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REVIEW ARTICLE

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A review on Chaturvidha Rasayana

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ABSTRACT

The Rasashaastra literally means the "Science of Mercury". It is a specialized branch of Ayurveda mainly delaying with materials which are known as 'Rasa Dravyas'. Generally, these Dravyas are classified in to four different classes named - Rasa, Dhaatu, Ratna and Visha. The class of 'Rasa' is predominantly possessing Rasaayana. Rasa Kalpas popular because of lesser dosage and quickness in action. Rasaoushdhis are mercurial compound. Specific qualities of Rasaoushadhi are the various substances are used in formulation they are converted in to micro size. Due to metal, mineral presence in formulations they are more efficacious and quick acting in small dose. Rasaoushdhi show their therapeutic and Rasayana efficacy. Shelf life of Rasaoushdhi is more. Rasaoushdhi when used internally in accurate dosage and regime have proved effective in curing many diseases condition and help to promoting life and health. Rasaoushdhis are also improve immunity and prevent onset of disease.

Key words: Ayurveda, Rasashastra, Rasadravya, Chaturvidha Rasayana.

INTRODUCTION

The Rasashaastra literally means the "Science of Mercury". it is a specialized branch of Ayurveda mainly delaying with materials which are known as 'Rasa dravyaas'. Generally, these Dravyas are classified in to four different classes named-Rasa, Dhaatu, Ratna and Visha. The class of 'Rasa' is predominantly possessing Rasaayana. Use of metals for their use in therapeutic formulations is very well described by 'Charaka' with

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reference to preparation of 'Lohaadi Rasaayana' and by 'Susruta' with reference preparation to 'Ayaskruti'. Ayurveda has been divided into 8 branches by our Acharyas and Rasayanas is one of them. According to Acharya Sharangdhar and Gopal Krishana Bhatt, Rasayana is medicine which increase Ojas, cures diseases and delays ageing. In post Samhita period new class of drug form known as Bhasma came into existence in the science of 'Ayurvedic Pharmaceutics', with of two new techniques. 'Shodhana' and 'Maarana'. 'Rasaousadhies' although classified in two distinct classes. 1. Mercurials and 2. Non-mercurials. Use of Parada in therapeutics was started as a bioenhancer Rasayana word formed by union of two words Rasa (nutrition) and Ayana (circulation and promotion). Nagaarjuna, is considered the first to have used mercury and is believed to be one of creator treatment by metal and mineral used in appropriate form. The pharmaceutical literature of Rasashastra the word Rasayana has been used in two senses. First for rejuvenation while describing properties of a substance. On the other hand, this word is used for

Chaturvidha Rasayana or Rasayana word used for whole group of medicine having mercury or another mineral in them. All Rasa Kalpas contain Parad and Gandhak. For ex, Cinnabar as a compound has been used in traditional medicines for thousands of years as an ingredient in various medicine. Such these traditional medicines are still in use today.

"Alpamatroprayogitvad Aruchedaprasangatah

Kshipramarogyadyitvad Ausadhebyo Adiko Rasaha"

Rasa Kalpas popular because of lesser dosage and quickness in action. Rasaoushdhis are mercurial compound. Parad most important substance in Rasa Shastra. Rasaoushadhi prepared from Sudha Parad, Hingulotha Parad. To increase the quality of Parad it is processed with different substances.

Specific qualities of *Rasaoushadhi* are the various substances are used in formulation they are converted in to micro size. Due to metal, mineral presence in formulations they are more efficacious and quick acting in small dose. *Rasaoushdhi* show their therapeutic and *Rasayana* eficacy. Shelf life of *Rasaoushdhi* is more. But here *Rasaoushdhi* are prepared after proper purification procedure. The substances are subjected to different standard procedures.

Based on their procedure in *Rasashastra* we will get few *Rasayanas*,

- a) Kharaliya Rasayana
- b) Parpati Rasayana
- c) Pottali Rasayana
- d) Kupipakwa Rasayana

KHARALIYA RASAYANA

Parad and Gandhak and / or herbs or minerals / metals ingredients are ground together in a mortar Khalva to produce a finely powdered drug. as per the terminology of Ayurved, the formulation is known and classified as 'Kharaliya Rasayan'.

Kharaliya Rasayana got importance the mercury and other ingredient of the formulation are grinded in mortar known as Khalva hence termed as Kharaliya

Rasayana. The speciality of Kharaliya Rasayana lies in binding different varieties of drug in to single molecular form and minimizing dose and more effective in action. Khalvi Rasa - Kajjali contains mercury & Sulphur / herbs / mineral / metal ingredients are ground together in a mortar to produce a finely powdered drug. Rubbing between surfaces of mortar and pestle i.e., surface phenomena, some heat is produced so, there may be possibility of occurrence of chemical reaction in between materials and media. New and desired qualities may be produced by such reaction. In the Rasashastra mentioned the procedures to Rasa Kalpas used Khalvi Rasayana in control the unsteadiness of mercury. Kajjali is key ingredient. Main role of Kajjali as a Rasayana drug. Kajjali is prepared from 1 part purified Parad and 1 part purified Gandhak.

Procedure

- Collection of raw material (Rasadravya, Vanoushadhi, Bhavana Dravya)
- Kajjali Nirmana
- Mixing of all ingredient
- Bhavana
- Ready to use in form of Vati, Guti, etc.

Khalva Yantra

Khalva Yantra which includes both mortar & pestle, is used for triturating / pounding different types of herbal & mineral drugs. It is an instrument made up of good quality of stone in different shapes & size useful for trituration used for grinding, powdering & mixing medicine.

Benefit of Bhavana

Bhavana is Samskara in which Churna of metal and mineral are subjected to Mardana with the specified liquid until the liquid get dries up

- Increase therapeutic efficacy
- Make Rasaoushadhi non toxic
- To enhance drug palatability
- Particle size reduction
- Purva Karma of Marana

Reduction hardness

Rasavarga Dravya undergoes repeated Samsakras, which bring about change in the characteristic and make them therapeutic effective.

Significance

- Prolonged shelf life of formulation
- Increase therapeutic efficacy
- Decrease dosage
- Decrease duration of treatment

Kharliya Rasayan is the main foundation for most of the Rasaoushadis. Kajjali plays an important role in this, it has Ushna Guna and Katu Vipaka which acts as Yogavahi and Tridoshghana.

Examples: Kajjali, Tribhuvankirti Rasa, Aarogyavardhinivati

PARPATI RASAYANA

Parad and Gandhak are ground with specified metal Bhasma or without metal Bhasma, to prepare a homogeneous black coloured fine powder known as 'Kajjali'. The powdered 'Kajjali' is then subjected to heating in an iron pan to obtain a molten mass. The molten mass is then immediately poured and spread evenly on a flat soft surface of a banana leaf, which is usually kept over soft surfaced platform prepared from fresh wet cow dung or mud. Fresh cow dung or mud is selected for to provide smooth and even platform for the leaf placed on it and to provide free flow and even spread of the melted Kajjali on the surface of the leaf. The poured Kajjali mass is then immediately covered with another banana leaf and is hand pressed. The covered banana leaf is then removed to find a thin flat sheet of the material is like Papad which is termed as 'Parpati'.

Acharya Nagarjuna has written Rasendra Mangal in 8th century related to explanation of Parpati Kalpana. In 11th century Chakrapani explained Parpati in Chakradatta. In 19th century Acharya Govinda Das Sen explain Parpati in Bhaishajya Ratnavali. Parpati is the Sanskrit word denote a thin flake like preparation. Has

shape of thin *Papad. Parpat, Parpatika, Parpati, Pota Bandha* are the synonyms of *Parpati*.

Parpati Kalpana is one of the method describe among the 25 other Parad Bandha method. Heat application is performed; therefor heat energy may enhance its therapeutic efficacy. Application of Gomay, which comes from alimentary canal of the cow so may have enzymatic activity. Ghee useful in treating indigestion so may have synergetic effect along with Parpati.

Preparation of Parpati Kalpana

- Samanya or Vishesh Shodhana
- Homogenous mixture of the ingredient and Kajjali is prepared
- Mixture is taken in ghee smeared iron pan over Mandangani
- Transfer melted mixture on Kadali Patra which placed over Gomaya
- Cover with another Kadali Patra and Gomaya and press it.
- Allow to cool and flakes of Parpati taken out.

Parpati Paka

3 Paka have been mentioned Mridu, Madhyama, Khara. In these Mridu and Madhyama Paka is best to use in therapeutically.

Paka Kalian Pariksha

- Mridu Paka melted Kajjali attains Chandrika Varna
- Madhyama Paka melted Kajjali attain tail consistency
- 3. Khara paka melted Kajjali attains Rakta Varna.

Paka Pachyata Pariksha

- Mridu Paka soft smooth, black, bend on breaking, shining less
- 2. *Madhyama Paka* black, shining, while bricking cut sound occurred.
- 3. *Khara Paka* blackish brown, burnt pieces powder like structure.

Prayoga of Parpati Kalpana

- Samanya Prayoga : 1-2 Ratti
- Vardhaman Prayoga: according to Rasa Tarangini starting with 2 Ratti increased gradually up to 10 Ratti.

Significance

- Prolonged shelf life of formulation
- Increase therapeutic efficacy
- Decrease dosage

Example: Rasa Parpati, Panchamritaparpati, Swarnaparpati

POTTALI RASAYANA

The 'Kajjali', prepared with prescribed ingredients is wrapped in a silk cloth to prepare a bundle termed as 'Pottali'.

Shudha Gandhak of required quantity is taken in a stainless steel wide mouthed pan. The pan is kept on fire and the Gandhak is allowed to melt. The molten sulphur serves the purpose of Gandhak bath for the 'Pottali'. Pottali is immersed in the Gandhak, which is subjected to intensive heating. The powder of 'Kajjali' bundled in cloth gets hardened by this intensive heating and gets converted into a hardened ball is known as 'Pottali Rasa'.

Pottali Rasa is most instantly acting drug formulation among all and is usually prescribed in medical emergencies.

Pottali Kalpana first described by Nityanath Siddha in 13th century AD, in the book Rasaratnakar. Sharangdhar also mentioned formulation of these Pottali Kalpana in the Sharangdhar Samhita. Ras prakash sudhakar book author Yashodhar also mentioned about Vajra Pottali. In the classics like Yog Ratnakar, Sidhabheshajya Manimala, Rasayansar mentioned about Pottali Kalpanas. Pottali defined as to collect scattered material to compact and comprehensive size. Pottali is very important form of mercurial preparation.

Different method of preparation of *Pottali Kalpana* like *Bhavana Vidhi, Putapaka Vidhi, Pottali Paka Vidhi. Pottali* preparations are not done by particular

method, some prepared by trituration, while some are prepared by boiling liquefied sulphur, some are processed through incineration

Bhavana method

Bhavana method in this method, the all ingredients are triturated with a liquid media in a *Khalva Yantra* and made into a pill or stored in fine powder form. This method of preparation is exactly similar to other *Khalvi Rasayanas*, that is only trituration without any *Agni*. Example: *Hamsa Pottali, Gandhakadi Pottali Rasa*.

Putapaka (Musha) Method

This is method in which ingredients for preparing *Pottali* are triturated with fresh juices or prescribed liquid media etc. and subjected to *Puta* to get the final product, usually obtained in the form of *Bhasma*. In *Rasayoga Sagara* mentioned, *Divya Jala* as *Bhavana Dravya* to make the *Pottali*. Type of *Puta* different from *Kukkuta Puta* to *Gaja Puta* and time required from 1 *Yama* (3 hrs) to three days, depending on the nature of substance used as ingredients. Example: *Rasa Pottali*, *Mriganka Pottali*.

Procedure

- Purva Karma
- Pradhana Karma
- Paschyat Karma

Purva Karma

- Identification and collection of row material
- Shodhan of raw material
- Preparation of Kajjali
- Arrangement of Valuka Yantra
- Collect cloth, thread, mud pot, firing apparatus
- Preparation of Pottali

Pradhan Karma

Paaka of Rasaoushadi upto Siddhi Lakshana

Paschyat Karma

Pottali removed after Swangashita

- Gandhak scrapped out which adhered to that Pottali
- Remove silk cloth

Examination of final product

Metallic sound, hard, lustre, colour.

Significance

- Easy to administer
- Lifesaving remedy
- Long shelf life
- Easy to handle

Mode of administration

Pottali are having Gutikakar should rubbed over stone by applying Ghrita or Madhu and paste is administered orally. Hiranya Garbha Pottali administered in the form of Pradhamana Nasya.

Pathya and Apathya

In text *Rasakamdhenu*, author mentioned the *Pathya*, Apathy Ahara- Vihar and also mentioned

treatment if any complication occure during *pottali* administration

Example: Hemagarbhapottali, Rasagarbhapottali

KUPIPAKWA RASAYANA

Kupipakwa Rasayana is compose of 4 words Kupi, Pakwa, Rasa and Ayana. Kupipakwa Rasayana also known as Sindhoor Kalpana. A product from Parad and Gandhak, etc. is prepared in glass bottle by applying heat.

Kupipakwa Rasayana Kalpana is important among other Kalpana because of having properties

- It requires minimum dose.
- Potency of these drugs remains as it is for longer period.
- Easy for administration and preservation.
- When mixed with other drugs it reduces the dose of other drugs.

 Due to its augmenting effects, due to quicker action chemical bonding present in Kupipakva Rasayana is stronger respectively.

History

In 9th century AD *Rasa Hridaya Tantra* first time mentioned *Gandhak Jarana*, further develop as *Kupipakwa Rasayana*. Information of *Rasasindhur* available in *Rasaprakash Sudhakar* in 13th century.

Types

- 1. Ingredients Sagandha, Nirgandha
- Manufacturing Antardhoom (cork applied in beginning and vapours not allowed to come out. Bahirdhoom (cork applied after burning of sulphur)
- 3. Place of finished product *Kantastha* finished product deposit at neck, *Talastha* finished product deposited at bottom of *Kupi, Ubhayastha* finished product obtained from both the sides.

Procedure

The whole procedure can be divided under the three headings

- a) Poorva Karma
- b) Pradhana Karma
- c) Pashchat Karma

Poorva Karma

Appropriate equipment - *Kupi, Kapad Mitti, Valuka Yantra, Brashtri*, Fuel, Different *Shalaka*, Copper coin, Torch, Thermometer, Electric blowers.

- Purification of ingredients
- Preparation of Kajjali
- Bhavana
- Kupibharana

Pradhana Karma: The following points included

- Temperature measurement
- Heating pattern
- Shalaka Sanchalana
- Observation of furnace, fumes and flames

- Mukha Murdana
- Swanga Sheetakarana

Paschat Karma: Following measures comes under this karma

- Kupi Uddharana Removal of Kupi
- Kupi bhedana Breaking of Kupi
- Pramanya Evidence of genuineness

Classification of Kupi Pakwa preparation

- 1. Sagandha Gandhaka is used Ex. Makaradhwaja and Rasa Sindhura.
- 2. Nirgandha Gandhaka is absent. Ex Rasa Manikya and Vyadhiharana Rasa

Based on manufacturing method

- 1. Antardhuma Fumes appear in the beginning. Example: Sila Sindhura and Rasa Manikya
- 2. Bahirdhuma When Gandhaka is totally burn then fumes appear. Example: Sila Sindhura and Rasa Manikya. Rasa Sindhura and Makaradhwaja.

Based on accumulation of desired product

- 1. Galastha The product is obtained from the neck of bottle. Ex. Makaradhwaja, Rasa Sindura.
- Talastha The product is obtained from the bottom of bottle. Ex. Sameerapannaga Rasa, Swarna Vanga.
- 3. Ubhayastha The product is obtained from both neck and bottom of bottle. Ex. Hinguliya Manikya Rasa, Sameerapannaga Rasa.

DISCUSSION

Rasaoushdhi when used internally in accurate dosage and regime have proved effective in curing many diseases condition and help to promoting life and health. Rasaoushadhis are also improve immunity and prevent onset of disease. The interaction between metal or mineral and herbs during manufacturing the formulation may be increase or decrease pharmacology or toxicology effect.

Large number of potent formulations in *Rasashastra* which known as *Rasayana*. Number of formulations in *Rasayanadhikar* there are so many chapter that work

principally as *Rasayana* with proper diet and adjuvant followed during treatment.

Kharaliya Rasayan

During fraction between surfaces of mortar and pestle i.e., surface phenomena, heat is Generated so there may be possibility of occurrence of chemical reaction in between substance and media. New and desired qualities may be produced by such reaction. Physical changes occur like.

- Reduction in hardness: By continuous grinding the hard substance become soft.
- Particle size reduction: By continuous and repeated rubbing action helps in reduction of particle size. In this way it directly affects the rate of absorption.
- Binding agent: liquid media acts as a binding agent.

In the current situation, there is a need to develop new formulations along with the specific modification in the older formulation to gain wider acceptance

Potali rasayana

Pottali Rasayana is a specified pharmaceutical technique. This Kalpana has been developed for help in potentiating and stabilizing the bonding between the content and obtaining high therapeutic efficacy. In Pottali Rasayan, the ingredients are made into a compact state for easy administration, transportation and preservation. But now a days its practical usage is very less. Pottali Kalpana has four different methods of preparations are Bhavana method, Puta Paka method, Varatika Purana method and Gandhaka Drava Paka. But each method of preparation differs in shape, consistency and form, but these all methods are included in Pottali Kalpanas for drug's efficacy after complete processing. The ancient literature like Yogaratnakara, Rasamrutha have explained details related to Pottali Paka in Gandhaka Drava method.

Parpati Rasayana

The ingredients of every *Parpati Kalpana*, Mercury and Sulphur are the primary ingredients. *Parpati Rasayana* are the most popular among the processing's of *Parad* and are widely used. These preparations are

therapeutically effective mineral or Metallic formulations; including both *Sagandha* and *Nirgandha Parada Yukta Yogas*. The *Parpati Rasayanas* are highly therapeutic value, more potent, less toxic and costeffective medicines.

Kupipakwa Rasayana

In Rasa Shastra when Kupipakwa Rasayan is compared with other formulations, due to its quicker action on minimum dose this is best among other. Pattern of Heating and preparation of Kajjali are most important to get maximal yield and increase effectiveness of preparation without any adverse effects or Side effects. The Kramagni are the most effective heating pattern for the preparation of Kupipakwa Rasayan.

Mrudu Agni is this stage where Kajjali and Gandhak fumes are emitted. This is tested with the help of a Shital Shalaka. Sulphur starts melting at this stage. The temperature at this stage ranges in between 150°C -250°C. Madhyam Agni starts from melting of sulphur followed by profuse fuming. At this stage, clearing the mouth of glass bottle by hot rod is done. The temperature ranges in between 350°C-450°C. Tivra Agni in this stage Fumes are stop from bottle and flame is seen at the mouth of the glass bottle. This stage is ideal to do Corking for Bahirdhoom Kupipakva rasayana. At this stage temperature of glass bottle ranged between 450°C-650°C.

CONCLUSION

Rasayanas help to achieve optimal physical strength, of sense organs, improve qualities of *Dhatus*, longevity, increase immunity or *Bala* and mental competence. *Rasayana* nourishes the whole-body system and improves immune system and because of these the natural resistance to infection will be more. the need of the time in changing environment with standardize during the developing era of *Rasa Chikitsa* and it's more of value in present days as the occurrence of diseases like AIDS, Tuberculosis and Diabetes Mellitus etc. These are still uncontrolled. Now a days better equipment and techniques of drug analysis help in authenticating the *Rasaoushdhi* or *Rasayana* preparation and their effects on health.



Fig. 1: Kharliya Rasayana



Fig. 2: Parpati Rasayana



Fig. 3: Pottali Rasayana



Fig. 4: Kupipakwa Rasayan

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