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PHARMACEUTICO-ANALYTICAL REVIEW OF KALYANA KSHARA BY ALTERING THE SNEHA DRAVYA

Rikal Kailas[1], Kavitha Rikal[2]

[1]Assistant Professor, Dept. of Rasashastra and Bhaishajya Kalpana
[2]Assistant Professor, Dept. of. Rachana Shareera
Kala Ashram Ayurveda Medical College and Hospital, Gogunda, Udaipur, Rajasthan, India

Email: drrikalkailas@gmail.com

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ABSTRACT

Introduction: *Kalyana Kshara* is a popularly used potent Ayurvedic Herbo-Mineral preparation used in the management of several disorders like *Udavarta* (reverse movement of vata), *Vibandha* (constipation), *Arshas (*haemorrhoids), *Gulma (*abdominal lump), *Pandu* (anaemia), *Udara* (disease of abdomen/enlargement of abdomen), *Krimi* (helminthiasis/worm infestation), *Mutrasanga* (urinary obstruction), *Mutrakricchra* (dysuria), *Asmari (*calculus), *Hridroga* (heart disease), *Grahani (*malabsorption syndrome), *Prameha (*urinary disorders), *Pliharoga* (splenic disease), Anaha, *Svasa* (dyspnoea/asthma), and *Kasa* (cough). The present work is an attempt to prepare three samples of *Kalyana Kshara* by changing the *sneha dravya* as *Goghrita (KS-G), Tila taila (KS-T), Eranda taila (KS-E)* following the classical reference, monitoring the temperature during the *Puta* and followed by its analytical changes. **Methods:** All the Raw material like plant, animal, mineral drugs were collected from the market and by *Sharavasamputa* method three different samples of *Kalyanakshara* were prepared. **Results:** Heating pattern and degree of temperature and effect on each sample and the product yield were observed. **Conclusion:** On behalf of Pharmaceutical and Physico-Chemical analysis of each sample, there is no considerable changes in any of the KS-G, KS-T, KS-E samples.

Keywords: *Kalyana Kshara, Sneha Dravya*, Heating pattern, Physico-Chemical analysis

INTRODUCTION

The unbiased intention of *Bhaishajya Kalpana* is to fortify and strengthen different formulations of herbal and herbo-mineral compounds in various forms and to arrive at a formulation that yields highest possible therapeutic efficacy, having cost effectiveness, easiest mode of administration and maximum feasibility to the patient. *Kshara*[1] is best drug of choice as internal and external use for this .Considering the quick action, lesser dose and wider action of *Kalyana Kshara*[2], here an attempt is made to standardize the product as there

is insufficient data regarding the method, amount of heat *(puta & marana*[3] and *sneha dravya* etc.

Aim and Objectives:

- To observe the temperature pattern[4] throughout the procedure.
- To prepare three samples of *Kalyana Kshara*[5] by changing *sneha dravya*. (*Goghrita* KS-G, *Tila taila* KS-T, *Eranda taila* KS-E)
- Physico-Chemical Analysis of each Sample[6,7,8].

Materials and Methods:

Standard operative procedure[9] is traced by following the literature review and pilot study for the preparation of *Kalyana Kshara*.

Materials:

Table 1

KS-G	KS-T	KS-E	QUANTITY
Shunti	*Shunti*	*Shunti*	10gms
Maricha	*Maricha*	*Maricha*	10gms
Pippali	*Pippali*	*Pippali*	10gms
Saindava lavana	*Saindava lavana*	*Saindava lavana*	10grms
Sauvarcha lavana	*Sauvarcha lavana*	*Sauvarcha lavana*	10grms
Bida lavana	*Bida lavana*	*Bida lavana*	10gms
Haritaki	*Haritaki*	*Haritaki*	10gms
Bibhitaki	*Bibhitaki*	*Bibhitaki*	10gms
Amlaki	*Amlaki*	*Amlaki*	10gms
Danti	*Danti*	*Danti*	10gms
Ballataka	*Ballataka*	*Ballataka*	10gms
Citraka	*Citraka*	*Citraka*	10gms
Gomutra	*Gomutra*	*Gomutra*	60ml
Goghrita	*Tila tailam*	*Eranda tailam*	60 ml

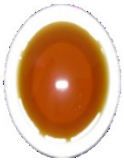
METHODS:

Three *Kalyana Khaara* samples were prepared by following the same method. All the above mentioned ingredients[10] at Table no:01 except the *Gomutra* and *Sneha dravya* were coarsely powdered and taken in between two mud saucers after mixing with the *gomutra* and *sneha dravya* followed by *Sandhi bhandhana* with *multani mitti* and cloth. After proper drying of *Sandhi bhandhana*, by following the pilot study, *Puta yantara* is kept inside the heap of fifty *upalas* and set on fire. Temperature pattern is recorded during every ten minutes from starting till *Swanghasheeta*. The product is collected, powdered well with the help of *Khalva yantra* after *swanghasheeta* and is preserved inside airtight glass containers for Physico-chemical studies.

Chronological Photographs:

A. Photographs of Ingredients

Figure:01 *Pippali*	Figure:02 *Maricha*	Figure:03 *Shunti*
		
Figure:04 *Souvarcha Lavana*	Figure:05 *Bida Lavana*	Figure:06 *Saindhava*
		
Figure:07 *Harithaki*	Figure:08 *Vibithaki*	Figure:09 *Amalaki*
		
Figure:10 *Danti*	Figure:11 *Bhallataka*	Figure:12 *Chitraka*

			
Figure:13 *Gomutra*	Figure:14 *Goghrita*	Figure:15 *Tila Tailam*	Figure:16 *Eranda Tailam*

B. Photographs of *Kalyana Kshara* Preparation

	
Figure: 17 After Mixing the Ingredients	Figure: 18 Before *Sandhi Bandhana*

Figure: 19 After *Sandhi Bandhana*

Figure: 20 *Sharava* Kept Inside *Upalas* For *Puta*

Figure: 21 During Burning

Figure: 22 After *Puta/Swanghasheeta*

Figure: 23 *Kalyana Kshara* Prepared with *Goghrita, Tila Taila, Eranda Taila* As *Sneha Dravya*

Analytical Study:

Table 2: Organoleptic Features of End Products

Parameter	**KS-G**	**KS-T**	**KS-E**
Color	Silver Tinge Black	Silver Ting Black	Silver Tinge Black
Odour	*Visragandhi*	*Visragandhi*	*Visragandhi*
Taste	*Lavana Rasa*	*Lavana Rasa*	*Lavana Rasa*
Touch	*Sheeta*	*Sheeta*	*Sheeta*
Consistancy	Smooth	Smooth	Smooth

Table 3: Results of Physico-Chemical Analysis

Parameter	**KS-G**	**KS-T**	**KS-E**
pH	9.78	9.48	9.10
Extractive Value (water)	73.45	73.67	73.32
Extractive Value (Alcohol)	8.56	8.54	10.56
Loss on Drying (105^0c)	1.36	1.86	1.82
Total Ash	57.52	57.89	57.72

Acid Insoluble Ash	3.59	3.86	3.52
Reducing Sugar (water Extract)	Present	Present	Present
Reducing Sugar (Ethanol Extract)	Present	Present	Present
Saponins (Methanol Extract)	Present	Present	Present
Ammonia	Present	Present	Present

Table 4: T.L.C[11] report of Methanol Extract

Mobile Phase: Toluene: Ethyl acetate: Formic acid [5:4:1]

Sample	Under Visible Light	Under Long. U. V	Under Short. U. V
Chitraka (C)	3 light blue & 2 light yellow colour spots with R.f value 0.18,0.25,0.37, 0.59,0.81	5 blue coloured spots with R.f value 0.18,0.25,0.37, 0.59,0.81	5 light violet coloured spots spots with R.f value 0.18,0.25,0.37, 0.59,0.81
KS-G	No spot	No spot	No spot
KS-T	No spot	No spot	No spot
KS-E	No spot	No spot	No spot

Table 5 Particle Size of KS-G

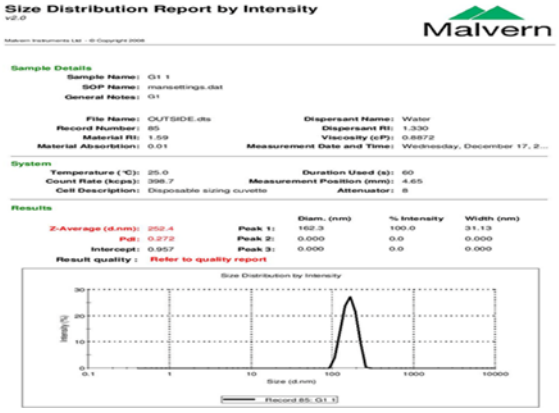


Table 7 Particle Size of KS-E

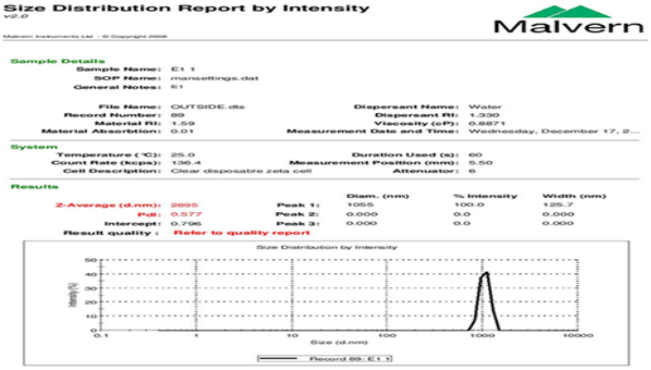
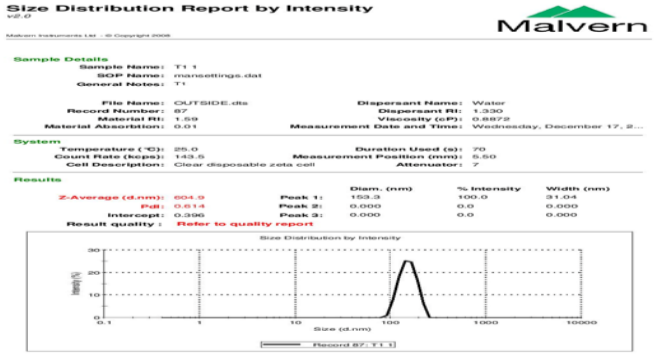
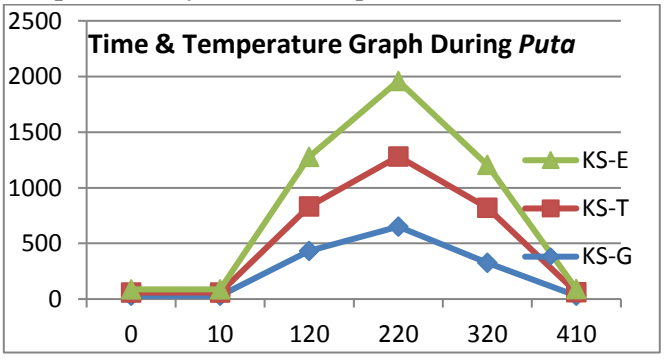


Table 6 Particle Size of KS-T



Graph 1 Timely raise of Temperature



DISCUSSION

The present Study is undertaken to monitor the amount of temperature during the *Puta* and analyze the Physico-chemical changes in the product by changing the *Sneha dravya.* A pilot study is done by following *Astanga hridaya chikitsa sthana* to standardize the number of *upalas* as the classical reference doesn't mentions about the amount of heat. Reference regarding *Khalyana Kshara* is also available at Sahasrayoga, but there also not much clarified knowledge about the preparation is mentioned. Considering all the references and by following the pilot study batches of *Khalyana Kshara* were prepared. There is no considerable change found in any of the prepared samples physically or chemically.

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