

## ABSTRAK

### **Korelasi Kadar Hormon *Triiodothyronine* (T3) pada Kura-Kura Sulcata (*Centrochelys sulcata*) dengan Jumlah Pengunjung di Mini Zoo Jogja Exotarium**

Wini Setiyowati

20/455303/KH/10465

Kura-kura sulcata (*Centrochelys sulcata*) merupakan *chelonian* yang banyak dipelihara sebagai *exotic pet* maupun ditangkarkan di kebun binatang. Kura-kura sulcata memiliki ukuran tubuh besar dan temperamen yang cenderung jinak sehingga dapat menarik minat pengunjung. Kehadiran pengunjung dapat memicu stres karena ketidaknyamanan dan ketakutan yang dapat mengubah proses fisiologis dalam tubuh. Kadar hormon *triiodothyronine* (T3) dapat digunakan sebagai indikator adanya perubahan metabolisme tubuh akibat stres. Penelitian ini bertujuan untuk mengetahui korelasi antara jumlah pengunjung dengan kadar hormon T3 pada feses kura-kura sulcata yang ditangkarkan di Jogja Exotarium. Sampel feses dikoleksi dari 9 ekor kura-kura sulcata yang dibiarkan berinteraksi dengan pengunjung selama jam operasional. Sampel kemudian dianalisis menggunakan metode ELISA. Rata-rata kadar T3 tertinggi pada sulcata adalah 72,91 ng/gram saat jumlah pengunjung sebanyak 43 orang, kadar T3 terendah adalah 66,89 ng/gram saat jumlah pengunjung sebanyak 143 orang. Hasil analisis statistik menunjukkan tidak terdapat korelasi antara jumlah pengunjung dengan kadar hormon T3 pada feses kura-kura sulcata.

**Kata kunci:** kura-kura sulcata, *triiodothyronine* (T3), feses, ELISA

## ABSTRACT

### **Correlation of *Triiodothyronine* (T3) Hormone Levels in Sulcata Tortoises (*Centrochelys sulcata*) with the Number of Visitors at *Mini Zoo Jogja Exotarium***

Wini Setiyowati

20/455303/KH/10465

The sulcata tortoise (*Centrochelys sulcata*) is a chelonian that has seen an increase in popularity as an exotic pet or bred in zoos. Sulcata tortoise has a large body and docile temperament so that it can attract visitors. The presence of visitors can trigger stress due to discomfort and fear that can alter physiological processes in the body. Levels of the hormone triiodothyronine (T3) can be used as an indicator of changes in the body's metabolism due to stress. The purpose of this study was to determine the correlation between the number of visitors and T3 hormone levels in the feces of sulcata tortoise bred at Jogja Exotarium. Faecal samples were collected from 9 sulcata tortoise that were allowed to interact with visitors during operating hours. The samples analyzed using ELISA method. The highest average of T3 level was 72.91 ng/gram when the number of visitors was 43 people, and the lowest T3 level was 66.89 ng/gram when the number of visitors was 143 people. The results of statistical analysis showed no correlation between the number of visitors and T3 hormone levels in the feces of sulcata tortoise.

**Keywords:** sulcata tortoise, triiodothyronine (T3), feces, ELISA