

ABSTRAK

EFEK PEMBERIAN TEPUNG CANGKANG KERANG DARAH (*Anadara granosa*) TERHADAP KADAR TESTOSTERON FESES BURUNG KENARI (*Serinus canaria*)

Amanda Yonica Poetri Faradifa
16/398162/KH/08933

Wilayah laut Indonesia yang luas tentu saja akan membuat Indonesia kaya akan biota laut yang bisa dimanfaatkan oleh masyarakat Indonesia, salah satunya adalah kerang darah (*Anadara granosa*). Melimpahnya kandungan mineral pada cangkang kerang darah akan lebih baik apabila kemudian dimanfaatkan menjadi sesuatu yang lebih bermanfaat daripada hanya dibuang dan mencemari lingkungan. Salah satu contohnya adalah kandungan *zinc* (Zn) yang berperan dalam peningkatan kadar Testosteron dalam tubuh. Kadar Testosteron dapat mempengaruhi kualitas kicauan dari burung. Salah satu jenis burung kicau yang banyak disukai oleh masyarakat Indonesia adalah burung kenari. Penelitian ini mengkaji efek pemberian tepung cangkang kerang darah (*Anadara granosa*) terhadap kadar Testosteron feses burung kenari (*Serinus canaria*) melalui metode *non-invasive* sampel yang digunakan adalah sebanyak 7 ekor kenari jantan dewasa dibagi menjadi 2 kelompok, kelompok kontrol dan perlakuan. Pada kelompok perlakuan, burung diberi 0,1 g tepung cangkang kerang, sedangkan kelompok kontrol hanya diberi pakan utama. Perlakuan diberikan sehari sekali selama 40 hari dan dilakukan pengambilan sampel feses diakhir penelitian. Sampel feses diekstraksi dan hasil ekstraksi diukur kadar Testosteronnya menggunakan ELISA. Rerata kadar Testosteron feses kelompok perlakuan $0,768 \pm 0,314$ ng/g feses kering dan kontrol $0,219 \pm 0,043$ ng/g feses kering. Analisis statistik menunjukkan pemberian tepung cangkang kerang berpengaruh signifikan ($p < 0,05$) terhadap kadar Testosteron feses burung kenari jantan.

Kata kunci: Burung kenari, kerang, Testosteron, feses, ELISA

ABSTRACT

EFFECT OF ADMINISTRATION OF BLOOD CLAMS (*Anadara granosa*) SHELL FLOUR ON CANARY (*Serinus canaria*) FECAL TESTOSTERONE LEVEL

Amanda Yonica Poetri Faradifa
16/398162/KH/08933

Indonesia's vast sea area will certainly make Indonesia rich in marine life that can be utilized by the people of Indonesia, one of which is a blood clam (*Anadara granosa*). The abundance of mineral content in blood clamshells will be better if it is then used to be something more useful than just being thrown away and polluting the environment. One example is the *zinc* content (Zn) which plays a role in increasing Testosterone levels in the body. Testosterone levels can affect the quality of birds singing. One type of chirping that is liked by many people in Indonesia is a canary. This study examines the effect of giving blood clamshells (*Anadara granosa*) to Testosterone levels of canary feces (*Serinus canaria*) through a non-invasive method. The samples used were 7 adult male canaries divided into 2 groups, control and treatment groups. In the treatment group, birds were given 0.1 g of conch shell flour, while the control group was given only the main food. The treatment is given once a day for 40 days and a stool sample is taken at the end of the study. Stool samples were extracted and the extraction results measured by Testosterone levels using ELISA. The mean of fecal Testosterone level of the treatment group was 0.768 ± 0.314 ng/g dry feces and the control was 0.219 ± 0.043 ng/g dry feces. Statistical analysis showed that giving shellfish flour significantly ($p < 0.05$) on Testosterone levels in male canaries feces.

Keywords: Canary, clams, Testosterone, feces, ELISA