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SERUM LEVELS OF SOME BIOCHEMICAL CONSTITUENTS OF CAPTIVE SRI LANKAN ELEPHANTS (*Elephas maximus maximus*)

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ABSTRACT

The serum levels of ten biochemical constituents of Sri Lankan adult captive elephants (*Elephas maximus maximus*) were determined. The mean values ± standard deviations and ranges for these constituents were albumin 20.9 ± 4.9, 10.2 –29.8 g/l, total bilirubin 0.26 ± 0.05, 0.16 - 0.40 mg/dl, creatinine 2.03 ± 0.60, 1.00 – 3.26 mg/dl, urea 15.49 ± 3.89, 7.70 – 22.91 mg/dl, uric acid 0.25 ± 0.09, 0.09 – 0.49 mg/dl, alkaline phosphatase 95.0 ± 30.0, 51.5 – 158.2 U/l, γ glutamyl transferase 3.6 ± 1.8, 1.1 – 7.0 U/l, lactic dehydrogenase 300.7 ± 127.6, 110.1 – 583.4 U/l, glutamic oxaloacetic transaminase 11.7 ± 3.0, 5.7 – 16.8 U/l and glutamic pyruvate transminase 3.7 ± 2.1, 1.0 – 11.4 U/l. There was no statistically significant difference of these parameters between the two sexes. This is the first study to record the serum uric acid, lactic dehydrogenase and glutamic oxaloacetic transaminase levels of Sri Lankan elephants.

Keywords : *Elephas maximus maximus*, Sri Lankan elephant, blood constituents