

## RESEARCH ARTICLE

### ANTI BLOAT EFFECT OF *LEUCAS ASPERA* IN CATTLE – A FIELD TRIAL REPORT

<sup>1</sup>Umadevi, U., <sup>2</sup>Madhu Mathi, P. and <sup>\*2</sup>Umakanthan, T.

<sup>1</sup>Dept. of Botany Specialized with Plant Biotechnology, The Standard Fireworks Rajarathinam College for Women, Sivakasi, Virudhunagar Dt, Tamil Nadu, India- 626123

<sup>2</sup>Veterinarian, Subject Matter Expert Level I, ACIS – A company of Allianz, Technopark Campus, Thiruvananthapuram, Kerala 695 581

<sup>3</sup>Veterinary Surgeon, Veterinary Hospital, Sattur, Virudhunagar Dt, Tamil Nadu, India- 626203

#### ARTICLE INFO

##### Article History:

Received 11<sup>th</sup> August, 2016

Received in revised form

21<sup>st</sup> September, 2016

Accepted 19<sup>th</sup> October, 2016

Published online 30<sup>th</sup> November, 2016

#### ABSTRACT

Twenty six cattle, age ranging from 8 months to 4 years and different sex were employed in this study. All were clinically diagnosed as bloat due to different causes. On humanitarian ground no control maintained. All the 26 were orally drenched with the extract of finely grounded *Leucas aspera*. Purgation occurred within 1 – 2 hours and 22 cattle were found relieved of the bloat. 84% recovery rate noticed.

##### Key words:

Cattle, Bloat,  
*Leucas aspera*.

Copyright©2016, Umadevi et al. This is an open access article distributed under the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited.

#### INTRODUCTION

A simple and effective treatment with *Leucas aspera* against bloat in cattle successfully tried and advocated through this paper.

#### MATERIALS AND METHODS

Twenty six cattle of age ranging from 8 months to 4 years and different sex used. The animals were clinically presented for the enlarged abdomen. Clinical examination revealed left lateral ballooning of the abdomen and found peracute to subacute, dyspnoea, frothy or free-gas bloat. No control maintained on humane concern.

#### TREATMENT AND RESULTS

All cattle were orally drenched with 250 ml extract from finely grounded 1 kg of *Leucas aspera*. No other treatment given. Purgation occurred within 1 – 2 hours. 22 cattle found relieved of the bloat. Thus 84% recovery rate recorded.

#### DISCUSSION

Bloat, accumulation of gas in the rumen, is a complex condition in which entire digestion is compromised.

**\*Corresponding author: Umakanthan, T.**

Veterinary Surgeon, Veterinary Hospital, Sattur, Virudhunagar Dt, Tamil Nadu, India- 626203.

It occurs when the eructation mechanism is impaired and the rate of gas production exceeds the animal's ability to expel the gas. If left uncared leads to fatality by affecting the respiration. Seeds of the *Leucas aspera* is purgative (Maheshwari, 1996) and the entire plant is a laxative and anthelmintic (Bendre, 2009). Based on the above properties of *Leucas aspera* selected, tried with (84%) success. Thus it is advocated as a quick and easy treatment in field emergency bloat conditions.

##### Summary

*Leucas aspera* 200 ml extract orally given was clinically found to recover 84% of bloat in cattle.

##### Acknowledgement

The authors thank cattle owners, field veterinarians, traditional practitioner, laboratory technicians, The Director, Department of Animal Husbandry and Veterinary Services, Tamil Nadu, The Principal, SFR college for women, Sivakasi, Tamil Nadu for their various help.

#### REFERENCES

- Maheshwari, J. K. 1996. *Ethnobotany in South Asia*, Scientific Publishers, pp.296  
Bendre, 2009. *Practical botany*, Deep and Deep Publications, Meerut, pp.111.