

FORMULATION OF POLY HERBAL HAIR OIL

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ABSTRACT

Hair is the one of the vital part of our body and it influences the overall appearance of person. The poly herbal oil using various plant material such as hibiscus, *aloe vera* coconut oil. hair oil are widely used in india for hair care indigenously available herbal ingredients are used to make hair oil. In the last few years there has been an extraordinary growth in the field of herbal & ayurvedic medicines. Herbal formulations have less side effects and are safe to use. The goal of the present study is involves preparation of poly herbal hair oil using plant materials. The different extracts of different part of plant showed promising pharmacological activities. Poly herbal hair oil increases hair growth, reduces hair loss, providing protection against dandruff Herbal cosmetics are now-a-days widely used by the common people because of fewer side effects and with a better safety. Poly herbal hair oil considered to increase the hair growth, reduces hair loss, and providing protection against dandruff.

KEYWORDS: herbal hair oil, Amla, Aloe Vera, Hibiscus, hair fall, anti-dandruff.

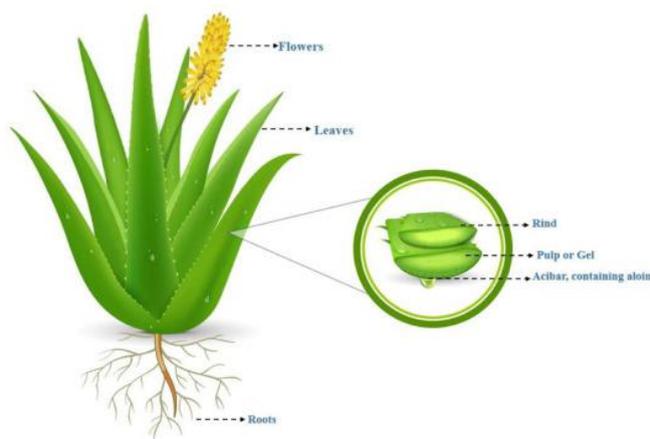
INTRODUCTION

Hair is the prominent part of the body and hair provides protection to the head. Hair provide the protection against the sun's UV rays, heat. The main problems of Hair is associated with hair fall, dandruff's, spilt end, gray hair etc. Typically hair oils are widely used in India for the purpose of hair care. Indigenously available herbal ingredients are used to making hair oil. The hair oil is made to give the hair nice strength shine and attractive appearance. The various type of natural oil are used to make hair oil as base oil. The hair oil preparation are mostly used to cool the scalp for luxurious growth of hair in both men women. Various type of oils like coconut oil, almond oil, castor oil, anion oil are applied to scalp in admixture with suitable herbs drug. Coconut oil is the base because it get absorbed into the hair stands better than other oils. Hence coconut oil added with other herbal ingredient best hair growth. Hair oils are the hair care formulations applied to hair treat Disorders like as baldness, aggression of hair discoloring of hair, hair falling, dryness of hair. Hair loss is alopecia, is a common patient problems. In our study, we have formulated herbal hair oils from amla, hibiscus, aloe vera, peppermint, neem, camphor, til oil, Coconut oil

used for the best medicine of hair growth. Amla is the natural source they contain vitamin c and thus prevent hair loss, and in the same way prevent premature graying of hair, promotes hair growth. Neem leaves and1 castor oil shows Anti-microbial activity and help in hair loss. Herbal cosmetics are widely used in today's daily life because they do not have any side effects and do not cause any kind of harmful effect. Hair oils gives coding effect to brain as well as to hair softening of hair. Hibiscus plant consists of calcium, phosphorus, iron, vitamin B1, riboflavin, niacin and vitamin C, they promote hair growth and prevent premature graying of hair. Herbal preparation have always attract attention because of their good tolerability and relatively few or zero side effects compared to synthetic drugs.

Plant description

1. *Aloevera*



Synonyms: *aloe, musabbar, kumara.*

Biological Source

aloe is the dried juice of the leaves of *barbadensis miller* known as *asuracao aloes*; or *aloe perryi Beker*, known as *socotrine* or *aloes ferox miller* and hybrids of this species with *aloe Africana miller* and *aloe spicata baker* known as *cape aloes*.

Family: Liliaceae

Chemical Constituents: Aloe emodinanthrone, aloin, barbaloin.

Uses: *Aloe vera* gel helps moisturise hair and prevent dryness and breakage by containing water and other hydrating ingredients.

Aloe vera's antifungal and antibacterial qualities can help reduce dandruff.

2. *Peppermint*



Synonyms: *menthe oil, colpermin.*

Biological Source

The oil is obtained by steam distillation of fresh flowering tops of the plant known as *menrhaperitalinn*.

Family: Labiatae

Chemical Constituents

menthone, cineole, menthafuran, neomenthole, limonene

Uses: Peppermint is used to promote hair growth and enhance scalp health.

Peppermint increases blood circulation, which in turn may help to stimulate hair growth.

Peppermint Reduces itching and redness and soothes irritated scalp.

3. *Hibiscus*



Biological source- dried leaves of hibiscus *Rosa sinensis*.

Family- Malvaceae

Chemical Constituents

β -sitosterol, stigmasterol, taraxeryl acetate and three cyclopropane compounds and their derivatives.

cyanidin diglucoside, flavonoids and vitamins, thiamine, riboflavin, niacin and ascorbic acid.

Uses – Nourishes and thickens hair. emollient, brain tonic, growth of hair, blackening of hair.

4. *Amla*



Synonyms: *Embllica, Indian goose berry, Amalki.*

Biological Source: This consists of dried, as well as fresh fruits of the plant *Embllica officinalis* Gaerth *Phyllanthus emblica* Linn.

Family: Euphorbiaceae.

Chemical Constituents: vitamin C (Ascorbic acid), phyllembelin and tannin phosphorus, iron and calcium,

pectin.

Uses: used in preparation of inks, hair oils and shampoo. It is reported that fixed oil from fruits possesses the property of promoting hair growth.

Amla, being a rich source of vitamin C, is considered important to slow the ageing process. It improves skin health.

6. *Neem*



Biological source: Neem consists of fresh or dried leaves and seed oil of *Azadirachta indica* J. Juss.

Family: Meliaceae

Use: Prevents premature greying, Anti-dandruff, Anti-scalp itching, Conditioner, Treatment of lice.

7. *Coconut oil*



Biological source: Oil derived from dried fruits of *Cocunucifera*

Family: Arecaceae.

Use: moisturiser, vehicle, stimulates hair growth by unclogging pores.

Chemical Constituents: Saturated fats- lauric acid, myristic and palmitic acids, vitamins, minerals, plant sterols

AIM AND OBJECTIVES

1. The main aim was to formulate poly herbal hair oil, will improve and strengthen the hair by proper nourishment and other problems like dryness.
2. To formulate poly herbal hair oil by using herbs such as aloe Vera hibiscus, peppermint coconut oil.

METHODOLOGY

Type of study: Prospective study design

Study Site: The study was conducted at RAJARSHI SHAU COLLEGE OF PHARMACY Markhel, TQ. Degloor, Dist. Nanded.

Study Duration: from March to may.

Collection of plant

1. Aloe vera gel

The leaves of alovera collected form the surrounding area of dist nanded after collection the leaves whear cleaned, gel was collected using sharp knife and dried in hot ait oven at a 400 c powder to course using mortar and pestle.

The powder was stored in an air tight container, until further use.

2. Hibiscus

Fresh flower of hibiscus rosasineslinn where collected form surrounding area of degloor.

They where washed sepretely to remove dust and other pollutants and then dried in the shade by solar drying.

after the drying process the sample where powdered using a laboratory blender and stored in a separate air

tight container at a room temperature.

3. Peppermint leaves

Fresh leaves of pepermint (menthapiperita) where collected form surrounding area of markhel.

After collection they were washed in fresh water and dried in shade drying up to 7 to 8 days.

After drying the material are make fine powder by using mortar pestal

These fine powder are stored in suitable container, until further use.

4. Neem

The fresh leaves of neem are collected from near the area of markhel.

After collection the washed in water and they keep in drying under shade drying. The dried crude drugs were made into coarse powder by using mixer.

5. Amla

Wash the fruits thoroughly, pat them dry, and cut them into small pieces. Spread the pieces on a clean, dry cloth or a tray and place them in a well-ventilated area with sunlight. Allow the amla pieces to dry completely until they become hard and brittle. Store the dried amla in an airtight container in a cool, dry place. Frozen amla can last for several months.

Procedure

All herbs are collected like aloe Vera, Hibiscus, peppermint, Amla, etc. They are dried under the shade drying.

The crude drug are made into the fine powder by using mortal pestle Then fine powder are passed in sieves no.80

All crude drug are accurately weighted. Coconut oil and aloe Vera pulp are add to that mixture and boil for 15 min and filtered Through the muslin cloth

Then filtrate add a coconut oil make up of volume up to 100ml. Add Camphor for Fragrance.

Formulation 1

S.No.	INGREDIENT	F1 (4%)
1	Aloe Vera	12gm
2	Hibiscus	12gm
3	Peppermint	12gm
4	Neem	12gm
5	Amla	12gm
6	Rosemary oil	2ml
7	Camphor	2mg
8	Coconut oil	Up to 100ml

Formulation 2

S.No.	INGREDIENT	F2 (8%)
1	Aloe Vera	24gm
2	Hibiscus	24gm
3	Peppermint	24gm
4	Neem	24gm
5	Amla	24gm

6	Rosemary oil	2ml
7	Camphor	2mg
8	Coconut oil	Up to 100ml

Formulation 3

S.No.	INGREDIENT	F3 (16%)
1	Aloe Vera	32gm
2	Hibiscus	32gm
3	Peppermint	32gm
4	Neem	32gm
5	Amla	32gm
6	Rosemary oil	2ml
7	Camphor	2mg
8	Coconut oil	Up to 100ml

RESULTS

Herbal hair oils promote hair growth, improve elegance of hair and prevent hair fall. It not only promotes hair growth they also provide necessary moisture to the scalp rendering in beautiful hair.

Herbal hair oils are used not only for moisturizing purposes but also to promote hair growth, improve circulation of blood in the scalp, prevent dandruff and add volume to the hair shaft

Herbal hair oil was formulated using simple mixing process.

Herbal hair oil was formulated by adding the required amount of herbal ingredients as a given in formulation.

We prepared three types of formulation of herbal oil and mentioned below tables,

The prepared formulation is green to greenish brown in color.

S.No.	INGREDIENT	F1 (4%)	F2 (8%)	F3 (16%)
1	Aloe Vera	12gm	24gm	32gm
2	Hibiscus	12gm	24gm	32gm
3	Peppermint	12gm	24gm	32gm
4	Neem	12gm	24gm	32gm
5	Amla	12gm	24gm	32gm
6	Rosemary oil	2ml	2ml	2ml
7	Camphor	2mg	2mg	2mg
8	Coconut oil	Up to 100ml	Up to 100ml	Up to 100ml

CONCLUSION

- The herbal extracts and constituents chosen for the formulation of hair oil were reported to have hair growth, relaxation, anti-dandruff, hair thickening, and hair fall control properties.
- The formulated hair oil will help in maintaining good growth of hair.
- It provides various essential nutrients required to promote natural hair growth. Formulation was done
- Addition of Neem it acts as antidandruff hair tonic. Amla helps in thickening and blackening of hair. Hibiscus helps in hair softening resulting in healthy growth. All these dried and powdered drugs mixed with coconut oil in sufficient quantities will give a permanent solution for hair fall and proper hair growth.
- The formulation was proven to be safe for human use. Herbal formulations provides best mixture of vitamins, antioxidants, essential oils, and also provides nutrients of hair growth.

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