

# World Journal of Pharmaceutical and Life Sciences WJPLS

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## MANAGEMENT OF KIKKISA (STRIAE GRAVIDARUM) IN GARBHINI PARICHARYA (ANTENATAL CARE)

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Article Received on 23/01/2018

Article Revised on 13/02/2018

Article Accepted on 06/03/2018

SJIF Impact Factor: 5.088

### **ABSTRACT**

Motherhood is the crowning act in the feminine role of life. She cannot escape from the happenings occurring in reproductive age. Stretch marks are one such type of happenings that occurs at the time of pregnancy. Striae gravidarum are linear lesions that frequently appear during pregnancy and are commonly found in the abdomen and breast *Kikkisa* (striae gravidarum) occurs during 7<sup>th</sup> month of pregnancy with the main symptom of itching sensation. The fully manifested *kikkisa* creates more discomfort, disturbance of mood and lack of concentration in day-to-day activities. gravidarum, a physiological skin change is a cosmetic feel and discomfort needs medical measures. Ayurveda describes several treatment modalities against the *Kikkisa*. *Oushada sevana*, *parisheka*, *abhyanga*, *lepa*, *pathyapathya are* best-established therapies available for *Kikkisa*. In the present study the pathophysilology and treatment aspects of *Kikkisa* in view of gravidarum has been mentioned.

KEYWORDS: Striae gravidarum, Kikkisa, Oushada sevana, parisheka, abhyanga, lepa, pathyapathya.

#### INTRODUCTION

Ayurveda is science of life, which gives importance to both preventive and curative aspects of disease. Garbhini paricharya (Ante natal care) is the one which keeps the pregnant woman and fetus healthy. Physiological, hormonal and metabolic changes occur during pregnancy causes some of the ailments like striae gravidarum seen in about 90% of total women population. These are slightly depressed linear marks with varying length and breadth. Predominantly found on the abdomen, below the umbilicus some times over the thighs and breasts. Ayurveda explains the same as Kikkisa. It occurs in pregnant woman during 7th month. Growth of scalp hair of the fetus in 7th month, the mother gets vidaha resulting into development of Kikkisa.[1] In seventh month the fetus attains over all maturity, the woman feels excessively exhausted or has relatively more or loss of flesh and blood. The woman possessing two hearts (one of her own and other of the fetus) is called dauhrdini. [2] The desires of the fetus are expressed through the mother hence dauhrda should always be fulfilled. The fulfillment of dauhrda gives birth to a very handsome, valiant, intelligent and well-behaved child. Acharya Atreya, Chakrapani and Vagbhata describe elaborately the clinical features and treatment aspects.

#### MATERIALS AND METHODS

The present study is "A pathophysiological study of Kikkisa in comparison with Striae gravidarum in antenatal care and treatment modalities. Acharya Atreya says that the fetus displaces the doshas upwards thus these vata, pitta and kapha reaching uras produce burning sensation, which causes itching. The disease Kikkisa is the result of this itching. But Chakrapani opines that as these start developing from 3rd month itself. He uses the word "charma vidaranam" for this. vidaranam" (Ch.Sa.8/32 "Kikkisaccha charma Chakrapani teeka). According to Vagbhata at 7th month of pregnancy due to growing fetus the doshas reaches hrudaya and produce burning sensation and itching sensation. This produces Kikkisa. [3] Vagbhata includes burning sensation at palms and soles and the presence of lines on uru, sthana and udara. He says shooka kairieva poornatha. "Rekhakaara stakale prayo jayante te Kikkisasamgnaha" (A.H.sa1/58Arundattateeka). Bhela had same opinion as Charaka.[4]

## Samprapthi- Pathophsiology<sup>[5,6]</sup>

The fetus in the 7th month quickly develops in the womb to larger extent, it becomes nidana as it tends to produce pressure from within, and it produces *sanchaya* of *doshas* in the *koshta*. The *prakupitha doshas* undergo

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vimargagamana and moves upwards towards the uras produce the symptom vidaha. The doshas that move outwards from the innermost layer of the skin mamsadhara to the outer most avabhasini affect the manifesting the symptoms like kandu and charma vidarana. The vitiated pitta is seen to produce its effect first, causing vidaha and subsequently kandu which is due to vitiation of kapha. These two doshas when they vitiate the vaata to a greater extent and then produce vidharana of the twak. Hence three prakupitha doshas are subjected to prasara state in the sarva shareera which later take *sthana samshraya* in the *twak* there by taking away the praakrita features of it especially of the areas like uru, sthana and udara producing vidarana or sputana, giving it an appearance of wrinkle or vali and become vyakta as Kikkisa. The woman possessing two hearts (one of her own and other of the fetus) is called dauhrdini. The desires of the fetus are expressed through the mother hence dauhrda should always be fulfilled. The fulfillment of dauhrda gives birth to a very handsome, valiant, intelligent and well-behaved child.

## Physiological Changes during pregnancy<sup>[7]</sup>

Cutaneous changes: Pigmentation: The distribution of pigmentary changes is selective Face: (Chloasma gravidarum or pregnancy mask): It is an extreme form of pigmentation around the cheek, forehead and around the eyes. It may be patchy or diffuse, disappears spontaneously after delivery. Breast: Nipples and areola pigmented. Abdomen: Linea nigra: It is a brownish black pigmented area in the midline stretching from the xiphisternum to the symphysis pubis. The pigmentary changes are probably due to melanocyte stimulating hormone from anterior pituitary. However oestrogen and progesterone may be related to it as similar changes are observed in women taking oral contraceptives. The pigmentation disappears after delivery.

Striae gravidarum: Striae gravidarum occur in pregnant women in third trimester. These are slightly depressed linear marks with varying length and breadth. Predominantly found on the abdomen, below the umbilicus some times over the thighs and breasts. An incidence of 90% pregnant woman by third trimester and observed the high incidence is in fetal macrosomia, obesity, family history. The exact cause is not known but the responsible factors are mechanical stretching of the skin, Increase in aldosterone production but formation of striae more in fetal macrosomia, obesity and family history. Initially striae gravidarum are pinkish but after delivery the scar tissues contract and obliterate the capillaries and they become glistening white in appearance and are called striae albicans. In multiparous women, in addition to the reddish striae of the present pregnancy, glistening silvery white lines are present. These lines represent the previous striae are frequently seen. Individual hormones are responsible for many cutaneous changes during pregnancy. The changes are pigmentation, hair growth, striae over the abdomen.

**Manifestation:** Striae are formed with gross stretching of the skin with rupture of the elastic fibers present in dermis. At this point microscopic bleeding occurs along with the tissue inflammation, which gives us the raised reddish purple outlook of newly formed stretch marks. As the dermis is stretched, the outer layer of skin. The epidermis also stretches making it translucent enough that you can see the reddish purple stretch mark forming. As these marks heal, scar formation occurs. Signs- Red, pink or purple depressed atrophic bands or streaks.

Symptoms-Itching sensation, burning sensation. Distribution- Abdomen, buttocks and thighs.

Differential Diagnosis-Cushing's syndrome, cholestasis of pregnancy and prurigo gestationis.

Treatment-There is no specific treatment .Massaging the abdominal wall by lubricants like olive oil etc may helpful in reducing their formation. During Ante partum-Massage with the lubricants contains tocopherol, fattyacids, hyaluronic acid and during postpartum-Laser therapy and cosmetic surgery is indicated.

#### Treatment of Kikkisa

- **1.** Internal medication of following sets of medication useful in *Kikisa*.
- Butter treated with drugs of *madhura* group should be given to pregnant woman frequently in the dose of *panitala matra* (about 20gms) or else the butter medicated with decoction of stem bark of *badari* and *madhura* group of drug should be given. [8]
- b) Powdered stem bark of *sirisa*, flowers of *dhataki*, *sarshapa* and *madhuyasti*. [8]
- Pestled bark of Kutaja, seeds of Arjaka, Musta, and Haridra.<sup>[8]</sup>
- d) *Triphala* pested with the blood of *prsata* or *ena* (deer) and rabbit or only *prasata* deer or else *triphala* pestled with the blood of rabbit. [8,9]
- e) Water medicated with *punarnava*, flowers of *malati* and *madhuka* and mixed with blood of deer and rabbit. [8]
- f) Pesteled leaves of *varuna* with ghee or *Gomaya*. [8]

### 2. Lepa

- **a)** Expternal application of the Either the paste of *Chandana*, *Mrunala* or *Chandana* along with *Usheera* should be rubbed over the abdomen and breasts. [10]
- **b)** Oil prepared with pestled leaves of *karaveera* along or with *karanja*. [10,11]
- c) Pestled leaves of *nimba*, *badari* and *surasa* with *manjistha*. Oil is prepared by using these drugs and named it as "*Surasaadi tailam*". (A.S.sa 3/10) are very useful. [10,12]
- **3.** *Parisheka* **or irrigation** of abdomen and breasts should be done with decoction of either *patola*, *nimba*, *manjistha* and *surasa* or leaves and flowers of *malati* and

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*madhuka* or else repeated cleansing with decoction of *daruharidra* and *madhuka* should be done. <sup>[13]</sup>

- **4. Advise:** One should not scratch (in spite of urge for itching) to avoid disfigurement or skin stretching. If the itching becomes irresistible then above mentioned powders should be rubbed or an ointment or both should be taken with *chandana* which will suppress itching sensation due to its coolness.<sup>[13]</sup>
- *5. Pathya*: Mrudu, madhura, seeta veerya diet should be given. Diet should be sweet, capable of suppressing *vata*, either fat and salt free or with little quantity.<sup>[13]</sup>

#### DISCUSSION

Cosmetics play an important role in the women's life. Charaka while describing the Garbhini paricharya mentions the manifestation of Kikkisa in 7th month and its management. Kikkisa firstly expressed by vidaha (burning sensation) followed by kandu (itching) results in charma vidarana. Vidaha is due to vitiation of pitta, kandu is due to vitiation of kapha. Charma vidarana is due to vitiation of vata. Kikkisa can be correlated with striae gravidarum. Discomfort from itching sensation and cosmetic value from pigmentation, stretch marks etc are the initiation for treatment. Vitiated Vata Dosha causes Twak prasaran (stretching of skin), Pitta leads to Vidaah and Vaivarnya (burning and depigmentation) and Kaph causes itching and the combination of these changes as Kikkisa. In Ayurvedic classics therapies like oushada sevana, parisheka, lepa etc are available for Kikkisa. They are safe for both mother and fetus during pregnancy period. Lepa, urmardhana, and mardhana are a variety of abhyanga comes under Bahya snehana. Abhyanga is a process by which the person's body is oleated with medicated oil. Abhyanga with Snehana causes snigdhata, mruduta, dravata and picchilata in the body. Snehana karma, one of the shadupakramas mentioned in Ayurveda is an important method of purvakarma best treatment for vata disorders. Vayu dominates in the tactile sensory organ, and this sensory organ is loaded in the skin. The massage is exceedingly beneficial to the skin. The Ayurvedic treatment prevents the changes occurring during pregnancy. Abhyang, lepana internal medication shows the properties of anti pruritic, anti inflammatory and anti bacteria to prevent from secondary infections. Ayurvedic treatment modalities prevent the sequel of pathological changes like hypo pigmentation, scar formation, promotes the healing process and keep the luster of the skin.

## CONCLUSION

Kikkisa (striae gravidarum) is a condition of disfiguring cutaneous condition generally develops in the last trimester (after 28 weeks) of pregnancy in about 90% of cases. Ayurveda emphasizes the preventive aspects and treatment modalities during antenatal care. Ayurvedic formulation will relieve the burning sensation, and itching. Ayurvedic cosmotic drugs will reverse the

manifested stretch marks. Local application of herbal drugs and internal use of herbal formulation is safe to the motherhood and child.

#### REFERENCE

- 1. Sharma RK, Bhagawan Dash. Caraka Samhita (Eng.Translation) Vol.II (Sarira Stana Chap 8/32), Varanasi.Chaukhamba Sanskrit Series office, 485.
- 2. Srikanth Murthy K.R. Susruata Samhita (Eng trans) Vol.I Sareera stana,3/18 pp.38 Vranasi, Choukanbha press.
- 3. Pandit Kasinath Sastri, Astanga Hridayam (Hin. Translation) (Sarira Stana-Chap 1/58), Varanasi. Chaukamba Press, p-11.
- 4. Acharya Bhela, Bhela Samhita, Commentary By Dr. K.H. Krishnamurthy, Edited By Prof. P.V.Sharma, Chaukhambha Visvabharti, Varanasi, Reprint-2008, Sharir Sthana-8 Versus 6.
- 5. Pandit Kasinath Sastri, Astanga Hridayam (Hin. Translation) (Sarira Stana-Chap 1/57), Varanasi. Chaukamba Press, p-11.
- Tewari Premvati, Ayurvediya Prasutitantra Evam Striroga, Part-1, Chaukhambha Orientalia, Varanasi, 2009, Ch-5.
- 7. Text book of Obstetrics and Neonatology by Prof. C.S. Dawn; Dawn Books; 16th Edition, 2008.
- 8. Pandit Kasinath Sastri, Astanga Hridayam (Hin. Translation) (Sarira Stana-Chap 1/59), Varanasi. Chaukamba Press.p-11.
- 9. Pandit Kasinath Sastri, Astanga Hridayam (Hin.Translation) (Sarira Stana-Chap 1/61), Varanasi. Chaukamba Press.p-11.
- Pandit Kasinath Sastri, Astanga Hridayam (Hin. Translation) (Sarira Stana-Chap 1/60), Varanasi. Chaukamba Press.p-11.
- 11. Dhiman K. et. al. Efficacy of Karaveer Taila on Kikkisa (Striae Gravidarum): Ayu vol.30 (July-September) 2009. Pp. 295-99.
- 12. Sarita Verma, D. C. Singh, Ritu Singh, Rupesh Kumar Sanger. Manjistha (Rubia Cordifolia) as Cosmeceutical Remedy for Prevention of Striae Gravidarum. International Journal of Ayurveda and Pharma Research, 2017; 5(6): 60-65.
- 13. Pandit Kasinath Sastri, Astanga Hridayam (Hin. Translation) (Sarira Stana-Chap 1/61), Varanasi. Chaukamba Press, p-11.

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