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Comparison of serum and plasma for determination of blood biochemical values in Malaysian flying foxes (*Pteropus vampyrus*).

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Source

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Abstract

The effects of the anticoagulant sodium heparin and time of centrifugation on 20 biochemical analytes in the blood of Malaysian flying foxes (*Pteropus vampyrus*) were evaluated. Paired plasma and serum samples were centrifuged at 1 hr and 6 hr postcollection. Heparinization and time of centrifugation did not significantly affect albumin, cholesterol, triglycerides, amylase, blood urea nitrogen, creatinine, alanine aminotransferase, aspartate aminotransferase, alkaline phosphatase, calcium, sodium, and total carbon dioxide levels. Plasma was associated with higher globulin and lower potassium values. Glucose and chloride levels decreased significantly over time, whereas phosphorus levels increased. Serum creatine kinase activity at 6 hr postcollection was significantly higher than the other creatine kinase means. Sodium levels were not significantly affected by sodium heparin as used as an anticoagulant in this study.

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