

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)

Deanvi Fahira Wisnuputri, author

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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 Immunoassorbent 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.