

**USE OF GUAVA LEAF EXTRACT IN TREATING WOUNDS OF AFRICAN
CATFISH (*Clarias gariepinus*)**

BY

CHRIZHANE G. DOMINGO

An undergraduate thesis presented to the faculty of the College of Fisheries in partial
fulfilment of the requirements for the degree of

BACHELOR OF SCIENCE IN FISHERIES

**Department of Aquaculture
COLLEGE OF FISHERIES
CENTRAL LUZON STATE UNIVERSITY
Science City of Muñoz, Nueva Ecija
Philippines**

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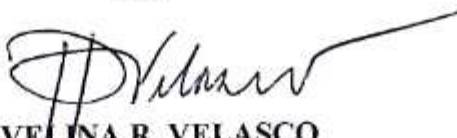

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USE OF GUAVA LEAF EXTRACT IN TREATING WOUNDS OF AFRICAN CATFISH (*Clarias gariepinus*)^I

ABSTRACT

The study focused on the effect of guava leaf extract in treating wounds of African catfish (*Clarias gariepinus*). The study had 5 treatments, each replicated thrice. The treatments were: Treatment 1 water (control), Treatment 2 (salt bath), Treatment 3 (53.84% guava crude extract) and treatment 4 (46.66% guava crude extract) and Treatment 5 (41.17% guava crude extract). The experiment has been done in aquaria (1 x 1 x 1ft). For the guava crude extract preparaton, 100 grams guava leaves were boiled in 7 liters of water. The boiled guava leaves was used and placed in the respective aquarium depending on the treatment groups. The wounding of fish was performed in the dorsal musculature on both sides of the fish just above the lateral line. Histological process was done. The experiment lasted for 30 days.

The result of the experiment, duration of healing period was found to be shorter (i.e. 10 days post- wounding) and similar between those with salt bath in the treatment 2 and those with guava extracts in the treatments 3 to 5. On the other hand, healing was observed to be relatively longer (i.e. 18 days post-wounding) in control group.

From this study it can be concluded the skin wound healing in *C. gariepinus* was characterized by fast recovery of the wounds by using guava crude extract and salt bath.

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