

**Research Article**

**Physico-chemical analysis of *Haridradyam taila***

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**ABSTRACT:**

*Haridradyam taila* is medicated oil used in Ayurveda for *Arunshika*. *Arunshika* comes under *kshudra roga* which is correlated with dandruff which is caused by vitiated *kapha* and *Rakta dosha*<sup>1</sup>. *Haridra* is one of the classical ayurvedic drugs for the management of different disease conditions.

The aim of the present study is to do physico-chemical standards for *haridradyam taila*. *Haridradyam taila* has been described in *chakradatta* to be use in *Arunshika*<sup>2</sup> (dandruff). *Arunshika* is skin disorder affecting the skin of scalp for which many internal and external medicines are suggested in treatment. Local application is more powerful in skin (scalp) disorders as it directly acts on affected parts. *Haridradyam taila* has been prescribed as it's directly act on skin (scalp) and its content possesses the properties of *Arunshika nashak*.

**KEY WORDS:** *Haridradyam taila*, *Arunshika*

**INTRODUCTION:**

Ayurveda is well developed, documented traditional system in indian medicine.

Rasashastra and bhaishajyakalpna is one of the Brain of Ayurveda deals with the pharmacological aspect of drugs. Some of which have unique attributes, these unique attributes needs to be validate and explored using the scientific and technological advances of today's world. Which shall open up new avenues for drug processing, development and therapeutics in Ayurveda

*Haridradyam taila* is medicated oil used in Ayurveda for *arunshika* stated by *chakradatta*. *Arunshika* is a *kshudra roga* which affects the scalp. In ayurvedic texts many remedies are described as internal medicines and external applications for *arunshika*. *Tail kalpana* are the unique formulations of ayurvedic treatment which are prepared using oil as base. *Taila* are used for both *bahya* and *abhyantar chikitsa*. The aim of the present study is to do physico-chemical standards for *haridradyam taila*. The drugs used in *haridradyam taila* are *Haridra*, *Daruharidra*, *Nimba*, *Bhunimba*, *Triphala*, *Neem* and *Chandan*.

**Aim** - To study the pharmaceutico-Analytical study of *Haridradyam taila*.

**OBJECTIVES**

1. To identify the raw materials of *Haridradyam taila*.
2. To authenticify the raw materials of *Haridradyam taila*.
3. To study the literature of *Sneha Kaplana*
4. To prepare the *Haridradyam taila*
5. Analytical study of *Haridradyam taila*

**MATERIALS AND METHODS:**

The raw material was collected from the field as when required and subjected to the standardization based on the data provided in the Ayurveda pharmacopoeia

**PREPARATION OF HARIDRADYAM TAILA**

*Haridradyam taila* was prepared according to the procedure mentioned in *Chakradatta*.

The sample were prepared under the supervision of our unit head.

**METHODOLOGY**

1. *Kalka* was prepared by using-*Haridra*, *Daruharidra*, *Kiratatikta*, *Nimb*, *Chandan*, *Triphala*, and *Jala* as required.

2. *Kalka* of all above *dravya* are 250 gms and 1 lit of *taila*, 4 lit of *Jala* were added to it. Then it was heated on mild flame till the *Siddhi lakshanas* of *taila* appeared.
3. *Sneha siddhi pariksha* was done to confirm that there is no water content left in *Sneha* and it is ideal to use as medicine
4. There are three *Sneha siddhi lakshana*

**Pariksha:**

1. *Phenodgama*- Foam starts coming on *taila*.
2. *Varti*-When the *kalka* is rubbed in between the finger of the hand *varti* forms
3. *Shabda Pariksha*- *Sneha* is dropped on flame it gets burn without any noise (without cracking sound)

After attaining the *sneha siddhi lakshan* the fire was withdrawn & the *Haridradyam taila* was filtered with help of cleaned cloth when it is lukewarm.

Table No. 1: Ingredients of *Haridradyam taila*

Sr. No.	Raw Drugs	Parts Used	Quantity
1	Haridra	Rhizome	250 GMS
2	Daruharidra	Rhizome	
3	Bhunimba	Leaves	
4	Triphala	Fruits	
5	Nim	Leaves	
6	Chandan	Heartwood	
7	Tila taila		1 Lit
8	Jala		4 Lit

**OBSERVATIONS:**

1. During preparation it becomes sludge like, light brown coloured *haridradyam taila* was obtained
2. The *kalka* was looking smooth dense mass accumulated in form bolus, separated from layers of *taila* when rolled between two fingers, the *kalka* become wick (*varti*) likes
3. The *kalka* is sprinkling on the fire, no crackling sound observed.
4. Characteristic, colour, smell and taste were appeared

To evaluate the formulations prepared, quality control tests including organoleptic assessment and physicochemical controls such as Refractive index, iodine values, saponification, unsaponification matter, ph, and specific gravity were performed.

**RESULT**

*Tila taila* taken was 1000 ml and final product obtained was-750ml

Analytical test of *Haridradyam taila* was done and result are given in following table

**Evaluation-**

The prepared *haridradyam taila* was analyzed in Authenticated laboratory

Table No. 2: Analytical value of *Haridradyam taila*

Test	Result
Appearance	clear oil
Color	Yellow
Odor	Characteristics
Taste	Characteristics
Refractive index	1.470
Specific gravity	0.924
Saponification value	189
Unsaponification matter	1.4
Iodine value	105
Ph.	4.9

**DISCUSSION:**

Raw materials processed from authentic source that give optimum results it reflects in physico-chemical analytical studied of raw materials. All raw materials pass the Ayurvedic pharmacopeia standards. Physico

chemical parameters are selected as these are the minimum parameters required to evaluate the quantity of *taila* preparations.

Quantity of herbal medicine depends on the originality of raw drugs. Method of preparation, proper storage, correct dose and dosage regimen.

Organoleptic study shows that appearance, odor and it acceptable to go for further analysis. Physico-chemical analysis results shows that oil prepared was physically and chemically stable and help to maintain consistency of Madhyam paka as it required for local application.

Ayurvedic literature named Chakradatta has explained *Haridradyam taila* in *Arunshika* which is included in *Kshudra Roga Prakaran* as mentioned in *samhita*.

*Tila taila* is used as a base for preparation of oil.<sup>3</sup>

In *Haridradyam taila* *Haridra*, *Daruharidra*, *Bhuniimba*, *Triphala*, *Nimb*, *Chandan*, were the main constituents. In this *Haridra* and *Daruharidra* are *katu tikta rasatmak*, *ushna viryatmaka*, *twaka doshahar*, *kapha pittahar*, *raktashodhak*<sup>4</sup>

*Bibhitaki* is *ushnaviryaya*, *kaphanashak* & *katu tikta rasatmak*<sup>3</sup>

*Amalaki* is *sheeta viryatmak*, *kaphanashak* & *panchrasatmaka*<sup>4</sup>

*Bhuniimba* is *kaphapittanashak* & *tikta rasatmaka*. *Hritaki* is *panch rasa* & *ushnaviryatmaka*<sup>5</sup>

*Chandan* is *katu- tikta rasa* & *sheeta viryatmaka*<sup>6</sup>

*Haridradyam taila* is unique formulations designed by our *Acharyas* for the management of symptoms of *Arunshika*. *Arunshika* (dandruff) comes under *kshudra roga* which is having chief complaints of dryness and itching on scalp for which the main line of treatment is explained as *Abhyanga*. If we look in to the general method of preparation of any *snehan drayas*, it is said that the preparation of *snehan* should not be completed in a single day and the reason behind these may be explained in terms to extract all the active principles. Clinical study of *Haridradyam taila* can be done on patients and analytically found to be safe for external use.

## CONCLUSION:

The quality control parameters, resulted after a scientific evaluation of *Haridradyam taila* can be used reference standard for quality control protocols to have a proper quality check over its preparation & processing

As the *Haridradyam taila* is working against *Arunshika*, oil plays an important role in preserving the structure of the skin of scalp.

Analytical parameters show it is safe for external application.

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