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ROLE OF MASANUMASIKA PATHYA TO PREVENT GARBHA SHOSHA

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ABSTRACT

Pregnancy is a state of high nutritional demand. The diet taken by the pregnant women is utilised in three ways as said by the classics - For the nourishment of pregnant women, for the production of breast milk and the proper nourishment of the foetus. So, the health and growth of the foetus depend mainly on the diet and nutrition of the mother. With this viewpoint, garbhini paricharya is explained. A condition in our classics has been explained as 'Garbha Shosha' where there is retarded growth of the foetus in the womb. 'Aaharamaapnothi yathaa na garbhaha' is said as the nidana of garbha shosha by Acharya Charaka which states that this condition arises where the foetus is not provided with a nutritious diet through the mother. Acharya Vagbhata points out that vitiation of 'Rasavaha Srotas' happens in the same. Acharya Bhavamishra advised brimhana drugs with mamsarasa in this condition for nutrition. Strict adherence to masanumasika pathya may help in preventing garbha shosha by promoting the growth of the foetus.

Keywords: Garbha shosha, Diet, Nutrition, Brimhana, Masanumasika pathya

INTRODUCTION

The pregnancy outcome is determined by various factors including the nutritional status of the mother. Supplementation of mother's diet during pregnancy may

take the form of protein, vitamins or minerals that exceed her routine daily intake¹. Fetal growth and pregnancy demand additional nutrients. In the folklore talks, it is said that pregnant women should consume

the food, taking into concern, the satisfaction of two people. This is mainly on the fact that the fetus receives its required nutrition from a pregnant woman. Apart from the natural process of embryological development, the growth and development of the intrauterine fetus are highly influenced by the amount and quality of the food intake by the pregnant woman. The Institute of Medicine has approved the dietetics a pregnant lady should follow. The elemental charts prepared on the basic requirements of various supplements are essential in substantiating the importance of maternal diet. A various number of research studies conducted on the after-effects of the deficiency of any of the required components in the fetus prove once again the importance and necessity in the selection of ahara of a garbhini. The explanation of masanumasika pathya includes mainly dietary assistance and this substantiates the high importance of the nutritional supplementation of the pregnant woman.

GARBHA SHOSHA

As illustrated in our classics, garbha shosha is resulted due to inadequate nutrient supply to the fetus (Aaharamaapnothi yathaa na garbhaha)¹. This causes shosha to garbha. The condition is also addressed as 'vatabhipanna garbha'2. As understood from the term, the garbha is afflicted by vayu and attains shosha. Due to the vitiated vata, the rasavaha nadi, the carrier of nutrition from mother to child, undergoes shosha interfering in the process of nutrient transfer. Thus, the garbha is affected adversely. Due to the restricted growth, the size of kukshi does not increase evident by uterine size disproportionate to the gestational age. The spandana will be mild which is understood as reduced fetal movements. The vata dosha is mainly involved in this condition which is resulted due to kshaya and vice versa.

INTRAUTERINE GROWTH RESTRICTION³

Intrauterine growth restriction is said to be present in babies whose birth weight is below the 10th percentile of the average for gestational age. Growth restriction can happen in preterm, term or post-term babies.

Low birthweight - < 2500g

Very low birthweight - <1500g

Extremely low birthweight - <1000g

ETIOLOGY:

The causes of fetal growth restriction can be divided into four groups: Maternal-Fetal Placental Unknown

Maternal:

Constitutional—Small women, slim, low body mass index, maternal genetic and racial background are associated with small babies. These babies are not at increased risk. Pre-pregnancy maternal weight and weight gain during pregnancy are the two most important factors for fetal birth weight.

Maternal nutrition before and during pregnancy—Critical substrate requirements for fetal growth such as glucose, amino acids and oxygen are deficient during pregnancy. This is an important cause of IUGR in women with undernutrition.

Maternal diseases: Anaemia, hypertension, thrombotic diseases, heart disease, chronic renal disease, collagen vascular disease are the important causes.

Toxins—Alcohol, smoking, cocaine, heroin, drugs.

Fetal: There is enough substrate in the maternal blood and also crosses the placenta but is not utilized by the fetus. The failure of non-utilization may be due to—

- (1) Structural anomaly either cardiovascular, renal or others.
- (2) Chromosomal abnormality is associated with 8–12% of growth-retarded infants. The common abnormalities are triploidy and aneuploidy. Trisomies (13, 18, 21) and Turner's syndrome are commonly observed.
- (3) Infection TORCH agents (toxoplasmosis, rubella, cytomegalovirus and herpes simplex) and malaria.
- (4) Multiple pregnancies—There is a mechanical hindrance to growth and excessive fetal demand.

Placental:

The causes include cases of poor uterine blood flow to the placental site for a long time. This leads to chronic placental insufficiency with inadequate substrate transfer. The placental pathology includes Placenta previa, Abruption, Circumvallate, Infarction and Mosaicism.

Unknown: The cause remains unknown in about 40%.

Table 1: Types of IUGR

Symmetrical	Asymmetrical		
Body and head growth are similarly affected	Disproportionally lagging abdominal growth compared with head growth		
Due to early insult during 1st trimester	Due to late pregnancy insult		
Reduction in cell size and cell number	cell size and cell number Somatic growth shows delay while there is significant relative or absolut		
	sparring of the head growth		

IUGR results for many reasons. The main underlying pathology is placental insufficiency.

PREVENTION

Specific treatment for *garbha shosha* is illustrated in Ayurvedic classics. But the concept of *masanumasika pathya* might be very much beneficial in preventing

the restricted growth and promoting the *bala* of both *garbhini* and *garbha* not giving way for over nourishment as well.

Table 2: Masanumasika Pathya according to various Acharyas

Month	Charaka ⁴ / Vagbhata ⁵	Susrutha ⁶	Hareeta ⁷
I	Anupasamskrutha Ksheeram	Madhura – sheeta- dravaprayam aharam	Yashtimadhu/ Parushakam/ Madhupushpa+ navaneetha & madhu+madhura payas.
II	Madhuroushadha siddha Ksheeram	Madhura – sheeta- dravaprayam aharam	Kakoli madhuram payas
III	Ksheeram with madhu sarpi	Madhura – sheeta- dravaprayam aharam Shashtika odanam with payas	Krishara
IV	Ksheeram with akshamaatram navaneetham	Shashtika odanam with dadhi Payonavaneethasamsrushtam aharam jangalamamsasahitham Hridyam annam	Krithodanam
V	Ksheera sarpi	Shashtika odanam with payas Payonavaneethasamsrushtam aharam jangalamamsasahitham Hridyam annam Ksheerasarpi sam- srishtam	Paayasam
VI	Madhuroushadha siddha Ksheerasarpis	Swadamshtrasidha sarpis or yavagu	Madhuram dadhi
VII	Madhuroushadha siddha Ksheerasarpis	Prithakparnyadi siddha grutha	Grithakhanda
VIII	Ksheera yavagu sarpishmathim Asthapana and anuvasana basti (Vag)	Asthapana basti Anuvasana basti	Grithapoorakam
IX	Madhuroushadha siddha taila anuvasanam and pichu (Cha) Anuvasana taila pichu (Vag)		Vividha annaani

TRIMESTER I:

In the 1st trimester, where the formation of the *garbha* starts, *pathya aharas* that will help in the intrauterine

stay of the fetus is preferred. Since the cause for IUGR includes any kind of insult in the 1st trimester(symmetrical), the *garbhini* should be keen enough to restrain

from the *ahara* and *viharas* leading to the same, and at the same time, should rely upon a beneficial diet.

Acharyas advise the usage of Anupasamskrutha Ksheeram, Madhuroushadha siddha Ksheeram, Ksheeram with madhu sarpi, Madhura – sheeta- dravaprayam aharam, Shashtika odanam with payas, Yashtimadhu/Parushakam/Madhupushpa+ navaneetha& madhu+madhura payas, Kakoli madhuram payas, Krishara during the 1st trimester.

Acharyas have profoundly advised the usage of madhura rasa pradhana dravyas in ante-natal care. The madhura rasa is shareera satmya and is saptadhatu vardhana. Hence the drugs which possess madhura rasa is provided along with ksheera, the poshana to both the garbhini and garbha will be sustained and helps in preventing IUGR condition. Garbhashosha or other similar conditions has the predominance of vata by which the proper growth of garbha is adversely affected. The marutaghna property leads to the prevention of Vatavaigunya. Madhura rasa is brimhana, by which there will be an increase in body mass. Daha-murcha prasahamana properties help in relieving the physical fatigue suffering by pregnant women.

Ksheera is pathya to all age groups. It has madhura rasa and it possesses all the ten gunas of ojas, which indirectly signifies that ksheera is beneficial in ojovardhanam. Even though Acharyas mention ojas during the later months, the importance of ojas from the early stage has to be understood. Since 1st trimester is the period where the garbhini might encounter fatigue, nausea, etc. The murchagna jeevana gunas can help to counteract it to an extent. Susrutha acharya has mentioned garbhasrava in the 1st trimester. This is a period where the *garbhini* will be fighting with *srama*, glani, pipasa, tantra, etc. The usage of madhurasheeta-drava praya anna will help in restoring the dehydration signs of the woman. In the nidana of upavishtaka, yonisrava is included and this includes raktasrava also. The garbhasrava hara property of ksheera helps in preventing the occurrence of this condition. Milk is the best and most complete of all foods. Hence the usage of ksheera is encouraged till the completion of pregnancy. Milk is a good source of protein,

fat, sugar, carbohydrate, vitamins and minerals. As milk is a natural supplement of folic acid, the neural tube defects which are expected can also be minimised. Milk is also a source of vitamins, minerals and enzymes which are essential for fetal and maternal nourishment. The anaemia due to nutritional deficiency can be stabilized by the *panduhara* property of *ksheera*.

Both madhu and sarpi is having yogavahi guna. Both these have to be used in combination with ksheera which will help reach the properties of all three to the basic cellular level. Also, sarpi is smruti, buddhi, medo vardhana. The sarpi, which has a satisfying proportion of lipids, can cross the placental barrier and can have a direct effect on the garbha. As these are capable of crossing the blood-brain barrier, the stimulation of fetal brain tissues is made active. The administration of sarpis helps in increasing the sleshma of garbha as the garbha will be khedabhuta in 1st trimester which is sleshma. Sarva indriyas of the garbha will be developed in the 3rd month and the intake of madhura rasa will promote the indriyaprasadana. Ghee, which is rich in antioxidants aids in the absorption of vitamins and minerals from food processed with it, which is a unique quality.

As the pregnant woman is prone to morning sickness, and nausea during the 1st trimester and excessive vomiting cause deficiency of protein, energy vitamins and minerals, easily digested carbohydrate containing foods are usually tolerated best. Liquids are consumed more between meals. The *pathya* during the 1st three months satisfies these requirements.

TRIMESTER II:

Pathya aharas advised during the 2nd trimester are Ksheeram with akshamaatram navaneetham, Ksheera sarpi, Madhuroushadha siddha Ksheerasarpis, Shashtika odanam payonavaneethasamsrushtam aharam jangalamamsasahitham Hridyam annam Ksheerasarpi samsrishtam, Swadamshtrasidha sarpis or yavagu, Krithodanam, Paayasam, Madhuram dadhi

Sthiratva, mamsa-shonita upachaya and bala-varna upachaya of garbha happens during this period. The ojovardhana guna and rasayana guna will encompass

the symmetrical growth of all the body parts. As in asymmetrical IUGR, the abdominal circumference will be reduced than the head circumference due to the reduced size of the liver from diminished glycogen storage. The administration of *ksheera* along with *navaneetha* which is *balakaram*, *brimhana* and *shoshagnam*, *kshayapaham* may help in preventing the incidence of asymmetrical IUGR.

The agnideepana property of sarpi along with deepaneeya and aruchinashana of navaneetha will promote balancing the digestion, prevents anorexia and will enable the timely consumption of food by the pregnant woman. Garbhashosha, which can be considered the IUGR of the progressive stage, is the result of improper nourishment and these properties of the pathya aharas help in facilitating the proper nourishment to the garbha as well.

The *karsyapaha* property of *dadhi* will help in curing the milder degrees of restricted growth of the *garbha*. Due to the rapid growth of the fetal tissues during this period, the pregnant woman will be emaciated and will become *karsya*. Hence the woman should be supplied with sufficient protein-rich food for which Acharyas suggest the usage of *mamsarasa*, *shashtika shali odana*. If the *karsyatha* of *garbhini* continues, this will eventually lead into the *shosha* of *garbha*.

As the pregnancy progresses and reach the end of 2nd trimester, the fluid circulation becomes more complicated, and the pregnant woman may result in urinary tract infections or edema of the lower limbs. *Swadamshtra*, which has the properties of *mootravirechaneeya* and *shotha hara*, helps in continuing the normal circulatory pattern preventing the incidence of these pathologies. When the drug is processed along with *sarpis*, the property of the drug is enhanced along with which a few amounts of *grutha* will also be supplemented.

TRIMESTER III: Acharya Charaka and Vagbhata advise continuing the use of *madhuroushadha siddha ksheera sarpis* during the 3rd trimester also. Even though the fetus attained *sthiratwa*, *sarvanga avayava pravyakthi bhava* during the 7th month, the nutritional demand expressed by the fetus will be more. Hence the general *ksheera* and *sarpis* which is processed with

madhura oushadhis will be helpful in continuously providing the required nutrition. Prithakparnyadi siddha ksheera sarpis has the brimhana property and facilitates the further nourishment of the fetus-in-utero. As the woman enters the 8th month of pregnancy, till delivery, there is more chance of vata vikruti and it may adversely affect the status of ojas. The ahara and viharas advised during this period are mainly to prevent vata prakopa and thus makes the fetus stay inutero provided it completes the growth process without hindrance. Acharya Hareeta mentions the intake of vividha anna during this trimester as the women may need more strength during the tedious process of delivery.

CONCLUSION

An effort to understand the scientific concept of the masanumasika pathya in preventing garbha shosha is made here. As mentioned in the classics, the ahara taken by the garbhini sthree is beneficial in three ways; the nourishment to garbha and garbhini is the prime. The impairment in this action hinders the normal fetal growth process. Hence the garbhini has to plan her diet accordingly. The normal diet along with which the diets mentioned by the Acharyas which are rich in nutritious supplements will help in the proper growth of the fetus and the normal pregnancy period. Even though all the pathyas explained will not be able to cause a direct effect on the fetal tissues by crossing the placental barrier, these will help in improving the growth status by indirectly enhancing the health of pregnant women.

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