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# A LITERARY REVIEW ON NABHI MARMA AND ITS ANATOMICAL IMPORTANCE

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### ABSTRACT

Marma Sharira is an important concept of Ayurveda. Marma are the point where Mamsa, Sira, Snayu, Asthi and Sandhi meets together. These are critical points of the body associated with different organs, nerves, muscles etc. Prana are situated in Marmas, injury to Marma can lead to Vaikalyta (abnormalities) and death, so considered as vital points. Knowledge of position of Marma and Marmabhighata (injuris to vital points) symptoms produced is essential before performing any surgical treatment. It play important role in surgery hence, it is rightly called as Shalya Vishayardha. Ayurveda described us of Marma therapy for various disease. Marma, definition of Marma, types of Marma, and their Vidhha Lakshana are described by nearly all Ayurvedic texts, especially Trimarmiya Siddhi, Trimarmiya Chikitsa chapter in Charaka Samhita, Marma Vibhaga chapter in Sharia Sthana, Marma Vibhaga chapter in Astanga Sangraha, and Shariravichaya Sharira chapter in Kashyapa Samhita. Aachary Susruta mentioned Nabhi as centre of all Siras and mentioned that pranas resides in Nabhi. Nabhi have a great anatomical importance. Nabhi is considered to be centre of all organs in the body. Nabhi marma is very important as it plays an important role in process like digestion, metabolism as well as absorption. Nabhi marma comes under Sadhyapranahar Marma and Sira Marma according to Acharyaa Susruta.

KEYWORDS: Marma, Nabhi, Ayurveda.

# INTRODUCTION

Charaka and Susruta mentioned Nabhi as a structure where Pranas are situated. Among the 107 Marmas Nabhi is included in Sadhyapranahara Marma and Mamsa Marma by Susruta.

# REVIEW OFLITERATURE NABHI STHANA (ANATOMICAL POSITION)

According to *Ayurveda Nabhi* is situated between *Amasaya* and *Pakwasaya* in the *Udara* (stomach). [1]

Position of umbilicus is variable but in healthy adults it lies at the level of disc between third and fourth lumber vertebrae corresponding to the midpoint of the line joining the two anterior superior iliac spine. [2]

Position of umbilicus is lower in infants.

# EMBRYOLOGICAL IMPORTANCE OF NABHI

It is a meeting point of the four folds of embryonic plates. (two lateral, head and tail).

This is also the meeting point of three system, namely the digestive (vittellointestinal duct), the excretory (urachus), and vascular (umbilical vessels).<sup>[3]</sup>

### NABHI AS PRABHAVASTHANA OF SIRA

Nabhi is site of origin of Dhamani and Sira. [4] Sira feeds

the foetus through *Nabhi* i.e umbilical cord but after the birth these *Siras* do not exists so *Susruta* called them *Nabhiprabhava*. *Siras* originate from *Nabhi* such that they give appearance of spokes arising from the centre of wheel. <sup>[5]</sup>

For lymphatics and venous drainage umbilicus act as a watershed. Lymph and venous blood flows upwards above the plain of umbilicus, and downwads below this plane.these do not normally crossesumbilical plane.<sup>[6]</sup>

Aacharya Susruta in Sharira Sthana chapter 3 explained that Nabhi Nadi remain attached to Rasavaha Nadi of foetus and carries nutrition from mother to Garbha (foetus).

# NABHI AS A PITTA STHANA OR JYOTISTHANA

Pitta is one of the site of Pitta. According to Aacharya Susruta Vriddhi of Garbha occures due to Rasa and Marutaadhamana. [7] Nabhi is also called as Jyotisthana. Vayu blows this Jyoti Sthana i.e Nabhi due to which Vridhhi of Garbha occures. Vata in combination with Agni spreads in Srotasa of Garbha and expands them. [8] Aacharya Dalhan commented on word Maarutadhaman by saying that "Vata entering Srotasa (Sira) of foetus and cause their dilatation, thud provides growth for development of foetus. [9]

# NABHI AS A MAIN STRUCTURE OF GARBHA POSHANA

Vruddh Vagabhatta explained that when all Anga of foetus are developed, Nadi connect foetus to the Apara, which in turn is connected to mother Hrudaya. Aahara Rasa travels from mothers Hrudaya to foetus by passing through Dhamnis in Apara and then to Nabhi. After that it goes to Pakwasaya and their it is digested by Agni and nourishes all tisues. [10]

### NABHI AS CHAKRA

The *Chakras* are the seven wheels of energy in the body. The third *Chakra*, *Manipur Chakra* or also called as naval *Chakra*. It is situated in the region of *Nabhi*. The word *Mani* is described here in terms of *Agni*. [11]

### NABHI AS MARMA

Aayurveda described Marma with great importance as critical or vital points, injuries to them can cause serious effect even death.Nabhi Marma is one of the 107 Marmas describes by Aacharyas. It is situated in abdomen at the level between L3 –L4 vertebrae. It comes under Sadhyapranahara Marma, if injury to Nabhi Marma occures, it can lead to immediate death or death within 7 days. This is single in number. It is also describes in Mamsa Marma. [12]

### SIZE OF NABHI MARMA

*Aacharya Susruta* described *Pramana* of this *Marma* as "*Swapanitalakunhitasamitani*" i.e equal to one's own palm (4 *Angula*). [13]

### CLINICAL IMPORTANCE OF NABHI

Umblicus (*Nabhi*) is one of the important site of portocaval anastamoses. During portal hypertension these anastamoses open up.<sup>[14]</sup>

### **DISCUSSION**

- This article is an attempt to describe *Nabhi* as *Marma* and its clinical aspect in contrast with the modern by referring different *Samhitas* and modern textbooks of anatomy. By reviewing about different aspects of *Nabhi*, we come to the conclusion that *Nabhi* is structurally, functionally and pathologically is umbilicus.
- Nabhi is of great importance in our body. These following points shows the vital importance of Nabhi.
- Nabhi is called as moola of Sira and Dhamani.
   Nabhi is also considered as originating source of vesssels i.e Sira and Dhamani present between Aamashaya & Pakwsaya. Anatomically no vessels are seen to be originated from Nabhi but it is a important site for portocaval anastamoses.
- Nabhi is considered as Pitta Sthana may be due to
  its proximity to digestive system. Pitta plays an
  important role in digestion of food. Grahini is also
  located in the area of Nabhi or Pitta, Vikriti of Agni
  leads to Grahini Roga which also shows that Nabhi
  is Pitta Sthana. Gulma is also due to Vikriti of Agni

- & Nabhi is on of the site Gulma Roga.
- Nabhi is the main structure of Garbha Poshana. If we closely look at foetal circulation, blood vessels which carry nutrition from mother to foetus are present in umbilical cord. During foetallife Nabhi is main source of nutrition and so survival of foetus. If due to any reason this circulation is impaired in foetus, foetus may be born with defects and deformity, stunted growth.
- Nabhi is considered as site of Prana. According to the modern science oxygen is transported with the help of blood i.e RBC. Oxygen is Prana Vayu, since blood is transporting agent of Prana Vayu and it circulate through Nabhi in foetal life. so it does Jivan Karma. According to modern science oxygenated blood is transported through umblical vein from mother to foetus and enter to the foetus through umblicus, so it is considered as prana. [15]
- Umbilicus has a great clinical importance as it is important site for portocaval anastamoses. during portal hypertension these anastamoses open up as shows dilated veins radiationg from umbilicus called caput medusa.<sup>[16]</sup> it also justify the sentence that nabhi is surrounded y siras.
- Manipura chakra of the satchakra is also situatedin nabhi, it is also called as solar plexus. coeliac pleus largest autonomcplexus of the bodyis also called as solar plexus. it is situated in the centreof the body i.e at umbilical level. nerve fibres from coelic plexus radiate in all diretins thrugh the major abdominal organs.coeliac plexus is also called as abdominal brain due to its location and function. injury to celiac plexus can leads to pralysis of entire body or even death.it justifies that nabhiit a vital pont i.e marma & its injury may lead to deformity and death. [17]

Ghanekara also commented about nabhi mama that entire anterior abdominal wall is marma sthalabecause all essential organ are situated behind tha nabhi that's why injury to nabhi can leads to deformity and death. [18]

### **CONCLUSION**

Nabhi is considered as important structure in body as sira and *Dhamini* oignates from it like spokes of a wheel arises from the centre. During thr foetal life umbilical cord is attached to *Nabhi*. *Nabhi* is also considered as vital point i.e *Marma*. It is a *Sadhyapranahara Marma* & *Mamsa Marma*, injury to *Nabhi* leads to death immediately or within 7 days. *Nabhi* is also considered as site of *Prana* & it also act as a watershed for venous and lymphatic drainage and also is an important site for portocaval anastamose, that is why *Nabhi* hs a great anatomical and clinical importance.

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