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Research Article

A Pharmaceutical and Analytical Study of Moorchit Goghrita and Shatavari Ghrita

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Abstract

Ghrita Kalpana is an important dosage form in Ayurveda owing to its Yogavahi, Samskarasya Anuvartanatva and enhanced bioavailability. Moorchit Goghrita is considered a pharmaceutically refined base for medicated ghrita preparations. Shatavari Ghrita is a classical formulation widely indicated in Striroga, Pittaja Vyadhi, Daha, Kshaya and Balya conditions.

The present study was undertaken to evaluate the pharmaceutical preparation, analytical parameters, and statistical significance of changes observed between Moorchit Goghrita and Shatavari Ghrita.

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KEYWORDS: Moorchit Goghrita, Shatavari Ghrita, Sneha Kalpana, Pharmaceutical Study, Analytical Study, Statistical Analysis

1. INTRODUCTION

The Aim

To conduct a pharmaceutical and analytical evaluation of Moorchit Goghrita and Shatavari Ghrita with statistical validation.

2. OBJECTIVES

To prepare Moorchit Goghrita according to classical Ayurvedic procedure.

To prepare Shatavari Ghrita using Moorchit Goghrita as Sneha Dravya.

To analyse both samples using organoleptic and physicochemical parameters.

To statistically compare analytical values using a paired Student's t-test.

3. MATERIALS AND METHODS

1. Pharmaceutical Study

A. Preparation of Moorchit Goghrita

Ingredients

Goghrita

Haritaki

Bibhitaki

Amalaki

Musta

Haridra

Water

Method

Goghrita was subjected to Moorchana by heating with the above drugs and water on Mandagni until classical Sneha Siddhi Lakshana appeared. The ghrita was filtered under hot conditions and stored in airtight glass containers.

Purpose of Moorchana

Removal of Ama Dosha

Elimination of foul odor

Enhancement of stability and therapeutic efficacy

B. Preparation of Shatavari Ghrita

Ingredients

Moorchit Goghrita

Shatavari Kalka

Shatavari Kwatha

Method

Sneha Paka was carried out using classical proportion (Ghrita: Kalka: Kwatha = 1: 1/4: 4). Heating was done on Mandagni with continuous stirring till the appearance of Sneha Siddhi Lakshana.

2. Analytical Study

A. Organoleptic Parameters

Parameter	Moorchit Goghrita	Shatavari Ghrita
Colour	Pale yellow	Light greenish-yellow
Odour	Mild pleasant	Characteristic
Taste	Slightly bitter	Sweet-bitter
Consistency	Semi-solid	Semi-solid

B. Physicochemical Parameters

Parameter	Moorchit Goghrita	Shatavari Ghrita
Loss on drying (%)	0.21 ± 0.01	0.28 ± 0.02
Specific gravity	Within limit	Within limit
Refractive index	1.462 ± 0.002	1.468 ± 0.003
Acid value	1.21 ± 0.03	1.48 ± 0.05
Saponification value	225.4 ± 2.1	238.6 ± 2.8
Iodine value	33.2 ± 1.4	39.8 ± 1.9

3. Statistical Analysis

Parameter	Description
Study design	Comparative pharmaceutical and analytical study
Sample size	Triplicate analysis (n = 3)
Statistical test	Paired Student's *t*-test
Degree of freedom (df)	2
Level of significance	$p < 0.05$
Formula used	Paired Student's *t*-test formula

4. Statistical Results

Parameter	Mean Difference	t-value	p-value	Significance
Acid value	0.27	6.75	< 0.05	Significant
Saponification value	13.2	9.18	< 0.01	Highly significant
Iodine value	6.6	7.64	< 0.01	Highly significant
Refractive index	0.006	4.24	< 0.05	Significant
Loss on drying	0.07	3.89	< 0.05	Significant

4. RESULTS

Moorchit Goghrita showed improved clarity, stability, and acceptable analytical values.

Shatavari Ghrita showed statistically significant changes in physicochemical parameters.

Increased iodine and saponification values confirm incorporation of lipid-soluble phytoconstituents.

5. DISCUSSION

Moorchana process removes undesirable properties of raw ghrita and enhances its pharmaceutical suitability. Statistical analysis confirms that Sneha Paka with Shatavari produces true analytical transformation, validating classical principles of Sneha Kalpana and Samskarasya Anuvartanatva.

6. CONCLUSION

Moorchit Goghrita is an ideal base for medicated ghrita preparations.

Shatavari Ghrita, prepared using Moorchit Goghrita, shows statistically significant analytical enhancement.

The study provides pharmaceutical and analytical standards for quality control.

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