2. Objectives

The excessive shedding of dead skin cells from the scalp is due to dandruff. As it is a normal skin phenomenon that cells die and flake off, a small amount of flaking is normal and in fact quite normal. However, excessive shedding is the sign of dandruff. In the case of seborrheic dermatitis, it worsens and is accompanied by inflammation on the scalp. Its effect may be simple to severe which may also cause baldness in young age.

Although in the market many herbal and synthetic anti-dandruff shampoos are available, they are associated with various side effects as compared to herbal shampoo. Our objective was to make the dose effective, economical and easily accessible antidandruff shampoo with minimum side effects and to eliminate harmful synthetic ingredients from antidandruff shampoo formulation and substitute them with the safe, natural ingredients.

Reason for choosing the Crude Drugs

Drugs were selected by market survey and literature review. All the drugs chosen for the study are having folk use as anti-fungal and antibacterial, accessible, cost-effective, wide geographical distribution of the plants globally in almost every climatic condition, safe for dermatological condition and well documented by various research workers. These drugs are being used from a long time as a single ingredient or in combination in certain anti-dandruff shampoos but less popular in the form of hair packs. Antidandruff shampoo have synthetic base which themselves are associated with several side effects.

2.1 Objective of the study

Our aim was to prepare antidandruff polyherbal formulation without synthetic base. We had screened frequently used drug for antimicrobial activity present in various marketed antidandruff herbal shampoos and selected 26 of them on the basis of zone of inhibition (ZOI). We have chosen powder form for our formulation because powder is easy to formulate, economical, easy
application, no synthetic base for formulation needed. Prolong contact time,
better result, than herbal antidandruff shampoo, less or no interaction, more
stable no or fewer preservatives if needed.

Objective of Study includes

1. To compare Malassezia furfur from the scalp with the standard.
2. Maintenance of culture and subculturing dermatophytes.
3. To select most frequently used herbs in marketed antidandruff herbal
   shampoos.
4. To check potency of individual herb on the growth of fungus and bacteria
   responsible for the dandruff.
5. To choose the herb most effective against dandruff
6. To check Anti malassezia activity of extract (s).
7. To make the formulation effect formulation with reduced ingredients.
8. To prepare antidandruff herbal hair care preparation with sufficient contact time.
9. To check antidandruff activity of the formulation.
10. To evaluate the Antidandruff herbal formulation.
11. To compare herbal and synthetic marketed antidandruff preparations.

2.2 Advantages of prepared formulation over marketed formulation

- Pure herbal
- Reduction in number of ingredients
- Improved activity
- Sufficient contact time
- Most promising herb and combination
- No side effect associated with synthetic base
- Fewer chances of reoccurrences when used regularly
We anticipate that, our antidandruff herbal formulation will surely help in the management of dandruff and improve the dandruff condition or better effect.