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CONCEPT OF TRIMARMA IN AYURVEDA AND IT'S IMPORTANCE

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Abstract: The science of *Marma* (vital point), i.e., *Marma Vijyaniyam* is an extraordinary and dynamic part mentioned in classical texts of Ayurveda that has a tremendous value while performing surgery. According to Ayurveda, knowledge of the position of *Marma* and *Marmabhighata* (injuries to vital points) symptoms is essential before performing any surgical treatment. Here in this article an attempt is made to highlight the importance of *Trimarma* in *Ayurveda*.

Keywords: Marma, Trimarma, Hridaya, Basti And Shira

Introduction: *Marmas* are certain vital points spread all over the surface of the human body. These are the places where the *Prana* (life force) is said to be situated. *Marima*, definitions of *Marmas*, types of Marmas, symptoms produced after injuries to these *Marmas*, are described by nearly all Ayurvedic texts, especially in "*Trimarmiya Siddhi*,""*Trimarmiya Chikitsa*," chapters in Charaka Samhita, "*Marma Vibhaga*" chapter in *Ashtanga Sangraha*, and "*Shariravichaya Sharir*" chapter in *Kashyapa Samhita*. *Marma* has been classified based on regions, along with their specific effects on both body and mind. When manipulated, *Marmas* can alter both the organic functions and structural conditions of the body. Little injuries to these *Marma* points or anatomical areas can be fatal comparing with major injuries at anywhere else in the body, so detailed knowledge of these *Marma* points is crucial for a physician. In Ayurveda, a 107-point *Marma* system was developed by an ancient Indian surgeon *Acharya Sushruta* for

helping a surgeon to safely operate on the human body. In the ancient era, even after the best treatment available at that time, some sort of disability is sure to remain at end of the therapy. An attempt has been made to compile, critically analyse the fundamental concept of *Trimarma* on the basis of its derivation, scientific and literary review available in our classics with objective of its importance.

Etymology of *Marma*: The word *Marma* has its origin from Sanskrit root "*Mring Marma*" means causing death. . In brief *Marma* indicates that the vital points which can give rise to death¹.

Structure and composition of Marma: Marma contain Soma(Kapha),Marut(Vata), Teja(Pitta),Sattva,Rajas, Tamas, and Bhuta Atma. Hence,a person, on injury to the Marma may not be alive². Charaka explained that Marma are such points where the sense of pain is felt more intensively compared to other parts of the body,because Marma are closely related to Chetna Dhatu³. Acharya Charaka has given importance to Vasti, Hridaya and Murdha among all the Marmas⁴. Marma of the trunk are more vital than the Marma of the extremities, as the extremities are connected to and depend on the trunk. Even among the Marma of the trunk Hridaya, Vasti and Shiras are more important⁵. Hence Acharya Charaka has given importance to these three Marma among 107 Marma because Prana are situated in these three Marma. Hence the Dosha affecting these places also affect the Prana. Thus, a person should always protect these three parts carefully⁶. DASHA PRANAYATANA (Jivita Dhama): Prana-ayatana means the residing place for the Prana. There are ten such places in the body where Prana reside. they are-Shanka, Marma Traya (Hridaya, Vasti, Shiras), Kantha, Rakta, Shukra, Ojas and Guda⁷. This shows the importance of Trimarma as explained by Acharya Charaka.

HRIDAYA IN AYURVEDA:

Derivation of term *Hṛidaya Hṛidaya* is derived from three words: *Hṛ*: *Haraṇa* means collection of *Rasa Rakta* from the body. *Da*: *dana* means distribution or supply of *Rasa Rakta* to all the *Dhatu* of the body. Iṇ (ya): *ayana* means expansion and contraction movements. Thus, the term *Hṛidaya* means structure that collects rasa rakta from the body, supply it to all the dhatu of the body and conduct expansion and contraction movements. It is a divine centre of *Chetna* as per *Acharya Sushruta*⁸. It is one among *Dash Pranayatana* as *Acharya Charaka*⁹.

Embryological development of Hridaya: It is originated from the essence of Shonita and $Kapha^{10}$

Anatomical position: Below and to the left side of *Hridaya*, *Pleeha* and *Phupphusa* are present and to the right side *Yakrit* and *Kloma* are present 11. *Hridaya* is located between the breasts in thorax 12. The *Moola* of *Pranavaha* and *Rasavahasrotas* are *Hridaya* 13. *Acharaya Charaka* has included *Hridaya* one among 15 Koshtangas which means that it is the organ that is close to the *Kostha* (alimentary canal) 14. In *Trimarmeeya Adhyaaya, Charaka* has described three *Marma* viz. *Hridaya Shira and Vasti* 15. Here *Shira* is already mentioned so by *Hridaya* it is considered as heart. *Acharya Vagbhatt* has considered *Hridaya* as

Moola of Siras¹⁶. Charaka has considered it as centre of Ojah. Acharya Charaka has considered it as Dashamahamoola¹⁷. It is a structure which resembles a Puṇḍarikeṇa, Kamalamukulakaraṃ (lotus) in inverted position. When body is in active phase it expands and contracts in inactive phase¹⁸. It is site of Satvadi Guṇa, placed in between two breasts in the thoracic region near the opening of stomach¹⁹. It is site of Chetana, Mana, B uddhi, Indriya, Pradhana ojas²⁰. Sadhaka pitta, Vyana Vayu, Avalambaka Kapha resides in Hridaya²¹. It is the seat for ten principle Dhamanis, Praṇa, Apana, Manas, Buddhi, Chetana and Mahabhutas, like the spokes are attached at the centre of the wheel. Hence, Hṛidaya is the centre for all of them²². It is site of Ojas²³, it is attached with 10 vessels which conduct Ojas. It is called Mahamula or Mahaphala. 6. In the context of circulation of Rasa, 24 Dhamani are getting into the Hridaya. In the context of Dhamani Sharir, 10 Urdhvavahi Dhamani is getting reach to the Hridaya and further they gets divide into 30 Urdhvavahi Dhamani²⁴. It is considered as Raktashaya, present in Uraḥ region²⁵.

FEATURES OF HRIDAYABHIGATA: Injury of *Hridya* results in *Kasa* (cough), *Shwasa* (respiratiory problems), *Balakshaya* (weakness) *Kanthashosha* (weakness of throat) *Kloma Karsha* (emaciation of kloma), *Jihwanirgama* (protruded tongue) Mukha Talu Shosha (emaciation of face and palate) Chittasha (unconsciousness).

Importance of Hridaya: As Hridaya is the seat for the ten principle Dhamani, Prana, Apana, Manas, Buddhi, Chetana and Mahabhuta, like the spokes are attached at the centre of the wheel. Hence Hridaya is the centre of all of them.

Shiras in Ayurveda: The term Shiras is derived from the root Sru with Asun Dhatu which is meant in the following subjects: Acharya Charaka in Sutra Sthana was the first to frame the definition of Shiras where he quotes Shiras is a structure or place situated at top in the body and there in resides the Prana – soul of the livings with all the senses. So it is the best of all the organs 26. This definition of Shiras promotes us to believe Shiras as Brain. Though Shiras is counted within the Trimarmas Achraya Sushruta has not shown any Marma like Shiras differently. It means none of our classics have designated any separate anatomical position to Shiras as a Marma. Though there is no any Marma pointed out in our text as Shirasbut it is a group of Marma that forms the Shiras Marma. There are 37 Urdhvajatrugata Marma – Marma above the clavicle that are designated as Shiras Marma. Out of these 37 marmas, 17 Marmas are Sadyahpranahara.

The following underlines the names and types of Marma included in Shirogata Marma by Acharya Sushruta²⁷

- (1) Adhipati 1 Sandhi-Marma Sadyahpranahara
- (2) Apanga 2 Sira-Marma Vaikalyakara
- (3) Avarta 2 Sandhi-Marma Vaikalyakara
- (4) Phaṇa 2 Sira-Marma Vaikalyakara
- (5) Sthapani 1 Sira-Marma Sadyaḥpraṇahara
- (6) Shankha 2 Asthi-Marma Sadyaḥpraṇahara
- (7) Shrungaṭaka 4 Sira- Marma Sadyaḥpraṇahara
- (8) Sīmanta 5 Sandhi-Marma Kalantarapranahara
- (9) Utkṣepa 2 Snayu- Marma Vishalyaghana
- (10) Vidhura 2 Snayu-Sira- Ma<mark>rma Va</mark>ikalya<mark>kara</mark>

Kumarashira Bharadvaja emphasized that head of the fetus develops first, because it is the site of all the important Indriyas²⁸. Vagbhata has described ten "Jivita Dhatu²⁹in which Shiras(head), Hridaya (heart), Basti (urinary bladder) are included. Shira upholds the Indriyas, Indriyavaha and Pranavaha Srotas, as the sun rays are the parts of sun.

FEATURES OF SHIROABHGHATA: Injury of the Shiras results into Manyasthambha (rigidity of the neck), Ardita (facial paralysis) Cakshu vibhrama (giddiness) Tamas (darkness before eyes), Udweshtana (squeezing pain) Cheshta nash (loss of motore functions) Kasa (cough) Shawasa (respiratory difficulty) Hanugraha (of the jaw), Muka (dumb) Gadgada (stammering), Akhgshi Nimeelana (ptosis), Ganda Spandan (vibration of the cheek), Jrimbhana (yawning) Lalasrava (salivation), Swrahani (loss of voice) and diseases of face and tongue.

Importance of *Shiras*: *Shiras* upholds the *Indriya*, *Indriyavaha* and *Pranavaha Srotas*, as the sun rays are the parts of the sun³⁰. The Shiras is known as the *Uttamanga*, as all the *Indriya* and *Prana* are seated in it. Hence, *Shiras* should be protected always with all efforts³¹.

Vasti in Ayurveda:

Etymology: The word *Vasti* has been derived from the root "*Vas*" after adding the suffix "*Tich*" *pratyaya*. According to *Vacaspatyam* meanings of the root 'vas'³² Vasu Nivase- Means to reside, to stay and to dwell. Vas Acchadane- Means to cover / to coat Vas Snehacchadana Praharanesu- Coating or covering of sneha for the elimination The *Basti* is a hollow structure made by the *Vayu* entering in the combination of essence of Rakta and Kapha with the help of pitta. Acharya Sushruta speaks that the hollow shape is formed when the essence part of the above three is inflated by the repeated action of Vayu³³ Basti is derived from Matruja Bhava- the maternal constituents³⁴ Location: Basti has been included under the Kosthanga by all the Acharyas³⁵. Basti is surrounded by Nabhi, Pristha, Kati, Mushka, Guda, Vankshana and Shepha³⁶.Basti is surrounded by Sthulaguda (Rectum), Muşka (Scrotum), Sevani (Scrotal ligament), Shukravaha nadi (Seminal ducts) and Mutravaha nadi(Ureters)37 According to Vagbhata, the Sthana of Basti is in Kati Pradesha. Acharya Vagbhata too described the seat of basti in the pelvic cavity³⁸. Acharya Sushruta also places *Basti* in pelvic cavity in the chapter of *Marma*³⁹. Further in the chapter of *Ashmari Chikitsa* he states that in females the uterus is situated very near to the urinary bladder posterior position⁴⁰. Sushruta has mentioned Basti as one among the Pratyangas of the body; is Alabu shaped (shape of a gourd) and covered by Sira (veins) and Snayu (ligaments) from all sides. The organ is extremely thin in structure (Tanutvaka) i.e. thin walled. This organ is provided with a single aperture or opening and lies with its mouth downward. Further the inner relation between Basti and Basti Sira, Paurusa Granthi, Vrishana and Guda is also mentioned and it is situated in the pelvic cavity⁴¹. The size (*Pramana*) of *Basti Marma* is equal to the pit of one's own palm⁴². According to Vagbhata, the shape of Basti is Dhanurvakra i.e. crooked like a bow having a downward opening⁴³. Ashtanga Sangraha explains that Basti is composed of Rakta and Mamsa Dhatu and its opening is surrounded by Sushira Snayu⁴⁴. Dalhana says that Basti lacks Mamsa and *Medadhatu*⁴⁵

Importance of *Basti:Basti* is considered as *Mulasthana* of *Mutravaha Srotas*. *Acharya Sushruta* has explained *Basti* in relation with process of Urine formation to its storage⁴⁶. He quotes giving the importance of *Basti* as an organ where (The Soul) resides. *Acharya Charaka* also quotes the importance of *Basti* as a *Trimarma* saying that it means that the region named *Basti* is in the middle of *Sthula Guda*, *Muṣḥka*, *Sevani* the *naḍi*(channels) transporting *Mutra* and *Shukra*. It acts as the Reservoir of *Mutra*. As different rivers fill the ocean in similar fashion all the *Ambuvaha Srotas* (channels) transporting water fill the *Basti*⁴⁷. Similarly in *Aṣhtanaga Sangraha Acharya Vagbhaṭa* during the description of surgical treatment of *Mutra Ashmari* quotes that an ill practiced surgeon would result into death of the patient undergoing the surgery by injuring the *Mutravaha Srotas* – *Basti*⁴⁸.

FEATURES OF VASTIABHIGHATA⁴⁹ :Injury of *Basti* results into obstruction of the flow of *Vata*(flatus), *Mutra*(urine), *Varchas*(faeces), pain in *Vankshana*(groin), *Mehana*(penis or pubic region),

Basti(bladder), Kundala(bladder abnormality), Gulma(abdominal tumor), Anila – Ashthila(vataja tumor), and many other diseases.

IMPORTANCE OF MARMANASHA: As the base is destroyed, the dependent is also destroyed. Likewise the destruction of any of the three *Marma* may destroy the *Prana*. Hence one should protect these three *Marma* from external as well as internal injuries⁵⁰.

Discussion: Understanding the Concept of Marma is tidious. Acharyas had very well knowledge of Marma Sharir i.e. detailed information regarding injuries and their prognosis on every vital part of body. The indepth understanding of the word Marma was evident in ancient time, but there were no adequate techniques to make out their original structural aspects involved in particular Marma Sthana. The knowledge of these points is on the basis of *Pratyakşa*, *Anumana* and their experiences. In *Trimarmiya* Chikitsa Adhyaya and Trimarmiya Siddhi Adhyaya, Charaka has given importance to these three Marmas: Shiras, Hridaya and Vasti. The Trimarmas are the main governing points of life. Beside Prana – the soul; Marma contain the Trigunas - Sattva, Raja, Tama, Soma, Maruta, Bhuta and Atma. They act as Sadyahpranahara Marma and so if injured leads to instantaneous death. External trauma on the Marma in turn creates disturbance in the homeostasis of body. Internal trauma caused by the vitiated Tridoşa generally affects Trimarma. Any disease afflicting to Pranayatana, complexity of disease and prognosis in Trimarma is more severe than others. For these reason, Trimarma highlighted than the others. Charaka said these Trimarma as root of life. Being a physician he has given importance to these Trimarma. Chakrapani explains nothing other than these Trimarma have capability of hosting body. Shiras is an organ or structure located at the topmost region of the body. Shiras is a very important structure or part of the body as it is location of brain and other important organs like senses etc. So, if injured or diseased can create an emergency or prove fatal. The Synonyms like *Uttamanga*, *Aditya* directly clarify its important as Marma. While the synonyms like Murdha glorify its action as a Marma. It is said as an organ, injury to which leads to fainting and giddiness. When Mastiska is used as its synonym it denotes brain and it is widely accepted as a vital spot of the body -Marma. Hence, it may be considered as skull with brain. Hridaya Marma is explained as Sadhyopranahara and is related Mula of Pranavaha and Rasavaha Srotas. Any trauma to heart leads to emergency and immediate death so it explains that heart is important place for Rasa Rakta Samvahana. It is a site of Chetana and tripod of life. Hence, it may be considered as heart. Vasti denotes an organ, which is a reservoir of urine as it is basically a receipted having soft and elastic nature. In the context of Marma Acharya Sushruta has explained Vasti as an organ comprising of little Mamsa and Shonita. It's situated inside the Kati region and as a reservoir of Mutra. The most vulnerable viscera injured during pelvic fracture is urinary bladder. Hence, it may be considered as urinary bladder.

Conclusion: Though classics have explained 107 *Marmas* in detail, *Charaka* has emphasized and given importance to only *Trimarma Hridaya*, *Shiras* and *Vasti*. They are *Sadhyopraṇahara* in nature as trauma results in immediate death of person. Just as *Soma*, *Surya* and *Anila* does *Visarga Kriyas* respectively for sustaining the external world, similarly *Kapha*, *Pitta* and *Vayu* does the same activity respectively for maintaining the body. Similarly *Hridaya*, *Vasti* and *Shiras* does the above activities respectively for sustaining life. In present scenario also, brain and heart are included in tripod of life. At the time of traumatic injuries and emergency, CPR is recommended for basic life support in which heart and brain are resuscitated. Brain death is the confirm sign of death. For these reason, *Trimarma* highlighted than the others. This article can be helpful for better understanding the concept of *Trimarma* in Ayurveda and its importance.

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