

# Penentuan standar data morfometri dan berat badan macaca fascicularis berdasarkan kelompok umur dan jenis kelamin di penangkaran PT Indo Biomedical, Jonggol = Determenination of morphometric and weight's standard data of Macaca fascularis based on age group and sez in PT Indo Biomedical's captive, Jonggol

Tarore, Jennifer Jeromiah, author

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## Abstrak

Macaca fascicularis merupakan primata yang sering digunakan sebagai hewan uji dalam penelitian, sehingga kondisi fisiologisnya harus diperhatikan karena berpengaruh terhadap hasil penelitian, terutama penelitian tentang pertumbuhan. Standarisasi berat badan dan morfometri membantu penelitian tentang pertumbuhan, namun standarisasi tersebut memerlukan sampel yang banyak agar hasil tidak bias. Penangkaran milik PT Indo Biomedical, Jonggol memiliki banyak M. fascicularis dan belum memiliki standar data morfometri dan berat badan, sehingga dapat dilakukan penelitian penentuan standar data berat badan dan morfometri di penangkaran tersebut.

Tujuan penelitian ini untuk mendapatkan standar data karakter morfometri dan berat badan M. fascicularis. Jumlah hewan yang digunakan sebanyak 698 ekor dengan rincian 175 ekor bayi, 248 ekor infan, 209 ekor juvenil, dan 66 ekor pra-dewasa. Parameter yang diukur yakni berat badan, tinggi duduk, panjang ekor, panjang lengan atas, panjang lengan bawah, panjang paha, dan panjang betis.

Hasil pengolahan data dengan metode Analisis Komponen Utama (AKU) menunjukkan bahwa individu bayi dan infan M. fascicularis memiliki parameter standar terbaik lengan bawah, sedangkan individu juvenil dan pra-dewasa memiliki parameter standar terbaik lengan atas. Hasil uji-T terhadap rerata data morfometri dan berat badan M. fascicularis menunjukkan bahwa terdapat perbedaan morfologi yang nyata antara individu jantan dan betina M. fascicularis pada kelompok umur pra-dewasa.

.....Macaca fascicularis is a kind of primate that often used as animal model in research, therefore, physiological condition must be considered because the influence of the result of research. Standardization of weight and morphometry assist research on growth, but these standards require that many samples that the results are not biased. Captive owned by PT Indo Biomedical, Jonggol has a lot of M. fascicularis and did not yet had data standard morphometry and weight, therefore it can be done research determination standardization of weight and morphometry in there.

The purpose of this study was to get a M. fascicularis basic standard characteristics of morphometrics and body weight. The number of animals observed were 698 consisting of 175 babies, 248 infants, 209 juveniles, and 66 sub-adults. The parameters were included body weight, body length, tail length, upper arm length, forearm length, thigh length, and calf length.

The Principal Component Analysis (PCA) showed that the individu of M. fascicularis of the babies and the infants age-group had the best forearm length parameter measurement standard, while the juveniles and the sub-adults age-group of M. fascicularis had the best upper arm length as their best parameter measurement standard. The result of processing data used T-test of mean of morphometrics and body weight indicated there was real significance of morphological differences between male and female individuals of M. fascicularis sub-adult age groups.