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Research Article

PHARMACOGNOSTICAL AND PHARMACEUTICAL EVALUATION OF MADUTAILIKA BASTI

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ABSTRACT

Introduction: Basti (therapeutic enema) is considered as the most important Panchakarma procedure. Among all the basti practiced, Madutailika basti is the most commonest one. Many studies has proved its wide range of applications from low back pain to infertility. The microscopic evaluation of classically prepared Madutailika basti was attempted here along with its physico-chemical properties. Methods: Microscopic evaluation of freshly prepared Madutailika basti as per classical reference was done along with its organoleptic characteristics like color, odor, touch and taste. Its specific gravity and density was also done. Results: Presence of fibers of erandamula (Ricinus communis); epicarp cells, striated fibers and vascular strands

of satapushpa (Anethum sowa); aleurone grains and oil globules of bala taila was found. The sample was brown in color with oily odor, soft on touch and tastes sweet and salty.

KEYWORDS: Madutailika physico-chemical basti. pharmacognosy, property, Panchakarma.

INTRODUCTION

Among the Ayurvedic treatment procedures Basti (therapeutic enema) is considered as most important. It is considered as half of the entire treatment or even sometimes as a complete treatment. The superiority of this treatment procedure is due to many reasons. It is the treatment procedure which directly have an action over the most important dosha, vata. Once the vata can be controlled all the other doshas can also be controlled. Its having action over all the rogamargas, its an important treatment as far as the marma (vital point) are concerned, its action is over all the *dhatus*.^[1]

Among the basti, niruha basti or basti with decoction is considered to be most important. As the name suggests its action can't be predicted, [2] which means it's having a wide range of actions. One among the *niruha basti* types is the 'Yapana basti'. Yapana basti can be given without any complications, can be administered in all seasons and can be used continuously for a longer duration. *Madutailika basti* is considered as type or even as a synonym of yapana basti. [3] It is one among the most commonly used niruha basti practically because of its wide range of actions and its nature of not producing any complications. Here an attempt is made to find out the physico-chemical properties as well as the microscopic evaluation of Madutailika basti.

MATERIALS AND METHODS

Collection of raw drugs

Saidava (Rock salt) and Bala taila were obtained from PG Hospital, ITRA, Jamnagar. Honey (Agmark grade) and Satapushpa (Anethum sowa) powder were obtained from local market, Jamnagar. Erandamula (Ricinus communis) was obtained from Pharmacy, ITRA, Jamnagar. The ingredients were authenticated at Department of Pharmacognosy, ITRA, Jamnagar. The dried roots of *eranda* was coarsely powdered and stored in air tight container.

Preparation of erandamula decoction

The coarse powder of erandamula and water is taken in the ratio of 1: 8, boiled and reduced to ¼ part. This is then filtered and used as decoction for the basti preparation.

Preparation of Satapushpa paste

Satapushapa powder is made into fine paste form by grinding it with sufficient quantity of water.

Preparation of Madutailika basti

The ingredients of *Madutailika basti* with its quantity is given in Table 1

Table 1: Ingredients of *Madutailika basti*.^[4]

Content	Latin/English name	Quantity
Madhu	Honey	120ml
Bala taila		120ml
Saindava	Rock slat	12gm
Satapushpa kalka	Anethum sowa	24gm
Erandamula kwata	Ricinus communis L.	240ml

Honey was poured into the mortar and triturated. Finely powdered saindava was added into it and triturated well. When it was properly mixed Bala taila was poured slowly while continuing the trituration. After that paste of satapushpa was added and mixed thoroughly. When it was properly mixed, decoction of erandamula was added and triturated until a homogeneous mixture is obtained.^[5]

Physico-chemical characteristics of Madutailka basti

The possible physico-chemical parameters such as Specific gravity and Density of freshly prepared Madutailika basti was done at Pharmaceutical laboratory, ITRA, Jamnagar.

Pharmacognostical analysis of Madutailika basti

Organoleptic and microscopic study of freshly prepared Madutailika basti was done at Pharmacognosy laboratory, ITRA, Jamnagar.

Organoleptic study: This study helps in authentication of drugs used and there by ensures safety and efficacy of medicine. The details are enumerated in Table 3.

Microscopic study: Madutailika basti was prepared and microscopy of the sample was done. Microphotographs of Madutailika basti was also taken under Carl-Zeiss trinocular microscope.

OBSERVATIONS AND RESULTS

Physico-chemical characteristics of Madutailka basti

Physico-chemical characteristics of *Madutailka basti* are shown in Table 2.

Organoleptic characters of Madutailka basti

Organoleptic characters such as color, odour, taste etc were examined by sensory organs and the results obtained are shown in Table 3.

Table 2: Physico-chemical characteristics of Madutailka basti.

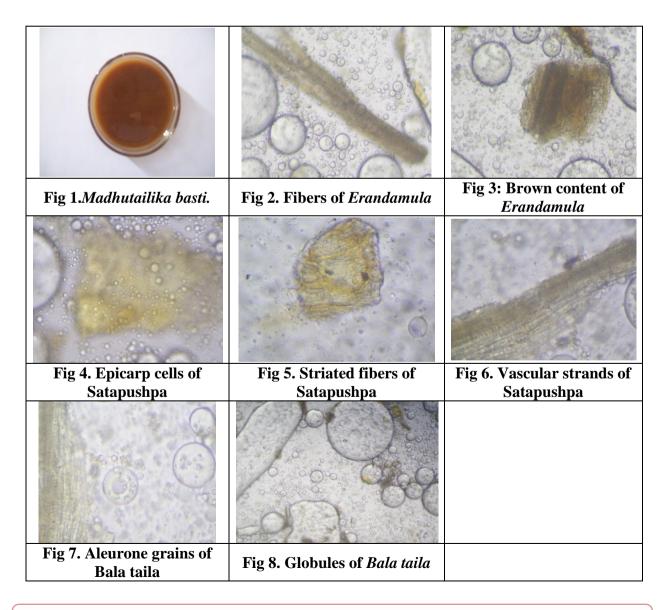
Sr. No	Characteristics	Results
1.	Specific gravity	1.057
2.	Density	1.0327 gm/ml

Table 3: Organoleptic characters of *Madutailika basti*.

Sr.No	Character	Results
1	Color	Brownish
2	Odor	Oily
3	Touch	Slimy, Soft
4	Taste	Sweet and salty

Microscopic study of Madutailika basti

Microphotographs of Madutailika basti shows the presence of fibers (Fig.2) and brown content (Fig.3) of erandamula; epicarp cells (Fig.4), striated fibers (Fig.5) and vascular strands (Fig.6) of satapushpa; and Aleurone grains (Fig.7) and globules (Fig.8) of bala taila.



DISCUSSION

The physico-chemical parameters analysed were found to be within the normal reference range. The physico-chemical analysis showed specific gravity as 1.057 and density as 1.0327 gm/ml. Pharmacognostic evaluation of madutailika basti showed the characteristics of ingredients present in it. Epicarp cells, vascular starnds and striated fibers of Anethum sowa; aleurone grains and oil globules of bala taila; and fibers and brown content of Ricinus communis were identified under the microscope.

CONCLUSION

The pharmacognostical and physio-chemical study suggests that the study sample of Madutailika basti was prepared with authentic ingredients and it meets the qualitative standards. These parameters may be used for identification and quality assessment tools for Madutailika basti.

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