



# HERBAL OINTMENT USED IN TREATMENT OF 1<sup>ST</sup> DEGREE AND 2<sup>ND</sup> DEGREE OF BURN SKIN.

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**Abstract:** This article has been made to review some medicinal plant used for the treating burning of skin. Some herb has vital role in the prevention & treatment of burns. The burns are one of the major public Health problems in world wide. Herbal Drug effective in boiling water burn, radiations Sunburn chemicals and Fire. Self-Care with Herbal drug is most appropriate to 2<sup>nd</sup> degree and 2<sup>nd</sup> degree of burn. Herb gives Proper treatment of burns. Can reduce the complication of injury. Herbal Drug used topically, they can reduce pain of burn, helps to fight infection, helps to formation of Scar tissue. the Herbal ointment is made up of different medicinal Plant parts, like alo-vera, Honey Jammun seed, arjuna sativa, & coconut oil, this Herbs give Antioxidant, antibacterial, antimicrobial, & anti-inflammatory Properties. the burn part of body is firstly recovered by Herbal ointment. The Herbal Drug do not produce allergic reaction and Side effect.

**Key Word** - Antibacterial, Antioxidants, Allergic Reaction Burn, degree of burn.

## I. INTRODUCTION

Plant are the oldest source of pharmacologically active compound. And have provide many medicinally use full compound from country. There are many herbal drugs are used in worldwide. It is used in the treatment of disease. Such as burn skin, cardiac disease. Two or more herb plant used together for formulation they are available in the form of ointment which is semi solid preparation. It is used topically and show several properties. Ex –Burn skin. Herbal ointment does not show any side effect. It is Independent of any age group.

- 1. Aloe vera:** Aloe vera is effective in treating burn skin.: - It shows Anti-inflammatory and Anti-bacterial properties. It promotes the circulation around the burn and it prevent the growth of the bacteria in the area
- 2. Coconut Oil:** The coconut oil contains many fats. It reduces the inflammation of skin keeping skin moisturized. It protects them from harmful. Coconut oil shows Anti-fungal properties which can prevent any infection on the skin.
- 3. Honey:** Honey is used as both food and medicine. It is sweet liquid made by honeybees. It shows Anti-inflammatory properties. Honey reduce the pain and burning sensation.
- 4. Lemon juice:** Lemon juice are used to reduce the rash of burn skin.
- 5. Arjuna sativa:** Arjuna sativa have anti-bacterial properties. It is used in burn skin. it absorbs the water on burn skin.

## II. Material and method:

- 1. Collection of plant material:** Aloe vera leaves collected from home garden. Honey is collected from garden. Lemon juice collect from home. Arjuna sativa collect from Ayurvedic shop from market.
- 2. Preparation of Arjuna sativa Powder:**

**Method:** Irritation method are used.

**Ingredients:** Aloe vera, Arjuna sativa, Lemon juice, Bark, Honey, Coconut oil, Glycerin.

**Formulation of ointment**

Table No 1. Ointment base

| No. | Ingredient          | Quantity |
|-----|---------------------|----------|
| 1   | Beeswax             | 0.5gm    |
| 2   | White soft paraffin | 0.5gn    |
| 3   | Yellow paraffin     | 1.5gm    |
| 4   | Hard paraffin       | 0.5gm    |

Table No 2. Herbal ointment

| No | Ingredient           | Quantity |
|----|----------------------|----------|
| 1  | Arjuna sativa powder | 5gm      |
| 2  | Aloe vera            | 10ml     |
| 3  | Honey                | 10ml     |
| 4  | Coconut Oil          | 10ml     |
| 5  | Lemon Juice          | 5ml      |
| 6  | Ointment base        | 10ml     |
| 7  | Glycerin             | 10ml     |

**Procedure:**

- A. firstly, ointment base is prepared weight accurately all ingredient used in preparation of ointment base –
- weight accurately hard paraffin and placed in evaporating dish on water bath.
  - After melting then remaining ingredient add and mixing up to cooling of ointment base
- B. For preparation of herbal ointment weight accurately arjuna sativa and mix with aloe vera gel to the ointment base by using in irritation method to prepare pest
- After the porcelain dish added coconut oil and porcelain dish is on water bath boil the coconut oil and the add pest mix it properly and the cool.
  - After cooling add Lemon juice and glycerine, they were weighed accurately mixing the properly with base until too from homogenous ointment and transformed the pest into suitable container.

**Test of Evaluation:**

- Colour and odour:** Colour and odour are examined by visual.
- Consistency:** They have smooth and greasy consistency.
- Spread ability:** They are spread easily on skin or burn skin surface.
- PH:** for measurement of ph. by using digital ph. meter 0.5g of ointment was dissolved in 50ml of distilled water and store for two hours. The measurement of ph. each formulation was done in triplicate.
- Solubility:** Soluble in alcohol, boil water, ether etc.
- Wash Ability:** Ointment was applied on skin and then extended wash with water was checked.
- Non-Irritating Test:** It applied on skin of human being and absorbed for effect.
- Solubility Study:** Physical stability test of herbal ointment was carried out for four weeks at various temp 2° c, 25° c, 37° c It was found stable at various temp.
- LOD:** Was determined by placing the formulation in petri dish on water bath and dried at temp 105°cel

**Diagram:**

Before

After





III. **Results and discussion:** The present study was done to prepare and evaluate the herbal ointment. For the burn skin by using simple process. The irritation method is used. There was no any harm to the chemical constitutes and activity

#### Physiochemical evaluation

| Physio chemical properties | Observation                    |
|----------------------------|--------------------------------|
| Color                      | Grey                           |
| Odor                       | Characteristic                 |
| Consistency                | Smooth                         |
| Ph                         | 6.4                            |
| Solubility                 | Soluble in alcohol, boil water |
| Spread ability             | Easily spread                  |
| Wash ability               | Good                           |
| Non irritancy              | Non irritant                   |
| Solubility study           | Stable at different temp       |

IV. **Conclusion:** The herbal ointments study has been concluded that the herbal ointment does not have any side effect and allergic reaction. And it is good for the recovery of burn skin.

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