



ISSN 2456-3110

Vol 2 · Issue 6

Nov-Dec 2017

Journal of
**Ayurveda and Integrated
Medical Sciences**

www.jaims.in

JAIMS



Charaka
Publications

Indexed

Analytical evaluation of *Mrityunjaya Rasa*

Abhishek,¹ Ashok Kumar BN,² Sujatha K,³ Sunil Kumar⁴

¹Post Graduate Scholar, ²Associate Professor, Department of Rasa Shastra and Bhaishajya Kalpana, Sri Dharmasthala Manjunatheshwara College of Ayurveda, Udupi, ³Professor and HOD, Department of Rasa Shastra and Bhaishajya Kalpana, SDMIA, Bengaluru, ⁴Research Officer, Department of Pharmacognosy, Ministry of AYUSH, Government of India, Arumbakkam, Chennai, Tamilnadu, India.

ABSTRACT

Introduction: *Mrityunjaya Rasa* is a herbo-mineral formulation mentioned under *Jwara Chikitsa* in *Rasendra Sara Sangraha* along with different *Anupanas*. It is having ingredients like *Shudha Hingula*, *Shudha Gandhaka*, *Shudha Vatsanabha*, *Shudha Tankana*, *Pippali* and *Maricha* which show significant result on various types of fever. **Aim:** To prepare *Mrityunjaya Rasa* as per guidelines given in classical text book *Rasendra Sara Sangraha* and to validate physico-chemical analysis of the sample. **Methods:** The preparation of *Mrityunjaya Rasa* was carried out at practical hall, Department of Rasashastra and Bhaishajya Kalpana, Sri Dharmasthala Manjunatheshwara College of Ayurveda, Kuthpady, Udupi, Karnataka. It was subjected to analysis on parameters like organoleptic characters, loss on drying, total ash, acid insoluble ash, water soluble ash, pH, alcohol soluble extractive value, and water soluble extractive value. **Results:** The results of Analytical study showed specific characteristics which are in accordance with the properties of *Mrityunjaya Rasa*. **Conclusion:** The study showed significant results, which proves quality of the drugs and efficacy.

Key words: *Mrityunjaya Rasa*, Herbo-Mineral Drug, Physico-Chemical Analysis.

INTRODUCTION

Rasaushadhi are found very effective in low dosage with faster action for the preservation and promotion of positive health and prevention of diseases mentioned by Acharya Gopalkrishna Bhatta.^[1] *Mrityunjaya Rasa* is a herbo-mineral formulation mentioned under *Jwara Chikitsa* in *Rasendra Sara Sangraha*^[2] along with different *Anupanas*. In preparation of *Rasaushadhis*, precaution must be

taken throughout the whole procedure. By following SOP genuine medicines can be prepared. The purpose of standardizing traditional remedies is obviously to ensure therapeutic efficacy. To prevent adulteration, spurious products and to give the protection to the consumer, it is obligatory to do all physico-chemical analysis in research laboratory.

Analytical study is carried out to check drug quality. For this purpose some analytical tests are performed and their results are compared with standard parameters. The drug fulfilling these criteria can be taken as standard drug and can be used for therapeutic purpose.

Analytical study of any drug is essential to standardize it. Analytical study is carried out to check drug quality. For this purpose some analytical tests are performed and their results are compared with standard parameters. Sample of *Mrityunjaya Rasa* was evaluated in terms of organoleptic characters and physico-chemical parameters and the results were recorded.

Address for correspondence:

Dr. Abhishek

Post Graduate Scholar, Department of Rasa Shastra and Bhaishajya Kalpana, Sri Dharmasthala Manjunatheshwara College of Ayurveda, Udupi, Karnataka, India.

E-mail: abhi.gehlot04@gmail.com

Submission Date : 24/11/2017 Accepted Date: 26/12/2017

Access this article online

Quick Response Code



Website: www.jaims.in

DOI: 10.21760/jaims.v2i06.10926

MATERIALS AND METHODS

Raw drugs required for preparation were collected from SDM Ayurveda Pharmacy, Udupi.

Preparation of *Mrityunjaya Rasa* was carried out in practical hall of Department of PG Studies in Rasashastra and Bhaishajya Kalpana, SDM College of Ayurveda, Udupi.

Pharmaceutical Preparation

The preparation was carried out following the method mentioned in *Rasendra Sara Sangraha*.^[2] All the ingredients were procured and seven *Bhavana* of potable water was given as *Bhavana Dravya* was *Anukta* and number of *Bhavana* was also *Anukta*. Before each *Bhavana* mass was dried properly and after completion dried and stored.

Analytical study

Sample of *Mrityunjaya Rasa* and other required things were taken as materials.

The physico-chemical analysis of the sample *Mrityunjaya Rasa* was done at S.D.M. Centre of Research in Ayurveda and Allied Sciences, Kuthpady, Udupi. Organoleptic characteristics like colour, odour, taste and consistency were recorded along with the evaluation of parameters like loss on drying,^[3] total ash,^[4] acid insoluble ash,^[4] water soluble ash,^[4] alcohol soluble extractive value,^[3] water soluble extractive value^[3] and pH^[5] by following standard procedures.

RESULTS

Organoleptic characters of *Mrityunjaya Rasa*

- Colour - Brownish Red
- Taste - *Katu Rasa*
- Smell - *Teekshana*
- Consistency - Hard

Table 1: Results of Physico-chemical analysis of *Mrityunjaya Rasa*

Parameters	Results n = 3 %w/w
Loss on drying	18.02

Total Ash	22.75
Acid Insoluble Ash	1.94
Water soluble Ash	20.76
Alcohol soluble extractive value	3.17
Water soluble extractive value	25.37
pH	9.0

Loss on drying

In the present study *Mrityunjaya Rasa* possessed 18.02% loss on drying at 105°C.

Ash value

The inorganic material present in a drug constitutes ash value. The percentage of total Ash value of *Mrityunjaya Rasa* was 22.75 %.

Acid insoluble ash

The acid insoluble ash is the residue obtained after boiling the total ash with dilute HCL and igniting the remaining insoluble matter, this measures the amount of acid insoluble materials like silica. The acid insoluble ash of *Mrityunjaya Rasa* was 1.94 %.

Water soluble ash

Water soluble ash is difference in between total ash and residue after treatment of total ash with water. The percentage of Water soluble ash value of *Mrityunjaya Rasa* was 20.76 %.

Alcohol soluble extractive

The percentage of Alcohol soluble extractive value of *Mrityunjaya Rasa* was 3.17 %.

Water soluble extractive

The percentage of Water soluble extractive value of *Mrityunjaya Rasa* was 25.37 %.

pH value

The pH value of *Mrityunjaya Rasa* was 9.0. It is quite alkaline in nature because of *Tankana* which is used

as an ingredient here. *Vatsanabha* is purified with *Gomutra* that also increases pH value.

DISCUSSION

Analytical study is carried out to check drug quality. For this purpose some analytical tests are performed and their results are compared with standard parameters. In the present study when the sample of *Mrityunjaya Rasa* was analysed, their analytical results are present as per standard parameters. Analytical Parameters of the current study are depicted in table no. 1. Loss on drying is designed to measure moisture (water) content and volatile matter in a sample and pH value provides a useful practical means for the quantitative indication of the acidity or alkalinity of a solution. It is quite alkaline in nature because of *Tankana* which is used as an ingredient here. *Rasa Aushadhi* is considered better if Ash value is more. Acid insoluble ash is non-physiological ash which shows presence of silica content. In current study it is in permissible limits.

CONCLUSION

Pharmaceutical processing divulges specific potentials to a formulation which helps in the strengthening of the clinical efficiency and also makes it stable when exposed to external environment. The analytical techniques have always been used to understand, the quality of the end product. Though, qualitative and quantitative analysis of drugs by using the contemporary techniques reveals only certain statistical findings, their adaptation and

implementation in the science of Ayurveda is the need of the time.

REFERENCES

1. Shri Ambikadatta Shastri. Shri Gopal Krishna Bhatt, Rasendra Sara Sangrah, Rasapradhanyadi, 1st chapter, verse no.4, Banaras city, Chaukhamba Sanskrit series office,1994, p-2.
2. Shri Ambikadatta Shastri. Shri Gopal Krishna Bhatt,Rasendra Sara Sangrah, Jwarachikitsa, 2nd chapter, verse no.4-15, Banaras city, Chaukhamba Sanskrit series office,1994, p-125-126.
3. D R Lohar. Protocol for Testing, 1st Ed. Ghaziabad: Pharmacopeial Laboratory For Indian Medicines, Government Of India, Ministry of Healthand Family Welfare. P.50
4. D R Lohar. Protocol For Testing, 1st Ed. Ghaziabad: Pharmacopeial Laboratory For Indian Medicines, Government Of India, Ministry of Healthand Family Welfare. P.49
5. D R Lohar. Protocol For Testing, 1st Ed. Ghaziabad: Pharmacopeial Laboratory For Indian Medicines, Government Of India, Ministry of Health and Family Welfare. P.112-11

How to cite this article: Abhishek, Ashok Kumar BN, Sujatha K, Sunil Kumar. Analytical evaluation of *Mrityunjaya Rasa*. J Ayurveda Integr Med Sci 2017;6:53-55.

<http://dx.doi.org/10.21760/jajims.v2i06.10926>

Source of Support: Nil, **Conflict of Interest:** None declared.
