DERMA – COSMECEUTICALS: APPLICATIONS IN PANCHAKARMA - A REVIEW

1Athira Venugopal, 2Rohini Purohit
P.G.Scholar, Associate professor, Department of Panchakarma, Alva’s Ayurveda Medical College, Moodubidire, Dakshina Kannada-574227, India.

ABSTRACT
Maintaining the beauty and youthfulness of our face and other body part tend to be a daily preoccupation for many women and men. Skin, particularly the face is in constant contact with the external environment and is also significantly affected by internal factors like our health and lifestyle. Age perception is based on the facial attributes such as - wrinkles, skin gravity, lustre etc. The beauty of the skin depends on the proper sleep, moisture, exercise, age, pollution, smoke, alcohol, etc. Aging of the skin is due to the deposition of free radicals. Cosmeceutical can be defined as a cosmetic product that is purported to have therapeutic action capable of affecting the skin positively beyond the time of its application. Derma-cosmeceuticals are medical-dermatological skin care products that are claimed to maintain and even improve the skin's function. *Ayurveda* cosmeceutical products already play an important role in the global industry of cosmetics and the use of *Panchakarma* in cosmeceutics made a strong stand in the cosmetic industry as well. *Panchakarma* is the complete purification of body and it is popular for cellular detoxification. It also acts like antioxidant and it reduce the inflammation by inhibiting the T cell activation. Through this literary review it has been attempted to outline the *Panchakarma* as an effective therapy in the world of cosmeceutics.

KEYWORDS – Derma-Cosmeceuticals, Ayurveda, Panchakarma

INTRODUCTION
Beauty is defined as the quality or aggregate of qualities in a person that gives pleasure to the senses or pleasurably exalts the mind or spirit. It is a quality which is not only gained by applying some products on the body

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facial attributes such as wrinkles, skin gravity, lustre etc. The beauty of the skin depends on the proper sleep, moisture, exercise, age, pollution, smoke, alcohol, etc. Aging of the skin is due to the deposition of free radicals. Panchakarma is the complete purification of body and it is popular for cellular detoxification. It also acts like antioxidant and it reduce the inflammation by inhibiting the T cell activation.

Cosmetology is termed as the study and application of beauty treatment, it is also preventing and overcoming skin-related disorders.

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In today’s era, adverse effects of cosmetics are generally encountered, 12.2% of people are suffered from adverse effects of cosmetics. Therefore, Ayurveda products are making their way in the global market of cosmetics as they are herbal plant-based and gives no side effects rather than of any chemical constituent cosmetics. Ayurveda science is not only restricted with only plant-based medications, it gives us Panchakarma therapies which are the essential part of Ayurveda treatment for many years, in treating various disorders to the first line of treatment. Panchakarma therapies attain their superiority with their efficacies.

**RITUSHODHANA**

Vamana can be done in *Kapha* and *pitta* vitiated conditions, if the skin problems are associated with hormonal issues like PCOD, in recurrent skin diseases and in association of *Bahudosh Lakshana*. *Vamana* Removes vitiated *Kapha* and *Pitta* and it does the *Srothomukha vishodhana*. *Vamana karma* cleanses the *Annavaha srotas* by washing out the endotoxins.

Virechana balances *Pitta* and *Rakta dushti*. *Sharnagadhara* describes *virechana* as *Vayasthairya*. *Vayasthairya* can be compared to free radical scavenging activity. *Virechana* helps to flush out the endotoxins. Thereby helps to reduce the formation of free radicals. Hence it will decrease the level of oxidative stress which is the main reason for tissue damage and aging.

**BASTHI**

*Basti* works best on skin and promotes the health of skin. There are *Basti* formulations which are explained to have cosmetic effect, few examples that are frequently used in clinical practice are, *Varnya Basti*, *Madhutailika basti*, *Ardhamatrika Basti*.

*Varnya Basti* is mentioned under *Sidhistana* of *Charaka Samhita*. The main ingredients are *ksheera* (*2 prastha*), *Madhu* (*1 prastha*), *Taila* (*1 prastha*), *Ghrita* (*1 prastha*). The combination of milk, oil, ghee and honey helps in mitigating morbid *Vata* and *Pitta*, restores skin nutrition, cleanses the body, and improves complexion.

*Madhutailika basti* is one of the *Asthapana Basti*. *Basti* prepared from *madhu* (honey) and *taila* (oil) in equal quantity is termed as ‘*Madhutailika Basti*’. The main constituent of this *Madhutailika basti* is honey (madhu)
and sesame oil (tila taila). Madhu is yogavahi (drug carrier) in nature due to which it spreads to minute channels (sukshma srotas) and increases potency of basti. Tila taila is snigdha (unctuous), madhura (sweet) and ushna (hot) in nature. It reduces laghu (light to digest) and ruksha (dry) properties of vata. As this basti reaches microchannels and does liquefaction of doshas, it produces balya, varnya, deepana and brimhana effects.

Ardhamaatrika Basti mentioned by Kaviraja Vangasena is having Vatahara and Shoolahara properties. As it a variety of Basti possess half the dosage of maximum permissible dosage for Niruha Basti, it can be administer daily even after having food, without any fear of complications, even to Sukumara, Vridha, Stree and those who have fear towards the procedures, so it can be given to enhance the complexion.

Basti has an action on ENS which in turn affects the endocrine system as well. This also helps to exert a positive effect on the skin.

**NASYA**

Nasya can be classified into two types. Pratimarsha and Marsha. Out of these Pratimarsha Nasya can be used daily and will be beneficial for promoting skin health and Marsha Nasya will be better for pathological conditions.

Taila which can be used for pratimarsha nasya are Anutaila, Ksheerabala taila, Kumkumadi taila, Yashtimadhu taila. According to Vangasena Pratimarsha Nasya with Tila Taila for 1 week cures Mukhadooshika.

There is a wide range of medicines for marsha Nasya explained in classics and also which has been proved in researches. For example, Nasya with Mandukaparni Swarasa and Madhu in Mukhadooshika, Nasya with Kumkumadi Ghrita in Vyanga, Manjishtadi tailam in mukhadushika, Kumkumadi Taila Nasya in vyanga, Kanaka Taila Nasya in vyanga.

**5.RAKTAMOKSHANA**

In Tvakvikara with Pitta and Rakta involvement Rakthamokshana can be done. Types and indications

**Acc.to Acharya Vagbhata and Susruta** in Vyanga- Siravyadha has to be done in Lalata Pradesha, where temporal and frontal veins are found, and in Mukhadooshika Jaloukavacharana can be done.

Vangasena, Chakradatta and Bhaishaja ratnavali also describes the same.

**6. BAHIRPARIMARJANA CHIKITSA**

**6.1 ABHYANGA**

Abhyanga is told to be Tvakdaridhyakara. It maintains the skin barrier, helps to reduce TEWL, helps to maintain the moisture balance. It promotes elastin, laminin and collagen synthesis thereby prevents sagging and finelines. It also improves microcirculation, improves tone and lift the muscles.
Some of the *Thaila* which are indicated for *Abhyanga* are *Ksheerabala taila*\(^{22}\), *Chandanadi taila*\(^{23}\), *Dineshavalyadi keram/taila*\(^{24}\), *Eladi keram/taila*\(^{25}\), *Kumkumadi tailam*\(^{26}\), *Haridradya Taila*\(^{27}\), *Kanaka Tailam*\(^{28}\), *Manjishtadya Taila*\(^{29}\), *Panchanga kumkumadi taila*\(^{30}\), *Saptatrimshanga kumkumadya taila*\(^{31}\).

### 6.2 SWEDANA

Shastika Shali Pinda. *Sweda* (*Varnya kizhi*)\(^{32}\) and *Kukkutanda sweda*\(^{33}\) are the varieties of *snigdha sweda* which are very useful in dry skin and melisma. Choorna Pinda *Sweda*\(^{34}\) *Ushma sweda* are the varieties of *ruksha sweda* which can be used in case of blind pimples, black heads, comedones, etc.

### 6.3 PRAKSHALANA

In oily and acne prone skin *Triphala Kashaya* or *Ushnajala* with *Tankana bhasma* can be used. In sensitive skin and rosacea condition, *Manjishta kashaya, Yashtimadhu* *Kashaya* *Panchavalkala Kashaya*, Aloe Water can be used because it helps to relieve the *Prakupita Pitta*. In case of dryness and reduced glow *Rice water* (which contains Kojic acid), Atasi jala, Dasha Moola *kashaya* can be used as it helps to decrease the *Rukshata*.

### 6.4 UDWARTANA/ UTSADANA

*Utsadana*\(^{35}\) is the procedure of rubbing medicated powders by mixing with snehadrava. It can be done in case of dry skin by using *Yashtimadhu choorna*, *Vacha choorna*, *Arjuna tvak choorna*, *Manjishta choorna* etc. *Udvartana* is the procedure where medicinal powders are rubbed as it is. It can be done in oily skin, by using *Nimba churna, Triphala churna* etc.

These procedures help in the exfoliation of dead skin cells.

Dead skin cells accumulation can clog your skin pores and causes pimples, dry skin, rough patches, irritation, and inflammation.

Better to be avoided in case of active acne because it may cause acne to break and leads to scar formation.

### 6.5 LEPA

**Single drug**

**In Dry skin** - *Ghritakumari, Atasi, Annalepa*, can be done. *Raktacandana, Manjishta, Yashtimadhu* can be used with milk/oil as base.

In oily skin *Masura, Raktacandana, Manjishta, Yastimadhu* with water as base can be used.

**Jathiphala lepa** - *Acharya Bhavamishra* have mentioned *Jatiphala* (*Myristica fragrans* Houtt.) as a single herbal remedy for its action on *Vyanga*\(^{36}\).

**Lepa with 2 drugs**

- *Gorochanadi lepa* - *Gorochana+Maricha*\(^{37}\) is indicated in mukhadooshika.<sh.utt.11>
Arkaksheera lepa- Arkaksheera + Haridra\textsuperscript{39} is also used in mukhadooshika.\textsuperscript{sh.utt.11}

Mukhavarnyakara lepa- Masura grinded with milk and applied, this paste enhancing complexion in seven days\textsuperscript{39}. <va.kshu>

**Lepa including Rasa oushadhi**

- **Matulungadilepa**-Matulunga (Citrus medica) ,Ghruta, Manashila (Reagler)-- Pitika (Pimples) Vyanga(Melasma)\textsuperscript{40} \textsuperscript{sh.utt.11}

- **Twak-Savarnikaran Yoga**-Kaliyaka (Coscinium fenestratum), Agaru (Aquilaria agallocha Roxb.), Aamrasti, Hema, Kanta (Rubia cordifolia Linn.) and Rasottoma (Parada) mixed with Goshakrit rasa is Varnya\textsuperscript{41}.< Ch.Chi- 25/116>

- Grinding Lodhra, Kumkuma, Manjistha, Loha, Kaliyaka, Yava, Tandula and Yashtimadhu with water and apply over the skin\textsuperscript{42}.<Garuda purana>

**Lepa with multiple drugs.**

**a) For curative purpose**

1. **Raktachandanadilepa**-Raktachandana (Pterocarpus santalinus) Manjistha (Rubiacordifolia) Lodhra (Symplocosracemosa) Kushta (Sassurealappa) Priyangu (Callicarpa macrophylla) Vatankura (Ficusbenshenga-lensis) Masur daal (Lens culinaris)-Vyangahara, Mukhakantikara\textsuperscript{43}<sh.utt.11>

2. **Lodhradilepa**-Lodhra (Symplocosracemosa), Dhanyak (Coriander sativum), Vacha (Acorus calamus) mixed in equal quantity –tarunya pidika\textsuperscript{44} <sh.utt.11>

3. **Vatapatradi lepa** –Ripened leaves of Vata,Malati, Raktachandana, Kushta, Kaliyaka, Lodhra - Tarunyapidikavyanganilakadivinashanam\textsuperscript{45}<sh.utt.11>

4. **Dhanyakadi lepa**-Dhanyak (Coriandrum sativum Linn), Vacha (Acorus calamus Linn), Loddhra(Symplocos racemosa Roxb), Kushta (Sassuria lappa C.B.Clarke).Mukhadooshika\textsuperscript{46}<A.h.u.32/31>

5. **Varnya gana lepa**\textsuperscript{47}

**b) For promotive purpose**

In Garuda purana\textsuperscript{48} there is a wide range of lepa. By applying Atasi, Masha, Godhuma and Pippali choorna along with ghee, the body will become like Kandarpa. Grinding Lodhra, Kumkuma, Manjistha, Loha, Kaliyaka, Yava, Tandula and Yashtimadhu with water and apply over the skin. Grind dry Haridra, Shvetasarshapa, Mulaka, Matulunga beeja and apply it for a week, the body is refined. By applying these lepa it is told that- Kandarpa Bhavati (skin will become like shining star)
In Haramekhala Tantra also there is mentioning of varieties of Shareeralavanyartha lepa. Haridra choorna is mixed with water and made into bolus-Putapaka is done and applied over face. Tila, Sarshapa, Haridra, Daruharidra and Kushta mixed with water and applied. Vidanga, Nimbapatra, Dadimavrikshatvak, Shirishatvak, Priyanguphala, Haridra along with water.

Chakradatta and Haramekhala have mentioned Varnaka Ghrita for shareera lavanya. The ingredients are almost similar. Ingredients of Varnaka ghrita in Chakradatta are Madhuka, Raktachandana, Sarshapa, Padmaka, Haridra, Lodhra, Kesara, Ghrita, Sikta. In Haramekhala Tantra the ingredients are Madhuka, Kumkuma, Sarshapa, Padmaka, Peetachandana, Lodhratvak, Haridra, Ghrita.

DISCUSSION

Cosmetology is one of the major emerging branches of science gaining attention of researchers, industry and general public all around the globe. Ayurveda can serve the society with its time-tested knowledge of natural, safe, effective and holistic techniques of cosmetology. Smooth and glowing complexion of the face amplify the magnificence of a person and also gives self confidence, irrespective of the skin colour. New age beauty standards have gone through a major shift. The main aim of any skincare routine is to rejuvenate your skin from deep within and to accentuate the beauty are naturally blessed with. An Ayurvedic/herbal cosmetic have growing demand in the world market.

CONCLUSION

Ayurveda always have attracted considerable attention because of its effectiveness and comparatively lesser or no side effects in comparison with other drugs. According to Ayurveda, toxic materials inside the body makes a person look unhealthy and his personality weakens.

Shodhana (Purification) is the best therapeutic intervention to eliminate body toxins which helps to become disease free and along with other Bahya chikitsa helps to maintain health and beauty.

REFERENCE


8. Dr. Indradev Tripathi, Chakrapani Virachita Chakradatta with commentary Vaidyaprabha, Edited by Prof. Ramanath Dwivedy, 8th Ed, varanasi, chaukhambha Sanskrit bhavan, 2022.


15. https://www.researchgate.net/publication/332185886_CONCEPTUAL_STUDY_OF_NASYA_WIT H_KUMKUMADI_GRUTA_IN_MUKHADUSHIKA_ACNE_VULGARIS


18. THE ROLE OF TRANS-NASAL ADMINISTRATION IN THE MANAGEMENT OF HYPERPIGMENTATION -A CASE STUDY Section A -Research paper. DOI: 10.48047/ecb/2022.11.11.49


20. Sushrut Samhita, Ayurda Datattvasan Dipik With Ayurveda Datattvasan Dipika, Publisher Chaukhambha Sanskrit Sanstan, Varnansi, Edition 2010, Sushrut Sutrasthan Chapter 13, Page No. 56 To 60


27. Dr. Indradev Tripathi, Chakrapani Virachita Chakradatta with commentary Vaidyaprabha, Edited by Prof. Ramanath Dwivedy, 8th Ed, varanasi, chaukhambha Sanskrit bhavan, 2022.


29. Dr. Indradev Tripathi, Chakrapani Virachita Chakradatta with commentary Vaidyaprabha, Edited by Prof. Ramanath Dwivedy, 8th Ed, varanasi, chaukhambha Sanskrit bhavan, 2022.

30. Dr. Indradev Tripathi, Chakrapani Virachita Chakradatta with commentary Vaidyaprabha, Edited by Prof. Ramanath Dwivedy, 8th Ed, varanasi, chaukhambha Sanskrit bhavan, 2022.

31. Dr. Indradev Tripathi, Chakrapani Virachita Chakradatta with commentary Vaidyaprabha, Edited by Prof. Ramanath Dwivedy, 8th Ed, varanasi, chaukhambha Sanskrit bhavan, 2022.


35. Vagbhata, Ashtang Hriday, Arundatta's commentary – Sarvangasundar, Uttar Tantra Chi.25/46, page 864


39. Dr. Indradev Tripathi, Chakrapani Virachita Chakradatta with commentary Vaidyaprabha, Edited by Prof. Ramanath Dwivedy, 8th Ed, varanasi, chaukhambha Sanskrit bhavan, 2022.


42. A Jayanti bhattacharya “Garud puran ki darshanik avam ayurvedic samagri ka Adhyayan” Varanasi Sanskrit sansthan first edition 1986 siddha yoga adhaya pg number 207


44. Jayanti bhattacharya “Garud puran ki darshanik avam ayurvedic samagri ka Adhyayan” Varanasi Sanskrit sansthan first edition 1986 siddha yoga adhaya pg number 207


46. https://www.researchgate.net/publication/356641136_A_CLINICAL_STUDY_TO_EVALUATE_AN_EFFECT_OF_DHANYAKADI_LEPA_AS_BAIRPARIMARJANA_CHIKITSA_AND_CHANDANA_CHURNA_WITH_MADHU_AS_AN_THAPARIMARJANA_CHIKITSA_IN_YAVANAPIDAKA


50. Dr. Indradev Tripathi, Chakrapani Virachita Chakradatta with commentary Vaidyaprabha, Edited by Prof. Ramanath Dwivedy, 8th Ed, varanasi, chaukambha Sanskrit bhavan, 2022.