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Review Article

Title of Article: Review of The Concept of *Stanyakshaya* and its Management

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ABSTRACT

Breast milk is an elixir, a gift fromthe Almighty for little angels. Feeding a child is the most fulfilling and gratifying experience for a mother. The importance of breast milk is well explained in all branches of medical science. The child should be breastfed exclusively for the first six months after birth. Today, stanyakshaya (hypogalactia) or stanyanasha (agalactia) is a very common problem, especially with primiparous mothers. Consequently, it must be considered. In Asian and tropical countries like India, the prevalence of lactational deficiency could be 30 - 40%. Ayurveda acharyas consider stanyakshya to be a serious issue, and they have thoroughly described the condition, including the causal factors and management. Stanyakshaya is occurring due to psychological and somatic causes. Dhatukshaya and Agnimandya are the two major factors that lead to this condition. In Ayurveda, acharyas described severalstanyandajanana, stanyavardhaka drugs, as well as stanyavardhakaahaaras and viharas, which have been proven effective, safe, and of great significance over the ages. This paper makes an effort is made to describe the concept of stanyakshaya and its Ayurvedic management.

Keywords: Agnimandya, Dhatukshaya, Stanyakshaya, and Stanya naasha.

INTRODUCTION

Breast milk is considered the healthiest form of neonatal nutrition. Breast milk is the source of numerous health benefits to both mother and baby. Breastfeeding is the best way to care for a new child. Besides the overwhelming bond it creates, breast milk is also the perfect food for them. Breast milk is abundant in the nutrients that babies need for healthy growth and development, including the proper amounts of proteins,

carbohydrates, fats, immunoglobulin IgA, digestive enzymes, minerals, lymphocytes, antibodies, and water.WHO advises breastfeeding exclusively during the first six months of a baby's life.After that, when breastfeeding is continued for up to two years of age or longer, infants should receive nutritionally adequate and safe complementary food. *Ayurvedic* literature also provides a beautiful explanation of the value of breast milk and the advantages of breastfeeding.

However, due to changing lifestyles and poor eating habits, it has become clear that most new mothers have insufficient creation of breast milk. In *Ayurveda*, this condition has been described as *stanyakshaya*.

The secretion of 300 mL (10 ounces) everyday by day five and 480 mL (16 ounces) by day ten is considered adequate lactation. Also, if the baby is satisfied and sleeps for2–3 hours after breastfeeding, passing urine 6–8 times in 24 hours, and gaining weight, the mother is producing enough milk ⁽¹⁾. A normal-weight infant will not receive enough nutrition if these levels are not met, which is referred to clinically as a lactational deficiency. Globally, the prevalence of lactational insufficiency ranges from 23% to 63%, but it may be as high as 30–40% in Asian and tropical nations like India⁽²⁾.

Stanya is a Rasa Dhatu upadhatu formed from the sweet essence part of Rasa after proper digestion by the mother's jatharagni of food articles^(3,) The qualities of sthanya, a lactating mother's qualities, the advantages of breastfeeding for both mother and child, etc. are all thoroughly addressed in Ayurveda. Many Acharyas, including Charaka, Sushrutha, Vaghbata, Kashyapa, and Bhavaprakasha, describe the causes of SthanyaKshaya. Ayurvedic experts claim that the mother's psycho-somatic issues and her diet are what lead to SthanyaKshaya.

Lactation failure is a serious problem that needs to be addressed. Many medications, diets, and behavioral regimens are classified in *Ayurveda* as *Sthanyajanana* and are helpful in the treatment of *SthanyaKshaya*.

Goal and Objective

To do a conceptual study on *stanyakshaya* and its *Ayurvedic* management.

MATERIALS AND METHODS

The available literature on *stanyakshaya* comes from both *Ayurvedic* and modern sources.

Methodology: The concept of *stanyakshaya* and its Ayurvedic management is a review-based descriptive study.

A Literary Review of Stanyakshaya

The present study has much importance in the current scenario. Compared to previous years, the prevalence rate of lifestyle diseases and infectious disease outbreaksis much higher in the present world. Breast milk not only satisfies the baby's hunger but also plays an important role in overall health and immunity. The insufficient supply of breast milk negatively affects the growth and development of children. Nowadays, due to various reasons, stanyakshaya is very common in our

society. However, most of them are unaware of the long-term consequences, so they continue to do so asthey are. This topic and its effective *Ayurvedic* management strategies need to be explored.

Ayurvedic knowledge about breast milk is unique. A well-studied narration of the physiology of *stanya*, its quality, purity examinations, *dushti*, and *stanyakshya* is seen in every classic of Ayurveda. *Dugdha*, *Kshira*, *Payas*, *Stanya*, and *Balajivana* are synonyms of *Stanya*⁽⁴⁾.

Properties of normal breast milk:

Kashyapa, the father of *Koumarabhritya*, explained the qualities of breast milk. According to him, breast milk provides unimpaired strength, longevity, and sufficient growth and development for the baby. It can also ensure the development of a disease-free state and the comfort of a child and its mother⁽⁵⁾. The child's growth and development indices are the most accurate indicators of the quality and quantity of *stanya* from the mother.

As per *pramanasharira* in *Ayurveda*, the quantity of *stanya* is two *anjali*. The colour is *pandura* or *shakhavabhasa*. It has *madhura rasa* and *kashaya anurasa*, *which* smell like *madhu (madhugndhi)*, *laghu* in nature, which implies its ease for digestion, *seta veerya,madhura vipaka*, and *vatapitta samana* in nature⁽⁶⁾. In *Ayurveda*, a plain water test is used to determine breast milk's quality. When a drop of milk is put in plain water, if it forms a homogenous mixture, the milk is said to be pure⁽⁷⁾. According to modern science, breast milk is said to be species-specific, but Ayurveda places a strong emphasis on its specificity.

Stana Parikshana:

Darshana, sparshana, and prashna are the three methods of stana parikshana in Ayurveda. Darshana can be used to determine the shape of the breast. The breast develops completely during puberty, and stanapushti begins with ahar rasa during the antenatal period. In garbhavasta stana, twacha is peeta (yellow), but after labor, peetata is reduced and twacha returns to its normal color. Neelavarniya siras are more visible when there is more stanya. In normal stanya ashaya, the stanapurnatva can feel the stana. In stanyakshay, the breasts seem to be loose and lax Stana mlanta, Kinchit shushkatvam). Some information regarding milk production can be collected by asking questions of the mother⁽⁸⁾.

Physiology of stanya formation:

The successful development of lactation, according to the *Ayurveda* classics, happens three days following parturition. The *rasa* is formed as a result of food digestion. The sweet essence, a component of this *rasa*, reaches the breasts via the action of *vyana vata* and is

referred to as stanya. Rasa and stanya are both derived from the essence of rasa dhatu. This is the opinion of Acharya Sushruta. Acharya Bhavamisra and Yogratnakara have the same view. Acharya Charaka and Acharya Bhela explained the concept of garbhaposhana by stating that the aahara consumed by garbini has three purposes: Matrupushti, Garbhaposhana, and Stanapushti. Sushruta Acharya agrees with it as well.

According to Charaka, Stanya is nourished by rasadhatu. Sarangadhara regards stanya as a updhatu of rasa dhatu, with the latter passing through kshiravahisira and mixing with pitta before reaching Jathara. Agni digests it there, transports it to the breast's siras, and then it is expelled. Milk is the secretion that is associated with agni and soma. The blood, due to the action of pitta, gets suppurated and becomes white. When describing garbhaposhanain Astangasangraha, it is stated that stanya is formed from the ahara rasa itself. Both Raja and Stanya derive from the essence of rasa, with Stanya being theupadhatu of rasadhatu. As a result, the preceding description mentions the formation of stanya from ahararasa and rasa-dhatu. However, while describing the raktagulma, Maharshi Kashyapa states that some of the mother's blood nourishes the fetus's body parts, some are used to produce breast milk, and the remainder is used to nourish the mother's body. So he explains the formation of stanya from rakta. Furthermore, he explains that raja (blood) forms breast milk immediately after the birth of the fetus. The left-over part, in the form of blood, circulates in the body and yoni. The accumulated blood leaves the yoni at the appropriate time after replenishment of dhatu and body steadiness. So he explains how stanya is formed from raja. In Astanga Sangraha, Acharya Vagbhata describes that the channels of menstrual blood get blocked by the fetus. Therefore, no menstrual blood will flow. Thus blocked, it goes down the downward path that leads to the formation of the *apara*; some say it forms the jarayu. The blood that remains after the formation of the jarayu moves and is associated with kapha, which aids in the production of breastmilk, which is nourished by the food consumed by the women after delivery. So he describes how Stanya evolved from Raja. Bhela has included stanya among the ten pranayatanas. To conclude, according to different Acharyas, it is described as stanya, which is derived from Ahararasa Rasa, Rakata, and Raja.

Milk ejection mechanism:

Stanya bursts forth at the child's sight, thought, or touch (the sucking reflex). Even in the memories of children, cause stanya pravruti. After delivery on the 3rd or 4th day, the *dhamanis* or *siras* situated in the *Hridaya* region get

dilated and initiate milk ejection (the ejection reflex). According to Harita, the delivering woman's bearing-down efforts cause her *srotases* to clear, resulting in unexpected milk ejection. However, because of the *kapha* dominance, this milk is thick and should be discarded⁽⁹⁾. Bhavaprakasha, Madhavanidana, and Susruta all agree on the stanyapravrutti.

According to modern physiology, the effectiveness of lactation is primarily determined by two hormones. The anterior pituitary gland secretes prolactin to stimulate milk production, while the posterior pituitary gland secretes oxytocin to stimulate milk ejection. Prolactin is a purely somatic component, whereas oxytocin is primarily functional in relation to the subject's emotional state. psychogenic factors or even generalized sympathetic nervous stimulation throughout the mother's body can inhibit oxytocin secretion and thus depress milk ejection, which is a particular problem when nursing the baby. Colostrum (stanyapiyusha) is the first breast milk produced after giving birth.It is a viscous, lemon-yellow secretion from the breast that appears between the late third and fourth trimesters and the fourth day after birth. There are ninety known components in the colostrums, including immune factors and growth factors⁽¹⁰⁾.

Stanyakshaya and Stanyanassa

One of the most alarming conditions so far as a neonate's nutrition is concerned is lactation failure. So this topic was well studied by Ayurveda acharyas.

Nidana:

Along with the common overall debilitating factors of parturition, such as blood and energy loss, our Acharyas have identified additional risk factors. Excessive consumption of ruksha (dry edibles and drinks), langhan (fasting), karshana (emaciation), atyapatarpan (excessive fasting), annapana, and viharas, which cause vatavridhi, have a negative impact on stanya. The psychological and behavioral elements Krodha (anger), Shoka (grief), Bhaya (fear), Kaama (excessive coitus), and avaatsalya (lack of affection for the infant). Further thought to be contributing reasons for stanyakshaya Punagarbhadhaaran (re-pregnancy) and the practice of excessive shodhana karma (purifying methods used in excess). The next pregnancy will cause hormonal changes in a different pattern, resulting in lactation failure. which vitiate the milk qualitatively and quantitatively. Lack of sufficient stimuli (both psychic and somatic stimulation is required for effective lactation establishment) decreases the production and flow of milk at a considerable level. Some people will naturally have less milk or no milk, which includesswabhavika stanyakshaya, or stanyanasha.

Stanyakshaya Samprapti (pathogenesis):

In sutika, there is overall dhatukshaya awastha due to pravahanvedana (labor pains and bearing down efforts) and loss of rakta and kleda during prasava. As a result, she suffers from deficiencies in maamnsa, bala (strength), power). **Apathy** and agni (digestive sevana (atyaapatarpana, rukshaanna, shoka, bhaya, krodha) further complicates things. result, vatapradhanatridosha prakopa occurs, resulting in rasa dhatukshaya and, as a result, upadhatukshaya (stanyakshaya)(11). Emotionally oriented oxytocin release (the let-down reflex) in association with prolactin contributes to the proper production and sustenance of lactation. These psychophysical phenomena are well plotted in the Samprapti of Stanyakhaya.

Stanyakshayalakshana:

The Acharyas also included *stanamlaanata*(breast laxity) as a sign of *stanyaksha*ya in addition to the absence or reduction in *stanya*⁽¹²⁾.

Management of Stanyakshaya:

The etiological factors of stanyakshaya lead to rasakshaya; treatment should be directed toward normalizing rasakshaya.Rasadhatu and Sleshma are related through the Asrayaasrayi relationship. The Brimhana, Snigda, and Madhura treatments should be used as a result. Usesof Sleshmavardhaka dravyas (articles increasing sleshma or kapha), Sura (wine), Shaalianna, Maansa (meat), cow's milk, Sharkara (sugar), Asava, and Curd. The Practice of Milk production promoting diet, which includes Madhura (sweet), amla (sour), lavana (salt) rasa, meat soup, ksheerapaana (milk intake), ghrita taila, all leafy vegetables except siddharthaka, Naadishaka is cooked with jaggery, hingu, and jatiphala. Milk production is promoted by foods such as narikela (coconut), lashuna (garlic), palandu (onion), Yava (barley), wheat, shaali (rice, Oryza sativa), shashtika (a variety of rice harvested in 60 days), kanji (fermented sour drink), pinyaka (sesame seed paste), matasya (fish), kasherukashringataka, and all wines except sidhumadya(13).

Factors that promote lactation include:

The influence of psychological factors and the state of mind on breast milk production is already proven. Once you live with *Saumnasya* (joy), which means avoiding exertion and hard work, getting enough sleep, avoiding grief and fear, and remaining calm, composed, and concerned about the baby, you will have sufficient breast milk production. By getting into a pleasant mood, one can induce the posterior pituitary through the limbic system to get the maximum letdown reflex⁽¹⁴⁾.

Stanyajanana and Stanyavardhaka drugs

The *Ayurvedic Samhithas* have mentioned several drugs and formulations that have the quality to enhance breast milk include These include,

- Making a decoction from the roots of veeran, shaali, shashtika, ikshuvaalika, darbha, kusha, and kasha as well as gundra, itkata, and ktrina (all are different types of grasses). These drugs are together called stanyajananamahakashaya, which is explained in thedrugs containingksheera (apparent latex), such as gdugdhika.
- Milk is medicated with a decoction of *Stanya janana*.
- Milk infused with pippalimoola, shunthi, pathya (haritaki), maricha (black pepper), and guda. (15)
- Milk treated with vaajikaran medications also promotes lactation⁽¹⁶⁾.
- Milk is treated with a decoction made from the stem barks of latex-producing trees like *vata* and *udumbar*, among others. This milk *sauwarchala* is then mixed with cooked shaali and served with salt, jaggery, and ghee. Even in fully dry breasts, lactation is supposed to start with this preparation⁽¹⁷⁾.
- Milk flavored with a mixture of Vidaarikanda, Shringataka, and Vari (Shatavari) juice or powder.
- According to digestive capacity, pippali, pippalimoola, chavya, shunthi, yawanika, shweta, and krishanjirakas are administered, along with haridra, daruharidra, and sauwarchala salts prepared with kaanji. In addition to its galactogogue activity, this mixture also (18).

Sheetaveerya-madhuravipaka,ushnaveerya-

madhuravipaka, and ushanveerya-katuvipaka are some of the drugs with galactagogue action⁽¹⁹⁾. Most of the drugs are dhatunpushtikara, balya, and deepanapaachana in nature. Because of these properties, it can repair Rasa dhatukshaya, Agni mandhyata(Jatharagni and Rasdhatvagnimandhyata), and Stanavahasrotoavrodha, which are the somatic causes of stanyakshaya⁽²⁰⁾.

DISCUSSION

Compared to the past, women today produce significantly less breast milk than they did. Most mothers are concerned about fulfilling their infant's growth with their breast milk. Most women typically secrete one-third more breastmilk than their babies require. Yet, a variety of conditions could result in inadequate milk production while breastfeeding. Delayed breastfeeding and an extended period between feedings are the foremost causes of insufficient flow. Mothers rely on formula milk rather than breast milk because of their hectic lives. A poor latch (where the baby's lip is attached to the nipple) impairs the

infant's capacity of sucking and directly impacts the supply of breast milk. Modern lifestyles and food habits lead to nutritional inadequacy for mothers, which also causes breast milk insufficiency. Other contributing variables include lactational mastitis, the use of hormonal medications, smoking, drinking, consuming nicotine, and using oral contraceptives that include estrogen⁽²¹⁾. Like all other diseases stasnyakshaya also have stress or anxiety-induced pathology.

Stanya and Artava are upadhatus of Rasa. Upadhatus are, by definition, those that are nourished by the corresponding dhatus but do not themselves nourish other entities. When counseling a stanya kshaya patient, we frequently forget to ask certain questions or our minds wander, which doesn't lead to the best possible outcome for their treatment. To begin, it's important to understand the basics of rasa dhatu: only a properly constructed rasa dhatu can generate stanya that is both qualitatively and quantitatively healthy.

According to Kasyapa, stanya is created from rakta; following fertilization, a small amount of blood feeds a pregnant woman's breast milk. Rakthadhatu's ability to produce breast milk may be influenced by hormonal changes that occur during lactogenesis mammogenesis. Blood is the only medium for the circulation of hormones, and obviously, the blood carries the breast milk-producing hormone even though that upadhatucannot nourish other components of the body, the Raja does nourish Stanya. Raja, following the development of garbha, rises up to Stana, where, due to the activity of Pitta, Raja becomes Stanya after changing from red to a delicate white color. The "Piyusha (colostrum)" actually has this kind ofstanya. Anatomically, males have 4 adhogamidhamaniand 2 urdhwagamidhamanifor theshukravahana. In that two urdhwagamidhamanis are comparable to the female stanyavahadhamani, whilst four adhogamidhamanis are equivalent to the female artavavahidhamani. As Stanais the mulasthanaof Shukra, there must be a pathway for both streeshukra and artava to pass through in females; hence, obstructing aartav results in Vimargagamana of that which eventually reaches Stana. Hence, the pitta transforms it into Stanya physically. This is related to how reproductive hormones like estrogen, progesterone, prolactin, oxytocin, etc. contribute to the production of Stanya.

While going through the opinions of scholars, it is obvious that the mother's *ahara* and *vihara*play a major role in determining the quality and amount of *stanya*. Hence, *stanyakshaya* can be controlled by the using

of *aharas* and herbal medications, that have the ability to induce, sustain, or enhance milk production. As we discussed earlier, the cause of *stanyakhaya* can be classified into four categories. The *ahara* and *oushada dravyas*, which act on *rasadhatu kshaya*, *Agni mandya*, *stananyakshaya sroto avarodha*, and *Manasikabhava*, can effectively correct *stananyakshaya*.

CONCLUSION

The best gift a mother can offer her child is breast milk. For the mother, baby, and society as a whole, nursing has significant and long-term health advantages. Breastfeeding is the ideal feeding source for infants. The most frequent issue identified in our clinical practice is Kshaya. Stanyakshaya, Agni Mandhvata (Jatharagni and Rasdhatvagnimandhyata), vahasrotoavrodha, and Maansikabhava (shokabhaya avaatsalva) are the four main causes of this condition. Stanyakshayamay result in a nourishment and have an impact on the infant's general development as well as growth. By considering the psychic and somatic wings of lactating mothers, Ayurveda can manage this condition effectively and safely. Healthy lactating mothers can Stanyavardhaka and stanyajanakadrugs, especially in sutikaavastha, to increase breast milk production and regain bodily strength in addition to treating lactational insufficiency.

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