RESEARCH ARTICLE

A CONCEPTUAL STUDY OF JIHWA SHARIR(TONGUE) IN AYURVEDA

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Introduction:-
Ayurveda mentions, chakshu, ghrana, karna, twacha and rasana(jihwa) as the Panchendriya’s. According to modern science, those are sense organs which are five in number; Eyes, Nose, Ear, Skin and Tongue. Indriyas are capable in perceiving their objects only when they are supported by mind, through which the knowledge is perceived or memorized. All Shariraindriya, Satwa and Aatma unanimously holds the life.

Jihwa /Rasana is one among the Indriyas. Ayurveda consider it as a dnyanendriya and also as a karmendriya depending on its kriya. It is a buddhiindriya according to charka. Jihwa is the only indriya which is considered under all the three. Rasagrahana is the primary function of jihwa. So it is called as Rasanendriya. Its secondary function is, vaakutpatti, and so called Vaagindriya. We can also consider jihwa as a sparshanendriya because if any foreign material (eg. hair, pin etc) when comes in contact with jihwa, it can be sorted out and can prevent its ingestion.

There are enumerable diseases affecting tongue. Some told in ayurved include jihwakantaka, jihwashopha etc. A wide range of tongue diseases are seen according to modern science. Like CA of tongue, glossitis, buldtongue, ankyloglossia, ageusiaetc are a very few among them.

Materials about jihwa and its importance are available in ayurvedicliterature; but it is insufficient and in scattered form. Descriptions are brief.

Jihwa with its rachana, kriya, roganidan and swasthavritta is not available together in a single chapter in ayurvedicgranthas. Tongue has a great diagnostic importance. Its the key site of examination in many diseases. Jihwa...
is a tool for examination according to Ayurveda. That is the reason why it is mentioned in ashtavidha and trividharpipareeksha.

Regardless of patients illness or lack of illness; examining the tongue shape, colour, coating, texture, how it moves etc should be done by all physicians. To treat the disease of any organ, before going into diagnosis and treatment, the knowledge of sharirrachana and kriya is inevitable. Thorough knowledge of prakrutasharir of Jihwa will make us to understand the vikruti. Thereby, line of management can be designed properly.

Therefore a conceptual study of JihwaSharira in Ayurveda is made with all available references from Ayurveda.

**Materials and methods:**
Available Ayurvedic Samhitas are used for collecting the references.

The references are collected, observed, analysed and discussed thoroughly and drawn conclusion.

**Discussion:**

**Jihwanirmiti/utpatti (Formation of Jihwa):**
According to Sushruta, Shukrashonita undergoes sammoorchana in garbhashaya by combining together with aatma, prakruti and vikara which results in garbha. Panchamahabhutas with its respective function makes the embryo grow and to attain a particular body shape with different organs like hasta, pada, jihwa, ghrana, karna, nitamba etc. The foetal body has six parts- Four limbs, Trunk and Head

Acharya Sushruta clearly mentioned the development of tongue in the garbhaavasthai itself. Panchamahabhutas play a crucial role in the garbhautpatti and specifically in development of each organ.

Jihwa is as a matrujaavayava. All soft organs are mentioned to be derived from mother. Jihwa is a soft organ which is especially made of rakta and mamsa which is said to be matruja.

It is also being told that mind and all sense organs are derived from aatma. So, as jihwa is one among the sense organs it is aatmaja. Thus we can consider jihwa as a matrjaavayava with aatmaja bhava.

When kapha, Rakta, mamsa are metabolized inside the abdomen (by vata and pitta), the best part of them (saarabhaga) forms the tongue, just as pure gold is obtained by heating it on fire and blowing air on it. Jihwa is a matrujaavayava. It has a fixed shape and size. As it is made of both Drava and Ghana dhatus. It has sthiratva property due to kaphadosha.

According to Yogaratnakara, Jihwa is one among the mukhavayava. So it is placed in the oral cavity (mukha).

Acharya Charakamentioned, jihwa as a mukhavayava. While enumerating panchaindriyaadishtana, buddhiindriya and karmendriyajihwa is mentioned as one among them. So jihwa is a buddhiindriya as well as a karmendriya and is also an adhishtana. Charakacharya while mentioning the examination of the child to ascertain his/her life span, signs and symptoms of children having long life span is specified. Among them jihwa is mentioned in such a way that it should have proper length and breadth, should be smooth, thin and endowed with natural colours. This is considered to be the normal swaroopa of jihwa.

**Role Of Panchamahabhuta In JihwaNirmiti:**
In Ayurveda, understanding this complex evolution of human body has been made easy by knowing the role of Panchamahabhuta (prithvi, aap, teja, vayu and akasha) in foetal development and further on. Jala (aap) mahabhuta is the predominant panchamahabhuta in the development of Jihwa.

Charakacharyaopines, the five sense faculties, made of all the five mahabhutas with one mahabhuta as a predominant factor in each, are inferred from their five respective action which serves as the agents for manifestation of buddhi (intellect). Therefore, aapmahabhuta is predominant in rasanendriya to perceive rasa dnyana.

As per Sushrutacharya, the components derived from the jala are the sense of taste along with organ of taste (rasanendriya). Fluids, heaviness, coldness, unctuousness and semen can also be included under this.
Acharya Vaghatta, while explaining bhautikasharira, in human body from aapmahabhuta are the jihwa, rasa, fluids and moisture are produced.

Kashyapacharya also mentioned that rasa and rasanendriya is made of jaliya component of panchamahabhuta.

The main panchamahabhuta component involved in formation of jihwa (rasanendriya) has been emphasized as aapmahabhuta by Acharya- Charaka, Sushruta, Vaagbhata and Kashyapa.

**Peshi related to Jihwa:**
According to Sushruta, there are 500 Mamsapeshi in human body, out of which one in jihwa. Detailed description about each muscles of jihwa is not available in Ayurveda, as explained in modern science. Ayurveda mentioned only one peshi in jihwa.

**Jihwa=rasanendriya:**
The indriya which is meant for rasa grahmana and present in jihwagravarti is known as Rasanendriya(rasana)

That located in jihwa is known as bodhaka (kapha), for it helps taste perception. A.34êû.xÊÔ 12/17

Jihwa is the adhishdana of rasanendriya.Rasa is the object of rasanendriya and rasa dnyana is the rasanendriyabuddhi.Whenmadhuradiannadravyas, dravasetc are placed over jihwa, it comes in contact with the bodhakakapha, which is having adhishdana in jihwa.Rasabodhana karma starts here.There after it is carried by rasavahadhamani with the help of vaayu, to the higher centres in brain.Along with the involvement of manas and aatma, ultimately perception of rasa occurs.

**Jihwa = Vaaingindiya (one among Karmendriyas):**
Acharya Charaka, 'in katidhapurushiyamshareeram’ adhyaya mentioned the five karmendriyas; hasta, pada, guda, upastha and vaagindriya.Jihwa is one among those and it is referred as vaagindiya (organ of speech). And vaak is of two types, satya and asatya. Satya is jyoti (light) and asatya is tama (darkness).

From vedic-era people were conscious about importance of speech.In Rig-veda and yoga science, four images of vaani/vaak are read-
1. Para
2. Pasyanti
3. Madhyama
4. Vaikhari.

Three of them are hidden and the last is realized. Vaikhari is located on jihwa and it is the sthoolavaani. This is real speech. With this, one can communicate with other. Hidden primary image of this speech is at umbilicus. It reaches upwards towards heart and through neck then to tongue. Here it takes expression of real speech.

According to Gaudapatatika God and Humans chant hymns, verses etc with Vaagindiya (organ of speech). According to Gaudapatatika God and Humans chant hymns, verses etc with Vaagindiya (organ of speech).

Some letters produced with the help of Jihwa-
1. The ‘ka’ vargaaksharas are produced by the union of root of the tongue with upper jaw.
2. The ‘cha’ vargaaksharas are produced by union of dorsum of the tongue with upper jaw.
3. The ‘tha’ vargaaksharas are produced by union of tip of the tongue with the roots of the teeth.
4. Some Sanskrit letters starting with ‘A’, ‘OU’, r, rretc are produced by the vibrations of the structures like tongue, lips etc.

**Letters –parts of tongue involved:**

| Letters | Part of tongue involved |
|---------|-------------------------|
| Kavarga | Root of tongue           |
| Cha vara | Dorsum of tongue         |
| Thavarga | Tip of tongue            |
A,ou,r,rretc | Vibration of tongue

These are the Ayurvedic reference we get about jihwa as a vaagindriya. In modern texts there is ample of references and explanations regarding the role of tongue in articulation of speech. Tongue- is considered as an important organ of speech.

Jihwa= as Sparshanendriya:
We can also consider Jihwa as a Sparshanendriya because if any foreign material (e.g. hair, pin etc) when comes in contact with jihwa, it can be sorted out and can prevent its ingestion. It protects.

Jihwapreekshana in rogipareeksha:
In AshtavidhaRogiPareeksha
Among the ashtavidharogipareeksha, Jihwa is also mentioned. In every patient jihwa should be also examined. Swaroopa, varna etc should be examined. If we know the prakrtajihwa, by examining the vikrutajihwa can be understood.

If there is vatakopa, then jihwa will be sheetala (cold in nature), kharasparsha (rough in texture) and sphutita (cracked). Because of pitta kopa it can be seen reddish and dark. Because of kaphukopajihwa becomes shweta (white) and pischila (slimy). In sannipatajadoshakopa, jihwa becomes blackish and there will be prickling pain associated with shushkata.

In TrividhaRogiPareeksha - Among the trividharogipareeksha (darshana, sparshana, prashna), jihwapareeksha is also mentioned under darshanapareeksha, by Acharya Bhavaprakasha, in Rogipareekshaprakaranam. References are given below -

In vataprokopa, jihwa is seen rooksha (dry) and sphutita (cracked) like shakapatra. In pitta prakopa, jihwa becomes raktashyavarvarna (reddish and black in colour). In kaphaprakopa, jihwa will be aalipta (coated), aardra (moist) and white. Whereas in tridoshaprakopa, it is seen to be paridagdha (burned), kharasparsha (rough) and krishnavarna (blackish). If there is dvidoshaprakopa, lakshanas will be seen as per the involvement of prakupitadoshas.

The above reference highlights the importance of jihwapareeksha. It is mentioned that, a Vaidya who is not able to diagnose through the lakshanas of nadi, mutra, jihwa etc, will kill the patient soon and such a Vaidya is not successful in his profession.

Thus Ayurvedic literature shows that jihwa is an important aid in diagnosis also.

Conclusion:-
1. In original Ayurvedic texts we get scattered informations about jihwa.
2. Jihwa is called Rasanendriya because it perceives Rasa and Vaagindriya as it is an organ of speech.
3. While explaining evolution of indriya it is described that jihwa is one among ekadashaindriyas.
4. Embryolocial development of jihwa is not separately mentioned in Ayurveda, butsushruta opines that evolution of all organs begins in the third month of embryo and completes at about seventh month.
5. Jihwa has its own panchabhautikatva, tridoshasambanda and peshisambanda. It is one among avedhyasira, dasajeevitadhamani, saptasevani.
6. Role of mana in perception of rasa dyana is reviewed and interpreted with modern. To obtain rasadyana, sannikarsha of rasanendriya, atma, mana and rasa is required.
7. Jhawagataarshatalakshanas are also available in ayurvedic texts.
8. Jihwa is considered to be examined for rogipareeksha, according to ashtavidharogipareeksha.
9. Ayurveda has given emphasis of Jihwa as Dyanendriya and Karmendriya, so given given with synonyms rasanendriya and vaagindriya.
10. Though jihwa is considered as an important indriya in ayurvedic literature, no adequate description regarding rachana and kriya of the same is available. So references showing the vitality of jihwa is collected from different samhitas and brought together.
11. Jihwa is an organ to be examined because of its clinical importance, even arishtalakshanas are found in relation with it.
References:
1. Sushruta Samhita by Prof. G.D.Singhal and Colleagues, Chaukamba Sanskrit Pratishtan, 2007 2nd Edition. Sharirasthana Chapter 5, Shloka no. 3, Shloka no. 37.
2. Sushruta Samhita by Dr. B.G. Ghanekar, Chaukamba Varanasi, 2006. Sharira Sthana Chapter 1, Shloka no. 19; Chapter 4, Shloka no. 28.
3. Charaka Samhita, Dr. Ram K. Sharma, Chaukamba, Varanasi, 2003 Reprint, Sharira Sthana, Chapter 1 Shloka no. 2; Chapter 7 Shloka no. 7.
4. Charaka Samhita, P.V. Sharma, Chaukamba Varanasi, 2011 Reprint, Sutrasthana, Chapter 1 Shloka no. 42; Chapter 8 Shloka no. 51.
5. Ashtanga Hridaya by Kavrjap Gupta, Chaukamba Krishnadas Academy, 2005. Sharira sthana, Chapter 3 Shloka no. 3; Sutra Sthana Chapter 12 Shloka no. 17.
6. Ashtanga Sangraha by Prof. K.R. Srikantamurty, Chaukamba Varanasi, 2003. (Students edition), Sharirasthana Chapter 3 Shloka no. 4-5.
7. Bhava Prakasha by Sri. Brahmanshankara Misra, Sri. Rupalalaji Vaisya, Chaukamba Varanasi, 2012. Poorvardh Chapter 7 Shloka no. 1.
8. Yogaratnakara by Ashakumari, P.V. Tewari, Chaukamba Varanasi, 2010 Students Edition, Chapter 1 Shloka no. 6.
9. Yogaratnakar - Hindi Teeka Sahit, by Vd. Srilaksipati Shastri Chaukamba, Varanasi, 2013 Reprint, Chapter 1 Shloka no 6.
10. Tarka Sangraha by Sri. Motilal Banarasi Das, Delhi, Reprint 1991.