

Perilaku reproduksi dan profil estrone conjugate (e1c) kukang Sumatra (nycticebus coucang) betina di penangkaran = Reproduction behavior and estrone conjugate (e1c) hormone metabolite profile in captive housed female sumatran slow loris (nycticebus coucang)

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Abstrak

Telah dilakukan penelitian pada kukang sumatra (Nycticebus coucang) di Penangkaran Pusat Studi Satwa Primata IPB. Penelitian bertujuan untuk mengetahui perilaku reproduksi N. coucang dan mengetahui kadar hormon metabolit Estrone Conjugate (E1C) N. coucang di penangkaran. Subjek penelitian terdiri dari dua individu N. coucang betina dewasa.

Penelitian meliputi pengamatan aktivitas malam hari (nokturnal) pada pukul 17.00-05.00 (GMT +7) dengan metode Focal Animal Sampling dengan interval 10 menit tanpa jeda selama 1300 menit dalam tiga bulan, serta pengukuran kadar hormon metabolit E1C feses dengan metode ELISA (Enzyme-linked Immunoasorbent Assay) menggunakan Estrone Enzyme Immunoassay kit. Konsentrasi hormon metabolit E1C didapatkan melalui konversi nilai OD terhadap kurva standar $y = -0,046\ln(x) + 0,3088$.

Hasil penelitian menunjukkan perilaku reproduksi pada N. coucang dengan persentase rerata 1%. Perilaku reproduksi yang teramati meliputi genital licking dan genital sniffing. Konsentrasi hormon metabolit E1C dengan konsentrasi tertinggi terdapat pada K5 tanggal 30 September 2015 ($1634,73 \pm 400,18$ pg/ml) dan terendah terdapat pada K2 tanggal 11 Oktober 2015 ($5,75 \pm 555,82$ pg/ml). Panjang siklus estrus berkisar antara 10-12 hari.

.....Research on female Nycticebus coucang had conducted in Primate Research Center, Bogor. The purpose of this research is to examine the reproductive behavior and measure estrone conjugate (E1C) level in captive housed female N. coucang. Subject consists of two sexually adult N. coucang.

Behavioral observation during the night (nocturnal) had been done at 17.00-05.00 (GMT +7) through Focal Animal Sampling with 10 minutes interval without pause for 1300 minutes in three months. E1C level had been done with the competitive-ELISA (Enzyme Linked Immunosorbent Assay) method. E1C level was obtained through the conversion of OD value with standard curve $y = -0,046 \ln(x) + 0,3088$.

Results showed that the average percentage of reproductive behavior on N.coucang is 1%. Reproductive behavior observed were genital licking and genital sniffing. The highest E1C level was on K5's September 30th 2015 ($1634,73 \pm 400,18$ pg/ml) and the lowest was on K2's October 11th 2015 ($5,75 \pm 555,82$ pg/ml). The length of estrus cycle was ranged in 10-12 days.