseases is essential for effective holistic treatment of diseases.

Keywords : Srotas, Srotadusti, Khavaigunya, Doshadusya Samurchhana, Atipravritti, Sang, Siragranthi, Vimargagamana.

Introduction:

Srotas are the fundamental components of the human body and the approach to disease management relies on the nature of the *Srotodusti* and the specific *Srotas* involved in the progression of the illness. Identifying these elements is essential for an ayurvedic physician for effective treatment. Sravanat Srotansi means Srotas are channels that help in the transportation of various substances [2]. Poshya Dhatus like Rasa or nutrient substances are supplied to different parts of the body through the *Srotas* [3]. *Srotas* are those channels which carry the *Dhatus* undergoing transformation to the different destined region of body^[4]. According to *Maharshi Sushruta Srotas* are defined as empty spaces spread to entire body which originates from root space except Sira and Dhamani [5],But Maharshi Charaka included Sira and Dhamani in Srotas. Srotas are those in which Manas, Prana, Anna, Jala, Dosha, Dhatu, Upadhatu, Dhatumala, Mutra and Purisha are circulating. Srotas attain the colour of the *Dhatu* in which they circulate. Once the Srotas becomes abnormal due to different cause it will result in abnormality in *Dhatu* and then disease manifestation gets started. So, the process of Srotodusti plays an important role in disease formation.

Aim & Objectives:

- A critical analysis of the existing literature on Srotadusti.
- To study the role of *Srotadusti* in disease manifestation.

Material And Methods:

Concept Of *Srotas*: The term "*Srotas*" originates from the Sanskrit root "*Sru-gatau ksharane*" with the suffix "*Tasi*" added to the *Dhatu*^[6]. This has different

meanings - to exude, to ooze, to filter or to permeate.

Because of the function of *Sravana*, these are called as *Srotas*. "*Sravanat srotamsi*" refers to pathways where *Sravanam* (flow or dripping) occurs, and *Srotamsi* are the channels responsible for transporting *Dhatu* (*Asthayi* or *Poshya Dhatu*, meaning unstable or nourishing tissue elements). These *Srotas* are fine, extensive, and far-reaching, similar to lotus stalks, where *Rasa* (the nutrient fluid) circulates and nourishes the cells and tissues^[7]. In simpler terms, *Srotamsi* are the intricate networks through which nutrients flow to sustain and nourish the body.

Srotas Synonym:

Acharya Charak [8] has mentioned the synonyms of Srotas are Srotansi, Sira, Dhamani, Rasayani, Rasayahini, Nadi, Pantha, Marga, Shariracchidra, Samvrit, Asamvrita, Sthana, Ashaya and Niketa.

Srotas Aakriti^[9]:

Color: As per *Acharya Charaka*, the color of the *Srotas* corresponds to that of the *Dhatu* being transported through them.

Size: *Srotas* can be classified as *Anu* (microscopic) or *Sthula* (macroscopic).

Shape: They can have various shapes, including *Vritta* (cylindrical), *Dirgha* (long), and

Pratana (reticulated).

Types: As per *Sushruta*: *Bahya*-males-9, *Females*-12, *Abhyantara*-11 pairs As per *Charaka*: *Bahya*-9, Females-12, *Abhyantara*-13 functions of *Srotas*:

- 1. Development Interconnection: No bodily structure can grow or deteriorate without the involvement of *Srotas*, which facilitate the transport of *Dhatus*.
- 2. Health Foundation: The proper functioning of *Srotas* is essential for overall health and disease management.

- 3. Waste Management: *Srotas* play a key role in transporting both nourishing *Dhatu* and waste products (*Mala Dhatu*), ensuring efficient material exchange.
- 4. Essential for Well-being: Healthy Srotas are crucial for the body's normal functioning and the sustenance of Sthayi Dhatu.
- 5. Targeted Nutrient Supply: Each Srotas delivers nutrients specifically to its related Dhatu in appropriate quantities.
- 6. Specific Functions: Srotas have distinct roles in the body, serving purposes beyond being simple channels.
- 7. Dosha Regulation: Srotas contribute to the aggravation (Prakopa) or reduction (Shamana) of Dosha by managing their transport.
- 8. Crucial Interdependence: All Dosha, Dhatu, and Mala depend on Srotas for their formation, movement, and breakdown.
- 9. Metabolic Influence: They play a significant role in regulating the metabolic state of tissues through various pathways.
- 10. Internal Transport Mechanism: Srotas act as the body's internal transport system for critical substances, including Dosha, Dhatu, Oja, Agni,thoughts, and emotions.

Role Of Srotadusti In Disease Manifestation:

The *Doshas* (vitiated humors) become *Prakupita* (aggravated or disturbed), leaving their natural sites and moving through the *Srotas* (channels), which leads to imbalances. The aggravated *Doshas* disturb the Dhatus (tissues) present in both their own *Sthana* (normal sites) and other *Marga* (pathways, i.e. *Srotas*). The *Srotas* become conduits through which these *Doshas* spread their vitiating effects, affecting *Dhatus* located in various parts of the body. The vitiated

Dhatus further vitiate the *Srotas* themselves. This that the channels, responsible for means transportation and nourishment of *Dhatus*, become dysfunctional leading to Srotadusti. Sroatadusti of one Srotas leads to Dusti of others means multiple Srotas are involved in the pathological process, not just one. Each Srotas may suffer from conditions like Atipravrutti (excess flow), Sanga (obstruction), or Vimargagamana (misdirection), depending on the nature of the *Dosha* disturbance. The vitiated *Dhatus* (tissues) continue to damage other *Dhatus* through the Srotas, creating a cycle of imbalance. Since each *Dhatu* depends on the proper functioning of its respective Srotas for nourishment, any disturbance leads to systemic dysfunction and diseases. The *Dushta Doshas* (vitiated Doshas) the are primary Dushavitaras(corruptors) of all these channels and tissues8. The Doshas, when vitiated, infiltrate the Srotas and obstruct the natural flow, disturbing the functioning of the body's system. The vitiated *Doshas* primarily disturb the Agni (digestive fire) within the Srotas, leading to further Srotodushti (vitiation of the channels) and impaired digestion and metabolism. Therefore, when the Srotas and Agni are functioning properly and the *Doshas* are balanced, one attains *Ayus* (longevity) and Arogya (health). When the Srotas are blocked or disturbed, it leads to disease and dysfunction.

Nidan sevana: Ahara (diet) and Vihara (regimen) that has the qualities similar to the Dosha and Karana that are responsible for the abnormality of Dhatus are considered to be Samanya Sroto Dushti Karana^[10]. In other words, the attributes of diet and lifestyles can impact the equilibrium of the Doshas and lead to in body's tissues. For example, the consumption of curd ,milk , Madhura (sweet) substances, black grams are

responsible for the vitiation of Kapha Dosha as they possess qualities similar to Kapha Dosha like Guru, Madhura, Snigdha Guna. Kapha Dosha and Mamsa Dhatu will be aggravated if a person is going to sleep immediately after eating. The factors which cause Dosha and Dhatu Prakopana (Aggravation) also causes vitiation of Srotas. By recognizing the Nidan (causes) of Srotadusti, practitioners can identify diseases in their early stages. This allows for timely intervention and prevents the progression of the disorder.

Kha-Vaigunya:

The term Kha-Vaigunya in Ayurveda refers to the deficiency or impairment within the Srotas that arises from specific *Nidan Sevana*. This impairment represents a decline in the natural state of the *Srotas* (*Prakriti*), which is crucial for the process of *Samsraya* (the accumulation or consolidation) of the *Doshas*. In simpler terms, the normal function of the Srotas get impaired. This condition is necessary for the *Doshas* Vata, Pitta, and Kapha to settle or accumulate in the Srotas. When the aggravated Doshas (Vata, Pitta, Kapha) circulate in the body, the site of their accumulation due to Kha- vaigunya (Deficiency in the cannels) becomes the location forthe accumulation of Doshas and manifestation of Vyadhi (disease)[11]. This can be correlated with 4th stage of Shadkriyakala i.e Sthanasamshrayavastha.

Dosha-dushya samurcchana and vyadhi Utpatti:

During the *Sthana Samshrayavastha* (accumulation phase), the initially aggravated *Doshas* come into contact with the *Dushyas* (tissues), leading to the contamination of the *Dhatus* (tissues of the body). This crucial interaction, known as *Dosha-Dushya Samurchhana*, plays a significant role in triggering specific signs and symptoms, collectively referred to as

Purvarupa' (initial manifestations) of the disease. The process of Dosha-Dushya Samurchhana forms the foundation for the manifestation of any disease.

Samanya Srotadusti Lakshana:

04 type of *Srotodusti* are there:

- Atipravritti (Increased Activity)
- Sang (Obstruction)
- * Siragranthi (Reduction of the lumen of the system)
- Vimarga Gamana (Opposite Direction Flow)
- 1. Atipravritti -Atipravritti as Atishayena pravritti. It refers to the excessive secretion or flow of *Dhatus* in the *Srotas*. When the vitiated *Doshas* cause an abnormal increase in the flow it leads to various diseases.

Examples^[12]:

- Pranvaha Srotas- Ati / Abhikshanna Shwasan (Tachypnoea) e.g. Tamak Shwas (asthma)
- Udakvaha Srotas-Ati Pravruddha Pipasa (Polydipsia) e.g. Prameha (diabetes)
- Annavaha Srotas-Ati Bhojan (Polyphasia)
 e.g. diabetes & bulimia Ati Vaman (Excessive Vomiting)
 e.g. Visuchika and Cholera and Gastroenteritis
- Purishavaha Srotas -Ati (Bahu) Malapravrutti
 (Increased stool frequency) e.g. Atisara
 (diarrhea) and Pravahika (dysentry)
- Mutravaha Srotas-Ati/Abhikshanna
 Mutrapravrutti (Polyuria)e.g. Prameha
 (diabetes)
- Swedavaha Srotas- Ati Swedapravrutti (Diaphoresis)e.g. Kushtha (skin disorders)
- Rasavaha Srotas-Ati sroto Upalepan (Blood vessel luminal coating)e.g. atherosclerosis.

- Raktavaha Srotas: Ati Raktapravrutti
 e.g. Raktapitta (Coagulopathy), Asrukdar
 (menorrhagia)
- Mansavaha Srotas-Ati Mansa Vruddhi e.g. Arbuda (Tumour)
- Medovaha Srotas-Sphik, Stana, Udar Ativruddhi (Enlargement of buttocks, breast abdomen) e.g.Sthaulya (Obesity)
- Asthivaha Srotas-Adhi asthi (Overgrowth of bones), Adhi danta (extra tooth)
- Majjavaha Srotas -Ati Netra Gaurav
 (Ophthalmic Heaviness)
- Shukravaha Srotas-Ati Strikamata (Excessive sexual desire).
- Ati Shukra Pravrutti (Excessive seminal discharge)
- Aartavvaha Srotas-Ati Aartav Pravrutti (excessive menstruation)
- Similarly, Atipravrutti of *Doshas* could also be noticed like in the form of:
- Vata Ati Pravrutti-e.g. Akshep, Gatra Sphuran etc Pitta Ati Pravrutti-e.g. Pittaj Pandu, Amlapitta Kapha Ati Pravrutti -e.g. Sthaulya and Prameha
- **2.Sanga** It refers to the stasis of the *Dhatus*. Due to this either there is absence of natural flow or intermittent (*Stokam Stokam*) flow. When the vitiated *Doshas* cause obstruction in the *Srotas* the normal function of *Srotas* i.e *Sravanam*(flow) get hampered. This is usually reflected in the *Dhatus* which are flowing causing many diseases.

 For e.g [12] -
 - Pranvaha Srotas-Ati Baddha Shwasan (Obstructed breathing) e.g. Lung consolidation, Lung tumour Chhinashwasa.

- Annavaha Srotas-Bhojan Sanga (Stasis of food) e.g. Duodenal stricture secondary to peptic ulceration
- Purishavaha Srotas -Purishsanga (Stasis of stool) e.g. Malavshtambha
 (Constipation), Upadravaj Malabaddhata
 (Diabetic Gastroparesis), Baddhagudodara
 (Intestinal obstruction)
- Mutravaha Srotas -Mutrasanga (urinary stasis)e.g. <u>Asthila</u> (Prostatic enlargement),
 Ashmari (Calculus), Niruddhprakash (urethral stricture)
- Swedavaha Srotas-Swedavrodha (lack of sweating) e.g. Jwara (fever)
- Rasavaha Srotas -1. Hrudaye Rasa Sanga
 (Heart congestion) e.g. Congestive Cardiac
 Failure,2.Ati stroto Upalepanat
 strotoavrodhat raswahinishu rasa sanga e.g.
 Atherosclerosis/Coronary Artery Disease
- Raktavaha Srotas-1. Yakrute Rakta Sanga
 (Hepatic Congestion) 2. Yakrute Pitta Sanga
 (Hepatic Cholestasis) e.g. Hepatocellular
 jaundice, Extrahepatic obstruction
- Shukravaha Srotas-Shukra Avisarga e.g.
 Shukrashmari (spermolith) Aartavvaha
 Srotas-Aartav Sanga

Similarly, Sanga of Doshas could be noticed due to obstruction to their flow like:

- Vata sanga- Vak sanga
- Pitta sanga- Pittashmari
- Kapha sanga -Kasa, Tamak shwasa

3.Sira-granthi-It refers to the cystic formation in various channels or to a condition where nodules or lumps are formed within the *Srotas* due to vitiation of *Doshas* and *Dushyas* circulating in the *Srotas*. These causes the obstruction in the normal flow or function of the *Srotas* causing diseases.

For e.g Raktaj Siragranthi Medoj Siragranthi Granthi Arsha Arbuda

- **4.Vimarga-gamanam-**Vimargagamana refers to the flow of *Dosha* and *Dushyas* in different pathways other than their natural pathways. It refers to the reversal of the normal flow due to the obstruction in the *Srotas* causing different pathologies. For e.g
 - Pranvaha Srotas-1. Urdhwa Shwase
 Urdhwa Shwasanam (Stertorus breathing)
 Pransya Vilomatvam in Shwas Vyadhi
 (Breathlessness)e.g. Lung consolidation,
 Lung tumour, Lung congestion
 - Annavaha Srotas-1. Urdhwag Amlapitta
 (Acid reflux)e.g. Gastro esophageal Reflux
 Disease (GERD)2. Reversal of portal flow
 to cause spleenomegaly e.g. Cirrhosis of liver
 - Purisavaha Srotas -Fecal Material
 Vomiting e.g. Purishsaj Udawarta
 Baddhgudodara (Intestinal obstruction)
 - Mutravaha Srotas-Reversal of urinary flow causing hydronephrosis.e.g. Asthila
 (Prostatic enlargement), Ashmari
 (Calculus), Niruddhaprakash (urethral stricture)
 - Rasavaha Srotas -Reversal of blood flow in heart failure to cause lung congestion e.g.
 Congestive Cardiac Failure.

• Raktavaha Srotas -Diffusion of bilirubin into blood causing hyperbilirubinemia.

e.g. Intra or extra hepatic Obstructive Jaundice

Similarly, *Vimargagamana* of *Doshas* could be noticed due to obstruction to their flow like:

Vata Vimargagamana - Udavarta Pitta Vimargagamana-Amlapitta

Kapha Vimargagmana - Kaphaj Shotha

Role of Mulasthana of Srotas:

Mulasthana as Prabhava Sthana means that is the anatomical seat of the *Srotas* serves as the primary site for the pathology of each *Srotas*. It is crucial in understanding the disease process, as the is Mulasthana intimately connected with metabolism and the origin of pathological changes. Srotas may disturb the functions of Srotomula in due course of time sooner or later depending upon the virulence of *Srotodushti* Karana and duration of contact with Dushti Karana. For example, if the person is presenting with the symptoms of cough and breathlessness, we can assume the involvement of Pranavaha Srotas. Indirectly, this implies that there may be a possibility of involvement of Hridaya or Mahasrotas in due course of time as these are Srotomula of Pranavaha Srotas.

Srotaviddha Lakshana:

Viddha means being pierced, disturbed or injured. Hence Srotaviddha means injury to the Srotas. Acharya Sushrut mentioned Srota viddha lakshana for specific Srotas. Acharya Vagbhatta^[13] has mentioned the Samanya Srota Viddha lakhshana that are Bhrama (giddiness), Moha (altered state of consciousness), Kampa (involuntary movements), Pralapa (irrelevant speech), Adhmana (distension

of the abdomen), Shula (pricking type of pain), Aruchi (tastelessness), Trit (thirst), Chardi (vomiting), Jwara (fever), Atirudhira Sruti (excess bleeding from the injured region), Mutra Purisha Rodha (obstruction of passage of urine and stools) and Marana (death). In case of Srotaviddhha condition the Vaidya has to treat the patient by informing the poor prognosis of the situation and treatment should be similar to Sadyo Vrana (acute wound) after removing the foreign body.

Discussion:

In Ayurveda, Srotas are the vital channels responsible for the transportation and regulation of Dhatus, Doshas, and Malas. They play a crucial role in maintaining the equilibrium of the body, as no bodily function occurs independently of the Srotas. The proper functioning of the *Srotas* ensures the smooth flow of nutrients, waste products, and other essential substances. Disruption in the flow, known as *Srotodusti*, is a fundamental cause of disease, highlighting the importance of their health for the balance of Vata, Pitta, and Kapha Doshas. When Doshas become Prakupita (aggravated) and leave their normal locations, they enter the *Srotas*, causing vitiation and disturbance to the *Dhatus* and other *Marga* (pathways). This leads to Srotodusti, which can manifest in various forms such as Atipravritti (excessive flow), Sanga (blockage), Siragranthi (nodule formation), and (misdirected flow). The Vimarga Gamana interaction between the vitiated Doshas and vulnerable Dhatus is termed Dosha-Dushva Samurchhana, leading to the development of Vyadhi (disease). The concept of Kha-Vaigunya (deficiency or impairment in the *Srotas*) plays a pivotal role in disease manifestation. When there is a

weakness in the *Srotas*, aggravated Doshas accumulate in these weakened areas, causing Sthana Samshraya (settling of Doshas) and setting the stage for Vyadhi Utpatti (disease onset). The progression of disease through these stages underscores the importance of identifying Nidana (causes) early to prevent Dosha Prakopa (aggravation) and further *Srotodusti*. In one disease condition Dusti (vitiation) of multiple Srotas may get involved. For example in respiratory disorders like Shwasa, Pranavaha, Udakavaha, and Annavaha Srotadusti cause the disease. In other hand in a disease multiple Srotadusti types can coexist, like in Tamak Shwasa (Asthma), Sanga blocks the airways, Atipravritti increases mucus production, Vimargagamana causes Kapha to enter improper pathways and Siragranthi leads to airway thickening or constriction. Furthermore, Mulasthana (primary site) of each Srotas is critical in understanding the *Samprapti* (pathogenesis) of diseases. The disturbance in the Mulasthana can indicate the involvement of specific organs and systems, guiding the treatment strategy. For instance, in Pranavaha Srotas, symptoms such as Shwasa (breathlessness) and Kasa (cough) suggest the involvement of the Hridaya (heart) or Mahasrotas (gastrointestinal tract). Therefore, treatment in Ayurveda focuses on addressing both the specific Srotas and the underlying Srotomula, ensuring a holistic approach to restoring balance and health. In one disease condition Dusti (vitiation) of multiple *Srotas* may get involved.

Conclusion:

In Ayurvedic understanding, the health of the Srotas is fundamental to the proper functioning of the body. The vitiation of *Srotas*, known as Srotodusti, is a key factor in the manifestation of Roga (disease). The complex interactions between Doshas, Dhatus, and Srotas, especially during Dosha-Dushya Samurchhana, form the basis for disease development. Early identification Srotodusti and Kha-Vaigunya allows for timely interventions to prevent disease progression.By addressing the root causes and restoring the natural flow within the *Srotas*, Ayurvedic treatment seeks to balance the *Doshas*, maintain healthy *Agni* (digestive fire), and ensure the proper nourishment of *Dhatus*, ultimately leading to *Ayus* (longevity) and Arogya (health). The emphasis on treating both the channels and their anatomical seats ensures a comprehensive approach to wellness and disease prevention in Ayurveda.

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