Formulation and Evaluation of Polyherbal Face Pack

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INTRODUCTION

Cosmetics are defined as products that are used to cleanse, adorn, or enhance one's appearance. Encourage or switch up your appearance. Herbs have been used to clean, beautify, and treat them since ancient times. "Mukhalepa," or herbal pastes, are a popular in India. They were used as facial therapy in Ayurveda. This herbal paste smeared on the face is used to treat acne, pimples, rash, stains, and pigments. A face pack is a smooth powder that is applied to the face. Herbal face packs are less expensive and have no side effects when it comes to achieving naturally fair skin. The current study looks at how to make a herbal face pack for glowing skin at home with natural ingredients like Multani mitti, turmeric, aloe vera, sandalwood, orange peel powder and gramme flour. Herbal face packs are required for various skin types. Smooth, healthy, and silky skin can be achieved the homemade natural face packs and masks. The herbal paste used to treat acne, pimples, wounds, stains, and pigments is known as "mukhalepa" in Ayurveda. Mukhalepana is the application of a herbal mixture to the face. This treatment is now known as facial therapy. A face pack is a smooth powder that is applied to the face. These packs come in a variety of styles and formats and are generally classified as: Wax-based, latex-based, or vinyl-based plastic masks Gel masks made of hydrocolloid (ready to use). Clay-based or earth-based argillaceous masks ready to use or dry powder.

MATERIAL AND METHOD

Method

All the powders were collected and formulation was prepared by using following formula:

Table 1: Formulation

| Sr. no | Material                | Formula |
|--------|-------------------------|---------|
| 1.     | Orange peel powder      | 10%     |
| 2.     | Multani mitti           | 25%     |
| 3.     | Turmeric powder         | 10%     |
| 4.     | Neem powder             | 7%      |
| 5.     | Amla powder             | 4%      |
| 6.     | Hibiscus powder         | 24%     |
| 7.     | Sandalwood powder       | 20%     |

Keywords: Herbal, Facepack, Sandlewood, Turmeric, Neem.
1. Orange peel powder
Orange peel powder is rich in vitamin C and other antioxidants. On top of fighting free radicals, vitamin C brightens your skin and makes it youthful and glowing.

Orange peel powder benefits include unclogging pores, removing blackheads and treating acne. It contains citric acid, which exfoliates.7

2. Multani Mitti
Multani mitti helps skin by different ways like diminishing pore sizes, removing blackheads and whiteheads fading freckles, soothing sunburns, cleansing skin, improving blood circulation, complexion, reducing acne and blemishes and gives a glowing effect to a skin as they contain healthy nutrients. Multani mitti will help to make you skin radiant and excellent for aggravated and irritated skin. Multani mitti is rich magnesium chloride.8

3. Turmeric powder
Haridra has anti-inflammatory and anti-allergic activity. It is best blood purifier and helps in wound healing. It possesses best blood purification action so it is used in all disease with blood impurities origin. Haridra is rejuvenator of skin and revitalizes skin; delays the signs of aging like wrinkles.9

4. Neem powder
Neem powder helps to get rid of the dandruff which is a fungal infection of scalp. It also reduces the skin ailments like psoriasis, eczema and other skin related infection. Neem powder cures the boils, prickly heat and other minor skin problems. Face packs enriched with neem also reduces the acne marks and scars.10

5. Amla powder
Amla contains high amounts of vitamin C and is one of the highest antioxidant-rich ingredients. The antioxidants along with the other polyphenols in amla brighten your skin naturally by fighting off the free radicals in your skin cells.11

6. Hibiscus powder
The phenolic compounds in hibiscus roselle help scavenge free radicals in your skin to reduce oxidative stress caused by environmental damage. Hibiscus has a sort of magical reputation in skin care because it is a natural source of alpha-hydroxy acids (AHAs). This makes hibiscus naturally exfoliate your skin and reduce hyperpigmentation and comedones. This also helps to reduce blackheads & improve the texture of the skin.

The antioxidants present in hibiscus powder also help reduce inflammation on your skin caused by acne or other skin problems.12

7. Sandlewood powder
Sandlewood has an anti-tanning and anti-aging property. Sandlewood protects the skin against the impact of environmental pollution and keep the skin cool, fair and healthy. Sandlewood is helpful Ayurvedic herb with antimicrobial properties is used for healing various skin problems and removes scars.13

EVALUATION
Following evaluation parameters were performed to ensure superiority of prepared face pack:

Organoleptic evaluation
Organoleptic properties include color, odor, texture and smoothness.

| Sr. no. | Parameters | Observations |
|---------|------------|--------------|
| 1.      | Appearance | Powder       |
| 2.      | Colour     | Slight yellow|
| 3.      | Odour      | Slight       |
| 4.      | Texture    | Fine         |
| 5.      | Smoothness | Smooth       |

Particle size
Particle size of the face powder was determined by optical microscopy method.

Angle of Repose
Angle of repose was determined by fix funnel method.

Irritancy test
Face pack was applied on the skin and effects were seen after 15 minutes.

Stability studies
Stability studies of the formulation was carried out at various temperature conditions room temperature, 35 °C, and 40 °C.

RESULT AND DISCUSSION

Organoleptic evaluation
Face pack was prepared and evaluated for organoleptic parameters showed in table.

| Sr. no. | Parameters | Observations |
|---------|------------|--------------|
| 1.      | Irritant   | No irritation|
| 2.      | Erythema   | No irritation|
| 3.      | Edema      | No irritation|

Stability study:
The stability study shows slight change in pH of formulation which was stored at 40°C and no changes were observed at room temperature and at 35°C. There was no change in colour and odour at other mentioned conditions of stability which were showed in following table.
Table 4: Parameters of stability studies of formulation

| Sr. no. | Parameters  | Room temp. | 35°C | 40°C |
|---------|-------------|------------|------|------|
| 1       | Colour      | No change  | No change | No change |
| 2       | Odour       | No change  | No change | No change |
| 3       | pH          | 6.8        | 6    | 6    |
| 4       | Texture     | Fine       | Fine | Fine |
| 5       | Smoothness  | Smooth     | Smooth | Smooth |

CONCLUSION

The present skin conditions such as pimples, acne can be cured by using herbal preparations. There are various herbal preparations such as herbal face pack, herbal face mask, face scrub act by different mechanism and helps to keep the skin healthy. The present formulation was prepared by using various herbs which will help in improve fairness, reduce acne, by acting on face. The formulation was subjected to various evaluation test such as particle size, angle of repose, irritancy test and all the test was passed by the formulation. Therefore polyherbal formulations have a wide variety of scope in preventing skin problems.

Acknowledgment

We are grateful to Guide Mr. Amol A. Dixit Head of Department Pharmaceutics Department, Sarojini College of Pharmacy, Kolhapur for providing the necessary guidance chemicals and facilities for completing the project work.

Conflict of Interest: The authors declare no conflict of interest.

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