

PHARMACEUTICAL MODIFICATION OF SHADANGA PANIYA INTO INSTANT (READY USE) FORM

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ABSTRACT

There are almost as many forms of traditional medicine as there are cultures so do the dosage form. The use of traditional medicine is increasingly finding more relevance today, especially with the recognition that we are facing challenges in the treatment of several medical conditions. More effective and palatable drug dosage forms are needed in the contemporary era. It is a known fact that any medicine cannot advance without addressing the issues related to dosage form and drug development. Drug modifications are frequently directed at altering properties that influence the concentration of the compound (i.e., its solubility). As we know some Ayurvedic medicines are not palatable, along with that some formulations have very less shelf life, especially liquid dosage forms like *Panchavidha kashaya kalpana* (*Swarasa, Kalka, Kwatha, Hima, Phanta*) and it's *Upakalpana*. *Shadanga paniya* is one of the *Upakalpana* of *Kwatha kalpana*. For *Jwara chikista*, *Shadanga paniya* is cited in *Charaka Sahmita*. At OPD level it is very difficult to explain all the procedure of preparing *kwatha* to the patients and patients will not have that much of time to prepare *kwatha/kashya/paneeya*. Present era patients are looking towards ready to use or patient friendly formulations. So the present project has been planned to modify *Shadanga paneeya* into instant (ready to use) form as like tea bag. People are already familiar with tea bag usage. In the same form if we introduced our Ayurvedic formula then it will be easy to administer to any patients and it will be patient friendly too. With this modification we can appreciate increased shelf life of the product.

KEYWORDS: *Shadanga paniya*, New dosage form (ready to use), Instant preparation.

INTRODUCTION

Jwara is one of the dreadful diseases, which affects the human body, mind as well as senses. The *jwara* has been described in all the classics of Ayurveda with prime importance. *Jwara* occurs due to the depletion of the digestive fire leading to the formation of *aama*. In *Charak Samhita* different diet and drinks have been described as per the condition of *jwara*.^[1] *Siddha Jala* (medicated drinks) has been described in *Jwara* such as Ushna jala in Vata Kapha jwara, Tiktaka Shruta Sheeta Jala in Madyaja and Paittika Jwara, Shadanga Paneeya in all kinds of *jwara*.

Shadanga paniya has been described as useful in all kinds of *jwara*. *Shadanga paniya* contains six drugs, viz., *Musta* (*Cyperus rotundus* Linn)^[2], *Parpatak* (*Fumaria parviflora* Lam.)^[3], *Usheera* (*Vetiveria zizanoides* (Linn) Nash)^[4], *Chandana* (*Santalum album* Linn.)^[5], *Uddichya* (*Pavonia odorata* Willd)^[6], *Nagar* (*Zingiber officinale* Roscoe).^[7] This combination is unique, and helpful in all kinds of *jwara*. The drug possessing the properties of *Sheeta Veerya* and *tikta, Katu rasa*, by virtue of which they are useful in pacifying the *Jwara*. Hence the following study is being taken to make the administration easy by modifying the dosage form into instant preparation sachets containing granules of *Shadanga paniya dravays*.

There is a need to readdress the dosage form in Ayurveda medicine. Our genetic legacy is tremendous concerning the dosage form used in Ayurvedic medicine. Time has come to revisit a few of our dosage form with modification and addition of new in it. These changes are essential due to evolution in human being and lifestyle adopted by the masses in the present era. This work explores the current trend in the traditional medicine dosage form and present status of Ayurvedic medicine.

METHODOLOGY

Methodology can be studied under three headings.

1. Pharmaceutical study
2. Preparation of dipping bags
3. Analytical study

4. PHARMACEUTICAL STUDY

The pharmaceutical study of *Shadanga paniya* was conducted in Rasashastra and Bhaishajya Kalpana Department of Post Graduate Studies in D.G.M.A.M.C Gadag.

Study design

A. Collection of raw materials

Raw drugs, which are having similar *Grahya lakshan* as mentioned in the text, were collected from the pharmacy. Made into *churna* form.

Table 1: Ingredients with ratio.

SL.NO	Sanskrit Name	Botanical Name	Quantity
1	<i>Musta</i>	<i>Cyperus rotundus</i> Linn.	100mg
2	<i>Nagar</i>	<i>Zingiber officinale</i> Roscoe.	100mg
3	<i>Chandan</i>	<i>Santalum alba</i> Linn.	100mg
4	<i>Parpat</i>	<i>Fumaria parviflora</i> Lam.	100mg
5	<i>Usheer</i>	<i>Vetiveria zizanoides</i> Linn.	100mg
6	<i>Udiccha</i>	<i>Pavonia odorata</i> Willd.	100mg



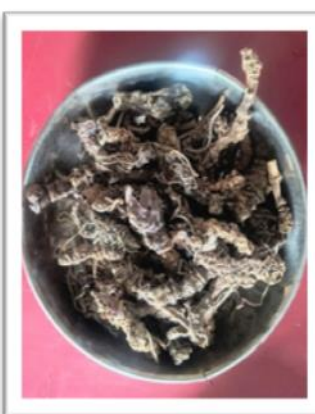
NAGAR



CHANDANA



MUSTA



UDICCHA



PARPATA



USHEERA

Method of preparation

Above mentioned quantity of *Shadanga paniya* drugs was weighed and taken in *Ulukhala yantra*, made into homogeneous mixture. The *churna* was sieved through sieve no.120. The procedure was repeated for 2 times, fine powder was obtained and stored in clean air tight bottle.

OBSERVATION

- A smooth light chocolate colour and pungent smell was observed.

B. Preparation of Shadanga paniya granules:

Shadanga paniya drugs were made into fine powder, this powder is pre compressed with pressure on a tablet press using slugging tools, followed by breaking down these compact materials into granules. 20 number sieve was utilized for the preparation of granules and keep it in a air tight container.

5. PREPARATION OF DIPPING BAGS

Material used: Polypropylene mesh

Size empty bag: 5.5*7cm

Content: *Shadanga paniya* granules

Dipping time: 3-5 minutes

PREPARATION OF DIPPING BAGS IMAGES



6. ANALYTIC STUDY and RESULT

Table 2: Analytic study and Result.

SL NO	Tests	Results
	Organoleptic study	
1	DESCRIPTION	Form : Granules; Colour: Light brown; Taste : Astringent; Odour: Characteristic aromatic odour
	Physico- chemical study	
2	Ash value	7%
3	Acid insoluble ash	4%
4	Water soluble extract	26.4%
5	Alcoholic soluble extract	3.6%
6	Loss on drying	8.62%
7	Particle size	Coarse powder with 500mm to 600mm
	Microbial contamination study	
8	Total fungal count	4CFU/ML(Limit<10 CFU/ML)
9	Total bacterial count	3CFC/ML(Limit<10 CFC/ML)

DISCUSSION

The *Shadanga paniya* has been mentioned in *Charaka Samhita* in *Jwara* as, as *Ushna jala* in *vata kapha jwara*, *tiktaka shruta sheeta jala* in *madyaja* and *paittika jwara*, *Shadanga Paniya* in all kinds of *jwara*. *Shadanga paniya* contains six drugs, viz., *musta*, *parpatak usheera*, *chandana*, *uddichya*, *nagar*. The conceptual analysis of *Shadanga paniya* in context with their *Rasa*, *Guna*, *Veerya*, *Vipaka*, *Karma* highlights the applicability in all kinds of *jwara*.

Shadanga paniya contains six drugs, viz., *musta*, *parpatak*, *usheera*, *chandana*, *uddichya*, *nagar*. The every drug had shown the antimicrobial effect in different spectrum. The micro organisms are the responsible for the infection which in turns induces the fever. Hence the inhibition of the microorganism will control the infection and helpful in the reduction of fever.

The *Cyperus rotundus* was shown an efficacy over the Gram-positive bacteria, and Gram-negative bacteria. *Parpataka* is efficacious in the inhibition of dengue virus (DENV). *Usheera* is efficacious in fever due to yeast. *Uddichhya* is effective against *S.aureus*, *Diplococcus pneumonia*, *Chrysoporium indicum* and *Botrydiplodia* sps. The *Santalum album* is effective against Methicillin resistant *Staphylococcus aureus* and antimycotic resistant *Candida* species *Herpes simplex virus Type 1e*, *H3N2 virus*, *Bacillus subtilis*, *Salmonella typhi*, *Staphylococcus aureus* and *Pseudomonas aeruginosa*, *Candida albicans*. *Zingiber officinale* had shown the reduction in yeast-induced fever and shows the inhibition of the growth of both Gram-positive and Gram negative bacteria. Hence the drugs of *shadanga paneeya* have also shown in researches the antipyretic effect ranging from dengue, malaria, typhoid to exhibition of antimicrobial effect.

The analytical results suggest that the water soluble extract is better than the alcohol soluble extract which is helpful in easy dispersion of the *Shadanga paniya* granules in *ushna jala*

CONCLUSION

Maintaining the equilibrium state of *Dosha* (one which governs and maintains the health), *Dhatu* (fundamental tissues that constitute the human body), *Mala* (metabolic waste), and *Agni* (digestive fire) is the fundamental goal of all Ayurvedic treatments for ailments. *Shadanga Paniya* is a distinctive and popular recipe that preserves the above-mentioned state of equilibrium. In addition, it clears *Ama Visha* (toxins which are produced by undigested part left in the stomach) and is the best remedy for the detoxification of toxins. Although different plants have different effects, *Shadanga paniya* is combined when heated with water. The activity of several systems toward a state of equilibrium is enhanced by six pharmaceutical components.

Shadanga paniya is a unique combination of different herbs, which by virtue of its combination of different *Rasa*, *Guna*, *Veerya*, *Vipaka* useful in all kinds of *jwara*. The combination possesses the antipyretic effect in all kinds of fever which are originating from viral, bacterial and parasitic origin. Therefore this is to conclude that *Shadanga paniya* as adjuvant medicated liquid is useful in all kinds of *jwara*.

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