

ABSTRAK

STUDI KOMPARASI FREKUENSI NAFAS DAN PULSUS PADA ULAR *Malayopython reticulatus* MUDA DAN DEWASA

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Sanca batik (*Malayopython reticulatus*) banyak dijadikan hewan peliharaan. Frekuensi nafas dan pulsus merupakan data fisiologis yang penting untuk penentuan status kesehatan pasien ular. Literatur mengenai data fisiologis berupa frekuensi nafas dan pulsus yang spesifik pada *Malayopython reticulatus* saat ini masih belum tersedia. Penelitian ini bertujuan untuk mengetahui perbandingan frekuensi nafas dan pulsus pada ular sanca batik muda dan dewasa sehat. Penelitian menggunakan 5 ular sanca batik muda dan 5 ular sanca batik dewasa sehat dengan jenis kelamin jantan dan atau betina. Penghitungan frekuensi nafas dilakukan dengan inspeksi gerakan mengembang dan mengempis area torak. Frekuensi pulsus dihitung dengan palpasi denyut jantung. Suhu dan kelembaban lingkungan diukur menggunakan termohigrometer. Pengambilan data dilakukan pada pagi dan sore hari selama lima hari berturut-turut. Data frekuensi nafas dan pulsus ditabulasi dan dianalisis menggunakan aplikasi SPSS. Hasil penelitian menunjukkan *Malayopython reticulatus* muda memiliki frekuensi nafas berkisar 10–41 kali/menit, rata-rata 18 ± 3 kali/menit dan frekuensi pulsus berkisar 21–72 kali/menit, rata-rata 38 ± 2 kali/menit. Frekuensi nafas *Malayopython reticulatus* dewasa berkisar 6–39 kali/menit, rata-rata 17 ± 8 kali/menit dan frekuensi pulsus berkisar 28–77 kali/menit, rata-rata 51 ± 2 kali/menit. Tidak terdapat perbedaan yang signifikan ($P > 0,05$) antara frekuensi nafas dan pulsus pada *Malayopython reticulatus* muda dan dewasa.

Kata kunci: *Malayopython reticulatus*, frekuensi, nafas, pulsus, muda, dewasa

ABSTRACT

COMPARATION STUDY OF RESPIRATION AND PULSE RATE ON JUVENILE AND ADULT *Malayopython reticulatus*

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Reticulated python (*Malayopython reticulatus*) was a popular snake widely kept as pets. Literatures regarding the specific physiological data such as respiration and pulse rate for juvenile and adult *Malayopython reticulatus* were unavailable. Respiration and pulse rate were important physiological data for determining the health status of snake. This study aims to compare the respiration and pulse rate of juvenile and adult *Malayopython reticulatus*. This research uses 5 healthy juvenile and 5 healthy adult reticulated pythons consisting of male and female. The counting of respiration rate was done by inspecting the thoracic movement. Pulse rate was counted by palpating the heart. Environmental temperature and humidity were measured using thermohygrometer. Data were collected in the morning and evening for five consecutive days. Respiration and pulse rate data then tabulated and analyzed using SPSS application. The results showed that juvenile *Malayopython reticulatus* having respiration rate range of 10–41 times/minute with an average of 18 ± 3 times/minute and pulse rate range of 21–72 times/minute with an average of 38 ± 2 times/minute. The respiration rate of adult *Malayopython reticulatus* range of 6–39 times/minute with an average of 17 ± 8 times/minute and the pulse rate range of 28–77 times/minute with an average of 51 ± 2 times/minute. There were no significant differences ($P > 0.05$) between respiration and pulse rate on juvenile and adult *Malayopython reticulatus*.

Key words: *Malayopython reticulatus*, respiration, pulse, juvenile, adult