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Comparative Pharmaceutico-Analytical Study of *Mustakadi Pramathya* and *Mustakadi Kwatha*

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ABSTRACT

Introduction: A range of smaller preparation is explained in classics other than five basic *Kashaya Kalpanas*. They are categorized considering the similarities in their method of preparation under '*Panchavidha Kashaya Kalpana*.' '*Kwathan*' is similar in *Kwatha Kalpana* and for preparation of *Pramathya*, which is *Upakalpana* of *Kwatha*. *Mustakadi Kwatha* is not mentioned in classics but *Mustakadi Pramathya* is mentioned in classics which is used in *Raktatisara*. **Objective:** Comparative Pharmaceutico-Analytical Study of *Mustakadi Pramathya* and *Mustakadi Kwatha*. **Materials & Methods:** *Mustaka* and *Indrayava* are taken from GMP approved Pharmacy for both preparation i.e. *Pramathya* and *Kwatha*. Only difference is, *Pramathya* is prepared by using *Kalka* of drugs and *Kwatha* is preparation by *Yavakuta Churna* of drugs. Water was added in same quantity. Method of preparation followed was same for both i.e. *Kwathana*. **Discussion:** *Kalka* is *Guru* than *Yavakuta Churna* as water is added for *Kalka* preparation and also partical size of drugs is also reduced in *Kalka Kalpana*. pH, specific gravity, viscosity, total solids of *Mustakadi Pramathya* is more than that of *Mustakadi Kwatha*. *Mustakadi Pramathya* should be used in *Madhyama Doshavastha*, it is *Guru* in nature than *Kwatha Kalpana*.

Key words: *Mustakadi Pramathya*, *Mustakadi Kwatha*, *Upakalpana*.

INTRODUCTION

Ayurveda is science of life. Preparation of medicine and analysis deals with *Rasashastra* and *Bhaishajya Kalpana*. Each subject has its own 'Basic Principles' i.e. '*Adharbhuta Siddhanta*'.

Bhaishajya Kalpana itself has *Adharabhuta Siddhantas* like *Paribhasha*, *Dravya Sangraha* and *Sanrakshana*,

Rasa, *Guna*, *Virya*, *Vipaka*, *Prabhava*, *Mana Paribhasha*, *Panchavidha Kashaya Kalpana*, *Anukta-Visheshokta Grahanam*, *Aushadha Namkarana* etc. Among them *Panchavidha Kashaya Kalpana* are basic preparations of *Bhaishajya Kalpana* which are accepted and followed as *Swarasa*, *Kalka*, *Kwatha*, *Hima* and *Phanta*.

A range of smaller preparations are explained in the Ayurvedic classics other than five basic *Kashaya Kalpanas* called as '*Upakalpana*.' They are categorized considering the similarities in their method of preparation under *Panchavidha Kashaya Kalpana*.

The term '*Kwatha*' is derived from the root work '*Kwathan*' means the process of boiling. Drug in coarse powder form boiled with appropriate proportion of water and will reduced to desired amount. Proportion of water depends on nature of drug and reducing amount is depends on quantity of water.

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Pramathya is *Upkalpana* of *Kwatha Kalpana*. It is slightly different from *Kwatha Kalpana*. The drugs are added in the form of *Kalka*. So that analytical changes occurred which are studied here.

OBJECTIVES OF THE STUDY

A Comparative Analytical study of *Mustakadi Pramathya* and *Musthakadi Kwatha*.

MATERIALS AND METHODS

Materials

Weighing machine, Measuring cylinder of 500ml, 200ml, 100ml, Stainless steel Vessels - 1litre, Heating device- Gas burner with LPG cylinder, stainless steel ladle, pair of tongs, cloth etc.

Table 1: Drugs used for preparation of *Mustakadi Pramathya* (M.P.)^[1] and *Mustkadi Kwatha* (M.K.)^[2]

No.	Drug Name	M.P. Quantity	M.K. Quantity
1.	Mustak	50g	50g
2.	Indrayava	50g	50g
3.	Water	800ml	800ml

Methodology

1. *Mustakadi Pramathya*

- 100g drugs were taken, 50g *Mustaka* and 50g *Indrayava*.
- Kalka* was done.
- 800ml water was taken in stainless steel (ss) vessel and *Kalka* was added in it.
- stainless steel vessel was kept on mild heat at 12:00pm.
- Intermittent stirring was done.
- Continuous mild heat was given till the mixture was reduced to 1/4th part.
- Heat was stopped at 1:05pm.
- Prepared *Pramathya* was filtered and kept for analytical study in sterile container.

Mustkadi Kwatha

- 100g coarse *Churna* of drugs was taken in stainless steel vessel.
- 800ml of water was added in it.
- Vessel was kept on mild heat at 12:00pm.
- Intermittent stirring was done.
- Continuous mild heat was given till the mixture reduced to 1/4th part.
- Heat was stopped at 12:58pm.
- Prepared *Kwatha* was filtered and kept for analytical study in sterile container.

OBSERVATIONS

Table 2: During process observations.

No.	Observation	<i>Pramathya</i>	<i>Kwatha</i>
1.	Initial colour	Brownish	Brownish
2.	Evaporation started	20 min.	15 min.
3.	Menstrum turned into dark brown colour	30 min.	25 min.
4.	Final colour	Milky brown	Brown
5.	Time taken for preparation	1 hr 5 min.	58 min.
6.	Final quantity	208 ml	300 ml
7.	% of total quantity	26%	25%

Table 3: Organoleptic study of *Mustakadi Pramathya* and *Kwatha*.

No.	Organoleptic character	<i>Pramathya</i>	<i>Kwatha</i>
1.	Sparsha	Liquid, Sheeta	Liquid, Sheeta
2.	Roopa	Milky brown	Brown

3.	Rasa	Slight bitter	Slight bitter
4.	Gandha	Characteristic pleasant	Characteristic pleasant

Table 4: Analytical observations of Mustakadi Pramathya and Kwatha.

No.	Analytical parameters	Pramathya	Kwatha
1.	pH	5.90	5.72
2.	Specific gravity	1.117	1.028
3.	Viscosity	3.05cp	2.64cp
4.	Total solids	14%	6.8%

DISCUSSION

pH of Pramathya is more than that of Kwatha. Specific gravity, viscosity of Pramathya is more than Kwatha though it contains *Kalka* of drugs. Pramathya contains *Kalka Dravya* in it which has smaller particle size than

coarse powder which are used for Pramathya. So that total solid contains are more in Pramathya.

CONCLUSION

Although Pramathya is mentioned to be used in *Madhayma Doshavastha*, it has more specific gravity, Ph, Viscosity and total solids than Kwatha, which may be considered as to be more 'Guru' than Kwatha.

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