# Pharmacolitical Resonation of Pharma

## WORLD JOURNAL OF PHARMACEUTICAL RESEARCH

SJIF Impact Factor 8.084

Volume 13, Issue 3, 284-305.

**Review Article** 

ISSN 2277-7105

# TRADITIONAL MUKHALEPA: ANCIENT WISDOM OF ENHANCING SKIN RADIANCE AND BEAUTY

Dr. Sabahat Anjum<sup>1</sup>\*, Dr. Monika Kunwar<sup>2</sup> and Dr. Shalini Varshney<sup>3</sup>

PG Scholar\*<sup>1,2</sup>, Associate Professor<sup>3</sup>

Ayurvedic and Unani Tibbia College and Hospital, New Delhi.

Article Received on 16 December 2023,

Revised on 05 Jan. 2024, Accepted on 25 Jan. 2024

DOI: 10.20959/wjpr20243-31082



\*Corresponding Author Dr. Sabahat Anjum

PG Scholar, Ayurvedic and Unani Tibbia College and Hospital, New Delhi.

#### **ABSTRACT**

Maintaining healthy and radiant skin in today's fast-paced world can be challenging due to environmental factors and lifestyle choices. Conventional cosmetics and skincare products, while promising to enhance appearance, often contain harmful ingredients that have adverse effects on health and the environment. In contrast, *Ayurveda*, an ancient holistic practice, offers a natural and sustainable approach to long-lasting beauty. Ayurvedic cosmetology recognizes that external beauty is a reflection of inner well-being, considering factors such as doshas, digestion, lifestyle, and mental state. A key component of Ayurvedic cosmetology is *Mukhalepa*, a facial rejuvenation therapy involving the application of herbal pastes, oils, and masks to nourish and revitalize the skin. This article aims to review and compile information on Ayurvedic *Mukhalepa* from classical Ayurvedic texts

and contemporary literature. Extensive research was conducted, referencing *Samhitas*, *Nighantus*, and other Ayurvedic texts, as well as modern articles. The focus is on simple herbal formulations recommended for external application, known as *Lepa*, exploring their ingredients, benefits, and their role in achieving a healthy and glowing complexion.

**KEYWORDS:** Mukhalepa, Lepakalpana, Ayurvedic cosmetology, Varnya and complexion.

#### INTRODUCTION

In today's society, there's a noticeable trend towards showcasing oneself, often fueled by social media and a culture that values external appearances. Many individuals seek beauty not only for personal satisfaction but also to align with societal standards or to gain recognition from their peers. But maintenance of healthy and radiant skin can be challenging due to

environmental factors and lifestyle choices. While current cosmetic products promise to enhance our appearance and confidence, many of them contain synthetic ingredients which may pose side- effects in individuals with sensitive skin. To achieve long-lasting beauty with minimal side effects, some turn to ancient holistic practices like Ayurveda. Ayurvedic cosmetology focuses on inner well-being, recognizing that external beauty is influenced by factors like individual's constitution (doshas), digestion (agni), daily lifestyle practices (dincharya & ritucharya), and mental state (satvabal). Its goal is to restore balance in these areas to enhance natural beauty and vitality. A key practice is Ayurvedic Mukhalepa, a facial rejuvenation therapy using herbal pastes, oils, and masks to nourish, cleanse, and revitalize the skin.

#### **AIM**

This article aims to review and compile detailed information about *Mukhalepa* explaining its concept and significance from classical Ayurvedic texts including *Brihatrayee & laghutrayee Samhitas, Nighantus* and other contemporary literature.

#### MATERIALS AND METHODS

A comprehensive search was conducted in classical Ayurvedic texts, including *Brihatrayee & laghutrayee Samhitas*, *Nighantus* and other Ayurvedic contemporary literature. Additionally, reliable Ayurvedic journals and modern research articles were explored to gather information on Ayurvedic *Mukhalepa*. The study focuses on identifying simple herbal formulations recommended for external application as Lepa, providing insights into the ingredients, its benefits, and its significant role in achieving a healthy and glowing complexion.

#### Ayurvedic Mukhalepa

*Mukhalepa*, derived from the Sanskrit words "*Mukha*" (face) and "*Lepa*" (application), is a therapeutic Ayurvedic practice that involves the application of herbal pastes, oils, and masks to the face. It is an integral part of Ayurvedic skincare and is designed to purify, nourish, and revitalize the skin while promoting overall well-being.

### Benefits of Ayurvedic Mukhalepa<sup>[1]</sup>

> Sukhalepanshilanam dhridam bhavati darshanam (Keeps Your Eyesight Strong):
Regular application of herbal face packs can indirectly benefit your eyesight. By maintaining good skin health, it reduces the risk of eye strain and fatigue, which helps in preserving vision.

- ➤ Vadanam Chaaparimlanam (Maintains a Radiant Face): Herbal face packs are known for their ability to nourish the skin deeply. They help in improving skin texture, reduces blemishes, and the herbal ingredients used in Mukhalepa possesses properties that soothes and rejuvenate the skin, making it radiant.
- > Shlakshanam (Keeps Your Skin Smooth): Herbal face packs have exfoliating and moisturizing properties which helps in the removal of dead skin cells. The herbal ingredients also soothe irritation and reduce redness, contributing to overall skin smoothness.
- > Tamrasopamam (Makes Your Face Look Fresh and Vibrant Like a Lotus Flower):
  By using herbal face packs daily, it helps to achieve a fresh and vibrant appearance, akin to the beauty symbolized by a lotus flower.

#### Types of Mukhalepa

Mukhalepa (face pack) has been classified mainly into three types i.e. Doshahara, Vishhara, varnakrita<sup>[2]</sup> on the basis of their therapeutic use -

- ➤ **Doshahara** (pacifies *Dosha*): This variety of *Mukhalepa* (face pack) includes drugs which shows their action directly on the *Doshas* responsible for various skin conditions and disorders such as acne, blemishes and inflammation. It often contains ingredients with antimicrobial, anti-inflammatory and soothing properties.
- ➤ Vishhara (abolishes poisonous effect): This variety of Mukhalepa (face pack) includes the drugs which counteracts the toxins and impurities directly at local level after application. It basically detoxifies the facial skin. It typically includes ingredients that have detoxifying, exfoliating, and pore-cleansing properties.
- ➤ Varnakrita (promoter of complexion): Varnya means "improving complexion" in Sanskrit. This kind of Mukhalepa Lepa (face pack) includes the drugs which focus on enhancing the complexion and promoting a radiant glow after application. It usually incorporates ingredients with properties that helps reduce pigmentation, aid in minimizing the effect of tanning, even out skin tone and imparts a natural luminosity to the skin.

#### General guidelines for application of Mukhalepa

1. In Ayurveda, it is recommended to apply *Mukhalepa* (face pack) against the direction of hair follicles, also known as *Pratilom*, on the skin.<sup>[3]</sup> This practice is believed to enhance the effectiveness and quicken the action of the application. An attempt is being

made to elucidate the rationale behind the Ayurvedic recommendation for applying *Mukhalepa* in "*Pratiloma*" direction:

- ➤ Increased Penetration: Applying *Mukhalepa* in a *Pratilom* or against the direction of hair follicles is believed to facilitate better penetration of the herbal ingredients into the skin. It is thought that this application technique helps the active compounds in the face pack reach deeper layers of the skin, allowing for enhanced absorption and efficacy.
- ➤ **Stimulation of Microcirculation:** Applying *Mukhalepa* against the direction of hair growth may stimulate microcirculation in the skin. The gentle friction created by the application technique can increase blood flow to the area, promoting better nutrient delivery and removal of waste products from the skin cells.
- ➤ Exfoliation and Detoxification: The *Pratilom* application method may also contribute to mild exfoliation and detoxification of the skin. The friction created during application can help remove dead skin cells, impurities, and toxins, leaving the skin feeling refreshed and rejuvenated.

#### 2. Thickness of the Mukhalepa

The thickness of *Mukha Lepa*, or the face pack, varies depending on its specific purpose. According to Ashtang Hridya, the recommended thickness is as follows<sup>[4]</sup>:

- *Doshaghna Lepa*: One-fourth (1/4<sup>th</sup>) angula pramana (0.48 cm)
- *Vishaghna Lepa*: One-third(1/3<sup>rd</sup>) *angula pramana*. (0.65 cm)
- Varnya Lepa: Half (1/2) angula pramana (0.97 cm)

Note: 1 Angula = 1.95 cm

#### 3. Method of application

Allow the *Lepa* to remain on the face until it becomes completely dry. This allows the herbal ingredients in the face pack to exert their beneficial effects. However, it is important not to leave the Lepa on for an extended period once it has dried, as it may lead to excessive drying of the skin.<sup>[5]</sup> Over-drying can potentially disturb the natural balance of the skin and affect its complexion.

When removing the dried *Lepa*, it is recommended to moisten it first. This can be done by applying water or a damp cloth to the face pack, softening it before gently removing it. Moistening the *Lepa* helps prevent any discomfort or irritation during the removal process.

- After removing the *Lepa*, it is suggested to anoint the face with oil. This practice helps moisturize and nourish the skin, preventing excessive dryness that may occur after the face pack application.
- ➤ In addition to the application and removal of *Lepa*, certain lifestyle factors are recommended to maintain skin health. These include avoiding day sleep, excessive talking, exposure to fire and sunlight, as well as managing emotions such as sorrow and anger.
- **4. Timing of Application:** Mukhalepa should not be applied at night nor should it be allowed to stay on the face after it has dried up.<sup>[6]</sup> The rationale and intent behind this valuable suggestion can be understood by considering the following perspective:
- Ayurveda emphasizes the importance of following the natural circadian rhythm of the body. Night time is considered a time for rest and rejuvenation for the body and the skin. Applying *Mukhalepa* at night may interfere with the natural healing and regeneration processes that occur during sleep.
- Allowing the *Mukhalepa* to stay on the face after it has dried up can lead to excessive drying of the skin. When the face pack dries, it can cause the skin to become tight and may even lead to discomfort or irritation. Removing the face pack in a timely manner helps prevent these issues.

Overall, the general recommendation is to apply *Mukhalepa* during the day, allowing it to remain on the face for the specified duration, and then gently remove it once it has dried up, ensuring that the skin is not excessively dried or irritated.

## General Characteristic of a good quality Mukhalepa<sup>[7]</sup>

- ➤ Uniform Mixing: The ingredients in *Mukhalepa* should be uniformly mixed to ensure a consistent formulation. This allows for even distribution of the beneficial properties of the herbs and ensures that each application provides the desired effects.
- > Sufficient Liquid Media: The preparation of *Mukhalepa* should involve the addition of sufficient liquid media to create a paste-like consistency. This ensures ease of application and helps the paste spread evenly across the face.
- ➤ **Smooth Paste:** Good quality *Mukhalepa* should have a smooth texture without any gritty particles. This ensures a pleasant application experience and prevents any abrasiveness that could potentially harm the skin.

- ➤ **Pleasant Odor:** Good quality *Mukhalepa* should have a pleasant odor. The natural fragrance of the ingredients should be appealing and not overpowering. This enhances the overall sensory experience during the application process.
- ➤ Cleansing Effect: When applied to the skin, *Mukhalepa* should produce a significant cleansing effect. It should help remove impurities, excess oil, and dirt from the skin, leaving it clean and refreshed.
- ➤ Adherent Coating: After application, *Mukhalepa* should form an adherent coating. This coating should stick to the skin without causing discomfort or irritation.
- ➤ Easy Removal: The *Mukhalepa* coating should be easy to remove either by gentle washing or by peeling. It should come off smoothly without causing any discomfort or leaving residue on the skin.

Underscoring the utmost significance of both effectiveness and safety, our perspective emphasizes that a premium *Mukhalepa* in the modern perspective of Ayurvedic cosmetology should showcase these following additional qualities:

- ➤ Natural and Authentic Ingredients: Good quality *Mukhalepa* should be made from natural and authentic ingredients. It should contain herbs, minerals, clays, oils, and floral extracts that are sourced from reliable and reputable suppliers. Using organic or wild crafted ingredients is preferred to ensure purity and minimize the presence of harmful chemicals or pesticides.
- ➤ Standardized Herbs and Raw Materials: The herbs and raw materials used in *Mukhalepa* should be standardized. Proper harvesting, drying, and storage techniques are crucial to preserve the potency and therapeutic properties of the ingredients.
- ➤ Standardized Manufacturing Processes: Good quality Mukhalepa should be manufactured using standardized processes as per guidelines to ensure consistency and quality control. This includes following proper hygiene practices, employing skilled artisans, packaging and labelling adhering to good manufacturing practises.
- ➤ **Minimized use of Synthetic Additives**: The use of synthetic additives, such as artificial fragrances, colors, or preservatives, should be minimized in making *Mukhalepa*.

➤ Safety and Sensitivity Testing: Good quality *Mukhalepa* should undergo safety and sensitivity testing to ensure that it is suitable for various skin types and does not cause any harmful side effects. This includes conducting demal toxicity test, Primary irritation patch tests and assessing potential allergy or skin irritations before using it in the human subjects.

By ensuring these properties in *Mukhalepa*, you can have a high-quality product that provides an effective and pleasant experience, promoting the desired benefits for the skin.

#### Contraindications of Mukhalepa

It should not be applied in the person suffering from

- *Pinasa* (Rhinorrhea)
- *Ajirna* (Indigestion),
- Immediately after Nasya karma (Nasal drops)
- Arochaka (Anorexia)
- Hanugraha (Lock jaw)
- Jagaran (After keeping awake the previous night). [8]

#### Herbal Drugs used for Mukhalepa in Ayurvedic Classics

Ayurvedic classics provide a generous amount of information about groups of drugs and individual herbs that have Varnya action, which can help improve the complexion of the skin. These drugs can be used both externally and internally to promote skin health and treat various skin ailments. Here's an overview of the types of drugs mentioned in Ayurvedic texts:

Charaka Samhita, one of the ancient Ayurvedic texts, mentions group of herbs namely *Varnya Mahakashaya* (complexion promoter drugs), *Kushthaghna Mahakashaya* (cures skin ailments) and *Kandughna Mahakashaya* (alleviate itching) that are known to have beneficial effects on the skin. These herbs are used to improve skin health, treat various skin conditions, and enhance the complexion. These herbs can be used in various forms both externally and internally such as powders, decoctions, oils, or pastes.

Table 1: Varnya Mahakashaya (Complexion promoter drugs<sup>[9]</sup>).

S. No.	Herbal drugs	<b>Botanical Name</b>	Family	Karma / Indication as per Bhavprakash Nighantu	Pharmacological Actions <sup>[10]</sup>
1	Chandan	Santalum album L.	Santalaceae	Kapha-Pitta shamak, Rakta Doshnashak, Indications: Daha, Visha	A paste is applied on burns, local inflammations and skin diseases (to allay pruritus). Essential oil—antibacterial, antifungal.
2	Tunga	Calophyllum inophyllum L.	Guttiferae		oil of seeds— specific for scabies and other skin diseases. Bark—juice pounded with water is applied in orchitis, and for dressing ulcers. Root bark— antibacterial, used for indolent ulcers. Leaf— for chicken pox, skin inflammations, scabies, sunburn.
3	Padmaka	Prunus puddum	Rosaceae	Kapha-Pitta shamak, Raktadoshnashak  Indication: Daha, Kushta, Visarpa, visphota, vrana	Recently, a new flavanone glycoside Puddumin-B, (naringenin-4-methyl-ether -7-O-β-D-galactoside) has been isolated from Prunus cerasoides <sup>[11]</sup> which exhibited anti melanogenesis activity by suppression of tyrosinase protein making it a

					suitable candidate for skin
4	Ushira	Vetiveria zizanioides L.	Poaceae	Kapha-Pitta shamak, Raktadoshnashak Indication: Daha, Visha, Visarpa, Vrana	whitening. [12] Commercially extracted Vetiver zizanoides essential oil (VZ-EO) exhibits significant antioxidant activity and suppresses the β- MSH-induced melanogenesis thereby decreasing melanin production through tyrosinase inactivation and the simultaneous suppression of oxidative stress in B16 melanoma cells. [13]
5	Madhuka	Glycyrrhiza glabra L.	Fabaceae	Vatpitta shamak Raktaprakopshamak, Varnakrit, Keshya Indication: Vrana Shotha Visha	Antiallergic, Anti- inflammatory. Topical preparations, containing glycyrrhetinic acid, are used for herpes, eczema, psoriasis.
6	Manjistha	Rubia cordifolia L.	Rubiaceae	Kapha shamak, Raktadoshanashak, Varnakrit Indications: Visha Shotha, Kushtha, Visarpa	Roots and dried stem— blood purifier, antiseptic
7	Sariva	Hemidesmus indicus L.	Apocynacea	Tridoshashamak, Aamdoshnashak Snigdha Indication: Visha	Blood purifier, antisyphilitic Roots used against leucoderma

8	Payasya	Ipomoea digitata L.	Convolvulaceae	Vata-Pitta shamak, Raktadoshnashak Varnya, snigdha Indiacation: Daha	Ksheervidari possess antimicrobial activity and hence using against skin infections, body malodour right from the ancient times itself. [14] Viji and Paulsamy (2016) found out different compounds having specific antimicrobial properties like, tetradecanal, E-15-Heptadecenal, Octadecanoic acid and 1-Docosanol methyl ether. Hexadecanoic acid and Hexadecan – 1 – ol trans -9 are the compounds with anti-inflammatory activities in milk yam tubers [15]
9	Sita	A variety of Cynodon dactylon L.	Poaceae	Kapha-Pittashamak, Raktavikarnashak  Jivani  Indication: Vrana, Visarpa, Daha	Grass-used in scabies and other skin diseases. Antiseptic properties
10	Lata	a variety of Cynodon dactylon L.	Poaceae	Kapha-Pittashamak, Raktavikarnashak  Jivani  Indication: Vrana, Visarpa, Daha	Grass-used in scabies and other skin diseases. Antiseptic properties

Table 2: Kushthaghna Mahakashaya (Drugs for curing skin ailments). [16]

S. No.	Herbal drugs	Botanical Name	Family	Karma / Indication as per Bhavprakash Nighantu	Pharmacological actions <sup>10</sup>
1	Khadira	Acacia catechu Willd,	Fabaceae- Mimosoideae	Kapha- Pittashamak, Raktavikarshamak  Indication: Kandu, Krimi, Vrana, Shwitra, Shotha, Kushtha	Root extract shows antibacterial and fungicidal activity Use of dried pieces of heartwood in inflammations, skin diseases and as a blood purifier.
2	Abhaya	Terminalia chebula Retz.	Combretaceae	Tridoshshamak Indication: Kushtha, Kandu, Shotha	Methanolic aqueous extract of the gall of Terminalia chebula has been found to have potent inhibitory activities against melanogenesis (39.3-66.3% melanin content) in B16 melanoma cells induced by α-melanocytestimulating hormone (α-MSH). Isoterchebulin had reduced the protein levels of MITF (microphtalmia-associated transcription factor), tyrosinase and its related proteins. [17]
3	Amalaka	Phyllanthus emblica Linn.	Euphorbiaceae	Tridoshshamak	A Study conducted to evaluate tyrosinase inhibitory activity of ethanolic and methanolic extract of āmlā has shown IC50 value of 247.37 ± 18.57 and 193.75 ± 44.90 respectively as they inhibit mRNA expressions of

					tyrosinase and its related proteins, proving its efficacy as a skin whitening agent. [18]
4	Haridra	Curcuma longa Linn.	Zingiberaceae	Kapha- Pittashamak, Raktavikarnashak  Varnya  Indication: Twagdosha, Shotha, Vrana	Blood-purifier, Anticutaneous
5	Arushkara	Semecarpus anacardium Linn.f.	Anacardiaceae	Vata- Kaphashamak Indication: Kushta, Shwitra Vrana.	Kernel oil— antiseptic; leucoderma, psoriasis and leprosy.
6	Saptaparna	Alstonia scholaris R.Br.	Apocynaceae	Kapha- Vatashamak, Raktadoshanashak Indication: Kushtha, Vrana, Jantu	Blood purifier.
7	Aragwadha	Cassia fistula Linn.	Fabaceae- Caesalpinoideae	Kapha- Pittashamak Indication: Kushta	The study shows that flower extract significantly increased collagen and HA synthesis in a dose dependent manner. The flower extract (50-200 µg/mL) also significantly inhibited collagenase and MMP-2 activity. Furthermore, this flower extract could inhibit the tyrosinase activity that causes hyperpigmentation, which induces skin aging. [19]
8	Karvira	Nerium odorum Soland.	Apocynaceae	Indication: Kushta, Kandu, Vrana,	Leaf- for skin diseases has been indicated.

295

				Krimi.	
9	Vidanga	Embelia ribes Burm.f.	Myrsinaceae	Kapha- Vatashamak Indication- Krimi	Used in diseases of chest and skin. The plant is also used for its blood purifying properties.
10	Jatipravala	Jasminum officinale L.	Oleaceae	Vatashamak, Raktavikarnashak  Indications: Kushtha, Visha, Mukharog	Plant— used for healing chronic ulcers and skin diseases

Table 3: Kandughna Mahakashaya (Alleviates itching). [20]

S. No.	Herbal drugs	Botanical Name	Family	Karma / Indication as per Bhavprakash Nighantu	Pharmacological Actions <sup>[10]</sup>
1	Chandan	Santalum album L.	Santalaceae	Kapha-Pitta shamak, Raktadoshnashak, Indications: Daha, visha	A paste is applied on burns, local inflammations and skin diseases (to allay pruritus). Essential oil—antibacterial, antifungal
2	Nalada	Nordostachys jatamansi DC.	Valerianaceae	Tridoshshamak, Raktaprakopnashak Indications: Daha Visarpa, Kushtha	Dry rhizomes - obstinate skin diseases, erysipelas.
3	Amalatas	Cassia fistula L.	Fabaceae	Pitta-Kaphashamak Indications- Kushtha	The flower extract significantly increased collagen and HA synthesis in a dose dependent manner. The flower extract could inhibit the tyrosinase activity that causes hyperpigmentatio n, which induces skin aging. [21]
4	Naktamala	Pongamia pinnata L.	Fabaceae	Kaphanashak	Oil—applied in scabies,

				Indications: Kushta, Vrana, Krimi	herpes, leucoderma and other cutaneous diseases. Juice is used for cleaning foul ulcers and closing fistulous sores.
5	Neem	Azadirachta indica A.Juss.	Meliaceae	Pittanashak Indications-Kushta, Snigdha, Krimi	Leaf, bark— antimicrobial, antifungal, anthelmintic, insecticidal. Measles, smallpox, head scald and cutaneous affections
6	Kutaj	Holerrhena antidysentrica Wall.	Apocynaceae	Kapha-Pittashamak Raktakopanashak Indications: Kushta	Bark—astringent, used in diseases of the skin
7	Sarshap	Brassica campestris L.	Brassicaceae	Kapha- Vatanashak Indications- Snigdha, Kandu, Kushtha, Krimi	studies showed that the Brassicaceae family has antioxidant activity and effects on the modulation of cyclooxygenase 2 and the nuclear factor kappa β (NFκβ) pathway. The secondary metabolites present in Brassicas are polyphenols (68.75%; n = 11), terpenes/carotenoi ds (31.25%; n = 5), and glycosylates (25%; n = 4), which are responsible for their anti-inflammatory,

					healing, and antioxidant effects. [22]
8	Yashtimadhu	Glycyrrhiza glabra	Fabaceae	Pitta-Vatashamak Raktaprakopnashak Varnya, Keshya, Snigdha Indications: Vrana, shotha, Visha	Topical preparations, containing glycyrrhetinic acid, are used for herpes, eczema, psoriasis.
9	Daruharidra	Berberis aristata L.	Berberidaceae	Kapha- Pittashamak, Raktavikarnashak  Varnya  Indication: Twagdosha, Shotha, Vrana	
10	Mustak	Cyprus rotundus Linn.	Cyperaceae	Kapha-Pittashamak Raktakopanashak Indications: Krimi	Methanolic extract of the plant stimulates the production of melanin in cultured melanocytes. (Plant extract is used in preparations used for pigmentation of skin and hair, also in suntan gels.)

In Sushruta Samhita, Eladi Gana is mentioned which is a group of herbs that possess various therapeutic properties including varnaprasadan karm and are known for their effectiveness in treating skin disorders.<sup>[23]</sup> Hence these herbs can be used individually or in combination as mukhalepa for enhancing skin complexion and treating various skin disorders. Herbs mentioned in the Eladi Gana group are Ela (Elattaria cardamomum), Tagar (Dalphinium brunonianum), Kushtha (Saussuria lappa), Mansi (Nordostachys jatamasi), Dhyamaka (Valariana pyrolaefolia), Twak (Cinnamomum zeylanicum), Patra (Cinnamomurn tamala), Nagapushpa (Mesua ferrae), Priyangu (Calicarpa macrophylla), Harenuka (Amomum subulatum) Vyagranakha (Helix aspera), Sukti (Acalina fulica), Chanda

(Angelica archangelica), *Sthauneyaka* (Taxus baccata), *Sriveshtaka* (Pinus roxburgi), *Chocha* (Cinnamomum Cassia), *Choraka* (Angelica glauca), *Valuka* (Valanana hardwickki), *Guggulu* (Commiphora mukul), *Sarjarasa* (Shorea robusta), *Turushka* (Styran officinalis), *Kunduraka* (Boswellia serrata), *Agaru* (Aquillaria agallocha), *Spirika*(Delphinium zalil), *Bhadradaru* (Cedrus deodara), *Kumkuma* (Crocus sativus), *While Usheer* (Vetiveria zizinoidis) and *Punnagakesar* (Callophyllum inophyllum) are also included in Varnya Mahakashaya in Charak Samhita.

#### Seasonal Herbal Drugs for Mukhalepa

In **Ashtang Hridya Samhita**, the detailed description of different Mukhalepa based on various seasons is its major contribution.<sup>[24]</sup> These formulations highlight the cosmetic value of Lepa and provide insights into the specific ingredients recommended for each season. Ingredients of these Lepas, which are indicated in different seasons, are given as under mentioned:

- \* Hemanta Ritu (Early winter season): Kolamajja (Zizyphus jujuba), Vasamoola (Adhatoda vasica), Sabara Lodhara (Symplocos racemosa), Gaurasarshapa (Brassica Campestris)
- ❖ Sisira Ritu (Late winter season): Simghimoola, Krishnatila (Sesamum indicum),

  Darvitvak (Berberis aristate), Nistusha Yava (Hordeum vulgare)
- Vasant Ritu (Spring season): Darbhamoola (Desmostachya bipinnata), Chandana (Santalum album) Useera (Vetiveria zizanoides), Sireesha (Albizia lebbeck), Misi (Foeniculum Vulgare), Tandula (Amaranthus spinosus)
- Grishma Ritu (Summer season): Kumuda (Nymphaea alba), Utpala (Nymphaea nouchali), Kalhara, Doorva (Cynodon dactylon), Madhuka (Glycyrrhiza glabra), Chandan (Santalum album)
- Varsha Ritu (Rainy season): Kaliyaka (Berbris aristata), Tila (Sesamum indicum), Useera (Vetiveria zizanoides), Mamsi (Nordostachys jatamansi), Tagara (Valeriana officinalis), Padmakh (Prunus cerasoides)
- ❖ Sarad Ritu (Autumn season): Taleesapatra (Abies webbiana), Gundra (Typha angustata), Pundarika (Neelumbo nucifera), Yashtimadhu (Glycyrrhiza glabra), Kasha (Saccharum spontaneum), Tagar (Valeriana officinalis), Aguru (Aquilaria agallocha).

# Common herbal formulations used as *Mukhalepa* (Facepack) for enhancing skin complexion and to treat skin ailments in Ayurvedic contemporaries.

S.no	Mukhalepa	Indications	Reference
1.	Arjuna stem bark with Milk <sup>[25]</sup>	Vyang	Ashtanga Hridaya- Uttarasthana - 32/16
2.	Manjishtha with madhu <sup>[26]</sup>	Vyang	Ashtanga Hridaya- Uttarasthana- 32/16
3.	Mukhkantivardhak lepa (Rakta chandana, Manjishta, Kushta, Lodhra,Priyangu, Vatankura,Masura) <sup>[27,28,29]</sup>	Vyang,	Ashtanga Hridaya- Uttarasthana 32/17 Chakradatta- 55/43-44 Sharangdhara samhita Uttarkhand -11/9
4.	Jeerak ( Krishna or shweta), Krishna til, sarshap with milk <sup>[30]</sup>	Vyang, Lanchan, Mukhkantivardhak	Ashtanga Hridaya- Uttarasthana 32/18
5.	Masur with milk, ghee & madhu <sup>[31]</sup> Shalmali kantak with milk <sup>[32]</sup>	Vyanga	Ashtanga Hridaya- Uttarasthana- 32/19 Chakradatta- 55/46-50
6.	Fried & dehusked <i>Masura</i> with milk [33]	Vyanga	Ashtanga Hridaya- Uttarasthana- 32/19
7.	Tender leaves of <i>Jambu &amp; Amra Haridra dwaya</i> , <i>Mastu</i> with fresh jaggey <sup>[34]</sup>	Vyanga	Ashtanga Hridaya- Uttarasthana- 32/22
8.	Paste of <i>Tinduka</i> mixed with its own juice <sup>[35]</sup>	Vyanga	Ashtanga Hridaya- Uttarasthana- 32/22
9.	Paste of <i>Lodhra dhanyaka &amp; vacha</i> <sup>[36]</sup>	Yuvanpidika	Chakradatta-55/40
10.	Paste of <i>Marich</i> mixed with gorochan <sup>[37]</sup>	Yuvanpidika	Chakradatta- 55/40
11.	<i>Arjuna Bark</i> or <i>Manjishtha</i> with madhu <sup>[38]</sup>	Vyanga	Chakradatta55/42
12.	Kola phala beeja majja & jaggery with butter, honey <sup>[39]</sup>	Vyanga	Chakradatta- 55/52
13.	Varuna twak with goat's milk <sup>[40]</sup>	Vyanga	Chakradatta- 55/47
14.	Paste of <i>Jatiphala</i> <sup>[41]</sup>	Nilika, Vyanga	Chakradatta- 55/48
15.	Paste of Kaliyak, nilotpala, kushtha, supernatant layer of curd ,badar, priyangu, [42]	Makes face like moon	Chakradatta- 55/49
16.	Dehusked barley, <i>yashtimadhu</i> and <i>lodhra</i> <sup>[43]</sup>	Complexion enhancer	Chakradatta-55/50
17.	Mustard, <i>haridra</i> , <i>daruharidra</i> , <i>manjishtha</i> , red ochre, ghee and goat's milk <sup>[44]</sup>	Complexion enhancer	Chakradatta- 55/51
18.	Mature curd, sarapunkha, nilotpal(petals), kushtha, chandana, usira paste <sup>[45]</sup>	Improves facial luster and destroys wrinkles and tilakalaka	Chakradatta- 55/52
19.	Sarso, vacha, lodhra, sendhanamak paste <sup>[46,47]</sup>	Yuvan pidika	Chakradatta-55/41 Sharangdhara samhita Uttarkhanda- 11/12

20.	Vata pandu patra, malti patra, raktachandana, kutha, kaliyaka and lodhra <sup>[48]</sup>	Tarunyapitika, vyanga, Nilika	Sharangdhara samhita Uttarkhanda alepa 11/14-15
21.	Arka sheer and haridra lepa <sup>[49]</sup>	Mukhkarshya	Bhavprakash ,madhyam khand - 61/42
22.	Paste of arjun chal, manjishtha & vasa patra <sup>[50]</sup>	Vyang	Yogratnakar , uttarardha shloka 8

#### **DISCUSSION**

The discussion highlights the significance of face and beauty which is deeply rooted in human society and culture. The face is often considered the most visible and expressive part of the body and beauty is highly valued in many societies Ayurveda recognizes the significance of maintaining a healthy and radiant appearance, and practices like Mukhalepa (face packs) are aimed at enhancing natural beauty and skin health. The application of Mukhalepa (face packs) on the skin plays a vital role in delivering therapeutic effects and improving the bioavailability of drugs by bypassing liver metabolism. This direct application allows for targeted action at the site of treatment.

Commercial cosmetic products, laden with artificial and chemical components, often contain excessive synthetic additives and preservatives. These can deplete the skin's natural oils, leaving it dull, disrupting its balance, and diminishing its radiance and elasticity over time. In contrast, Ayurvedic skincare relies on plant-based ingredients, believed to nourish the skin and enhance its radiance and elasticity without adverse reactions. Mukhalepa, an Ayurvedic practice, is effective against issues like acne, hyperpigmentation, wound healing, leukoderma, and scars. It is a social responsibility to explore Ayurvedic herbs for skincare, with careful consideration of individual skin types and needs. Precision in ingredient selection is vital for the success of Mukhalepa therapy.

#### **CONCLUSION**

In summary, Mukhalepa offers a natural and holistic approach to skincare, enabling individuals to maintain a healthy and beautiful face. Mukhalepa, have the potential to enhance fairness and smoothness, as well as address issues like wrinkles, dark circles, acne, leucoderm, wound healing and pimples. Mukhalepa serve a dual purpose of prevention and cure for various skin problems. They act as helpful measures to maintain skin health, to prevent the occurrence of skin issues and also serve as curative treatments for existing skin problems. By embracing natural substances and understanding one's skin type, the potential

benefits of Mukhalepa can be harnessed to improve skin health, prevent skin problems, and enhance overall complexion and beauty.

While Ayurveda has already achieved great knowledge in the field of Lepakalpa during the Samhita era, there are ample opportunities for further advancements in both therapeutic and cosmetic applications by integrating current science and technology. This allows for the development of more effective and refined approaches to Lepakalpa, aligning traditional Ayurvedic wisdom with modern advancements.

#### **REFERENCES**

- 1. Tripathi Brahmanand, Ashtanghridaya, (Sutrasthan 22), Nirmala Hindi Commentary, Delhi, Chaukhamba Sanskrit Pratishthan, 2007; 259-260.
- 2. Tripathi Brahmanand, Sharangadhar samhita, (Uttarakhanda 11), Deepika Hindi Commentary, Varanasi, Chaukhamba Surbharti Publication, 2010; 391 393.
- 3. Shastri Ambikadutta Kaviraja, Sushruta samhita, (Sutrasthan 18), Ayurveda tatva sandipika Hindi commentary, Varanasi Chaukhamba Sanskrit Sansthan, p 96.
- 4. Tripathi Brahmanand, Ashtanghridaya, (Sutrasthan 22), Nirmala Hindi Commentary, Delhi, Chaukhamba Sanskrit Pratishthan, 2007; 259-260.
- 5. Brahmanand, Ashtanghridaya, (Sutrasthan 22), Nirmala Hindi Commentary, Delhi, Chaukhamba Sanskrit Pratishthan, 2007; 259-260.
- 6. Tripathi Brahmananda (Uttarakhanda 11), Sharangadhara Samhita of Pandit Sharangadharacharya, containing Anjananidana of Maharshi Agnivesha, with Dipika Hindi Commentary, Chaukhambha Surabharati Prakashana, Varanasi, 2013; 259-264.
- 7. Shukla Anupama, Kothari Pankaj, Shukla Akhilesh, CR Yadav, An Ayurvedic Outlook to Mukhalepa, Global Journal of Research on Medicinal Plants and Indigenous Medicine, 2016; 5(6): 194-202.
- 8. Tripathi Brahmanand, Ashtanghridaya, (Sutrasthan 22), Nirmala Hindi Commentary, Delhi, Chaukhamba Sanskrit Pratishthan, 2007; 259 260.
- 9. Dr Chaturvedi Nath Gorakh, Pdt Shastri Kashinath(Sutrasthan 4), Vidyotini Hindi Commentary, Varanasi, Chaukhambha Bharti Academy, Edition 2008, Pg 78.
- 10. C.P. Khare, Indian Medicinal plants 2017 ISBN: 978-0-387-07637-5 Springer-Verlag Berlin/Heidelberg.
- 11. Jangwan JS, Bahuguna RP. Puddumin-B, a new flavanone glycoside from Prunus cerasoides Informa Healthc Pharm Biol., 1989; 27: 223–6.

- 12. Murata K, Takahashi K, Nakamura H, Itoh K, Matsuda H. Search for skin-whitening agent from Prunus plants and the molecular targets in melanogenesis pathway of active compounds Nat Prod Commun., 2014; 9: 185–8.
- 13. Peng HY, Lai CC, Lin CC, Chou ST. Effect of Vetiveria zizanioides essential oil on melanogenesis in melanoma cells: Downregulation of tyrosinase expression and suppression of oxidative stress Scientific World Journal, 2014; 2014: 213013.
- 14. Jain, S. K. (1991). Dictionary of Indian Folk Medicine and Ethnobotany, Deep publications, New Delhi, India.
- 15. Viji, Z. & Paulsamy, S. Phyto constituent analysis and GC MS profiling of tubers of Ipomoea mauritiana Jacq. (Convolvulaceae). International Journal of Recent Advances in Multidisciplinary Research, 2016; 3(3): 1345 1349.
- 16. Dr Chaturvedi Nath Gorakh, Pdt Shastri Kashinath(Sutrasthan 4), Vidyotini Hindi Commentary, Varanasi, Chaukhambha Bharti Academy, 2008; 81.
- 17. Manosroi A, Jantrawut P, Ogihara E, Yamamoto A, Fukatsu M, Yasukawa K, et al Biological activities of phenolic compounds and triterpenoids from the galls of Terminalia chebula Chem Biodivers, 2013; 10: 1448–63.
- 18. Sripanidkulchai B, Junlatat J. Bioactivities of alcohol based extracts of Phyllanthus emblica branches: Antioxidation, antimelanogenesis and anti-inflammation J Nat Med., 2014; 68: 615–22.
- 19. Limtrakul P, Yodkeeree S, Thippraphan P, Punfa W, Srisomboon J. Anti-aging and tyrosinase inhibition effects of Cassia fistula flower butanolic extract. BMC Complement Altern Med., 2016 Dec 3; 16(1): 497.
- 20. Dr Chaturvedi Nath Gorakh, Pdt Shastri Kashinath(Sutrasthan 4), Vidyotini Hindi Commentary, Varanasi, Chaukhambha Bharti Academy, Edition, 2008; 82.
- 21. Limtrakul, P., Yodkeeree, S., Thippraphan, P. et al. Anti-aging and tyrosinase inhibition effects of Cassia fistula flower butanolic extract. BMC Complement Altern Med., 2016; 16: 497.
- 22. Mattosinhos PDS, Sarandy MM, Novaes RD, Esposito D, Gonçalves RV. Anti-Inflammatory, Antioxidant, and Skin Regenerative Potential of Secondary Metabolites from Plants of the Brassicaceae Family: A Systematic Review of In Vitro and In Vivo Preclinical Evidence (Biological Activities Brassicaceae Skin Diseases). Antioxidants (Basel), 2022 Jul 10; 11(7): 1346.
- 23. Shastri Ambikadutta Kaviraja, Sushruta samhita, (Sutrasthan 38), Ayurveda Tatva sandipika Hindi commentary, Varanasi Chaukhamba Sanskrit Sansthan, p 185.

- 24. Tripathi Brahmanand, Ashtanghridaya, (Sutrasthan 22), Nirmala Hindi Commentary, Delhi, Chaukhamba Sanskrit Pratishthan, 2007; 259-260.
- 25. Tripathi Brahmanand, Ashtanghridaya, (Uttarsthan 32), Nirmala Hindi Commentary, Delhi, Chaukhamba Sanskrit Pratishthan, 2007; 1121.
- 26. Tripathi Brahmanand, Ashtanghridaya, (Uttarsthan 32), Nirmala Hindi Commentary, Delhi, Chaukhamba Sanskrit Pratishthan, 2007, pg 1121
- 27. Tripathi Brahmanand, Ashtanghridaya, (Uttarsthan 32), Nirmala Hindi Commentary, Delhi, Chaukhamba Sanskrit Pratishthan, 2007; 1121.
- 28. Sharma Priyavrat, Chakradatta (Shudrarogadhikar 55), Varanasi, Chowkhamba publishers, Edition, 2007; 439 440.
- 29. Tripathi Brahmanand, Sharangadhar samhita, (Uttarakhanda 11), Deepika Hindi Commentary, Varanasi, Chaukhamba Surbharti Publication, 2010; 391 393.
- 30. Tripathi Brahmanand, Ashtanghridaya, (Uttarsthan 32), Nirmala Hindi Commentary, Delhi, Chaukhamba Sanskrit Pratishthan, 2007; 1121.
- 31. Tripathi Brahmanand, Ashtanghridaya, (Uttarsthan 32), Nirmala Hindi Commentary, Delhi, Chaukhamba Sanskrit Pratishthan, 2007; 1121.
- 32. Sharma Priyavrat, Chakradatta (Shudrarogadhikar 55), Varanasi, Chowkhamba publishers, Edition, 2007; 439-440.
- 33. Tripathi Brahmanand, Ashtanghridaya, (Uttarsthan 32), Nirmala Hindi Commentary, Delhi, Chaukhamba Sanskrit Pratishthan, 2007; 1121.
- 34. Tripathi Brahmanand, Ashtanghridaya, (Uttarsthan 32), Nirmala Hindi Commentary, Delhi, Chaukhamba Sanskrit Pratishthan, 2007; 1122.
- 35. Tripathi Brahmanand, Ashtanghridaya, (Uttarsthan 32), Nirmala Hindi Commentary, Delhi, Chaukhamba Sanskrit Pratishthan, 2007; 1122.
- 36. Sharma Priyavrat, Chakradatta (Shudrarogadhikar 55), Varanasi, Chowkhamba publishers, Edition, 2007; 439-440.
- 37. Sharma Priyavrat, Chakradatta (Shudrarogadhikar 55), Varanasi, Chowkhamba publishers, Edition, 2007; 439-440.
- 38. Sharma Priyavrat, Chakradatta (Shudrarogadhikar 55), Varanasi, Chowkhamba publishers, Edition, 2007; 439-440.
- 39. Sharma Priyavrat, Chakradatta (Shudrarogadhikar 55), Varanasi, Chowkhamba publishers, Edition, 2007; 439-440.
- 40. Sharma Priyavrat, Chakradatta (Shudrarogadhikar 55), Varanasi, Chowkhamba publishers, Edition, 2007; 439-440.

- 41. Sharma Priyavrat, Chakradatta (Shudrarogadhikar 55), Varanasi, Chowkhamba publishers, Edition, 2007; 439-440.
- 42. Sharma Priyavrat, Chakradatta (Shudrarogadhikar 55), Varanasi, Chowkhamba publishers, Edition, 2007; 439-440.
- 43. Sharma Priyavrat, Chakradatta (Shudrarogadhikar 55), Varanasi, Chowkhamba publishers, Edition, 2007; 439-440.
- 44. Sharma Priyavrat, Chakradatta (Shudrarogadhikar 55), Varanasi, Chowkhamba publishers, Edition, 2007; 439-440.
- 45. Sharma Priyavrat, Chakradatta (Shudrarogadhikar 55), Varanasi, Chowkhamba publishers, Edition, 2007; 439-440.
- 46. Sharma Priyavrat, Chakradatta (Shudrarogadhikar 55), Varanasi, Chowkhamba publishers, Edition, 2007; 439-440.
- 47. Tripathi Brahmanand, Sharangadhar samhita, (Uttarakhanda 11), Deepika Hindi Commentary, Varanasi, Chaukhamba Surbharti Prakashan, 2010; 391 393.
- 48. Tripathi Brahmanand, Sharangadhar samhita, (Uttarakhanda 11), Deepika Hindi Commentary, Varanasi, Chaukhamba Surbharti Prakashan, 2010; 391 393.
- 49. Mishra Brahmshankar, Bhavprakash (Madhyam khand Shudrarogadhikar 61), Vidyotini Hindi commentary, Chowkhambha Sanskrit Bhawan, Edition, 2020; 490.
- 50. Shasrti Brahmshankar, Yogratnakar (Uttarardha Shudrarogadhikar), Vidyotini Hindi commentary, Varanasi, Chaukhamba Sanskrit sansthan 4th edition p 282.