



## Effect of the Leaf Extract of *Bidens pilosa* on Haemostasis

Pade Benard<sup>1</sup> and Banson Barugahare<sup>1\*</sup>

<sup>1</sup>Department of Biology, Faculty of Science and Education, Busitema University, P.O. Box 236, Tororo, Uganda.

### Authors' contributions

This work was carried out in collaboration between both authors. Author PB proposed the project, run the experiment and wrote the initial draft of the manuscript. Author BB moderated the proposal and experimental design, data analysis and prepared the final manuscript. Both authors read and approved the final manuscript.

### Article Information

DOI: 10.9734/JABB/2020/v23i530155

#### Editor(s):

(1) Dr. Joana Chiang, China Medical University, China.

#### Reviewers:

(1) Kamal Saini, Ministry of Environment, India.

(2) Meenakshi, Career Point University, India.

Complete Peer review History: <http://www.sdiarticle4.com/review-history/59131>

Short Research Article

Received 10 May 2020  
Accepted 15 July 2020  
Published 21 July 2020

### ABSTRACT

**Aims:** To determine the effect of the leaf extract of *Bidens pilosa* on the rate of haemostasis and validate its traditional use application to fresh wounds.

**Study Design:** Experimental

**Place and Duration of Study:** The study was conducted at the Biology Department, Faculty of Science and Education, Busitema University and Nagongera Health Center IV laboratory between April and May 2019.

**Methodology:** Different concentrations of the extract were applied to blood samples. Whole venous blood was collected by vein puncture in heparin tubes. The rate of clotting in presence and absence of the extract was determined. The experiment was replicated.

**Results:** Increase in the concentration of the extract decreased the rate of haemostasis. Statistical analysis with a two-way ANOVA was significant,  $P = 0.02$  at a 95% CI.

**Conclusion:** High concentration *Bidens pilosa* leaf extract decreases the rate of haemostasis but may have other healing activities attributed to its historical and traditional use and application to fresh wounds.

\*Corresponding author: E-mail: barugahare@gmail.com;