

ANALYTICAL STUDY ON PANCHVALKALA YONI VARTI – AN AYURVEDIC
FORMULATIONRiya^{1*}, Sharma Kalpna² and Tomar Pravesh³¹MS Scholar (2nd year) in Department of Prasuti Tantra Evam Stree Roga at Rishikul Campus, UAU, Haridwar, Uttarakhand, India.²Prof. & HOD in Department of Prasuti Tantra Evam Stree Roga at Rishikul Campus, UAU, Haridwar, Uttarakhand, India.³Prof. in Department of Prasuti Tantra Evam Stree Roga at Rishikul Campus, UAU, Haridwar, Uttarakhand, India.***Corresponding Author: Dr. Riya**MS Scholar (2nd year) in Department of Prasuti Tantra Evam Stree Roga at Rishikul Campus, UAU, Haridwar, Uttarakhand, India.

Article Received on 28/12/2021

Article Revised on 18/01/2022

Article Accepted on 08/02/2022

ABSTRACT

Panchvalkala Kalka is mentioned in the management of *Pittala Yonivyapada* in *Charak Samhita Chikitsa Sthana*, which is an Ayurvedic text. The drug has been chosen to treat the *Pittala Yonivyapada* (vulvovaginitis) a disease of *Yoni* which occurs due to the predominance of the *Pitta Dosha*. Keeping in mind the comfortability in using the drug by the patient, the *Kalka* has been converted into the *Varti* form. After the drug has been prepared it has undertaken through analytical study to establish the physical or the organoleptic character as well as the chemical nature which includes heavy metal content and the microbiological test to serve as the supporting literature and to maintain the standard quality of the formulation.

KEYWORDS: - *Panchvalkala, Yoni Varti, Pittala Yonivyapada, Vulvovaginitis.***INTRODUCTION**

Yoni Varti Dharan in *Yoni* is the local therapy which is mentioned by the different *Acharyas* in different *Samhitas*. It is a therapeutic procedure which is used to treat the different *Yoni Rogas*. *Yoni Varti* according to the modern view can be known as vaginal pessary or vaginal suppository. The drug chosen to prepare the formulation i.e *Yoni Varti* consist of 5 ingredients- *Vata, Udumbara, Ashwatha, Parisha* and *Plaksha*. These ingredient are *Laghu Ruksha* except *Plaksha* which is *Guru Ruksha, Kashaya Rasa, Sheeta Virya* and *Katu Vipaka* and hence capable of balancing the *Pitta Dosha*. Along with these properties they are also have *Vranaropana* (Wound healing), *Shothahara* (Anti-inflammatory), *Graahi, Visarpahara, Vedanasthapan* (Pain reliever), *Stambhana* (striking action), *Raktashodhak* (hemostatic). The drug was chosen with the aim of relieving all the features of the *Pittala Yonivyapada* – which occurs due to the predominance of the *Pitta Dosha* and is characterized by the - *Yoni Daha* (burning sensation in vaginal area), *Yoni Paaka* (local suppurative changes), *Jwara* (fever) and *Kunapgandhi Srava* (foul smelling vaginal discharges) etc. Keeping all of these effects in the mind the drug was prepared and analysement of the physical and the chemical nature will serve as the reference for the future research work.

MATERIAL AND METHOD**Aims and objectives**

1. To analyze the physical or the organoleptic character of the drug.
2. To find out heavy metal content and the microbiological study of the *Panchvalkala Yoni Varti* prepared by the classical and the modified method.

Collection of the raw material

All of the ingredients (bark of *Panchvalkala*) in the raw form were taken from the ANAMIKA PHARMACY SIDCUL, HARIDWAR (UTTARAKHAND). After that all of these ingredients were got verified from the *Dravyaguna* department.

Method of preparation

All bark of these were converted into the powder form before that all ingredients was kept in the dryer for 5 days, got dried and then was taken out. After that all the ingredients were taken of the grinding and the filtering department of the ANAMIKA PHARMACY and then all of these were grinded into the grinding machine and after that for filtering these were led to pass via the 100 micron mesh size. The Same process was repeated for 3 times. After that all of these ingredients mixed with binding agent *Babool Gondh* and then later rolled into elongated round *Varti* which is equal to half *Karsha Pramana* (4-5 gm) with the help of 5ml dispovan. Firstly

a sample of 100gm was first manufactured with taking all of the ingredients.

Drug	Latin name	Family	Usage form
Vata	<i>Ficus bengalensis</i>	Moraceae	Bark
Udumbara	<i>Ficus glomerata</i>	Moraceae	Bark
Plaksha	<i>Ficus lacor</i>	Moraceae	Bark
Parisha	<i>Thespesia populnea</i>	Malvaceae	Bark
Ashwatha	<i>Ficus religiosa</i>	Moraceae	Bark

Analytical study

The prepared final product i.e the *Panchvalkala* was analyzed by employing the various analytical parameters. The analytical study was carried out in the MULTANI LABORATORY, ROORKE HARIDWAR

(UTTARAKHAND).

Physical characteristics description or the organoleptic character – sensory character like color, odor was very carefully noted down.

S. No.	Test Parameters	Results	Method Reference
01.	Appearance	Cylindrical <i>Varti</i>	Visual
02.	Color	Brown	Visual
03.	Average weight	4000mg	API
04.	Uniformity of weight (%)	Within limits	API
05.	Loss on drying	12.44	API
06.	Total ash (% w/w)	8.28	API
07.	Acid insoluble ash (% w/w)	1.89	API
08.	Water soluble extractive (% w/w)	41.10	API
09.	Alcohol soluble extractive (% w/w)	3.54	API
10.	Microbiological contamination		API
	Total bacterial count (cfu/g)	<10	API
	Total fungal count (cfu/g)	<10	API
	E. coli	absent (should be absent)	API
	Salmonella	absent (should be absent)	API
	P. aeruginosa	absent (should be absent)	API
	S. aureus- absent	absent (should be absent)	API

Heavy metals

Arsenic – 0.54 (Limit NMT 3ppm)

Lead – 1.12 (Limit NMT 10ppm)

Mercury – <0.13(Limit NMT 1ppm)

Cadmium – 0.05 (Limit NMT 0.3ppm)

formulations.

RESULT AND DISCUSSION

The pharmacological analysis of the drug was prepared on the final form of the drug i.e *Panchvalkala Yoni Varti*. The analytical study carried deals with both the physical and the chemical properties of the drug prepared. All the values found in normal limits as described in the *Ayurvedic* pharmacopoeia of India (API) indicating the drug to be safe for using in the Yoni (per vaginally) in the *Pittala Yonivyapada*.

CONCLUSION

For the 1st time pharmaceutical and the analytical profile of the *Panchvalkala Yoni Varti* was established. On the basis of the analytical study carried, this study may be used as reference standard in further quality control drug study. This result of the drug prepared can be used as trail for the further development of the *Ayurvedic*