Int J Ayu Pharm Chem

RESEARCH ARTICLE

www.ijapc.com

e-ISSN 2350-0204

Pharmaceutical Preparation of Sameera Pannaga Rasa under Standard Temperature Conditions

Neelam Choudhary*

*Rasa Shastra & Bhaishajya Kalpana), Gaur Brahmin Ayurvedic College, Rohtak, Haryana, India

Abstract

In Ayurveda, Kupipakwa rasayana kalpana is the most popular, unique and highly significant pharmaceutical preparation of the suddha parada and suddha gandhaka and is prepared in kachkupi (glass bottle). Sameera Pannaga Rasa is an arsenal mercurial formulation mentioned in Rasa Chandanshu. It is a Kupipakwa Rasayana containing heavy metal contents such as Parada (Hg), Somala (As2O3), Haratala (As $_2$ S $_3$) and Manahshila (As $_2$ S $_2$). It is mentioned in Rasa Chandanshu in which Manahshila is not a component and later on it has been added by Ayurveda Aaushadhi Guna Dharma Shashtra. It is a very effective medicine and has been used extensively for Tamaka Shwarsa (bronchial asthama) type of Shwasa Roga. In the rasa classics sameera pannag rasa has its own significant role to eliminate the doshas⁴ like Tridoshagn, Sandhivata, Unamad, Shwas (Bronchial asthma), kasha (cough), Jwar, Pneumonia, etc. In this article, Sameera Pannaga Rasa is prepared using references mentioned in AFI in the standard laboratory and temperature conditions. While preparing Sameera Pannaga Rasa standard temperature conditions are maintained and necessary precautions are maintained during each stage. The Sameera Pannaga obtained was brick-red in colour and total yield was 150 grams which included 100 gms of Talastha and 50 gms of Kanthastha. Finally, we have presented the pharmaceutical preparation of Sameera Pannaga Rasa with special reference to the different temperature stages during its preparation.

Keywords

Sameera, Pannaga, Kupipakwa, Tamaka swasa, Bronchial Asthma



Received 18/02/16 Accepted 01/03/16 Published 10/03/16

INTRODUCTION

In Ayurveda, Kupipakwa rasayana kalpana is the most popular, unique and highly significant pharmaceutical preparation of the suddha parada and suddha gandhaka. Kupipakwa rasayana kalpana is prepared in kachkupi (glass bottle). The properties like rapid small drug dose, action palatability made kupipakwa rasayana on the superior position. Gandhaka, Hartala and manhshila comes under uparasa¹ and somal come under sadharan rasa². Parada. Hartala, Manhshila and Somal is highly potent mineral which is included in the list of poisonous drug by Drug & Cosmetic Act 1940 under Schedule E because of its highly toxic nature in crude form³ but after drug preparation it eliminates various diseases. In the rasa classics sameera pannag rasa has its own significant role to eliminate the doshas⁴ like Tridoshagn, Sandhivata. Unamad, Shwas (Bronchial asthma), kasha (cough), Jwar, Pneumonia, etc. There are three different references available in the Rasavangmaya with difference in ingredients and method of preparation. Sameera pannaga rasa is prepared using kupipakavidhi, putapakavidhi khalvarasayana vidhi. The ingredients of the preparation Parada, Gandhaka, are

Haratala, Gouripashana with and without manashila; and Abhraka bhasma, Parada, Gandhaka, Trikatu, Vatsanabha and Tankana. The bhavana dravyas are also different in these methods.

Sameera Pannaga Rasa is a Kupipakwa Rasayana containing heavy metal contents such as Parada (Hg), Somala (As2O3), Haratala (As2S3) and Manahshila (As2S2). It is mentioned in Rasa Chandanshu in which Manahshila is not a component and later on it has been added by Ayurveda Aaushadhi Guna Dharma Shashtra. This later version has been accepted Ayurvedic Formulary of India but, justification regarding the addition of Manahshila has not been provided. In addition to this; there is controversy regarding the final product, i.e., whether to collect Talastha or Ubhayastha (Galastha + Talastha).Sameera Pannaga Rasa very effective medicine and has been used extensively for Tamaka Shwarsa (bronchial asthama) type of Shwasa Roga⁵. Sameer Pannaga rasa has also shown good results with Hemiplegia in patients (Pakshawadha).It stimulant acts as (Uttejaka) upon nerve centers of central

nervous system⁶. *Sameera Pannaga rasa* has also shown good effects on *Amavata*⁷.

- 1. Parada 50 gms
- 2. Gandhaka 50 gms
- 3. Somala 50 gms
- 4. Manahsila 50 gms
- 5. Haratala 50 gms

Total Quantity – 250 gms.

MATERIALS AND METHODS

The preparation was carried out in Pharmacy, Department of *Rasa Shastra & Bhesaj Kalpana*, Gaur Brahmin Ayurvedic College, Rohtak, Haryana.

Ingredients:

Ingredients	Chemical/Botanical Name	Proportion	
Sameera Pannaga Rasa ((Rasa Chandanshu)		
Parada	Mercury	1 part	
Gandhaka	Sulfur	1 part	
Somala	White Arsenic	1 part	
Haratala	Orpiment	1 part	
Tulasi Patra Swarasa	Ocimum sanctum Linn.	Q.S.	

Sameera Pannaga Rasa (AFI-I 15:8)

Parada	Mercury	1 part
Gandhaka	Sulfur	1 part
Somala	White Arsenic	1 part
Haratala	Orpiment	1 part
Manahshila	Realgar	1 part
Tulasi Patra Swarasa	Ocimum sanctum Linn.	Q.S.

Method of Preparation⁸:

Sameer Pannaga Rasa was prepared in the local pharmacy of Gaur Brahmin Ayurvedic College. All the ingredients (Table 1) were taken in pure (shodhit) form in equal amounts. First of all, Parada and Gandhaka were mixed together in a Khalva and kajjali was prepared, then Somala, Haratala and Manashila were poured and mixed with

Kajjali and a mixture of ingredients was prepared. This mixture was then subjected to *Tulsi Patra Swarasa Bhavna*. Then, a glass flask was taken and clay smeared pieces of cloth were pasted round the bottle in seven consecutive layers. When this was dried, the mixture of ingredients were poured upto $1/3^{rd}$ of the glass flask. This was then kept over the *Valukayantra* upto the neck and

heated gradually with Mriduagni for 3.5 hours, then Madhyamagni for 3.5 hours and Tikshagni for 3 hours. During these temperature phases, temperature variations were observed during preparation (Figure 1). A red hot iron rod of about 5 mm diameter was inserted into the glass bottle through its opening and stirred now and then so that the opening of the flask may not be choked by the thick coating of subliming sulphur. Otherwise, the pressure of the vapour may break the flask. The cork was applied to the opening of flask after 8 hours of the beginning of the process and then Tikshagni was given for almost 3 hours. This was then kept overnight for cooling. When the flask cooled, it was removed carefully and broken in the middle so as to separate the upper and lower halves of the body of glass flask. For this, a kerosene dipped string round the bottle was wrapped and set the string afire. After the fire extinguished, the burnt string with a spatula was removed and the bottle was wrapped with a wet piece of cloth. It then broke into the two pieces. The prepared medicine deposited both at the neck and bottle was scraped and collected. This was done carefully so that no part of glass pieces mixed with medicine.

DISCUSSION

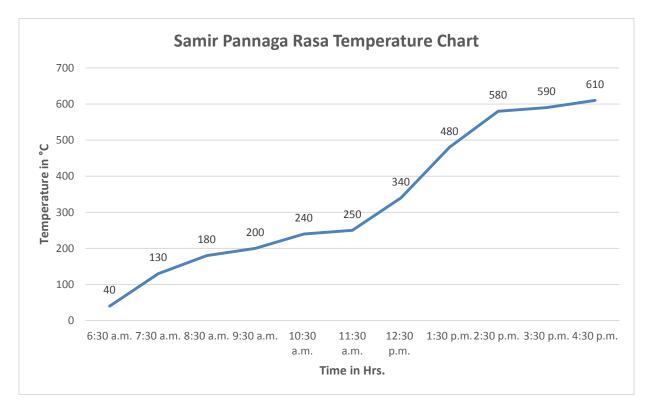
Sameera Pannaga Rasa was prepared using reference in AFI in the local pharmacy of Gaur Brahmin Ayurvedic College, Rohtak, Haryana. The process for preparation of Sameera Pannaga Rasa started at 6:15 AM.

Table 2 the temperature patterns of Sameera Pannaga Rasa preparation

First 3 ½ Hrs		Second 3 ½ Hrs.		Last 3 Hrs	
Time	Temperature	Time	Temperature	Time	Temperature
6:15 a.m.	Room Temperature	10:00 a.m.	220 °C	1:30 p.m.	480 °C
6:30 a.m.	40 °C	10:15 a.m.	230 °C	1:45 p.m.	520 °C
6:45 a.m.	75 °C	10:30 a.m.	240 °C	2:00 p.m.	540 °C
7:00 a.m.	110 °C	10:45 a.m.	250 °C	2:15 p.m.	580 °C
7:15 a.m.	120 °C	11:00 a.m.	260 °C	2:30 p.m.	580 °C
7:30 a.m.	130 °C	11:15 a.m.	270 °C	2:45 p.m.	600 °C
7:45 a.m.	140 °C	11:30 a.m.	250 °C	3:00 p.m.	580 °C
8:00 a.m.	160 °C	11:45 a.m.	250 °C	3:15 p.m.	580 °C
8:15 a.m.	180 °C	12:00 p.m.	260 °C	3:30 p.m.	590 °C
8:30 a.m.	180 °C	12:15 p.m.	300 °C	3:45 p.m.	600 °C
8:45 a.m.	200 °C	12:30 p.m.	340 °C	4:00 p.m.	600 °C
9:00 a.m.	200 °C	12:45 p.m.	380 °C	4:15 p.m.	610 °C

9:15 a.m.	200 °C	1:00 p.m.	420 °C	4:30 p.m.	610 °C	
9:30 a.m.	200 °C	1:15 p.m.	420 °C			
9:45 a.m.	200 °C					

Figure 1 Samira Pannaga Rasa Temperature Chart



The heat was applied for 10 hours and separated into three phases based on their temperature slots.

- 1) First 3 $\frac{1}{2}$ Hrs. (6:15 a.m. to 9:45 a.m.) Room temperature to 200 °C.
- 2) Next 3 ½ Hrs. (9:45 a.m. to 1:15 p.m.) 200 °C to 420 °C.
- 3) Last 3 Hrs. (1:15 p.m to 4:30 p.m.) 420 °C to 610 °C.

OBSERVATIONS

- 1. White fumes arose from 7:15 a.m. onwards.
- 2. Light yellow fumes started arose from 9:00 a.m. onwards.
- 3. Dense yellow fumes started arose from 9:30 a.m. onwards.
- 4. Density reduced at around 11:45 a.m.
- 5. Cork was applied at 2:30 p.m.
- 6. Process was stopped at 4:30 p.m. and left for self-cooling.

7. Materials were collected from the

bottom and from the neck of the bottle.

Yield:

1. Talastha - 100 gms.

2. Kanthasta - 50 gms.

Total Quantity obtained – 150 gms.

CONCLUSION

Finally Sameera Pannaga Rasa is prepared

using references mentioned in AFI in the

standard laboratory and temperature

conditions. The Sameera Pannaga obtained

was brick-red in colour and total yield was 150 grams which included 100 gms of

Talastha and 50 gms of Kanthastha. The

prepared medicine can now be used for

clinical trials for the patients in OPD and

IPDs.

Acknowledgement: I acknowledge Gaur

Brahmin Ayurvedic college and personnels

of Pharmacy of the college who supported

me in preparing Sameera Pannaga Rasa at

the college Pharmacy. I also acknowledge

my Guide Dr V. Nageshwar Rao who has

always guided me in my career.

Conflict of Interest: None declared

Source of Support: Nil

Neelam Choudhary Int J Ayu Pharm Chem 2015 Vol. 4 Issue 2 [e ISSN 2350-0204]

2016 Greentree Group © IJAPC www.ijapc.com

REFERENCES

- 1. Acharya Vagbhata, Editor D.A. Kulkarni, Rasaratnasamucchaya. Vol. I, Chp. 3/1, New Delhi; Meharchand Prakashan: 1998, pp. 42.
- Acharya Vagbhata, Editor Indradev Tripathi, Rasaratnasamucchaya. 3rd ed., Chp. 3/126,

Varanasi; Chaukhambha Prakashan: 2006, pp. 37.

- 3. Malik V, editor, Drug and Cosmetic Act 1940. 18th ed., Lucknow; Eastern Book Company: 2005, pp. 282.
- 4. Shri krishnanand, Rastantra Sara & Shiddha Prayog Sangraha. 8th ed., Kupipakwa

prakan, Ajmer; Krishna Gopal Ayurved Bhawan: 2010, pp. 138.

- 5. Agnivesha, Charaka, Dridhabala, Charaka Samhita Chikitsa Sthana, Hikkashwasa Chikitsa Adhyaya, 17/11, edited by Vaidya Jadavaji Trikamji Acharya, reprint edition, Chaukhambha Orientalia, Varanasi, 2011:533.
- 6. Bharati Lata Jena et al.; A Trial On Pakshawadh(Hemiplegia)

Of Infarction Origin With Sirovasti And Sameera Pannaga Rasa; J.R.A.S. Vol. XXXI, No.2, April -June." 10 pp. 25-36.

- 7. G. Babu, G. C. Bhuyan et a/.; The Effect Of Sameera Pannagaras And Pippali Vardhamana Ksheerapaka In The Management Of Amavata; JRAS. Vol. xxx. No 2. April -June"09 pp.19-32
- 8. Anonymous, AFI page 562-563