

AGE-DEPENDENT SUSCEPTIBILITIES OF *BULINUS TRUNCATUS* SNAILS TO AN AQUEOUS EXTRACT OF *PULICARIA CRISPA* (FORSSK.) OLIV. (ASTERACEAE) LEAVES

Elnour A Ali¹, Hamid O Bushara², Faisal S Ali³ and Mansour F Hussein⁴

¹Department of Biology, Teachers College, King Saud University, Riyadh, Saudi Arabia; ²Idac Laboratories, Al-Kharj, Saudi Arabia; ³Department of Biology, Faculty of Education, University of Khartoum, Omdurman, Sudan; ⁴Department of Animal Production, College of Food and Agricultural Sciences, King Saud University, Riyadh, Saudi Arabia

Abstract. This study was carried out to investigate the potential use of the herb *Pulicaria crispa* in the biological control of different developmental stages of *Bulinus truncatus*, a major snail intermediate host of urinary schistosomiasis. Age-dependent susceptibilities of mature adult snails, immature snails, juveniles, and one-day old egg masses to aqueous extracts of *Pulicaria crispa* leaves collected from Khartoum (Sudan) and Riyadh (Saudi Arabia) was determined and compared. The results show the juvenile snails are the most susceptible, followed in descending order by one-day old egg masses, immature snails, and mature adult snails. The *P. crispa* sample collected from Riyadh was significantly more potent against *B. truncatus* than that collected from Khartoum, as indicated by the least (LC₅₀) and (LC₉₀) values for all *B. truncatus* ages.

Correspondence: Professor Mansour F Hussein,
Department of Animal Production, College of
Food and Agricultural Sciences, King Saud Uni-
versity, PO Box 2460, Riyadh 11451, Saud Arabia.
Tel: +966(1) 467 8484; Fax: +9661 4678474
E-mail: Mansour.Hussein@gmail.com