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RESEARCH ARTICLE

A REVIEW ON SANDHI SHARIR W.S.R TO JANU SANDHI (KNEE JOINT) AND ITS APPLIED ASPECT *Dr. Pallavi D. Pawar (Patil),

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ABSTRACT

In Ayurvedic Classics Atreya, Dhanvantari Sushruta and all other communities have made it important the knowledge of body to have undoubtedly for the sake of knowledge. The definition of Sandhiin various Ayurvedic literature are given as "asthisamyogasthana" or "to unite" or "the meeting point of two or more stuctures. counted so only AsthiSandhi or bony joints should be considered under the term Sandhis. In our Ayurvedic literature different Aacharyas have mentioned different numbers of Sandhi. According to Aacharya Sushruta Sandhisare two hundred and ten in number, which are responsible for various movements, and are distributed throughout the body. In Ayurvedic Samhitas the description of anatomy of Sandhi in detail is not found. It is observed that the incidence of joints disorders are increasing in today "s world. It is the burning problem for people and society. A thorough knowledge of the structure and function of the joint is required to diagnose and treat the diseases of joints.

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INTRODUCTION

In Ayurvedic classics like *Charaka Samhita*, *Sushruta Samhita* etc. a huge knowledge regarding *Shareer*. *Nidana* and *Chikitsa* are available. For an expert Vaidya to treat a disease thorough knowledge about the disease and *Shareer* of its related part is very mandatory. One who knows *Shareer* (i.e. anatomy and physiology of human body) in detail, only he can know and understand Ayurveda which can bring happiness to the universe.

AYURVEDIC REVIEW

According to *Aacharya Sushruta* only *Asthi Sandhi* should be taken into account where as other *Sandhi of Snayu, peshi* and *Sira* are innumerable and should be excluded while counting. Classification of *Sandhi*- Main classification is of two types.

- Kriyanusar (Based on Kriya) & 2. Rachananusar (Based on Rachana)
- Kriyanusar Vargeekaran (Based on Movement): The Sandhis are of two types.
- Chal (Cheshtayukta Sandhi) Diarthorosis
- Achal (Sthira Sandhi) Synarthrosis
- The *Sandhis* which are situated in the *Shakhas*, *Kati* and Hanu are *Cheshtayukta Sandhi* while all the remaining *Sandhi* comes under the *Sthira* in nature.
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- The *Cheshtayukta Sandhis* are further classified into two types based on their extent of movement. They are
- Bahuchala (freely movable)
- *Alpachala* (slightlymovable)

The Sandhi of Shakhas, Kati and Hanu are of Bahuchala variety and the Sandhi of Prushtha etc. are Alpachala variety. Rachananusar Sandhi Vargeekaran (Based on structure):

Based on the structure Aacharya Sushruta had described 8 types of Sandhi. They are Kora, Ulukhala, Samudga, Pratara, Tunnase-vani, Vayastunda, Mandala and Shankhavarta. KoraSandhi (Hinge joint) As per the description of Haranchandra in commentary of Sushrut Samhita, Kapat etc. is taken for Nibandhan of a special devise called Kora is known that the Kabja (hinges). The Kora Sandhi is seen in the following region- Anguli (phalangeai), Manibandha (wrist joint), Gulpha (Ankle joint), Janu (Knee joint) and Kurpara (Elbowjoint). Ulukhala Sandhi (Ball and socket joint) These types of Sandhi look like stone grinder used in the kitchen in olden days that"s why it is named so. The Ulukhala variety of joints is found at Kaksha (Shoulder joint), Vankshana (Hip joint) and Dashana (Teeth). Samudga Sandhi (Saddle joint) This variety of Sandhi looks like a box. This variety of Sandhi looks like a box. These Sa- mudga Sandhis is seen at Ansapeeth (Acromioclavicular joint), Guda (Sacrum), Bhaga (Pubis) and Nitamba (Ilium). Pratara Sandhi (Gliding orplane joint) According to Dalhana, the articulating surfaces of this variety of joint are flat in nature and floating, supported by cushion and friction is seen in between the articulating surfaces.

In Sushruta's opiniont hisvariety of joints are located at Greeva (Cervical vertebrae), kasheruka (Vertebrae) Prushthavansha (Thoracic vertebrae). Tunnasevani Sandhi (Sutures) The commentator Gananath Sen has opined that articulating surfaces resembles dentate edges which are supported and stucked together or embedded into one other. This type of Sandhi is found at Sirakapala (Skull) and Katikapala (Hipbone-sacrum, coccyx). Vayastunda Sandhi (Condylar joint) According to Gananatha Sen the Hanu which is situated within Shankhasthi both side of chin and creat T.M.J. (Temporo-Mandibular joint) is considered as Vayastunda Sandhi. Even Sushruta has got similar opinion about Vayastunda Sandhi. Mandala Sandhi According to Dalhana the Sandhi, which are oval or round are called as Mandala Sandhi. This type of Sandhi is present in Kantha (Throat), Hrudaya (Heart) and Netra (Eye) Clomnadi (Trachea). Shankhavarta Sandhi According to Haranachandra, these are circular in nature which resembles the circles of a snail or Shankha. According to Sushruta they are found in Shrotra (Ear) and Shringataka (Cavernus sinus).

Sandhi Sankhya: According to *Aacharya Charaka* - 200 Sandhi in body. According to *Aacharya Sushruta* -Body comprises 210 *Sandhi*. Of these sixty-eight are in the four extremities; fifty-nine in the trunk (*Koshtha*); and eighty-three in the neck and the region above it.

DISCUSSION

In Ayurvedic classics Sandhis have been classified into eight types by taking account of shapes of Sandhis mainly, movement of Sand- his has not been considered whereas in modern science, the classification of Sandhis has been done by taking account of both structure and function (movement). In Ayurvedic Classics Atreya, Dhanvantari Sushruta and all other communities have made it important the knowledge of body to have undoubtedly for the sake of knowledge. The definition of Sandhi in various Ayurvedic literature are given as "asthisamyogasthaaana" or "to unite" or "the meeting point of two or more stuctures. counted so only Asthi Sandhi or bony ioints should be considered under the term Sandhis. In our Ayurvedic literature different Aacharyas have mentioned different numbers of Sandhi. According to Aacharya Sushruta Sandhis are two hundred and ten in number, which are responsible for various movements, and are distributed throughout the body. In Ayurvedic Samhitas the description of anatomy of Sandhi in detail is not found. It is observed that the incidence of joints disorders are increasing in today"s world. It is the burning problem for people and society. A thorough knowledge of the structure and function of the joint is required to diagnose and treat the diseases of joints.

The location of *Shringataka* is not clearly described in classics. So on going through the study of *Shringataka Marma*s colars have Shringataka Marma in nose. So the *Sandhi* should be present in nose as *conchi*, which is present as irregular form like *Shankhayarta*.

CONCLUSION

The various classical texts of Ayurveda have defined Sandhi are meeting place of two or more Asthis. Ayurveda and modern science both are same classification basis on the structural and function. Kora Sandhi can be considered as hinge joint, UlukhalaSandhi may include ball and socket variety of synovial joint and gomphosis variety of fibrous joint. Ansapeetha, Guda, Bhaga, Nitamba has Samudga Sandhi can be considered as acromioclavicular, sacrococcygeal, pubic symphysis, and sacroiliac joint respectively. In Pratara, Greeva and Prushtavansha may include intrevertebral joint. Sutures as Tunnasevani and Hanu in Vayasatunda may be taken a tempomendibular. Sankhavartha include Shrota and Shringataka can be correlated with cochlea and region of nasal conchae.

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