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RESEARCH ARTICLE

A REVIEW ON SANDHI SHARIR W.S.R TO JANU SANDHI (KNEE JOINT)AND ITS APPLIED ASPECT

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ABSTRACT

In Ayurvedic Classics Atreya, DhanvantariSushruta 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 "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 AacharyaSushrutaSandhis 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.

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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 AsthiSandhi 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 (SthiraSandhi) 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 CheshtayuktaSandhis 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 AacharyaSushruta 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 SushrutSamhita, Kapat etc. is taken for Nibandhan of a special devise called Kora is known that the Kabja (hinges). The KoraSandhi 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- mudgaSandhis is seen at Ansapeeth (Acromioclavicular joint), Guda (Sacrum), Bhaga (Pubis) and Nitamba(Ilium). PrataraSandhi (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 his variety of joints are located at Greeva (Cervical vertebrae), kasheruka (Vertebrae) and Prushthavansha (Thoracic vertebrae). TunnasevaniSandhi (Sutures) The commentator GananathSen 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 GananathaSen the Hanu which is situated within Shankhasthi both side of chin and creatT.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 joints 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 ShringatakaMarmascolars have Shringataka Marma in nose. So the Sandhi should be present in nose as conchi, which is present as irregular form like Shankhavarta.

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. KoraSandhi 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 SamudgaSandhi 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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