

## Concept of Hair Problems and its Treatment in Ayurveda

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| Received: 01.02.2020 | Accepted: 08.02.2020 | Published: 26.02.2020

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### Abstract

Hair plays a vital role in enhancing the personality of a human. As the hair is the first noticeable part of beauty for women as well as men. The scalp and hair conditions also have more psychological impact on human societies. Even minor changes in hairs like greying of hair, early hair fall affect the self-confidence and self-esteem of an individual. Acharya Charka considered Hair as *Mala* (Waste product) of *Asthi Dhātu* (Bone), while *Sharnghdharma* thinks it as a *Updhatu* (tissue) of *Asthi*. Various *Ayurvedic Jagran* is described in different Classics for the disease of Hairs like *Khalitya* (Hair loss), *Palitya* (Premature Greying of Hairs) *Indralupta* (Alopecia areata) and *Darunaka* (Dandruff) etc. Like other disorders of body disbalance of *Vatta*, *Pitta* and *Kapha* are also involves in the aetiopathogenesis. *Keshya* (Hair tonic) *Keshya-Samjanana* (Hair revitalizer) and *Keshya-Ranjana* (Natural hair restoring agent) are used to treat hair fall and pre-mature greying of hair. The greying of hair and wrinkle on the face are the two important cardinal features of aging. Classical *Ayurvedic Chikitsasutra* (treatment guideline) advocated the *Poshana* (nourishment) of *Dhatu* for the normal growth of *Updhatu* and *Mala*. Similarly, the treatment of *Mula* (Origin) of *Srotas* (micro and macro channels of body) is also considered in the treatment. Indian Gooseberry, false Daisy, true indigo, iron-containing compounds and other herbs are used as *Rasayana* (rejuvenator), *Panchkarama*, *Snehana* and *Vasti Chikitsa* to treat hair disorders.

**Keywords:** Hair Problems, Ayurvedic, Rasayana.

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## INTRODUCTION

Ayurveda is more than a healing system [1]. It is an ultimate science and art for an appropriate lifestyle, which helps us to achieve longevity. Improper *Aahara* (diet) [2, 3], not following the principle of *Dincharya* (Daily routine) [4] and *Ritucharya* [5] living in polluted environment and stressful work culture fasten the process of ageing. *Rasayana* [6] is the group of medicine and activities which decrease & revert the process of ageing. Besides *Rasayana dravaya*, *Rasa* (Mercury) [7] *Lauha* (Metals) [8] *Ratana* (Gems)[9] *Visha* (Poisons)[10] and some formulations are works as *Rasayana*. *Vali* (Wrinkles), *Palita*, *Kalitya*, Age spot, sagging skin, dull skin tone and thin skin are chief cardinal feature of aging. Beautiful, long and attractive hairs of the scalp enhancing factor to the personality.

Among these *Aakal-Palitya*, *Khalitya* and *Darunaka* are chief common hair problems. Disturbance of *Trisdosa* are the main reason of these disease and disorder. In modern medical science many factors contribute to hair diseases i.e family history

(heredity), hormonal changes due to pregnancy, childbirth, menopause and thyroid problems. So hair problems are the manifestation of many diseases. Medical conditions i.e scalp infections such as ringworm and hair pulling disorder called trichotillomania. May be due to side effects of certain drugs, such as those used for cancer, arthritis, depression, heart problems, gout and high blood pressure. General thinning of hair after a physical or emotional shock. Excessive hairstyling or hairstyles that pull your hair tight, such as pigtails, can cause a type of hair loss called traction alopecia [11]. The main reason behind the upsurge of hair problems are more frequently seen due to extremely busy schedule of working hours, pollution of the environment and unhealthy dietary habits [12]. There are many types of treatments, medicines, supplements and Shampoos are available in the markets. Most of the formulation is over-the-counter products. So, without taking the advice of the expert, result of these is not getting proper. Most of the market products claim that they are safe because of herbal or Ayurvedic preparation. Here

we are discussing and exploring some common hair problems and explaining the ayurvedic terminology for medicine used, and drugs.

### Kesh (scale hair)

A normal human being has approximately 1 million hair follicles on his body, of which 1 lack hairs on the scalp. A hair normally grows at the rate of approximately 1 cm per month, but each hair grows in cycles, each cycle being constituted by –

- The growth phase (Anagen)
- The transition phase (Catagen)
- The resting phase (Telogen)

The catagen phase in a hair cycle usually lasts 3 weeks, while the telogen phase lasts 3 months. The duration of the anagen phase in different hair follicles however, varies depending upon the site of the body. In the scalp hair the duration of anagen phase can be as long as 10 years. After completing the anagen phase, each hair follicle enters into the catagen phase which is followed by telogen phase. The old hair however, falls off only after the completion of the telogen phase and when the new hair has already started growing in its place [13]. In Ayurveda hairs are known as *Kesha*. The word '*Kesha*' originally has been brought about from "*shee*" with "*ach + aluk samasah*" which has been explained as "*ke mastake shete iti*" by HalayudhaKosha [14].

### Postana (Nutrition) of Kesha

In the origin and development of *Kesha* i.e. hair, there is significant need of *Prithvi* (earth element) and *Akasha* (space/ether) *Mahabhoota*. According to Acharya Charaka ingested food is digested to

assimilable nutritional fluid (*Ahara rasa*) which further divides into two parts namely – *Sara Bhaga* (essential fluid) and the *Kitta* (excretory matter/waste matter). The waste matter is responsible for the production and nutrition of so many things like sweat, urine, hair, etc., and among them are the hair follicles the hair of the head and beard, hair of the body, etc., [15] According to Sushruta *Kesha* nutrition form the end part of *Dhaman* (Circulation), which are attached to the *Romakoops*[16]. In Ayurveda there are seven *Dhatu* (tissue) in the body. *Jataragni* (Digestive power) is the main Agni that convert *Ahar* into *Ahar Rasa* (essence of food), which further converted into Seven *Dhatu* by the *Dhatuagni* and *Bhutagni*. The concept of process of transformation of one *Dhatu* into subsequent *Dhatu* is called *Dhatu Poshana Naya* in Ayurvedic doctrine. This type of conversion comes under *Kshir Dadhi Nyaya* & *Kedari kuliya Nyaya*. But Acharya Chakrapani strongly discarded the *Kala-Kapota Naya*. So if one *Dhatu* is assessing as under nutrition than nutrition of former *Dhatu* is necessary [17]. During the process of formation and development of hair, the successive role of other tissues can also be estimated; because, though its origin begins at the earliest for its appearance it takes much time. So the role of subsequent *Dhatu*s (Tissue) like *Asthi* (Bone) and *Majja* (Bone marrow) can be well judged because hair is a *Mala* (By product) of *Asthi Dhattu* (Bony tissue) and *Majja* is subsequent tissue.

The word '*Keshya*' is suggestive of '*Keshaaya Hitam Yat Tat*'. It means that which is good for hair. Various *Keshya* drugs described in Bhav Prakash Nighantu are mentioned in table No.1.

Table No. 1

S. No	Sanskrit Name	English Name	Botanical Name	Part Used
01	Vibhitaki	Bastard myrobalan	<i>Myrobalanus bellirica</i> Gaertn	flower
02	Yastimadhu	Liquorice	<i>Glycyrrhiza glabra</i>	Root
03	Bakuchi	Bavacalu	<i>Psoralea corylifolia</i>	fruit
04	Bhallataka	Marking nut	<i>Semecarpus anacardium</i> Linn	Stalk
05	Gambhari	White teak	<i>Gmelina arborea</i>	flower
06	Sindhuvara	Five-leaved chaste tree	<i>Vitex negundo</i>	whole plant
07	Gunja	Rosary pea	<i>Abrus precatorius</i>	seeds
08	Neeli	True indigo	<i>Indigofera tinctoria</i>	whole plant
09	Bhringraj	False daisy	<i>Eclipta prostrate</i>	whole plant
10	Saireyaka	Porcupine flower	<i>Barleria prionitis</i>	leaf & Root
11	Japa	China rose	<i>Hibiscus rosa-sinensis</i>	flower
12	Bijaka	Indian kino tree	<i>Pterocarpus marsupium</i>	stem core
13	Tila	Sesame	<i>Sesamum indicum</i>	seed

*Kashisham Bhasma*, *Saptamrita Lauha* and *Narsingh Rasayan* also have *Keshya* properties. *Rasayan* contains various phytochemicals and vitamins which are favourable for hairs.

This is explained with the broad heading of *Keshya* concept. So the goodness of hair can be understood by three perspectives like-

- ***Kesha sanjanana***: that which helps in the origin of hair.

- **Keshha vardhana:** that which promotes hair growth or which makes hair dense and thick.
- **Kesha ranjana:** that which gives dark black color to the hair.

### Diseases of hairs in ayurvedic classics

#### (a) *Khalitya*

*Khalitya* is one of the *Kṣudra Roga* [18]. *Vata*, *Pitta*, *Kapha* and *Rakta* are involved in *Khalitya* as mentioned in the texts [18].

According to Ayurveda, the vitiated *Vayu* and *Pitta* having recourse to the root of the hairs make the hairs fall off, while the vitiated blood and *Kapha* of the locality fill up the hair follicles, thus blocking their fresh growth.

There is redness of scalp in diseased region which indicates towards involvement of *Pitta*. A case study on Ayurvedic management of *Khalitya* (Alopecia areata) by *Virechana Karma* (Purgation) and concurrent use of systemic medicines and *Rasayan* drugs shows that *Virechana karma* is extremely beneficial in the management of *Khalitya* (Alopecia areata) [19]

#### Treatment of *Khalitya*

1. The affected part should be scraped by *Karkash Patra* (leaves for scraping) such as *Mallotus philippinensis* and should be applied the following *Lepa* (paste) or oil preparation.

- Lepa* of Gunja (*Abrus precatorius*) seed powder [20]
- Hasti-Dantamashi* (elephant task) *lepa* [21]
- Hasti-Dantamashi* (elephant task) -*Rasanjan lepa* [21]
- Bhalatakadi* (*Semicarpus Anacardium*) *lepa* [21]
- Madhukadi lepa*. In this *Lepa Yasthimadhu* (*Glycyrrhiza glabra*), lotus, *Manuka* (*Vitis vinifera*), oil, ghee and milk in equal amount should be applied [22].
- Oil preparation by *Malati* (*Myristica fragrans*), *Karavira* (*Nerium indicum*), *Chitraka* (*Plumbago zeylanica*) and *Karanja* (*Pongamia pinnata*) [20].
- Hasti-danta* (elephant task) along with *Til taila* (*Sesamum indicum* oil) [21].
- Lepa* of *Gokshur* (*Tribulus terrestris*), *Til* (*Sesamum indicum*), honey and ghee should be applied on the scalp [22].
- Swaras* (juice) of *Patol* (*Trichosanthes dioica*) leaves applied for 3 days said to cure *Khalitya* [22].
- Snuhidugdha taila* [22] (*Euphorbia nerifolia*)

2. *Rasayana* medicine (rejuvenation therapy) should be administered [20] as it is difficult to cure and as such cannot be eliminated without *Rasayana*.

3. Acharya Charaka has mentioned *Khalitya* in *Chikitsashasthan* 26<sup>th</sup> chapter and stated that first *Vaman* (emesis) and *Virechan* (purgation) therapy should be given, then *Nasya* (Administration of drugs by the route of nasal cavity) treatment and then oil for massaging

hair and scalp, should be given to the patient. He mentioned *Vidarigandha taila* (*Desmodium gangeticum*) and *Tiladi yoga* for local application [23].

4. *Chameli* (*Jasminum officinale*), *Karanja* (*Pongamia pinnata*) and *Varun* (*Crataeva nurvala*) paste should be used for *Abhyanga* [22].

5. *Rakta-mokshana* (Bloodletting - Removal of impure blood) is also a best therapy in *Khalitya* [20].

About one lakhs hairs are present in Scalp. Around one hundred hairs are lost daily in normal person. If the number increases manifold. This disease is called Alopecia. There are of 2 types- (i) Non-cicatricial alopecia (ii) Cicatricial alopecia, which is further of different type, on the basis of location, pattern and cause [24].

Topical minoxidil, Antiandrogens like finestrade, cyproterone, spionlactone, flutamide, cimetidine and Hair transplant surgery are use in modern medicine.

#### (b) *Palitya*

The *Agni* and *Pitta* of the body having recourse to the head owing to overwork and fatigue tend to make the hair prematurely grey. *Palitya* disease has been explained in all *Samhitas* in different chapter. *Sushruta* explains *Palithya* in *Kshudra Rogadhikara* [25], *Vagbhatta* in *Shiro Kapalagata Roga* [26] and Charaka under *Urdhwa jatrugata Roga* [27].

On the basis of different *Doshas* these *Lakshana* is found in the *Palitya*: Hairs are split, ash colour, rough, dry and resembles water- *Vataja*, Burning sensation in the scalp and the hairs are yellowish. -*Pittaj*, The scalp is unctuous and hairs are growing thick and white. -*Kaphaja*, Presence of all the features should be noticed. -*Tridoshaja* [28].

#### Treatment of *Palitya*

1. In Ayurveda, *Nasya* treatment is stated as one of the best treatment for *Palitya*. Different oils are described in different Ayurvedic text for *Nasya* therapy in *Palitya*.

- Vidarigandha taila* (*Desmodium gangeticum*) [29]
- Sahacharadi taila* (*Barleria prionitis* L.) [29]
- Bhringaraj taila* (*Eclipta alba*) [30]
- Prapondaraki taila* (*Nymphaea lotus*) [29]
- Nimba taila* (*Azadirachta indica*) [30]
- Sheilu taila* (*Cordia wallichii* G.DON) [30]
- Maha nila taila* (*Indigofera tinctoria*) [29]

2. Different *Yoga* (formulation) are also mentioned for *Lepa* [29]

- Dugdika-karavira yoga*
- Tiladi yoga*

3. *Loha yoga* decoction has been suggested for washing hair [31].

4. Triphala, Nilivruksha, Loha Bhasma, Bhingaraja mixed with sheep's urine should be applied, which makes the hair black [31].

Premature greying is an important cause of low self-esteem, often interfering with socio-cultural adjustment. And it is a burning problem as large percentage of population especially young men and women in present times are suffering. In Ayurveda premature graying of hair is called as *Akala Palitya*. The incidence of premature ageing along with *Akala Palitya* is on increase, particularly in tropical and developing countries. According to W.H.O in India, its incidence is high in the age group of 20-30 years. Hence premature graying has long attracted researchers and industry alike with scientific as well as commercial targets. Hair coloring involves the use of chemicals which can result in a range of adverse effects like allergic reaction.

#### (c) Indralupta

'Indralupta' or 'Alopecia areata' is mainly a cosmetic condition where we find a patchy loss of previously existing body hairs. When we go through different Ayurvedic texts lot of references are found indicating the use of poisonous drugs as an external application for various types of diseases & alopecia areata is a disease which requires a topical type of treatment. It is one of the common therapeutic problems which challenge the skill of the people working in the field of dermatology.

Alopecia areata is also known as spot baldness. It is a common autoimmune skin disease causing hair loss on the scalp, face and sometimes on other areas of the body. Alopecia can be the cause of psychological stress; individuals with it may experience social phobia, anxiety and depression.

In modern medicine topical or injected corticosteroids are used to treat this condition. Alopecia areata is the commonest cause of patchy hair loss. It may be regarded as an immune-mediated type of hair loss. The condition affects 0.1% to 0.2% of the population and occurs in both males and females. A single round or oval patch of complete baldness develops rapidly usually over the vertex or in the occipital region. There are no subjective symptoms and the denuded area of scalp is of normal color and texture. Patches in the beard may occur alone or in association.

#### (d) Darunaka

Different Ayurvedic classics describe hair disease like *Darunaka* in which due to *kapha pita prakopa* the scalp becomes hard itchy rough and scaly. In *Darunaka* the dead tissue shedding down from scalp, with symptoms like *Kandu*, *Kesha Chyuti Rookshata*, *Twakspatana*, etc. due to the vitiation of *Vata* and *Kaphadosha*. It affects almost everyone atleast

sometime during their adult life and cause significant discomfort.

#### Treatment of Darunaka

1. *Snehan* (anointment) and *Swedan* (fomentation) are the best remedies for *Darunak* [20].
2. *Sira veda* (taking out of impure blood), *Avapida nasya* therapy and *Sirobasti* are very effective [20].
3. *Abhyanga* (massage) with oil which will decrease the vitiation of *Vata* and *Kapha* like oil prepared from Gunja (*Abrus precatorious*) and Bhingaraj (*Eclipta prostrata*) should be used [20].
4. The affected parts should be washed with the alkaline solution of *Kodrava* weeds [20].
5. For local application - paste of Chironji seeds (*Buchanania lanzan*), Yashtimadhu root (*Glycyrrhiza glabra*), Kutha stem (*Saussurea lappa*), Urad seed (*Vigna mungo*) and Saindhav lavan mixed with honey or application of paste of seed of mango powder with Haritaki (*Terminalia chebula*) powder is also suggested [20].
6. Tankan (Borax) is applied on hair and kept for 5 to 10 minutes and then washed out [32].

Dandruff (Pityriasis Capitis) is a common scalp disorder, characterized by presence of corneocytes that form clusters due to their high cohesive power, in the form of flaky white to yellowish scales, accompanied by itching. It has been observed that affecting almost half of the population at the pre-pubertal age and of any gender and ethnicity [33]. It occurs in both sexes and persons of all races [34]. The peak incidence and severity of dandruff occurs at approximately 20 years of age [35]. It is considered as very frequent, and appears to be more frequent among men than women and more frequent among young people than older people. No population in any geographical region would have passed through freely without being affected by dandruff at some stages in their life. Dandruff affects aesthetic value and often causes itching.

It has been well established that keratinocytes play a key role in the expression and generation of immunological reactions during dandruff formation. The severity of dandruff may fluctuate with season as it often worsens in winter [36]. A study done by [37] showed that clinically *Siro-abhyanga* [38] procedure with Gunjataila [39], with Nimbatwak churna showed better results in treating *Darunak*.

## CONCLUSION

Hair is an important part of our body. It not only enhance the beauty but also serve as body guard of skull during mild injury by reducing the impact of force by providing cushion like features. Disease of hair is early signal of some systemic and chronic disease. Nutrition of *Dhattu* promotes the *Upadhatu* and *Mala*. So nourishment of *Asthi Dhatu* and Treatment of *Asthi Dhatu Vikar* is essential required for the treatment of the hair disease. Multiple nutrient deficiencies may

result in hair loss. Nutrient deficiencies may arise due to genetic disorders, medical conditions, or dietary practices. As far as the matter of hair and its growth is concerned, once again we can deduce the need of nutrition and essential body requirements as it is formed/derived from the subsequent tissues. So providing the nutrition to the previous *Dhattu* and along with concern *Dhattu* is the necessary to provide the nutrition for *Updhattu* and *Mala*. In Ayurvedic classics so many *Yogas* (Formulation) and *Chikitsa Karama* (Treatment methods) are described in texts. Many OTC Hair Care products are in market are not showing significant result due to improper use.

## ACKNOWLEDGMENT

I am very thankful to, Dr. Sushma Rawat & Dr. Suchi Mitra of Rasa Shastra & Bhaishajya Kalpana Department for providing valuable suggestion and helping in preparation of this manuscript.

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