Animal Science-2013

OMICS Group Conferences
Accelerating Scientific Discovery

International Conference on
Animal & Dairy Sciences

July 23-24, 2013 Embassy Suites Las Vegas, USA

Effects of turmeric (*Curcuma longa*) and durba (*Cynodondactylon*) on the healing of surgical wounds in cattle (*Bos indicus*)

Nasrin Sultana Juyena

Bangladesh Agricultural University, Bangladesh

Abstract

Wound management focuses on restoration of function and physical integrity with the minimum deformity and without infection. Various attempts have been taken to aid wound repair. There are limited researches on the use of herbal product to assist healing process in Bangladesh. Therefore, this experiment was carried out to exploit turmeric and durba pastes in the treatment of surgical wound in cattle and to study their healing effect in wounds sutured with horizontal mattress using nylon. A total of 36 surgical wounds were made in nine cattle. Tr benzoin Co. or benzoin seal was used as control group. Follow-up information was obtained since day of surgical operation up to day 21 postoperatively. Some morphological characters such as swelling area of wound, elevation of sutured line from the skin surface, width of sutured area and contraction length per week were recorded to determine the healing of the wounds. Bacteriological and histopathological studies were also performed. All wounds were closely monitored daily to observe any complication. Results showed that Tr. Benzoin seal caused marked tissue reaction in wounds. Turmeric paste showed splendid results in the healing of the wounds produced in cattle. Durba paste also has wound healing activity but less effective than that of turmeric. This study could help veterinarians to consider herbal product specially turmeric for a good healing of wounds with minimum complications. Dissemination of these findings among the farmers may can prevent skin degradation caused by the postoperative complication of the wound in Bangladesh.

Biography

Nasrin Sultana Juyena is working as an Associate Professor at the Department of Surgery and Obstetrics, Faculty of Veterinary Science, Bangladesh Agricultural University, Mymensingh, Bangladesh. She completed her PhD on ram and alpaca semen cryopreservation in 2011 from University of Padova, Italy. She has published more than 20 papers in reputed journals. Her research interests are in the area of orthopaedic surgery and ruminant reproduction.