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STANDARDIZATION OF *KULATTA CHURNA* USED FOR *UDVARTANA* PROCEDURE

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ABSTRACT

Horse gram powder is widely used in *udvartana* procedure, standard for this is not present in the literature. This study is initiated to overcome this vacuum. Initially authentic horse gram seeds were identified out of five from different sources. This was chosen for this study. Physicochemical and phytochemical values were established and presented here.

KEYWORDS: Horse gram powder, *Udvartana*, Physicochemical, Phytochemical, Powder massage.

INTRODUCTION

Dry powder massage (*Udvartana*) is an external procedure indicated for obesity[1], any one of different powders are used for the procedure, popular among them is Horse gram(*Kulatta*) powder.[2]

Horse gram powder (Kulatta churna) is widely used in practice.[3] Literature does not give a standard method of preparation of this, similarly its physicochemical and phytochemical values are not available. In this study, we aim to standardize Horse gram powder and its physicochemical and phytochemical values.

MATERIALS AND METHODS

Initially identification of Horse gram seeds was done followed by collection from five different shops. The horse gram seeds sample whose properties were studied in Central Research Facilities available in Shri BMK Ayurveda college, with API (Ayurvedic Pharmacopoeia of India) standards. Out of all collected samples one matched with standard merits. The same was purchased (80 kgs) for further studies and made into powder form.

The gram seeds powder was prepared with the help of a pulveriser available in pharmacy division of Shri BMK Ayurveda college. This was allowed to pass through a sieve with 80 number mesh. The final product 2kg each was packed in air tight plastic bags.

The packed powder was safely stored in Medical Research Facility. Physico Chemical Standards of the prepared drug powder werestudied. Preliminary Phytochemical Screening of the drug was carried out and total fat content was analyzed before and after the procedure.

Horse gram powder (10gms) was taken and packed in the filter paper. This was kept in the thimble of soxalate apparatus. In a round bottom flask 200ml of Ethyl alcohol was taken and the thimble was attached. The whole apparatus was kept on heating. The extract was transformed error to Porcelain dish and placed on water bath at 75° Celsius till alcohol in it evaporated.

The weight of Porcelain dish was measured before and after the procedure. The extractive value was calculated by using below formula

(Weight of dish + Extract) – Weight of empty dish

RESULTS

The results of analytical tests are given in Table 1 to 5. Ash value, Acid insoluble ash, Water soluble extract, Alcohol soluble extract, TLC- All values were within normal limit.

Table 1: Authentication of the drug.

Name	Sci. Name	Part used	Varg/Family
Kulatth	Dolichosbiflorus	Seeds	Fabaceae

Table 2: Description of horse gram powder Macroscopic.

Form	Choorna
Colour	Creamish
Taste	Bitter
Odour	Characteristic

Table 3: Physico chemical standards of horse gram powder.

Ash Value	**Not more than 5%**	**4.900%**
Acid insoluble Ash	Not more than 1%	0.576%
Water soluble extractive	Not more than 12%	20.560%
Alcohol soluble extractive	Not more than 3%	7.440%

Table 4: Preliminary Phytochemical screening observation of horse gram powder.

Test for Carbohydrates	Negative	Negative
Test for reducing sugar	Negative	Negative
Test for Pentose sugar	Negative	Negative
Test for Hexose sugar	Negative	Negative
Test for Proteins	Positive	Positive
Test for Amino acid	Negative	Negative
Test for Polysaccharides	Negative	Negative
Test for monosaccarides	Negative	Negative
Test for Saponin	Negative	Negative
Test for Flavonoids	Positive	Positive
Test for Alkoloids	Negative	Negative
Test for Tannis	Positive	Positive

Table 5: Physico Chemical Standards.

Total Fat Content Before the Procedure	0.405 gms
Total Fat Content After the Procedure	2.785 gms

DISCUSSION

Horse gram powder(Kulatta) is widely used for powder massage. In the procedure of doing the specialty is opposite to the hair roots.[4][5] On scouting we didn't found the standards and we analyzed horse gram powder for physico chemical and Phyto chemical values.

Under scouting CRF was able to find out only one standard horse gram out of 5 collected from different shops, making it clear that any horse gram available in the market may not be matches with the API standards, so out of 5 only one matches with standards.

In conclusion our study clearly shows Horse gram employed for Udvartana procedure has to be seen for its Physico- Chemical and Phyto chemical standards.

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