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PRELIMINARY PHARMACEUTICO - ANALYTICAL STUDY OF GAIRIKADI MALHARA W.S.R TO RASATARANGINI

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ABSTRACT

Malhara Kalpana is a useful for the purpose of Bahirparimarjana or external application. It is essentially use as a local application like Varnya, Kandughna, Vranshodhana and Vranaropana etc. Malhara Kalpana is the preparation which has Siktha Taila or Ghrita is a basic constituent. In this preparation, there are herbal and mineral contains like Shuddha Gairika, Haridra Churna and Sindoora Churna has been used. Gairikadi Malhara is perform as per Rasatarangini which is effective on Kandu Daha Prashamana and all type of Vranaropana. In Gairikadi Malahara all most contains have Vranaropana, Kandugna property. especially, Shuddha Gairika has a Raktapitta Prashamana, Vishapaham, Kandughna, Udardnuta properties. Following analytical parameters were examined during this study, Acid insoluble ash, total ash, loss on drying, alcohol soluble extractive value, water soluble extractive value, rancidity test, fat content, refractive index, glycosides, steroids, alkaloids. In this study, an attempt has to be done for preliminary Pharmaceutico- Analytical parameters of Gairikadi Malhara.

KEYWORDS: Gairikadi Malahara, Ghrita, Siktha Taila, Rasatarangini, Analytical study.

INTRODUCTION

Medicines are broadly classified in two categories as internal usage like tablets, capsules, syrups, *Choorna*, *Avaleha*, etc., and external usage like *Lepa*, powder, creams, lotions, *Malhara*, etc. In external wound, Skin infections, fungal infections, pain in any part of body external application plays a crucial role. In 19th century, the *Malhara* word from Unani *Vaidhyak* is adopted as a substitute for *Pradeha* or *lepa*. Firstly, Yogaratnakara has been mentioned that it is a *Malhara Kalpana*. Its name *Malhara Kalpana* because it removes *Mala* or residue from *Vrana*, *Tvakavikara* etc. conditions. It is similar to ointment of conventional medicine. [1]

Gairikadi Malhara^[2] is a great combination of herbomineral formulation given by Rasatarangini, which is very effective in Vranaropana and Kandu. Its constituents are Tila Taila, Siktha, Shuddha Gairika (Gairika purified with Go-ghrita), Haridra Churna and Sindoora Churna. Siktha Taila^[3] acts as a base of preparation of Malhara. All most contains having Raktaghna, Kandughna, Vranaropana property. Especially, Gairika has a Kandughna and Pittaraktanuta property therefore effective in Pittavikara.^[4] Hence, Haridra has a Katu, Tikta in Rasa, Ushna Virya, Ruksha, Kaphapittanuta, Varnya, Tvakdosha, Shotha and

Vranapaham. [5] While Sindoora or Girisndoora has a Kshudrakushthaghna, Tvachyam, Vranavishodhanam, Raktadoshanishudanam. [6]

MATERIAL AND METHODS

Gairikadi Malhara is developed on the basis of Malhara Kalpana process which is trituration method with Siktha Taila mentioned in Rasatarangini. Gairikadi Malhara is a herbomineral formulation having four ingredients in its composition.

Reference

सुवर्णगैरिकं शुद्धं तोलकैकमितं शुभम् । तन्मितां रजनीश्चेव माषकं भालभूषणम् ॥

सिक्थतैलं च विमलं कर्षत्रितयसंमितम् । सम्पेष्य खलु यत्नेन काचकुप्यां तु विन्यसेत्॥

गैरिकाद्यो मल्हरो नामतः परिकीर्तितः । कण्डूदाहप्रशमना विविधव्रणरोपणः ॥

(R.T.22/130-132)

Principle – Trituration.

Equipment

Weighing balance, Stainless Steel Vessel, Stainless Steel spatula, Gas stove, air tight glass bottle, Perceline *Kharala*.

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Showing the ingredients for Gairikadi Malhara

Sr. No.	Ingredients	Quantity (g.)
1.	Siktha Taila	72
2.	Shuddha Gairika	12
3.	Haridra Churna	12
4.	Sindoora Churna	1

Procurement of raw Drug

Raw drug of *Gairikadi Malhara* was procured from Sundar Ayurved Pharmacy, J.S. Ayurved Mahavidyalaya, Nadiad.

Method of Gairika Shodhana^[7]

Gairika Shodhana was done by Bharjana (frying) method with little quantity of Go-Ghrita which is given by Rasatarangini.

Method of preparation Gairikadi Malhara

- ✓ Above mentioned ingredients of *Gairikadi Malhara* was taken and weighed properly.
- ✓ After that Siktha Taila was taken in Porceline Kharala.
- ✓ Addition of Powder drugs into *Kharala* one by one and trituration was done.
- ✓ The mixture of *Gairikadi Malhara* was triturated continuously to achieve homogeneity.
- ✓ After the completion of mixture finish product was stored in air tight glass bottle.

Plates showing images of ingredients and method of preparation of Gairikadi Malhara

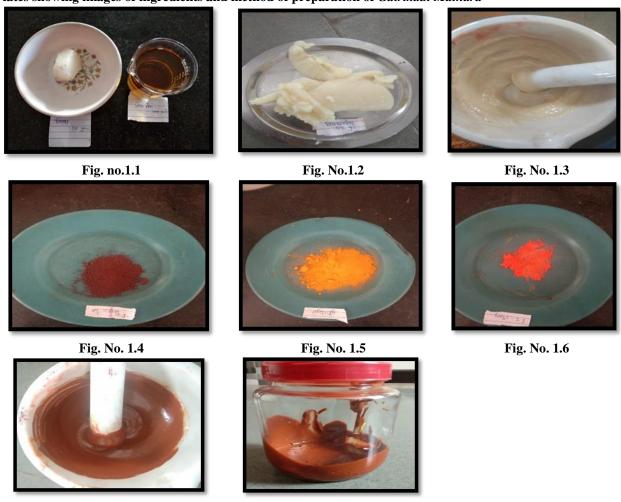


Fig. No. 1.7

Fig. No. 1.8

RESULTS

Sr.No.	Parameters	Results
1.	Initial Wt. of Gairikadi Malhara(Siktha Taila + Shuddha Gairika + Haridra Churna + Sindoora Churna)	72+12+12+1= 97
2.	Final wt. (g.)	62
3.	Loss/Gain in Wt. (g.)	Loss = 35 g.
4.	Yeild of Gairikadi Malhara (%)	63.91%

OBSERVATION

- ✓ All powders were passed through sieve no. 125.
- ✓ So, they were absorbed nicely in *Siktha Taila* when triturated well.
- ✓ Proper homogeneity was obtained.
- ✓ Final Mixture of Product converted into brownish color.

Precaution

- ✓ Powders must be fine.
- ✓ Trituration should be properly and in one direction.

Physicochemical Parameters of Gairikadi Malhara.

Sr.No.	Parameters	Results
1.	pH ^[8]	7.03
2.	Total Ash ^[9]	10.04%
3.	Acid insoluble Ash ^[10]	1.51%
4.	Loss on Drying ^[11]	0.89%
5.	Water soluble extractive value ^[12]	0.89% w/v
6.	Alcohol soluble extractive value ^[13]	2.4% w/v
7.	Refractive Index ^[14]	1.402

Phytochemical Parameters of Gairikadi Malhara.

Sr.No.	Parameters	Results
1.	Starch ^[15]	Absent
2.	Alkaloid ^[16]	Present
3.	Flavanoid ^[17]	Absent
4.	Saponin ^[18]	Absent
5.	Glycoside ^[19]	Present
6.	Tannin ^[20]	Absent
7.	Steroid ^[21]	Slightly present
8.	Rancidity ^[22]	Fat definitely oxidized
9.	Fat content ^[23]	Present

DISCUSSION

Gairikadi Malhara is an effective external application formulation in case of Kandu(Itching sensation), Daha(Burning sensation) and all type of wound healing which is given by Rasatarangini. Gairika which is prime drug of selected formulation having Kandughna and Pittaraktanuta property therefore effective Pittavikara. Siktha Taila was also prepared by method of 1 part of Siktha and 6 part of Tila Taila which is given by Rasatarangini. Which is helpful for *Sheeta* (Winter) season of Adanakaal. It is Important formulation of Ayurved in that particular season on comparative of conventional medicine. In preparation of Malhara, Siktha Taila performed as a base. Haridra having Katu, Tikta Rasa, Ushna Virya, Ruksha, Kaphapittahara, Varnya, Tvakdosha, Shotha and Vranapaham as we can say that Haridra is very good for Pitta and Raktavikara so, good in Skin disease likewise Sindoora is best for Kshudrakushthahara property, Tvachyam, Vranavishodhanam, Raktadoshanishudanam. Here, an attempt has been made to preliminary pharmaceuticoanalytical study of Gairikadi Malhara for that analytical test as physico-chemical parameters like pH is 7.03, total Ash is 10.04%, Acid insoluble ash is 1.51%, Loss on drying is 0.89%, Water soluble extractive value is 0.89% w/v, Alcohol soluble extractive value is 2.4% w/v, Refractive Index is 1.402.

CONCLUSION

A batch of *Gairikadi Malhara* was prepared on classical basis and evaluated all the possible parameters. The present study suggests that *Gairikadi Malhara* can be used as external application for the condition of Itching and Burning sensation and all type of wound healing presentation over the skin.

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