



ORIGINAL RESEARCH ARTICLE

Pharmaceutical Preparation, Standardization and Clinical Study of *Talkodaya Malhara* w.s.r. to *Dadru Kushtha*

Author: Keshav Kumar Sharma¹

Co Authors: Avadhesh Kumar Bhatt²

^{1,2}M.M.M.Government Ayurved college, Udaipur, Rajasthan, India

ABSTRACT

Rasashastra and Bhaishajya kalpana is a specialized branch of Ayurveda dealing mainly with Dravya that includes herbs, minerals, metals and animal products. Rasashastra ,populary known as Indian alchemy or latrochemistry is important subject of Ayurvedic curriculum . Malahara is an Arabic word, meaning plaster, dressing for wounds and shelve. Malahara Kalpana is not only applied externally, but is semisolid in all seasons, stable, smooth and soft. Talkodaya Malhar is one such classical Rasaaushadhi which contains Siktha Taila, Hartal, Parad, Gandhak, Haridra ,Khadirsara, Gairik, Girisindur and Manashila. It is indicated in Dadru Kushtha Roga (Twak Vikar) in Rasgrantha. Skin diseases are common manifestation in present era and more so frequent in the elder age. Dadru, is a Kapha Pitta Pradhan Vyadhi and the management of which includes Shodhana, Shamana and Bahiparimarjana Chikitsa among them Shamana measure in the form of Lepa has shown appreciable result in many prior research studies. Dadru can be correlated with tinea infections. Dadru in Khsudra Kushtha which involves the clinical features like Kandu, Deerghapratana, Utsanna, Mandala, Raaga, Pidaka which exhibits involvement of Kapha and Pitta. So a try is given to assess effects of Talkodaya malahar in treating signs and symptomsof Dadru through this present dissertation.

Key Words Ayurved, Rasashastra, Malahar, Khudrakushtha, Dadru, Tinea, Talakodaya Malahar

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INTRODUCTION

History of *Rasashastra* can be traced to pre-vedic period, where metals were successfully employed in treatment of various diseases. The *Bheshaja* in accordance to the requirement is flourished by undergoing different modulations. These efforts designed a new branch *Bhaishajya Kalpana*, an *Ayurvedic* Pharmaceutical science. *Bhaishajya*

Kalpana comprises of two words *Bhaishaja* and *Kalpana*. *Bheshaja* means drug and *Kalpana* means formulation according to *Chakrapani*.

Due to changing life style and food habits etc. there is increased incidence of skin diseases in practice and other systems fail to find a satisfactory solution for it. Therefore it is necessary to find a solution for it through







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Ayurveda. An attempt has been made through this study to standardize the *Talkodaya Malahra*. An attempt is made to clinically evaluate the efficacy of *Talkodaya Malahra* in the treatment of *Dadru Kushtha*. Keeping the above points in mind the present study entitled "Pharmaceutical Prepration, Standardization and Clinical Study of *Talkodaya Malhara* W.S.R. To *Dadru Kushtha*" was carried out.

AIMS AND OBJECTIVES

The study was aimed at:

- 1. To ensure safe and efficacious preparation of *Talkodaya Malahra*.
- 2. Standardization of Talkodaya Malahra.
- 3. To explore and establish clinical efficacy of *Talkodaya Malahra* on *Dadru Kushtha*.

PHARMACEUTICAL STUDY

Procedure:

All the ingredients were weighted according to their proportion in *Shloka*. Then first *Siktha Tail* was taken into that all contents were added according to their sequence and triturated well until homogenous mixture was obtained. The prepared medicine was kept safe in glass container.

Siktha Taila 5.850kg
Shuddha Hartal 390gm
Kajjali 390gm
Haridra Choorna 195gm
Khadira Choorna 195gm
Shuddha Gairik Choorna 195gm
Shuddha Girisindoor 195gm

Shuddha Manahshila 98gm

Various Shodhana processes were carried out before actual making of Talakodaya Malahar. The first was Gandhak Shodhana. Total 400 gms. of Gandhaka was taken initially which was after subjecting to Shodhana reduced to 340 gms. 60 gm of loss was obtained which is 15%. Kajjali was made with equal amount of Shuddha Parad and Shuddha Gandhaka that weights 410gms. Final yield was 400 gms. 10 gms loss was obtained which is 2.5 %. Kushmanda Swaras and Triphala Kwath was made to which Ashuddha Hartala was subjected for Shodhana. Initial amount was 500 gm and final yield was 490 gm. Loss was 10 gm that is 2%. Similarly, Gairik Shodhana was carried with 20% loss obtained. Shuddha Manahshila, the other mineral used in the formulation was taken in from college pharmacy. Likewise Haridra Choorna, Khadira Choorna and Shuddha Girisindura was obtained from college pharmacy store. Siktha tail, which is the base media to prepare Talakodaya Malahar. It was made in the ratio 1:6. That is 1 part of Siktha was added to 6 parts of Tila Taila.

For the preaparation of *Talakodaya Malahar*. For final preparation of medicine 5.850 gm *Siktha Taila*, 390 gm *Shuddha Hartal, Kajjali* 390 gm, *Haridra choorna, Khadira choorna, Shuddha Gairik Choorna, Shuddha Girisindoor* each weighing 195 gm and *Shuddha Manahshila* 98 gm was taken and triturated to mix thoroughly.

Whole pharmaceutical procedure was carried out in steps like *Gandhaka Shodhana*, *Kajjali* preparation, *Hartal Shodhana*, *Manahshila* January 10th 2023 Volume 20, Issue 1 **Page 79**

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Shodhana, Gairik Shodhana, Siktha Tail Nirman, peparation of Talakodaya Malahara etc.

All the ingredients were taken into a mortar & triturated well. They were filled in plastic container of capacity 50ml. 50 gm of which was sent to S.R labs, Jaipur for standardization and anti-microbial study purpose. Rest of the medicine was stored in college pharmacy store.

ANALYTICAL STUDY

Physiochemical analysis, heavy metal analysis and antimicrobial analysis were carried out of the selected drug to ensure safety and efficacy for clinical trial.

a)Physiochemical analysis:

pH value of the drug was found to be 6.16 which denotes that it is slightly acidic in nature.

Loss on drying was found to be 0.38% w/w which shows the formulation has less moisture content so it cannot be easily contaminate. Rancidity is the criterion used to assess whether the sample is decomposed or destroyed. The observed value of this sample is absent which means it is in good condition to be used.

Acid value or free fatty acid content test is done to assure that whether the sample is contaminated or not due to hydrolysis of fatty content by moisture, temperature or enzymatic actions. High values denote inadequate processing or storage conditions. Acid value of this sample is 0.02 mg KOH/g indicates that *malahar* is in good condition.

Peroxide value is the criterion to judge initial stage of fat and oil deterioration. A peroxide

value greater than 10 units denotes that the sample is rancid. In case of this sample, it is $1.32 \text{meqO}_2/\text{kg}$ which shows sample is not damaged.

The higher **the saponification value** lighter the molecular weight of triglyceride and lower the fatty acid in a sample. Saponification value of 133.27 mgKOH/g denotes that it cannot be converted into soap easily.

Unsaponifiable matter means those substances present in oils or fats which are not saponifiable by alkali hydroxides. This sample contains 14.35% unsaponifiable value which is quite high.

Total fatty acid criterion used to assess the quality of an ointment. Higher the total fatty acid more it is good for skin conditions. Here 78.84% w/w shows that this malahar is good for skin diseases.

Spreadibility is the ability of a cream to spread on skin. 5second spreadibility shows this sample can be easily spread through skin.

Thermal stability test of *Talakodaya Malahar* showed that sample is thermally stable.

b) Heavy metal analysis

however, this test is useful for assessment of presence of heavy metal for internal use here it was done for lead, cadmium, mercury. Arsenic. They all was found in permissible amount.

c)Microbiological analysis

total bacterial count and total fungal count was done for the sample to assess any contamination. The value was found to be less than 10cfu which clearly shows that sample is in good state for use.

CLINICAL STUDY

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30 patients fulfilling criteria of *Dadru* were selected from M.M.M. Govt. Ayurved College hospital, Motichohatta hospital, Anusandhan Kendra(Udaipur)

INCLUSION CRITERIA:

It is designed for:-

- 1. Patients presenting with the symptoms of *Dadru Kushtha*.
- 2. Patients having age 12-60 years.

Table 1 Overall effect of therapy

Symptoms BTAT **%** of SD SE T P Re Relief Kandu 30 2.23 0.63 71.64% 0.62 0.11 14.10 < 0.001 HS Raga 30 1.47 0.43 70.45% 0.49 0.09 11.55 < 0.001 HS No. of Mandal 0.30 0.56 0.10 13.46 < 0.001 HS 30 1.67 82.00% HS 30 0.46 9.90 < 0.001 Size 1.93 1.10 43.10% 0.08 Mandal 30 1.20 0.20 0.37 Raja 83.33% 0.07 14.75 < 0.001 HS

Highly significant result at the level of P<0.01 were obtained in all the categary of symptoms & Size of Mandal decreased by

43.10% only due to chronic nature of the disease.

PROBABLE MODE OF ACTION OF TALAKODAYA MALAHARA

The contents of Talakodaya malahara are the Kajjali, Hartala, Manahshila, Gairika, Girisindura. **A11** these conferred have Talakodaya Malahara with the properties like Ushna, Tikshna, Laghu, Vishada Guna, Ushna Virya & Katu Vipaka. Due to its Ushna, Tikshna, Vishad & Sukshma properties it deblocks the obstruction in swedavahi Strotas & allows the local toxins to flow out through the Sweda, thus clearing out the micro channels. The Ushna Virya of Talakodaya Malahara & Snigdha Guna of its vehicle i.e. Siktha Taila causes pacification of 3. Patients with history of *Dadru Kushtha* less than 5 years

EXCLUSION CRITERIA

- 1. Patients with chronic severe illness
- 2. Patients with history of *Dadru Kushtha* more than 5 years.

Yoga – Talkodaya malahar

Dose – As per required area for *Malahara*

Duration– 2 Month

Vata &	Kapha	which	forms	the	Samprapti	thus
alleviating the symptoms.						

CONCLUSION

- 1. The Observations showed that the teenagers & youth are the main victim of the diseases.
- 2. *Dadru* is *Kapha* dominant disease which can be compared with Dermatophytoses.
- 3. Though *Kshudrakushtha Dadru* is very tenacious in nature, hence a treatment schedule lasting continuously up to 3 months is very necessary to avoid relapses.
- 4. *Talakodaya Malahara* gives highly significant results while treating *Dadru*.
- 5. Insofar as the topical applications are concerned, a proper base for its preparation or a proper vehicle for application must be considered vitally, because in topical applications a base or



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vehicle is as important as heart for a human being.



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