

**IN VIVO ANTHELMINTIC ACTIVITY OF ASIATIC BITTER YAM (*Dioscorea hispida*
Dennts.) TUBER EXTRACT AGAINTS ROUNDWORMS (*Ascaridia galli*)
IN PHILIPPINE NATIVE CHICKEN**

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By

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ABSTRACT

This study was conducted at CPU-CARES Research and Developmental Learning Building, Jaro, Iloilo City from Feb. 20 to Mar. 20, 2019. This was done to appraise the *in vivo* anthelmintic activity of Asiatic bitter yam extract (ABYE) against *A. galli* on Philippine native chicken. The treatments were 0.5 ml, 0.75 ml, 1.0 ml ABYE/kg BW. Synthetic dewormer and 0 ml ABYE/kg BW served as the positive and negative control, respectively. A total of 45 chickens were used. ABYE treatments were processed and administered orally four times at 7-day intervals. Pre-fecalysis was done three days before treatment while post-fecalysis was done two days after every administration. The number of egg per gram expelled, egg percent reduction, and number of adult worms expelled were collected. Results of the study revealed that it was during the first two weeks when maximum expulsion of *A. galli* egg per gram was detected. On the 7th day of post-treatment, chickens treated with 0.5 ml, 0.75 ml and 1.0 ml/kg BW had the highest percent increase in egg per gram found in feces since the number of expelled egg per gram augmented considerably. It was found that 1.0 ml of ABYE was effective in terms of adult worm expulsion. From these results, it can be concluded that Asiatic bitter yam extract (ABYE) at 1.0 ml level is indeed effective in discharging the roundworm eggs, roundworm adults, and tapeworm adults until the 14th day post-treatment. Thus, 1.0 ml ABYE is a potential source of natural anthelmintic in Philippine native chicken.

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