

ORIGINAL RESEARCH PAPER

Ayurveda

CONCEPTUAL STUDY OF KLOMAWITH REFERENCE TO MODERN PERSPECTIVE

KEY WORDS: Koshtanga, Phuphusa, Udakvaha strotas.

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BSTRACT

There are numerous points in Sharir darken and not explained till date. The ambiguity in some topics is due to their scattered and fewer descriptions. The Kloma which is one of the root of Udakvaha Srotas is additionally an indefinite organ. A difference of opinions is found in Ayurvedic content with respect to the Kloma. A few organs which are generally considered in context of Kloma are Pittashaya, Agnayashaya and Phuphusa. Numerous creators and research scholars take a shot at subjects identified with Kloma. Yet the ambiguity about Kloma isn't resolved. While studying writing related Kloma particularly through Sushruta Sharirsthan it was seen that till date there is no conclusive sentiment about Kloma. So to explain the anatomical area of Kloma and specify Kloma with body organ was the prime plan to start this review.

INTRODUCTION:

Ayurveda is a holistic medical science with its established theories and principles. The principles of Ayurveda are so strong that they do not change with respect to time. Ayurveda is a comprehensive system of health care of great antiquity based on experimental knowledge and grown with eternal additions.

Sushruta has rightly said that the proficient learner must clear all his doubt through learning theoretical and practical aspects of Rachana Sharir and should proceed for the treatment of patient so the study of Sharir is inevitable.

Srotasa is also one of the prime concepts described by ancient Acharya in their respective compendia. The Srotasa are well defined by Acharya Sushruta in Dhamanivyakaran Chapter of Sharirsthana while Acharya Charak has given Separate fifth chapter Srotovimana in Vimanasthana.²

Among Srotasa, Udakvaha Srotasa is said to be prime Srotasa in the body as per Sushruta and Charak. Its root source (Moolsthan) is Talu & Kloma. The role of Udakvaha Srotasa is to maintain body fluids. When it is interrupted by any internal or external trauma it leads to either Pipasa or death.

The root source Talu of Udakvaha Srotasa is well known and understood as palate everywhere but still there is ambiguity about Kloma. A difference of opinion is found in Ayurvedic texts regarding the Kloma. Some organs which are usually considered in context of Kloma are Pittashaya, Agnyashaya, Kanthanadi and Phuphphusa. Many authors and research scholars worked on topics related to Kloma but ambiguity about Kloma is not resolved.

MATERIALS & METHODS:

Ayurveda compendia like Charak, Sushruta, Vagbhatta and other relevant text book of Ayurveda with their commentaries. Articles from journal and relevant internet sites were availed.

Review of Literature:

In Adhyaya 19 and Rucha 85 of Yajurveda while offering the Varuna-Prarthana it has been stated that Ashiwini Kumar and Devi Saraswati formed the Swaroop of Indra. In that concern, Hriday and Satya are formed from Purodashena. Yakrit, Kloma, Vayavya (which is on both side of Hriday) and Pitta are formed from Varuna.⁵

Kloma is one among 36 parts of creatures which are relinquished in Yagya explained in Yajurveda.

While explaining the Yakshma-Nivarna in Athravaveda Kanda-9 and Sukta-8, it has been stated that "I remove the Visha of Kshya Roga which causes Shula in Udara, Kloma and which makes the Nabhi and Hriday as Dosha Yukta."

In Apstamba Shrauta Sutra Yakrita is said Kalakhanda and it is mentioned that Kloma is similar in its appearance as Yakrita and is Tila-Mamsa.

In Pashubandha Prakarna of Varaha Shrauta Sutra states that while performing animal sacrifice one should pour the clarified butter on the Kloma in the increasing manner which is offered to Dieties probably Varuna.⁸

In Pashubandha Prakarna of Bhardwaj Shrauta Sutra, animal sacrifies is being given, it has been said that one who is going to perform an animal sacrifies should subsequently put into the Pan/vessel the right buttock(Dakshina Shroni), the testis with penis, the Kloma and the spleen (Pleeha) and pour out clarified butter on them.

In Charak samhita Antar Vidradhi of Kloma shows: 10 Pipasathirst, Mukha Shosha- dryness of mouth, also For Udakavaha strotas, the origin is Talu and Kloma. The symptoms of its affection are dryness of tongue, palate, lips, throat and Kloma and excessive thirst. By observing these symptoms one should know that the Udakavaha Storats is affected. 11

Kloma is also described as Matrij Avaya and Also explained Kloma in Panchadasha Koshtangas. ¹² Kashyap has counted 13 Koshthangs In Ashtang-Hridaya the Koshtangas portrayed are Hridaya Kloma Phuphphusa, Yakrit. Pleeha. Unduker Vrukka. Nabhi, Dimba, Antra (Intestine) ¹³ and Basti. ¹⁴

According to Chakrapani, Kloma is seat of Thirst. Here, important organ like Phuphusa is not mentioned in Koshthangs. only. Yadnyavalkya Smriti and Bhela have said Avahanan in place of Pakwashaya. In such a condition some people say that in Charak Samhita Pakwashya should be read as Avahanan and Avahanan should be understood as Phuphusa. It is here only that, Gangadharji has considered Kloma as Phuphusa and Unduka¹².

Also Kloma is explained in Shhudra Hikka Prakarana, Trishna Roga- Karan and Samprapti, Jalodar- Karan and Samprapti and

in Trimarma.

Sushruta has given the organogenesis based on Dosha and Dhatu. While expressing about Hridaya he has cited the general life systems of it and furthermore investigated the close by Koshtanga. Hridaya is gotten from embodiment part of Kapha and Shonita The ten Nadis circling Prana (fundamental vitality) are related with it. On the lower and left part of Hridava, Pleeha and Phuphphusa are found comparably Yakrita and Kloma are arranged on its right side. This is an exceptional reference of energy. 15

According to Ayurvedic classics it is a site of *Antar vidradhi* and pathology like *Trushna*. The internal abscess formed in body are formed like *Gulma* (bump) and distended like ant colony in *Guda*, opening of bladder, umbilicus, *Kukshi*, inguinal area, kidney, liver, spleen, heart and *Kloma*. If internal abscess is located in *Kloma* it produces extreme thirst. ¹⁸

In the structural arrangement of Sandhi Sushruta has described eight types. Mandala Sandhi is one among these and related for the most part with joints of ligaments. Mandala sandhis are available in Kantha. Hridaya, Netra and Klomanadi. Sharangdhar while portraying Ashaya referenced "Tila". . Shleshmashaya (seat of Kapha)is in the Uras (chest) beneath it is Aamashaya. Above and to one side of the Nabhi (umbilicus) Is in the Agnyashaya. It is Tila and beneath this is Pawanashaya. The idea of Tila Agnyashaya made some disarray with respect to Kloma.

The commentator Aaddhamalla clears in such manner that Tila is framed from Shonita-Kitta and is available on right side close Yakrita which is otherwise called Kloma. Insufflations of Samanavayu in Rakta during digestion of Dehoshma change Rakta into black out shaded (than Rakta) organ which is known as Kloma. Arundatta in his commentary portrays organogenesis of Kloma.

DISCUSSION:

Kloma and Vedic period: Basically, the word Kloma identified from the era of Vedic period. The reference regarding Yakrita, Kloma and Pittasthana found in Vajasneya Samhita created by God Varuna.5 Even in Charaka Samhita, in Sharirsthana T chapter, fifteen Koshtanga explained and Kloma is one of them¹². But not a single reference found regarding Kloma in Sushrut Samhita and Sushruta Samhita is the first Vedik literature which given the Phuphuphusa one of the organs specified in the Koshtanga. However, it is impossible that the a very ancient context Charaka Samhita couldn't include the Phuphphusa in Koshtanga¹². Similarly, in the Eitareya Bramhana 36 disunion parts of animal sacrificed and among Koshtanga 'Kloma' is mentioned as a part of forfeited. So many references are to be found in the Vedik literature since Atharvaveda, Vajasneyi Samhita, Shatapatha Brahman, KatyayanaKshrouta-sutra, Gobhila sutra, Bruhadaranyaka and Upanishada. By the way of century's overhangs, the philological diversity changes the meaning of various things, as a result in this scenario Phuphphusa may be called as Kloma in that era.

Kloma as a Koshtanga: According to Acharya Charaka, Vagbhata, Kashyapa and Bhela; the Kloma is included Koshtanga i.e. one of component of Antaradhi (Trunk), organ situated in the body cavity. Among all Acharyas Charak, Bhel and Kashyapa, included Kloma in the category of Koshtanga 12,20, but on the other hand; Sushruta included 'Phuphphusa' as a Koshtanga.

As a part of surface anatomy, Shushruta stated relative position of Kloma, that is one of the structures which located below and left of Hridaya i.e. Pleeha, and to the left of the heart above (Vamataha i.e. by the left side of the heart) i.e. Phuphphusa (left lung). Thus, Sushruta has not consider right lung as a

Phuphphusa. While describing quote 'Hridayasya Dakshinato (Adho) Yakrita, Dakshinato (Upari) Kloma' means below the heart and right (alike Pleeha) i.e. Yakrita (liver) and to its right and above Kloma is situated. The commentary on Ashtanga Hridaya Chapter 12, Verse 3, also supportively given evidence to that Kloma is big mass made up of muscular tissue located to the right of the heart. 23

Similarly, in a commentary *Madhukoshon Madhavnidan* by *Shrikanthadatta*, stated the location of *Kloma* as it is in superior aspect of *Vrukka* (kidney), the relative anatomy observed that upper pole of kidney lies at the level of upper border of 12" thoracic vertebra and the lower border of each lung crosses 6 rib in the mid-clavicular line, the eighth rib in the midauxiliary line and posteriorly 2 cm lateral to 10" thoracic spine. Above the level of T11 vertebrae there is presence of diaphragm, pleural cavity and lungs. So it can be conclude that *Kloma* might be the organ present in thorax region.²⁴

Kloma & Marma: The damage to the Udakvaha Srotasa resulted in to Pipasa (this might be occurred due to imbalance of water fluid in the body) and Sadhyomarana might be the consequence of thirst which may be chronic feature or associated with serious pathology, complicated diseases with bad prognosis. Sadyapranhara Marma also reflects severe dehydration because of shock especially due to severe hemorrhage and fluid loss, when vital organ structure i.e. Mulsthana injured causes severe thirst and immediate death despite not included in Marma. Hence, Kloma may be close organ to the Marma point, where in Kaphasthan, Hridaya is one and only Sadyapranhara Marma situated and its nearby region Phuphphusa is located.

Kloma & Kapha: Vagbhata in $Ashtanga\ Hridaya$ has clearly mentioned Vagbhata' as a Vagbhatana Vagbhatana Vagbhatana Vagbhatanaorgans like Pancreas, Gall bladder, Caecum etc. is being automatically stand cancelled as no one has properties like Kapha.23 Kapha is reflection of water present in the body that means 'Ken Jalen Phalati', Kapha is nourished by water content. If the composition of the body is concerned these entities representing each other. Water with proper qualities and quantities nourishes Kapha. Kapha works through 'Ambukarmana' i.e. water action. This shows that Kapha & its entire functions are like water line action. Kloma is a one of the members of Kapha predominance system; which perceives the loss of water and signals the body for compensation. Water loss or imbalance may relatively damage the Kloma and that signal observed at Talu. Since Kapha represents the water body in the human, hence Kloma can be linked as one of the waters controlling organ which either indicates water loss or water imbalance. Supporting to the water level balancing, around 0.5% water vapors are present in atmospherand nearby 5% vapors and trace gases are present in expired air of human lungs i.e. water vapors quantity is higher case of expelled air. This indicates that lungs playing important role in maintenance of body fluids at vital stage also.2

CONCLUSION

Various commenter have described Kloma by their point of view. Damodar Sharma Gaud has considered it as Agnyashaya (pancrease). Pandit Hariprapanna has quoted it as gall bladder. P.K. Warior has told Kloma as Annanalika. But as per our literary research, we can conclude that as Kloma is one of the Kaphasthana, it should be present in thorax because main site of Kapha is given as Uraha Pradesh which is considered as Thorax. Main thoracic organ is lung that is Phuphphus. From this overall review, Kloma can be correlated with Phuphhusa that is lung.

REFERENCES:

- B.G.Ghanekar, editor, SushrutaSamhita of Sushruta, Sharirsthana5/60, ed. 2006, MeharchandLachhmandas Publications, New delhi 110002, P.no.177.
- B.G.Ghanekar, editor, SushrutaSamhita of Sushruta, Sharirsthana 9/11, ed.2006, MeharchandLachhmandas Publications, New delhi 110002, P.no. 238.

- B.G.Ghanekar, editor, SushrutaSamhita of Sushruta, Sharirsthana 9/14, ed.2006, MeharchandLachhmandas Publications, New delhi 110002, P.no240.
- 4] B.G.Ghanekar, editor, SushrutaSamhita of Sushruta, Sharirsthana 9/14, ed.2006, MeharchandLachhmandas Publications, New delhi 110002, P.no.241.
- Ravi Prakash Arya editor, Yajurveda Samhita English translation of R. H. Griffith, Parimal publication, 3rd edition, 2002, shlo no. 19/85, P.no295.
- Devi chand, The Athav Veda, Sanskrit text with English translation, Munshiram 6] Manoharlal Publishers PVT. LTD, edition 2007, shloka no. 9/4/8/12, New dellhi 110055, P.no. 414.
- 7] $C.G\,Kashikar, Apastambha\,Sharauta\,Sutra, Vaidika\,Sanshodana\,Mandala, 2nd$ edition 2003, Pune, shloka no. 7/7/11-12.
- 8] C.G Kashikar, Varaha Sharauta Sutra, Vaidika Sanshodana Mandala, 2nd edition 2003, Pune, shloka no. 71/6/7/10.
- C.G Kashikar, Bhardwaj Sharauta Sutra, Vaidika Sanshodana Mandala, 2nd 91 edition 2003, Pune, shloka no. 7/19/11.
- Pandit Rajeshwar Datta Shastri, Charak Samhita, Vol 1, edition 2009, Chaukhamba Bharti Acedamy, Varanasi, Shloka no. su. 17/101, P.no. 359
- Pandit Rajeshwar Datta Shastri, Charak Samhita, Vol 1, edition 2009, 11] Chaukhamba Bharti Acedamy, Varanasi, Shloka no. ni. 5/8, P.no. 710.
- Pandit Rajeshwar Datta Shastri, Charak Samhita, Vol 1, edition 2009,
- Chaukhamba Bharti Acedamy, Varanasi, Shloka no. sh. 7/10, P.no. 913.
 Deshpande, Amol. (2019). COMPREHENSIVE STUDY OF AANTRA IN BRUHATRAYI AND ITS CORRELATION WITH MODERN SCIENCE. Indian Journal of Applied Research. 9.45-46.
- Ashtanga Hridaya, Sharirsthana, Chapter 3, Verse 12, Edited by Ganesh Garde, Reprint ed. Pune; Anmol Publication; 2006.p. 133
- Sushrutasamhita. Sharirsthana, Chapter 4 verse: 30. Edited by B. G. Ghanekar, Reprint ed. New Delhi; Meharchand Laxman Das publication: 2009; p. 117
- Sushrutasamhita, Nidansthana, Chapter 9, section 23, Edited by Anantram 161 Sharma, Reprint ed. Varanasi; Chaukhamba Surbharati distribution, 2013. Vol-2.
- Sushrutasamhita, Sharirsthana, Chapter 5, section 27, Edited by P.V. Sharma, Reprint ed. Varanasi; Chaukhambha Orientalia; 2005. Vol-1, p. 177
- Sharangdhar Samhita, Poorva Khanda, Section 5, Verse 8, Edited by
- Srikantha Murthy, seventh ed., Varanasi; Chaukamba Orientalia; 2007, p. 21
- Sharangdhar Samhita, Gudharthdeepika Aadhamalla Commentary, Poorva Khanda, Chapter 5, Verse 8, Edited by PR Shashtri Vidyasagar, 7h ed., Varanasi; Chaukamba Orientalia; 2008, p. 45
- Ashtanga Hridaya, Sharirsthana, Chapter 3, Section 12/3, Edited by H.S. Shashtri Paradkar, Reprint ed. Varanasi; Chaukamba Surbharati; 2002.p.387
- P. V. Tiwari, Kshyap Samhita text with English translation and commentatory, edition 2008, Chaukhambha Vishwabharti prakashan, Varanasi, shloka no. sh. 34.P.no.117.
- 221 Bhishagacharya Harishastri Paradkara Vaidya editor, Introduction by P. V. Sharma, Ashtanga Hridayam of Vaqhbhata with Commentaries of Arundutta, 9th edition 2005, Chaukhambha Orientalia, Varanasi, shloka no. sh. 3/12,
- Ambikadatta Shastri, Sushrut Samhita Purvardh, Vol 1, edition 2014. 231 Chaukhambha Sanskrit Sansthan, Varanasi, shloka no. sh. 4/30, p.no. 42.
- Bhishagacharya Harishastri Paradkara Vaidya editor, Introduction by P. V. Sharma, Ashtanga Hridayam of Vaghbhata with Commentaries of Arundutta, 9th edition 2005, Chaukhambha Orientalia, Varanasi, shloka no. su. 12/3,
- Shudharshan Shastri, Madhukosh Madhavnidan, Vijayarakshita Kanthdatt,
- Chaukhambha prakashan, Varanasi, Trishna nidan-1, P.no. 362. Ambikadatta Shastri, Sushrut Samhita Purvardh, Vol 1, edition 2014, 261 Chaukhambha Sanskrit Sansthan, Varanasi, shloka no. sh. 9/12, p. no. 96.
- R. D. S, Charak samhita, vol 2, Chaukhambha bharti Acedamy, edition 2008, 271 Varanasi, shloka no.sid. 9/6, P.no. 1053.
- K Sembulingam, Essential of medical Physiology, 5th edition, J P Brothers 281 Medical Publishers LTD, New Delhi, P.No. 49-51, 57-58.