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Research Article

Pharmaceutical study & preliminary analysis of Sheetala Parpati

- *Dr. Namitha R. Chandra, ** Dr. Satish P. Karjagi, *** Dr. Gazala Hussain
- *3rd year PG Scholar, Department of Rasashastra and Bhaishajya Kalpana, Sri Dharmasthala Manjunatheshwara College of Ayurveda and Hospital, Hassan
- ** 2ndyear PG Scholar, Department of Rasashastra and Bhaishajya Kalpana, Sri Dharmasthala Manjunatheshwara College of Ayurveda and Hospital, Hassan
- *** Associate Professor, Department of Rasashastra and Bhaishajya Kalpana, Sri Dharmasthala Manjunatheshwara College of Ayurveda and Hospital, Hassan

ABSTRACT

The Parpati kalpana is a thin flake form of mercurial preparation which is unique in the field of Rasashastra. It is one among the Chaturvidha Rasayana and Agnisthayi Murchita Parada Bandha i.e., Pota Bandha of Parada. Sheetala parpati is an Ayurvedic medicine that comes under Parpati kalpana, used in the treatment of difficulty in urination, urinary calculi, dyspepsia, etc. There are two different references of Sheetala Parpati where the ingredients and method of preparation are different. In the present work an attempt has been made to prepare both the varieties of Sheetala parpati along with its analytical study. It is mainly indicated in Mutrakricchra (Dysurea) and other diseases like Amlapitta (Hyperacidity), Udarashoola (Abdominal pain), Ajeerna (Indigestion), Yakritvikara (Hepatic disorder), etc.

Keywords: Parpati kalpana, Chaturvidha Rasayana, Sheetala Parpati, Mutrakricchra (Dysurea)

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*Address for Correspondence:

Dr. Namitha R. Chandra, 3rd year PG Scholar, Department of Rasashastra and Bhaishajya Kalpana, Sri Dharmasthala Manjunatheshwara College of Ayurveda and Hospital, Hassan

INTRODUCTION

Rasashastra is an important branch of Ayurveda, specializing in formulations involving herbs, metals and minerals known as Rasaushadhis. One of the most popular forms is Parpati kalpana. It is one among the Chaturvidha Rasayana and Agnisthayi Murchita Parada Bandha i.e., Pota Bandha of Parada1.

Parpati is a thin flake like preparation consisting of Mercury and Sulphur in most of the parpati formulations. Parpati is such a preparation which is prepared by following various specialized processing techniques like Shodhana Samskara and Murchana2. Parpati rasayanas have high therapeutic value, potency and less toxicity. In the procedure of Parpati kalpana, Agni Samskara is adopted therefore the heat energy enhances its therapeutic efficacy in treating many disorders.

The use of Parpati was found beneficial for alleviating associated symptoms of Grahani as well as various other diseases like Rajayakshma, Kustha, Gulma³, etc. Later various scholars derived different types of Parpatis by adding one or the other ingredients like gold, silver, Iron, copper, mica, pearl and other precious stones. Some of them are Tamra ISSN: 2250-1177 [81]

Parpati (Rasa Prakasha sudhakara), Panchamrita Parpati (Rasendra Sara sangraha), Swarna Parpati (Rasapaddhati), Loha Parpati (Rasa paddhati), Vijaya Parpati (Bhaisajya Ratnavali, etc. Sheetala parpati is an Ayurvedic medicine that comes under Parpati kalpana, used in the treatment of difficulty in urination, urinary calculi, dyspepsia, etc. There are two different references of Sheetala Parpati where the ingredients and method of preparation are different. In one reference Suryakshara (240gms) and Gandhakamla (24gms) are the ingredients⁴ and in another reference Suryakshara (48gms) and Gandhaka (1gm) are said⁵.

Preparation of Sheetala parpati:

According to Rasatantra Sara Siddha Prayoga (RTSSP)

Materials and Methods

Chullika yantra (Gas stove), Loha Darvi (Iron pan), Spoon, Khalwa yantra, Plate, Vastra (Cloth), Match box

Ingredients

Suryakshara (Potassium nitrate) - 10g

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Gandhakamla (Sulphuric acid) -1ml

Method of preparation

Ten gram of Surykshara and 1ml of Gandhakamla were taken in khalwa yantra. They were subjected to mardana. During mardana fume was coming out of the khalwa. Mardana was continued till the fumes stopped. After it turned into a homogeneous mixture, some amount of mixture was taken in the darvi and heated in mandagni with continuous stirring by spoon till it turned liquid. After liquefaction it was poured on the smooth marble and pressed gently with plate.

Observation

Before Paka: Suryakshara was white, crystalline form. It was easily pounded into churna. Gandhakamla was viscous in consistency. During mardana of mixture, appearance of fumes was observed.



During *Paka***:** During heating, first the mixture became dry and fumes were observed. After some time it started to melt. During stirring some amount of liquefied mixture adhered to spoon and became solid. The liquid was colourless.

After Paka: The shweta parpati was white in colour. It was brittle on breaking. On taste tingling and cooling sensation was felt. On touch it was snigdha and mrudu.

Total amount: 23.49g **Obtained amount: 16.96g**

Dosage: 6-12 ratti

Anupana: Jeeraka churna with sheetala jala (cold water)

Mutrakrichra, Mutravarodha, Indications: Amlapitta,

Udarashoola, Ajeerna, Yakritvikara







Suryakshara

Gandhakamla

Sheetala Parpati

According to Siddha Bheshaja Manimala (SBM)

Materials and Methods:

Chullikayantra (Gas stove), Loha Darvi (Iron pan), Spoon, Khalwa yantra, Matchbox

Ingredients:

Suryakshara (Potassium nitrate) - 24g

Gandhaka (Sulphur) - 500mg

Method of preparation:

Suryakshara was powdered and taken in darvi, heated in madyamagni. When it melted, it was taken out of agni and shuddha gandhaka churna was added immediately and stirred. It caught fire due to gandhaka. When fire subsided the liquid was poured on marble from minimum height so as to get the shape of the parpati.

Observation:

Before Paka: Suryakshara was white, crystalline form. It was easily pounded into churna. Shuddha Gandhaka was vellow in colour.

During *Paka***:** Survakshara melted easily. When Shuddha gandhaka was added it caught fire in darvi. On delay in pouring some amount of liquid stuck to spoon and darvi.

After Paka: The *sheetala parpati* was white in colour. It was brittle on breaking. On taste tingling and cooling sensation was felt. After getting parpati, the clear sound was appreciated till some time which was indicative of some reaction happening. On touch it was snigdha and mrudu.

Total amount: 24.5g Obtained amount: 23.16g

Dosage: 6-12gms

Anupana: Jeeraka, dharoshna ksheera

Indication: Mutrakricchra







Suryakshara

Gandhaka

Sheetala Parpati

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Analytical Study

Organoleptic characters:

Characters	RTSSPS	SBM
Colour	Shweta	Shweta
Sound	Breaking sound as of wafer	Breaking sound as of wafer
Taste	Amla, Kashaya	Amla, Kashaya
Odour	Odourless	Odourless
Touch	Mrudu, Snigdha	Mrudu, Snigdha

Physico- chemical Analysis:

	*RTSSPS	SBM
рН	2.50	8.32
Ash value	99.93%	99.95%
Loss on drying	0.14	0.07

*RTSSPS- Rasatantra saara va siddhaprayoga sangraha SBM- Siddha Bheshaja Manimala

DISCUSSION

Parpati kalpana is one amongst the four murcchita parada yogas that are unique and highly evolved pharmaceutical preparations with a wide range in therapeutics. Parpati is sagandha/ nirgandha, sagni, pota bandha. Agni samskara plays an important role in Parpati preparation. It helps in altering the physico- chemical properties. Parpati is a popular and successfully used preparation for the management of Grahani, Mutraghata, Mutrakrichra, Rajayakshma, Gulma, Kusta, etc. diseases.

Sheetala parpati is one among Parpati kalpana which is unique as the ingredient of Sheetala parpati are Suryakshara and Gandhakamla it is a mixture of alkali and acid. This preparation is not explained in any classical texts of Ayurveda. Sheetala Parpati has two references, the ingredients vary in both, common ingredient being Suryakshara. The reference in Rasatantra saara va siddhaprayoga sangraha, has Suryakshara and Gandhakamla, as ingredients. The other reference of Siddha Bheshaja Manimala has two ingredients namely Suryakshara and Gandhaka.

The method of preparation also varies. In the first reference the ingredients were added and triturated till it solidifies, then heated till it liquefies and then poured and pressed to get the *parpati*. Whereas in the other method, the *suryakshara* is first liquefied; and to it the powdered *Gandhaka* was added and then this mixture is poured on a flat surface to get the *parpati*.

Sheetala parpati prepared was white in colour as the ingredient is also white in colour with Amla-kashaya rasa and mrudu-snigdha sparsha. Sheetala parpati which was prepared according to RTSSP is more acidic than other one, it is due to the ratio of suryakshara is less compared to other method. Due to its kshariya guna it is mainly indicated in Mutrakricchra and other diseases like Amlapitta,

Udarashoola, Vrikkashoola, Ajeerna, Yakritvikara, etc. Suryakshara is Atiushna, Tikshna, Agnidipaka, Dahaka, Shoshaka, Vatanashaka and Pittakaraka. It is helpful in Pleeha, Mutrakrichra, Netraroga, Vatarakta, Kumbakamala, Swasa, Shoola, Adhmana, etc. as per RTSSPS but according to SBM, Sheetala parpati is indicated only in Mutrakricchra.

CONCLUSION

Sheetala parpati is one of the unique parpati yoga, which does not contain parada in it. The method of preparation of Sheetala parpati is different than the other parpati kalpanas. Among these two references, the method of preparation mentioned in SBM was felt easier. Usually most of the parapti kalpanas are indicated in grahani and related rogas. But this is specially indicated in mutrakricchra and mutravarodha. Since suryakshara is atiushna, tikshna, dahaka, shoshaka, vatanashaka, pittakaraka one should not use in large dose and for long time.

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