WHERE CLASSICAL WISDOM MEETS INTELLIGENT LEARNING

vii. Definition, types and numbers of srotas, dhamanī, śirā and nāḍī

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Srotas (Channels or Pathways)

Definition and Etymology

- **Srotas** comes from the root "√sru," meaning "to flow."
- They are body channels or pathways through which dhātus (tissues), doṣas, malas (waste products), and nutrients circulate or move.
- Srotas exist at both **macro** levels (e.g., the alimentary canal, blood vessels) and **micro** levels (subtle channels at a cellular or energetic scale).

Key Characteristics

- 1. **Flow of Substances**: Each srotas is specialized for transporting specific substances (e.g., nutrients, waste, vital energy).
- Regulated by Doşas: Proper flow depends on balanced Vāta (movement), Pitta (transformation), and Kapha (stability/lubrication).
- 3. **Sroto-dushti (Channel Dysfunction)**: Channels can become blocked (sanga), dilated (atimārga), constricted (saṅkoca), or lost (vimārga gamana), leading to disease.

Types and Number of Srotas

- Caraka Samhitā often enumerates 13 or 14 principal srotas based on the substances they carry:
 - 1. Prāṇavaha (respiratory/energy)
 - 2. Udakavaha (water/fluid)
 - 3. Annavaha (food/digestion)
 - 4. Rasavaha (rasa/plasma)
 - 5. Raktavaha (rakta/blood)
 - 6. Māmsavaha (muscle tissue)
 - 7. Medovaha (fat/adipose)
 - 8. Asthivaha (bone)
 - 9. Majjāvaha (marrow and nerve tissue)
 - 10. Śukravaha (reproductive tissue)
 - 11. Purīṣavaha (feces)
 - 12. Mūtravaha (urine)
 - 13. Svedavaha (sweat)
 - 14. (Stanyavaha for breast milk and Ārtavavaha for menstrual flow are added, especially in women.)
- Suśruta suggests that srotas are extremely **numerous** (countless micro-channels), but he also highlights **specific** major srotas similarly.

Clinical Note: Understanding and maintaining healthy srotas is crucial for **preventing āma (toxicity)** accumulation and ensuring balanced physiology.

Dhamanī (Arterial Vessels)

Definition

- Dhamani refers to vessels that pulsate (the term often correlates with "arteries" in modern anatomy).
- Derived from "√dham," meaning "to blow, expand, or pulsate," indicating active circulation.

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Number and Types

- Suśruta Saṃhitā (Śārīra Sthāna) mentions 24 principal dhamanīs originating from the region of the heart (or central trunk), which then branch into numerous subdivisions.
 - 10 move **upwards** (urdhva),
 - 10 move downwards (adho),
 - 4 run transversely (tiryak).
- Each primary dhamanī further divides into many smaller channels, distributing oxygenated blood, nutrients, or heat throughout the body.

Functional Role

- Transportation of Vital Nutrients: Dhamanīs carry essential nutrients, often correlated with oxygenated blood or energetic substances.
- Thermoregulation: They help in heat distribution.
- Pulsation: By checking the pulse (nāḍī-parīkṣā in the wrist region), Vaidyas (Ayurvedic physicians) assess the state of doṣas and systemic health.

Śirā (Venous Vessels)

Definition

- Śirā are vessels that typically do not pulsate (often compared to "veins" in modern terminology).
- "Śirā" literally connotes "channel or conduit," frequently carrying **blood back** toward the heart or transporting other bodily fluids.

Number and Classification

- **Suśruta** enumerates **700 śirās** in the body. This count includes **all major and minor branches** (much larger than the modern recognized count of "major veins" because Ayurveda counts finer subdivisions).
- Some texts further classify śirās by their **direction** or by the **regions** they serve (e.g., upper limbs, lower limbs, trunk, head).

Function and Clinical Significance

- Return Flow: Śirās facilitate the return of deoxygenated blood and waste-laden fluids from tissues.
- **Bloodletting (Raktamokṣa)**: In Ayurvedic therapy, certain śirās are targeted for **therapeutic bloodletting** to relieve specific doṣic imbalances (especially Pitta-rakta disorders).
- **Assessment**: Distension, discoloration, or varicosity in śirās can indicate underlying pathology (e.g., varicose veins, edema).

Nādī (Tubes/Channels, Sometimes Nerve Pathways)

Definition

- **Nāḍī** is a general term for **"tubular structures"** in the body. In some contexts, it correlates with **nerves** or subtle energetic channels (as in Yoga philosophy).
- Etymologically derived from "nāḍ," implying a **hollow conduit** through which **bio-impulses** or **prāṇa** (**life force**) circulate.

Types and Interpretations

- Ayurveda uses nāḍī in multiple ways:
 - 1. Gross Tubes or Ducts: E.g., bile duct, lactiferous ducts, lymphatic channels, or other small passages.
 - Subtle Energy Channels: In Yoga and Tantra, references to ida, pingala, suşumna as "nadis" carrying prana.

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3. Nervous Pathways: A practical approximation to nerve fibers in modern anatomy.

Number

- Some Ayurvedic texts mention **countless** nāḍīs branching out from certain vital centers (like the heart or umbilical region). Others specify figures like "72,000 nāḍīs" in Yogic tradition, signifying an **extensive subtle network**.
- Suśruta might list specific major nāḍīs (the exact enumerations can vary widely across different classical sources).

Clinical Significance

- Nāḍī-parīkṣā (Pulse Examination): "Nāḍī" also refers to the radial pulse reading, a fundamental diagnostic method in Ayurveda.
- **Subtle Body Work**: Practices like **prāṇāyāma**, meditation, and marma therapy aim to **unblock** or **balance** nāḍīs for optimal energetic flow.
- Nervous System Disorders: In a practical sense, nerve-related issues may be considered disturbances in nādī.

Interrelationship and Summary

- 1. **Srotas**: The overarching concept of **channels** for different body functions (respiration, digestion, excretion, tissue nourishment).
- 2. Dhamani: Pulsating vessels akin to arteries, carrying blood and nutrients outward from the heart.
- 3. Śirā: Non-pulsatile vessels akin to veins, returning blood or other fluids to the heart or central region.
- 4. Nāḍī: Tubular structures possibly referring to nerve pathways, fine ducts, or subtle energy channels.

Each system works in **concert** to maintain **circulation** (both gross physical and subtle energetic), ensure **nutrition**, remove **waste**, and facilitate **communication** within the body. Understanding their **definitions**, **numbers**, **and types** is crucial for:

- Diagnosis (e.g., localizing blockages in srotas, identifying vascular disorders, or nerve pathologies).
- Therapeutics (e.g., using specific treatments like bloodletting in certain śirās, or herbal formulas to clear srotodushti).
- Preventive care (e.g., lifestyle and dietary measures to keep channels unobstructed and balanced).

In essence, Ayurveda's sophisticated classification of **channels and vessels** underscores its holistic approach to **physiology**, connecting structure, function, and energetics to promote **comprehensive health**.

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