

PHARMACEUTICAL STUDY ON MANDA, PEYA, VILEPI AND YAVAGU

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ABSTRACT

Context: *Bhaishajya Kalpana* (Ayurvedic Pharmaceuticals) can be broadly classified in two categories.^[1] *Ahara Kalpana*: *Manda, Peya, Vilepi, Yavagu, Yusha*, etc.^[2] *Aushadha Kalpana*: *Svarasa, Kalka, Kvatha, Sneha Kalpana* etc. *Acharya Charaka* has mentioned *Ahara Kalpana* such as *Manda, Peya, Vilepi* and *Yavagu* under *Kritanna Varga* because of their unique properties. It indicates that these formulations having nutritional values at some extent which increase the *Agni* of patients as well as maintaining their strength. *Acharya Sharangdhara* has mentioned these formulations in detail. Based on this textual reference, rice and water are the main constituents of these formulations but the consistency of final product is different i.e., *Manda* is in liquid form as it is filtrate of mixture, *Peya* is homogenous mixture of rice and water, the consistency of *Vilepi* is thicker than *Peya*, while *Yavagu* is thick or semisolid mixture of rice and water. In present study, it reveals that pharmaceutical standardization of *Manda, Peya, Vilepi* and *Yavagu* can be done by this procedure which gave optimum output of the formulation.

KEYWORDS: *Kritanna Varga, Manda, Peya, Vilepi, Yavagu, SMP.*

INTRODUCTION

In present era the latest trend in the field of medicine are the traditional medicines, established by our ancestors. Due to their minimal side effects & nature friendly phenomenon they are regaining their grounds in the society. Ayurveda is a traditional medicinal system of Indian sub- continent followed by centuries together by the people of India. In this era of globalization, it is the need of time to explore the scientific bases of medicaments of Ayurveda. In this exploration it is the prime duty of the people related to Rasa Shastra & Bhaishajya Kalpana to provide the scientific data about the preparation of the medicaments with having this goal in mind. The prime objective of pharmaceutical study is to develop a safe, effective and quality drug. Efficacy and safety depend solely on the quality of the drug and their proper processing. In order to achieve a quality product, the manufacturing processes should be controlled, which can be achieved by adopting GMP and SMP.

AIMS

- To develop Standard Manufacturing Procedure (SMP) of *Manda*, *Peya*, *Vilepi* and *Yavagu*.

OBJECTIVES

- To prepare pilot batches of *Manda*, *Peya*, *Vilepi* and *Yavagu*.
- To prepare twelve batches (three batches of each) of *Manda*, *Peya*, *Vilepi* and *Yavagu*.

MATERIAL AND METHODS

Procurement of raw drugs: *Tandula* (Gujarat 17) procured from Hospital Kitchen of J.S. Ayurved Mahavidyalaya and P. D. Patel Ayurvedic Hospital, Nadiad.

Equipment's - Weighing balance, Dish, Spoon, S.S vessels, Ladle, Cotton cloth, Induction-stove, Measuring Jar, Gloves, Mask.

METHOD OF PREPARATION

Preparation of *Manda Kalpana*

Pilot study – Pilot batch was prepared before preparation of three main batches. In *Manda Kalpana* the amount of *Tandula* was 25g and 350ml of water was taken for the preparation of pilot batch.

Main study – On the basis of observation and results obtained from pilot study main batches were prepared. 100g *Tandula* and 1400ml *Jala* were taken in S.S Vessel and boiled over mild

heat (100°C) on induction till *Tandula* get completely cooked, prepared mixture was filtered through cotton cloth and supernatant part of the mixture was collected. The characteristic smell of *Tandula* was felt during procedure and *Tandula* became soft after they were completely cooked.

Preparation of *Peya Kalpana*

Pilot study – Pilot batch was prepared before preparation of three main batches. In *Manda Kalpana* the amount of *Tandula* was 25g and 350ml of water was taken for the preparation of pilot batch.

Main study- 1 part of *Tandula* and 14 parts of *Jala* were taken in S.S Vessel and boiled over mild heat (100°C) on induction till *Tandula* get completely cooked, homogenous mixture was collected. The characteristic smell of *Tandula* was felt during procedure and *Tandula* became soft after they were completely cooked.

Preparation of *Vilepi Kalpana*

Pilot study – Pilot batch was prepared before preparation of three main batches. In *Manda Kalpana* the amount of *Tandula* was 25g and 100ml of water was taken for the preparation of pilot batch.

Main study- 1 part of *Tandula* and 4 parts *Jala* were taken in S.S Vessel and boiled over mild (100°C) heat on induction till *Tandula* get completely cooked, thick consistency of mixture was obtained. *Tandula* was soft and Characteristic smell of *Tandula* was felt after *Tandula* was completely cooked.

Preparation of *Yavagu Kalpana*

Pilot study – Pilot batch was prepared before preparation of three main batches. In *Manda Kalpana* the amount of *Tandula* was 25g and 400ml of water was taken for the preparation of pilot batch.

Main study- 1 part of *Tandula* and 16 parts *Jala* were taken in S.S Vessel and boiled over mild heat (100°C) on induction till *Tandula* get completely cooked, homogenous mixture was collected. The characteristic smell of *Tandula* was felt during procedure and *Tandula* became soft after they were completely cooked.

RESULTS AND DISCUSSION

Manda Kalpana - The Average volume was 886.7ml. The Average yield was 59.06%.

Peya Kalpana - The Average volume was 876.7ml. The Average yield was 58.4%.

Vilepi Kalpana - The Average volume was 826.6ml. The Average yield was 206.6%.

Yavagu Kalpana - The Average volume was 796.6ml. The Average yield was 49.7%.

Precautions

The entire process was done by keeping the vessel uncovered and on mild heat to avoid burning of mixture and continuous stirring was required to avoid sticking of *Tandula* to bottom of the vessel.

MANDA KALPANA

Table 1: Showing Ingredients used for Manda Kalpana Batches.

Sr. No.	Ingredients	Botanical / English name	Batch 1	Batch 2	Batch 3
1	<i>Tandula</i> (g)	<i>Oryza sativa</i>	100	100	100
2	<i>Jala</i> (ml)	Potable water	1400	1400	1400

Table 2: Showing Results in Manda Kalpana Batches.

Sr. No.	Parameters for Manda	Batch 1	Batch 2	Batch 3	Avg
1.	Initial Volume	1500	1500	1500	1500
2.	Volume of <i>Manda</i> (ml)	880	870	910	886.7
3.	Yield of <i>Manda</i> (%)	58.6	58	60.6	59.06

PEYA KALPANA

Table 3: Showing Ingredients used for Peya Kalpana Batches.

Sr.No.	Ingredients	Botanical / English name	Batch 1	Batch 2	Batch 3
1	<i>Tandula</i> (g)	<i>Oryza sativa</i>	100	100	100
2	<i>Jala</i> (ml)	Potable water	1400	1400	1400

Table 4: Showing Results in Peya Kalpana Batches.

Sr. No.	Parameters for Peya	Batch 1	Batch 2	Batch 3	Avg
1	Initial Volume	1500	1500	1500	1500
2	Volume of <i>Peya</i> (ml)	860	890	880	876.7
3	Yield of <i>Peya</i> (%)	57.3	59.3	58.6	58.4

VILEPI KALPANA

Table 5: Showing Ingredients used for Vilepi Kalpana Batches.

Sr.No.	Ingredients	Botanical / English name	Batch 1	Batch 2	Batch 3
1	<i>Tandula</i> (g)	<i>Oryza sativa</i>	100	100	100
2	<i>Jala</i> (ml)	Potable water	400	400	400

Table 6: Showing Results in Vilepi Kalpana Batches.

Sr. No.	Parameters for Vilepi	Batch 1	Batch 2	Batch 3	Avg
1.	Initial Volume	500	500	500	500
2.	Volume of Vilepi (ml)	810	830	840	826.6
3.	Yield of Vilepi (%)	202.5	207.5	210	206.6

YAVAGU KALPANA**Table 7: Showing Ingredients used for Yavagu Kalpana Batches.**

Sr.No.	Ingredients	Botanical / English name	Batch 1	Batch 2	Batch 3
1	Tandula (g)	Oryza sativa	100	100	100
2	Jala (ml)	Potable water	1600	1600	1600

Table 8: Showing Results in Yavagu Kalpana Batches.

Sr.No.	Parameters for Yavagu	Batch 1	Batch 2	Batch 3	Avg
1	Initial Volume	1700	1700	1700	1700
2	Volume of Yavagu (ml)	780	810	800	796.6
3	Yield of Yavagu (%)	48.7	50.6	50	49.7

CONCLUSION

In present study, it reveals that pharmaceutical standardization of *Manda*, *Peya*, *Vilepi* and *Yavagu* can be done by this procedure which gave optimum output of the formulation.

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