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Review Article

REVIEW ON MALAHARA KALPANAS INDICATED IN VIPADIKA

Binusree Vijayan^{1*}, R. Rajam²

*¹PG Scholar, ²HOD & Professor, Department of Rasasastra and Bhaishajya Kalpana, Government Ayurveda College, Thiruvananthapuram, Kerala, India.

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ABSTRACT

Malahara Kalpana can be regarded as a traditional Ayurvedic ointment preparation. Depending on the intended application, these formulations usually have a base of Siktha taila together with powdered herbal, metallic, or mineral drugs. Beeswax and Tila taila are combined in a ratio of either 1:6 or 1:5 to make Siktha taila. Vipadika is one of the skin disorders that Malahara Kalpanas are used to heal. Vipadika, often referred to as cracked feet, is a common but neglected volar skin condition. It is characterized by Darana (cracks), Kandu (itching), and Vedana (pain). Due to its properties of oleation, cleansing, healing, and scar reduction, Malahara Kalpana is beneficial for treating Vipadika. This paper aims to discuss the possible actions of Malahara preparations indicated for the treatment of Vipadika.

INTRODUCTION

In Ayurveda, external application of medicines in the form of oil or paste of drugs has explained with much importance as that of internal administration of medicine. The application of medicines through topical routes of administration is called Bahi parimarjana *Chikitsa.* It plays a significant role in treating various dermatological conditions. The procedures such as Abhyanga, Sweda, Pradeha, Parisheka, Unmardana, and Udwartana, which are based on Sparshanendriya, are included in Bahiparimarjana Chikitsa.[1] Alepana (the application of paste of drugs) is regarded as the foremost procedure indicated for Bahirpramarjana due to its *Adyasameepatwa* (proximity to the intended location) and Sreshtatwa (superior quality).[2,3] And it is beneficial in reducing burning sensation, itching, pain and to improve skin complexion.

Although external applications are highly important, their cumbersome usage and short shelf life might discourage patients from using them. *Ayurveda*, since its ancient origins, has always been open to embracing new ideas for the well-being of patients. This openness to innovation may have laid the foundation for the development of various *Kalpanas*



beyond the basic Panchavidha Kashaya Kalpana. Among Bahi Parimarjana Chikitsa, Malahara Kalpana is unique and distinctive. The earliest use of the term "Malahara," derived from the Unani medicine term "Malaham," introduced was by Yogaratnakar.[4] Even though the term 'Malahara' is not mentioned in the Brihattravis, some of the external medicinal formulations contain nearly identical ingredients. Pinda Taila is an example. Although it is not named Malahara, it contains Sarjarasa, beeswax (Madhuchista), and Manjistha, and it has a semi-solid consistency.[5] Classical texts such as Yogaratnakar, Rasatantrasara & Siddhaprayoga Sangraha, Rasaratna Samuchaya, and Rasatarangini include references to various types of Malaharas.[6] The concept behind preparing this dosage form may be to ensure that the medicine remains in contact with the skin for the intended duration.

The dosage form was named Malahara because it removes debris (Mala) from ulcers (Vrana), abscesses (Vidradhi), and similar conditions. Malahara possesses properties such as Snehana, Sodhana, Ropana, Lekhana, and Varnya, depending on the drugs incorporated in it. Malahara contains two primary components, powdered ingredients to be incorporated, and a base usually made from beeswax and oil. Compared to other external dosage forms, this formulation is easy to apply, convenient to store, and has an extended shelf life. They are comparable to the ointments and creams found in modern pharmaceuticals. In the preparation of ointments, active ingredients, whether in powder form or as extracts, are incorporated into the base material through trituration or fusion methods. By assessing the fundamental properties of *Malahara*, it may prove effective in treating dermatological conditions marked by dryness and itching [7].

Vipadika

Vipadika is a common but neglected skin condition. In *Ayurveda*, it is considered as one among

the eleven *Kshudrakushtas* mentioned in Ayurvedic classics, with a dominance of *Vatakapha*. It is associated with *Darana*, *Kandu* and *Vedana* over both palm and sole or either. In *Caraka Samhita* and *Ashtanga Samgraha*, the condition is classified under *Asiti vatavikara*. *Susruta* mentions a comparable ailment named *Padadari*, categorized as a *Kshudraroga*, which is mainly affected by *Vata dosha*. Symptoms of *Vipadika* is given in table no.1.

Table 1: Symptoms of Vipadika

Caraka Samhita ^[11]	Susruta Samhita ^[12]	Ashtanga Hridayam [8]	Bhavaprakasa ^[13] Madhava Nidana ^[14]	Kashyapa Samhita ^[15]
 Pani pada sphutana Theevra vedana	Darana of Pada talaSarujaKanduDaha	 Pani pada dari Theevrarthi Manda kandu Saraga pitaka	Pani pada sphutanaTheevra vedana	 Sphutana of Pani, Pada angushta oshta and jangha Srava Vedana Avipakini

Based on the symptoms, Vipadika can be considered as cracking of feet or heel cracks. Cracking of feet or heel fissures are dermatologic condition characterized by disruption in the epidermis which extends to the dermis. Dryness of skin is the major cause for cracks on skin. The skin on the feet can become dry due to various factors such as low humidity, frequent exposure to water, or using harsh soaps. Dry skin can lead to the formation of calluses, which are thickened areas of skin that develop to protect the underlying layers. Standing or walking for long periods, especially on hard surfaces, increases pressure and friction on the heels, causing the skin to split. Thus, cracks on feet may develop and if left untreated, cracked feet can become painful, bleed, and even lead to infections.[10]

According to Ashtanga Hridaya, Vipadika treatment includes the external application of Ghritataila paka containing Sarjarasa and Madhuchishta and some herbal ingredients. [16] In Susruta Samhita indicates Siravedha, Snehana Swedana and Ghrita prepared with Madhuchishta, vasa, Majja and Sarja choorna. The treatment procedures mentioned by the Acharyas clearly indicates the importance of moisturization in Vipadika. To address the Rukshata caused by vitiated Vata, it is beneficial to use a Snigdha dravya.

Even though references about *Malahara* preparations are not available in *Brihatrayis*, ingredients such as *Taila*, *Ghrita*, and *Madhuchishta* are common for *Malahara* and for external applications in treating *Vipadika*. Therefore, *Malahara* appears to be a suitable choice for alleviating *Vipadika* symptoms. this paper aims to analyse the *Malahara* preparations mentioned in Ayurvedic classics for treating *Vipadika*.

MATERIALS AND METHODS

This review was conducted through a comprehensive literature search using various sources. Primary sources included authoritative Ayurvedic textbooks. Additionally, online databases and search engines like Google Scholar were utilized to gather relevant information. The collected data was carefully reviewed and analysed to compile the findings related to *Malahara* preparations for treating *Vipadika* as mentioned in Ayurvedic classics.

Ingredients and method of preparation of *Malahara*

Ingredients of a typical *Malahara* are *Siktham*, *Tilatailam* and *Dravya choornam*. In *Rastarangini*, the preparation named as *Siktha taila* is explained. *Sikthaka* (bees wax) along with *Tila taila* in specific ratio, after cooking produce a butter like product, which is called *Siktha taila*. The ratio of *Siktha* and *Tilataila* is 1:6 in cold climate and 1:5 in summer season. This *Siktha taila* is used as the base for formulation of *Malahara*. *Dravyas* in fine powder form used to incorporate in this *Sikthataila* at appropriate temperature and mixed it to form a uniform mixture.^[17]

Tila taila is of Madhura rasa with Tikta Kashaya Anurasas and Madhura Vipaka. It possesses properties like Guru, Snigdha, Suksma, Vyavayi, Visada, Sara, Vikasi and Ushna in Virya. Balya, Cakshushya, Dipana, Garbhasaya Sodhana, Keshya, Medhya, Sandhaniya, Snehana, Stanyajanana, Tvak prasadana, Vatahara, Vranaropana, Vranasodhana, and Vrshya are the Karmas of Tila taila.

Sikthaka, also named as Madhuchishta possesses the properties Mrudu and Susnigdha. It can pacify the aggravated Vata and is Bhutaghna, Vrana Ropaka, Bhagna Sandhana krit, Kushtajith, Visarpajith,

and *Raktavikarahara*. Thus, it is indicated in *Kushta*, *Visarpa* and *Bhagna*. The combination of *Sikthaka* and *Tilataila* in specific ratio as per season is used as the base of *Malahara Kalpana*.^[17]

Malaharas indicated for Vipadika Mriddara sringa malaharam^[18]

One Tola (12g) of Suddha mriddara sringa churna is mixed with one Pala (48g) of Siktha tailam in a glass plate and store it in glass bottle. It is mentioned as Twachva malahara param that is superior among malaharas intended for skin. It is indicated for fracture, Pama, Kandu, Vipadika, Vrana, and Gudamaya. Mriddarasrunga, categorized under Sadharanarasa. It is intended for external therapeutic purpose only. there's no references available regarding internal use. It possesses cooling properties (Sita guna) and balances Vata and Kapha doshas. Furthermore, it promotes hair growth (Keshya), darkens hair (Kesharanjana), heals wounds (Vranaropaka), aids in fracture healing (Bhagnasandhanaka), accelerate wound contraction (Sankochaka), and alleviates skin disorders (Twakdoshahara).

Sindooradya malaharam^[18]

Mix three *Karsha* (36g) of *Siktha taila* along with half *Karsha* (6g) *Tankana* and *Giri sindura* (6g) in a *Khalwayantra* (mortar). When it became homogeneously blend, the product obtained should be kept in a glass bottle.

Sindooradya malahara is a potent ointment prepared by combining 36 grams of Siktha taila, 6 grams of Tankana, and 6 grams of Giri sindura in a mortar and mixing them until homogenous. This formulation is considered excellent for draining pus from wounds, exhibiting antimicrobial (Bhutasanghata prasamana) and wound-cleansing (Vranasodhana) properties.^[18]

Tankana, possessing Katu, Ushna, Ruksha, Tikshna and Sara qualities, along with Ushna Virya, is traditionally used for a range of conditions, including liquefying Kapha, supporting heart health, strengthening the body, purifying and liquefying tissues, facilitating childbirth and menstruation, acting as an antidote, and treating mercury poisoning. It's indicated for ailments like syphilis (Phiranga Vrana), scabies (Pama), itching, wounds, fractures, and skin diseases.^[19]

Giri sindura, classified as a Sadharana Rasa, is exclusively for external use. It is known for alleviating minor skin ailments (Kshudra Kushta), benefiting the skin, cleansing wounds, purifying blood, and possessing antimicrobial action. It is indicated for external application in Pama, Vicharchika, Sidhma, and Visarpa. [20]

Therefore, *Sindooradyamalahara*, leveraging the properties of *Tankana* and *Giri sindura*, serves as a

valuable topical treatment for wound care and certain skin conditions. It is indicated for external application in *Pama*, *Vicharchika*, *Sidhma*, and *Visarpa*.

Second Sindooradya Malaharam[18]

Second *Sindooradya malahara*m is prepared by combining 36 grams of *Siktha taila* with 6 grams each of *Ralakam* and *Giri sindura* in a mortar and storing the mixture in a glass bottle. This *Malahara* is used to treat conditions like scabies (*Pama*), itching (*Kandu*), fractures, wounds, skin disorders, cracked skin, anal problems, boils, leprosy, and *Visarpa*.

Ralakam, also known as Sala, Sarja Niryasa, or Sarja rasa, is generally considered to be the resin of the Sala tree (Shorea robusta). According to Raja Nighantu, Rala possesses cooling (Sisira), unctuous (Snigdha), astringent (Kashaya), and bitter (Tikta) properties. It is used to pacify Vata and Pitta doshas and is indicated for spots, itching, and wounds. Another resin, derived from Vateria indica (Chandrus or Rala in Unani medicine), from the same plant family, is also commonly used. This Sarja or Rala is described as pungent (Katu), astringent (Tikta), hot (Ushna), and cooling (Hima). It is also unctuous (Snigdha), alleviates Vata, and is highly beneficial for skin conditions like itching and blisters (Visphota). [21]

DISCUSSION

No Malahara is mentioned in Brihatrayi. Even though it isn't called as Malahara, Pinda taila, explained in Vatarakta chikitsa is similar to Malahara in terms of ingredients, preparation technique, and consistency. The Unani medical system is the source of the concept of Malahara. The first Ayurveda book having references of Malahara kalpana is Yoga Ratnakara. Three essential ingredients are needed to prepare Malahara, an oil base, a binding base, and a powdered component The ratio of oil base, binding base and the ingredient varies from one Malahara to other. The quantity of ingredients and the season affect these variations. The ratio can be altered according to season.

Vipadika is a Vatakapha predominant Kshudra kushta associated with cracks, severe pain, and itching. It can be considered as crack foot or heel fissure based on the similarity in symptoms. The skin on the feet can become dry due to various factors such as low humidity, frequent exposure to water, or using harsh soaps. Dry skin can lead to the formation of calluses. which are thickened areas of skin that develop to protect the underlying layers. Standing or walking for long periods, especially on hard surfaces, increases pressure and friction on the heels, causing the skin to split. Cracks on feet may develop. If left untreated, cracked feet can become painful, bleed, and even lead to infections. In the presence of *Vipadika*, the hydration of the stratum corneum decreases, which may affect the skin's barrier function. To treat Vipadika, it is

important to maintain skin moisture and aid wound healing. Thus, applying external medication that prevents dryness and promotes wound healing will be beneficial in treating *Vipadika*. Thus, *Malahara Kalpana* the combination of oil and bees wax as base will be beneficial in case of treating *Vipadika*.

Using emollients for conditions like atopic dermatitis (AD) has been shown to improve skin barrier function by restoring hydration in the stratum corneum (SC) and reducing trans epidermal water loss (TEWL). Plant oils have been used for both cosmetic and medical purposes due to their numerous positive physiological benefits. Even without penetrating deeper layers of the epidermis, the occlusive effect of topical plant oil application helps to decrease water loss from the SC and regulates the proliferation of keratinocytes.^[22]

Tila taila (sesame oil) is extracted from the seeds of Sesamum indicum. These seeds are rich in lignans like sesamin, sesamolin, and sesaminol, which possess antioxidative properties. A clinical study by Shamloo et al. demonstrated that applying sesame oil topically can reduce pain severity and decrease the need for nonsteroidal anti-inflammatory drugs in patients with limb trauma. Additionally, sesame oil applied to the skin offers protection against UV radiation and positively impacts the hydration of the stratum corneum.^[23]

Beeswax forms a protective thin film on the skin's surface, covering it from external irritants and serving as an effective occlusive. Studies have demonstrated the effectiveness of beeswax-containing moisturizers in enhancing skin condition and maintaining the integrity of the skin barrier. Extensively used in cosmetic manufacturing, beeswax primarily acts as a thickener in occlusives. In topical applications, beeswax helps maintain skin hydration, reduces inflammatory symptoms linked to skin diseases, and alleviates the side effects of burns. Moreover, it possesses the ability to limit the overgrowth of the skin's natural microbes, thus preventing various tinea-related conditions. In addition to its medicinal benefits, beeswax is a staple in cosmetics, helping to shape products, add soothing properties, and enhance brilliance. Beyond its functional uses, beeswax is a cost-effective, natural ingredient.[24]

The other ingredients used in *Malaharas* for treating *Vipadika*, such as *Mriddara sringa*, *Giri sindura*, *tankana*, and *ralaka*, are commonly used for skin diseases and have wound healing properties.^[21] *Malahara* preparations extend the contact time of the medicine at the target site, offering improved shelf life, appearance, and patient compliance compared to other external dosage forms like *Churna* or *Pralepa*. Using *Malahara Kalpana* for *Vipadika* can potentially reduce

skin dryness and provide adequate moisture to the volar skin. The powdered ingredients incorporated in *Sikthataila* enhance the antimicrobial and wound healing properties of the *Malahara* preparation. Therefore, *Malahara Kalpana* is highly effective for treating *Vipadika*.

CONCLUSION

Even though Malahara kalpanas are not mentioned in Bruhattrayis, there are preparations similar to Malaharas in ingredients, method of preparations such as *Pinda taila*. Yoga ratnakara was first to incorporate Malahara kalpana to Ayurveda. Siktha taila the combination of beeswax and sesame oil in specific ratio is used as the base to incorporate medicinal powders. Beeswax can form a thin film on the skin surface and thus protect against many external irritants and is an effective occlusive also. Topical application of *Tila taila* (sesame oil) protects against UV rays and improves hydration of the stratum corneum. Tila taila also has pain-relieving and itchreducing properties. Increased skin hydration not only prevents skin cracks but also enhances transdermal absorption of medication. Additionally, with its increased contact time of medicaments, *Malahara* provides effective results at the site of action in treating Vipadika. Malahara preparations provide several advantages over other external dosage forms. They offer an extended shelf life, improved aesthetic appeal, and better patient compliance. These benefits make *Malahara* a more convenient and effective option for patients, enhancing the overall treatment experience and outcomes.

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*Address for correspondence Dr. Binusree Vijayan

PG Scholar,

Department of Rasasastra and Bhaishajya Kalpana,

Government Ayurveda College, Thiruvananthapuram, Kerala.

Email: binusreevijavan@gmail.com

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