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PHARMACOLOGICAL AND PHARMACEUTICAL ANALYSIS OF "MAHA TRIPHALADYA GHRITA – A POLY HERBAL AYURVEDIC FORMULATION"

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INTRODUCTION

WHO defines drug as "A substance or product that is used or intended to be used to modify or explore physiological system or pathological status for the benefit of the recipient". *Ayurveda* is the first to give an elaborate description of various therapeutic measures not merely of radical removal of the causative factors but also at the restoration of *Doshika* equilibrium A drug may be defined as any chemical substance, synthetic or of plant or animal origin and of known or unknown composition, which is used as a medicament to prevent or cure. The drug (*Dravya*) comes second in the order of the four fundamental components of treatment. [1]

Our Acharya has given equal importance to systemic and local administration of the drug indicating that the Acharya of that time were well aware of the importance of the topical route and oral route in treating the ocular ailments Drug combinations are envisaged to serve synergistic action, combined action, toxicity neutralizing action and specific action. Ayurvedic literature speaks about the importance of the drug "Nothing in the world exists, which does not have therapeutic utility". Taking this fact into consideration, Ayurvedic physicians have formulated single as well as compound drugs for the cure and prevention of various ailments.

COMPOSITION AND PROPERTIES OF MAHATRIPHALADYA GHRITA^[2]

Ingredients: Murchhita Cow Ghritam, Triphala, Bhringaraja, Adusa leaves, Satavari, Goat's Milk, Guduchi, Amalaki, also take Pippali, raw sugar, Draksha, Triphala, Nilkamal, Madhuka, Kshirkakoli, Madhuparni, and Nidigdhika.

Process of Drug Preparation

Take 750 ml each of the following: *Murchhita* Cow *Ghrita*, Decoction of *Triphala*, Juice of *Bhringaraja*, Juice of *Adusa* leaves, Decoction or Juice of *Satavari*, Goat's Milk, *Guduchi*, Decoction or Juice of *Amalaki*.

Also take *Kalka* out of the following in equal parts (i.e. 17 gm each): *Pippali, raw sugar, Draksha, Triphala, Nilakamal, Madhuka, Kshirakakoli, Madhuparni and Nidigdhika*.

Taking all the ingredients cook them as per method & thus obtain the medicated *Ghritam*.

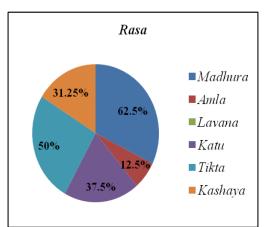
METHOD OF PREPARATION^[3-4]

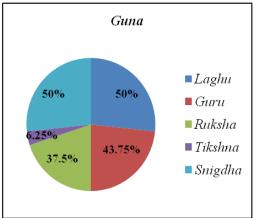
All ingredients were taken in above said quantity. Ghrita was taken in a stainless steel vessel and heated mildly to remove any moisture. Then ingredients of Kalka were added. It was then thoroughly stirred while adding Kwatha. Then it was heated. The temperature maintained was in between 50°C to 90°C during the first hour of heating. Heating was continued for three hours and then stopped & allowed to stand overnight. Heating was again started on next day while keeping a watch over the subsidence of froth (Phena Shanti) and the Kalka was constantly checked for formation of Varti (Madhyama Paka Lakshana). Heating was stopped when Varti was formed and froth subsided. Varti was tested for absence of crackling sound. Ghrita was filtered while still hot (approx. 80°) through a muslin cloth and allowed to cool. After that, the Ghrita was packed tightly in glass containers to protect from light and moisture.

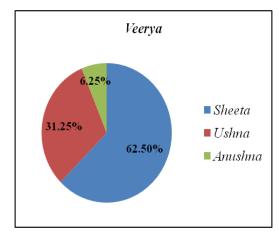
THE PHARAMACO-DYNAMICS OF MAHATRIPHALADYA GHRITA

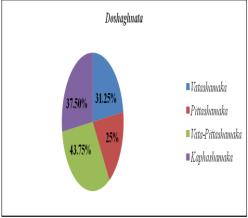
The physiological effects of the drugs and mechanism of their action are best understood by the properties of its basic physiochemical factors i.e. Rasa, Guna, Veerya, Vipaka, Karma and Prabhava of the drugs. These primarily affect the Doshas and determine their Doshakarma activity, which in turn corrects the vitiated Doshas and maintain the Doshika equilibrium of the body. The Pharmaco-dynamics of the selected recipe of the present study can be explained as follows:

Sr. No.	Ingredients	Rasa	Guna	Veerya	Vipaka	Doshaghnata
01	Haritaki ^[5]	Kashaya, Tikta, Madhura, Katu, Amla	Laghu, Ruksha	Ushna	Madhura	Tridoshashamaka, especially Vatashamaka
02	Bibhitaki ^[6]	Kashaya	Ruksha, Laghu	Ushna	Madhura	Tridoshashamaka, especially Kaphashamaka
03	Amalaki ^[7]	Amla, Madhura, Kashaya, Tikata, Katu	Guru, Ruksha, Sheeta	Sheeta	Madhura	Tridoshashamaka, especially Pittashamaka
04	Shatavari ^[8]	Madhura, Tikta	Guru, Snigdha	Sheeta	Madhura	Vata-Pittashamaka
05	Nilotpala ^[9]	Madhura, Katu, Tikta	Laghu, Snigdha, Picchila	Sheeta	Madhura	Tridoshashamaka, especially Vata- Pittashamaka
06	Pippali ^[10]	Katu	Laghu, Snigdha, Tikshna	Anushna	Madhura	Vata-Kaphashamaka
07	Madhuka	Madhura	Guru	Sheeta	Madhura	Vata-Pittashamaka
08	Go-ghrita ^[11]	Madhura	Guru, Snigdha	Sheeta	Madhura	Vata-Pittashamaka
09	Kshirakakoli ^[12]	Madhura	Guru, Snigdha	Sheeta	Madhura	Vata-Pittashamaka
10	Bhringaraja ^[13]	Katu, Tikta	Ruksha, Laghu	Ushna	Katu	Kapha-Vatashamaka
11	Vasa	Tikta, Kashaya	Ruksha, Laghu	Sheeta	Katu	Kapha-Pittashamaka
12	Guduchi	Tikta, Kashaya	Guru, Snigdha	Ushna	Madhura	Tridoshashamaka
13	Ajadugdha ^[14]	Madhura	Laghu	Sheeta	Madhura	Rakta-Pitta prashamana
14	Sheeta	Madhura	Sheeta, Snigdha	Sheeta	Madhura	Vata-Pittashamaka
15	Draksha	Madhura	Guru, Snigdha, Madhu	Sheeta	Madhura	Vata-Pittashamaka
16	Kantakari	Katu, Tikta	Ladhu, Ruksha, Sara	Ushna	Katu	Kapha-Vatashamaka









According to *Charaka*, *Ghrita* is effective in subsiding *Pittaja* and *Vataja* disorders; it improves *Dhatus* and is overall booster for improving *Ojas*. *Mahatriphladya*

Ghrita has predominance of Madhura Rasa (62.5%), Tikta Rasa (50%), Katu Rasa (37.5%), Kashaya Rasa (31.25%), Amla Rasa (12.5%), Laghu Guna(50%),

Snigdha Guna (50%), Guru Guna (43.75%), Ruksha Guna (37.5%), and Tikshna Guna (6.25%), Sheeta Veerya (62.5%), Ushna Veerya (31.25%) & Anushna Veerya (6.25%), Madhura Vipaka (81.25%) & Katu Vipaka (18.75%). Considering the Doshakarma, the trial drug is Vata-Pittashamaka (43.75%), Vatashamaka (31.25%), Pittashamaka (25%) and Kaphashamaka (37.5%) by virtue of its Rasa, Guna, Veerya and Vipaka. Thus, the overall effect of the compound drug is Vata-Pittashamaka and hence it disintegrates the pathology of the eye diseases, which is Vata-Pittaja in its manifestation.

Description of Prepared *Ghrita*

A yellow colored, soft, low melting medicated fat was unctuous for touch with a characteristic odour and slight bitter taste

Physicochemical parameters

Analytical Parameter	Maha Triphaladya Ghrita
Purity test	+ve
Rancidity	-ve
Refractive Index	1.4620 at 40°C
Specific Gravity	0.9111 at 40°C
Loss on Drying	0.20 %
Acid Value	5.1482
Iodine Value	37.0797
Saponification Value	230.15748
Unsaponifiable matter	0.36%
Ester value	203.87

Method of Use/Administration

It should be taken in doses of 6-12 gm before meals along with Luke warm milk.

It should be taken during meals when one is taking breads or cooked rice, If one is taking liquid meals the medicine shall be taken after that.

Therapeutic benefits

Ghrita is said to be one of the best Yogavahi, Vatapittasamaka, and Rasayana^[15], So Mahatriphaladya Ghrita^[16] is best of choice to cure various eye diseases. Triphala is best Chakshusya and is use frequently in ophthalmic practice.

Taken as per instructions, this medicine checks all types of eye diseases particularly, Night blindness, Cataract, Kacha, Arbuda, Nilika, Patala, Conjunctivitis, Adhimantha, Pakshmakopa, Eye diseases caused by Vata, Pitta, Sleshma & Sannipataja problems, lost vision or diminished vision & the like. Sushruta indicated Ghritapaana & Tarpana as line of treatment in Shushkakshipaka^[17] It also checks indispositions like excessive tearing, itching in the eyes and problems of long vision or short vision. The medicine makes the user's looking power as powerful as that of a vulture while his body becomes very charming and his digestive power is also developed. This medicine is very effective in checking all types of eye diseases.

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