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Concept Of Koshthanga With Special Reference To Nabhi

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Abstract:

Nabhi is one of the many concepts in Ayurveda science which are not yet fully clear. In classical texts of Ayurveda, scattered references regarding Nabhi are available like Nabhi mentioned as a vital spot (Marma), Sira Prabhava and Pranayatana of body. It is also included among the fifteen Koshthanga of body. Nabhi is present in between the Pakvashayaand Amashaya and dominant place of Pitta Dosha. Available literature and commentary on Nabhi interprets it as a Navel but practically it doesn't make a sense to stick with this interpretation. Therefore; it is needed to review classical texts of Ayurveda and contemporary literature to get clear and definite meaning of the word "Nabhi". After thoroughly reading and interpreting the literature available regarding Nabhi; it has considered as an important structure in the body and centre of all the organs of the body and core of physiological process.

Keywords: Koshthanga, Nabhi, Pitasthana, Prana,

Introduction:

Nabhi like each part of the body has its own importance, also considered to be the centre of all the organs of the body. Scattered references regarding *Nabhi* are availablein classical texts of *Ayurveda*. Laying emphasis on importance of *Nabhi*, the anatomical, physiological as well as pathological concepts about *Nabhi* are described in *Ayurveda* classics.

Aim and objective:

- To understand concept of *Nabhi* in detail by review of literature.
- To understand their importance in *Sharir*.

Material and method:

- Review of Ayurveda literature including relevant commentaries.
- Other print media, online information, journals, books, magazines etc.

Review of literature:

Conceptof Koshtha-

According to Kalpadrum, the word Koshtha is formed by "Kush Dhatu" with "Than Pratya."

Meaning of *Koshtha*according toApte and Monierwilliam dictionary isa granary, a place in which grain is kept, a treasury, an apartment, the shell of anything, any enclosed space or area.

In context of *Sharir Rachana,Koshtha* is considered ascage or cavityeg. Cranial cavity, thoracic cage/cavity,abdominal cavity, pelvic cavity

According to *Charaka,Koshtha* ismay also be called *Mahasrota*, *Sharir Madhya*, *Mahanimna*, *Amashaya* and *Pakvashaya*.¹

According to Acharya Sushruta, the site of Agni, AamAna, PakwaAna, Mutra and Rudhira, along with Hrudya, Unduka, Fuffusa are considered as Koshtha.²

Conceptof Koshthanga:

According to ParishadhamShabdarthShariram, MadhyakayaGuha,AanavahaSrotas, AntahJatharaand all theSushirKoshthangacan be considered as the Koshtha.³

Acharya Charaka and Acharya Bhelahave mentioned 15 visceral structures. These are as follows: Nabhi, Hrudya, Kloma, Yakruta, Pleeha, Vrukka, Basti, Purishadhara, Amashaya, Pakvashaya, Uttaraguda, Adharaguda, Kshudrantra, Sthulantra Vapavahana.⁴

The body as a whole is known as *Anga*, again it has six *Anga* (major parts) -the head, the trunk, two arms and two legs; *Netra*, *Nabhi*, *Pani*and *Pada* and such others are the *Pratyanga* (minor parts). According to *Acharya Indu* the part between the *Jatru* and the *Kati* is said to be the *Antradhi*; *Nabhi*and *Hrudya* are situated in this *Antradhi*.⁵

AshtangHruydya considersNabhi, Hrudya, Kloma, Yakruta, Pleeha, Vrukka, Basti, Fuffusa, Unduka, Dimba, Antra as the Koshtanga.⁶

Acharya Kashyapa has used the word *Pratyanga* instead of *Koshtanga* and considers *Nabhi*, *Hrudya*, *Kloma*, *Yakruta*, *Pleeha*, *Vrukka*, *Basti*, *Purishadhara*, *Amashaya*, *Pakvashaya*, *Guda*, *Kshudrantra*, *Sthulantra*and*Vapavahana*as the *Pratyanga*.⁷

Conceptof of Nabhi:

According to *Kalpdruma*, The word *Nabhi* is derived from "*Nah Dhatu*" with "*InhPratya*".

The term is derived from word'*Nah* - *Bandhe*'. It means to bind or tie to the central point just like the spokes of wheel held at the navel.⁸

According to the Monier Williams dictionary, the word *Nabhi* has following meanings: The navel, to burst into a hole, a navel like cavity, the navel of a wheel, Central point, a chief point, *Kshatriya*, point of junction or origin

ParishadyamShabdarthShariram, has mentioned concept of Bahir Nabhi and AntarNabhi. The BahirNabhi is situated in the middle of the abdominal region on the sagittal plane. In the intra uterine life, the NabhiNadi containing the Sira and Dhamani is related to this part. The Bahir Nabhi is said to be a muscular part. The AntarNabhi is also related to SiraDhamani and Peshimaya (mascular) but is also Pindikavartrupa, Pittadhishtana, Koshthangarupa, situated between two Ashya, is one of the Pranayatana.⁹

Anatomical View:

Acharya Charaka, Acharya Bhel and Vaghbhata include Nabhi in Dasapranayatana.

Acharya Charaka, Acharya Sushruta, Acharya Kashyapaand Vagahbhata considered Nabhi in Matrujabhava.¹⁰

The Amashaya is situated in between Nabhi and Stana, 11

Describing the signs indicating the longevity of life of a new born; *Acharya Charaka*says that the baby having slightly prominent or right curved Navel would have a longer life span. 12

The place of *Nabhi* is *Udara* (abdomen) and it is present in between the *Amashaya* and *Pakvashaya*. It is the place of origin of *Sira* (*Siraprabhava*); injury to this leads to death.¹³

Sushruta has described that the *Prana* of an individual resides in the *Nabhi*; the *Nabhi* is surrounded by *Sira* similar to the axle hole being surrounded by spokes. *Nabhi* is said to be the *PrabhavaSthana* i.e., the site of origin of the *Dhamani* and *Sira*.¹⁴

Sira originating from the Nabhi, spread through the entire body, just like water spreads from the Padaminikanda (rhizome of the lotus plant) to its stalk.¹⁵

Dhamani are twentyfour; by them the entire body gets supplied with nourishment similar to a vast plot of land by canals carrying water; from them (*Dhamani*) the *Nabhi* (umbilicus) is surrounded just as an axle hole is surrounded by the spokes (of a wheel); at that umbilicus (centre) life is designed to dwell; hence it is seat of *Agni*.¹⁶

In *AngavibhagamShariramAdhyaya*, *Vagabhata* told that *Dhamani* is originatesfrom*Nabhi* and it is surrounded by *Dhamani*; similar to the axle hole being surrounded by spokes. These *Dhamani* spreads in the body upward, downward and obliquely and nourished the body.¹⁷

One *Peshi* is present in the umbilicus. ¹⁸

Nabhi is a superficial regional landmark which helps in identifying the sites of various organs; like *Agnashaya* is situated above *Nabhi* and *pavanashaya* below it.¹⁹

Manipura Chakra or the *Nabhi* chakra is situated in *Nabhi* region. In this context the word *Mani* is used in the sense of *Agni*. Both *Mani* and *Agni* have *Tejas* property.²⁰

NabhiMarma is single in number, belonging to the abdominal region. On the basis of *AbhighatajaParinaam* it is *SadhyopranaharaMarma*. Any injury to this *Marma* may lead to immediate death or death within 7 days. On the basis of *RachanaNabhi* is *Sira Marma* and its *Pramana* is *Swapanitala* (4 *Angula*).²¹

Nabhi is considered as the Sthana of $\underline{U}danaVayu$ by Acharya Charaka and as the Sthana of SamanaVayu by AcharyaSharandhara.

Physiological View:

According to *Charaka* foetus takes its nourishment through the *NabhiNadi* (umbilical cord). The *Nabhi* of the foetus isconnected to the *Apara* by *NabhiNadi*. The *Apara* is in its turn connected with the *Hrudya* of the mother. The heart of the mother floods the *Apara* by the pulsating *Sira*. This *Rasa* promotes strength and complexion of the foetus.²³

Jyotisthana is present inside the umbilical of the foetus; when this is inflated by Vata combined with *Usma*, then the body grows; as and how the *srotas* becomes dilated spreading upward, side ward and downward the body of the foetus grows accordingly. ²⁴

Nabhinadi of the foetus is connected with the *RasavahaNadi* of the mother, this cord conveys the essence of food and vitality from the mother to the foetus; and nourished by this material it grows.²⁵

Parasara said that *Nabhi* gets originated first &*Prana* is located there which helps in the growth of the body with the combination of *Ushma*.²⁶

Pathological view:

According to *Charaka* with commentary of *Chakrapanni*, Improper execution of the *Nabhinadi* may cause *Ayamottundita*(elevation of the umbilicus length wise), *Vyayamottundita* (elevation of the umbilicus in breadth), *Pindalika*(formation of a circular ring around the *Nabhi*), *Vinamika* (elevation of the umbilicus in the periphery and depression in the centre), *Vijrumbhika* (having recurrence of protrusion of the umbilicus). According to *ChakrapaniNabhipaka* is caused by *Pita;Vata* is responsible for *Ayamottundita*, *Vyayamottundita*.

According to Sushruta Vitiated Vata causes enlargement of umbilicus associated with pain is termed as Nabhitundi.²⁸

Discussion-

Anatomical point of view-

Nabhi as a Prabhava Sthana of Dhamani and Sira - Though, Anatomically we do not see any veins or arteries being connected or getting originated from the Nabhi. But the connectivity to the Sira is explained on the basis of foetal circulation. In intra uterine life, the umbilical cord containing one vein and two arteries enters the foetal body via Nabhi. Umbilical vein after enter into the body of the foetus goes upwards and divided into right and left branches. Porto-caval anastomosis, Umbilical veins and its branches and the umbilical arteries look like wheel in appearance at the Nabhi. This is relevant to the spokes of wheel example said by the Acharya; thus Nabhi is considered as the Siramula. At the time of birth of the child, its cardio-vascular system with network of veins and arteries and even lymphatic's will have fairly well developed. After the child is born the heart becomes the chief organ of both arterial and venous network. So after birth these Sira (Umbilical vessels) do not existanymore.

According to *Yogashikhopnishada* the *Manipura Chakra* situates at *Nabhi*. This *Chakra* is anatomically considered as the celiac or solar plexus. The celiac plexus is the largest of autonomic nerve plexuses, also known as the solar plexus, because of its location in the centre of the body (at the level of umbilicus) where radiating nerve fibres extend in all directions to the important abdominal organs.

Nabhi or specifically the *Antarnabhi* is considered as a *Koshthanga*. *Nabhi* is surrounded by organs which lie in the *Kostha*, thus are called the *Koshtanga*; so, in accordance with the above, *Nabhi*along with surrounding structures *i.e. NabhiPradhesha*is also considered as the *Koshthanga*.

Physiologically point of view-

Nabhi is a *Pitta Sthana* or *Jyothi Sthana*. *Nabhi*can be considered as *Jyothi Sthana*due to the proximity of the digestive organs with it. *Grahani* is situated at umbilical area or at *Nabhi*, which bears *Pittadhara Kala*andfunctions with the help of *Pitta*, the *Agni Tatwa* which is said to be representative form of *Pitta*in the body. Thus *Nabhi* is closely related to *Agni* or *Pachakagni* in the body.

Nabhi is a main structure in *Garbha Poshana*. Navel is the root of circulation in intra uterine life, since, it is related to the umbilical vesselswhich connect the child and mother, and is the main gateway through which nutrition enters the foetus. If any defects of circulation system or blocks or inadequate nutrients from mother the foetus born with deformities and birth defects, stunted growth or intrauterine death, so umbilicus is very important structure in foetal life.

Nabhi is one of the *Pranayatana*. The *Prana* is supplied to the foetal body through *Rudhira*. It is the root of the body which sustains life. *Rakta* does the *JivanaKarma*. According to modern medical sciences, oxygen transportation is the function of blood. *PranaVayu*canbeconsidered as inspired oxygen during the process of respiration. As *Rakta* is the transporting agent of *Prana Vayu*. Oxygenated blood is carried by umbilical veins from placenta of mother to the foetus. These veins enter the foetus body through umbilicus. So *Nabhi*can be considered as *Pranayatana*.

Nabhi being as a centre of Agni; or a dominant place of PachakaPitta and Samana Vayu perform the process of digestion through Grahana (consumption / selection), Pachana (conversion), Vivechana (separation) and Munchana (give up for next stage).

Pathologically point of view-

The umbilicus is one of the important sites at which left branch of the portal vein anastomose with vein of anterior abdominal wall (systemic) (porto-caval anastomoses) through the paraumbilical veins. In portal obstruction the veins around the umbilicusenlarge forming caput medusae.

Ayama, Vyayama, Pindialika, VinamikaVijrmbhikaand Nabhitundi in fact indicate different types of umbilical hernias.

Conclusion: *Nabhi* cannot be described as a pinpoint structure but an area which can broadly be considered as the umbilical region. In *Ayurveda*, anatomically and physiologically, *Nabhi* is an important *Kosthanga* as it is *Sthana* of *Agni* and also a *Pranayatana*.

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