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Level of serum fructosamine in Saudi diabetic patients.

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Abstract

Fructosamine, a compound used to measure serum glycosylated proteins was assayed in 105 Saudi diabetic subjects and 54 healthy non-diabetic Saudi subjects. Fructosamine concentrations in diabetics were significantly higher than in healthy controls (p less than 0.0005). Fructosamine concentrations correlated significantly with fasting blood glucose and HbA1 in diabetics ($r = 0.677$, p less than 0.0005, and $r = 0.598$, p less than 0.0005, respectively). The correlation between fructosamine and HbA1 was significant in the oral hypoglycemic-treated diabetics and poor in the insulin-treated diabetic group ($r = 0.568$, p less than 0.0005, and $r = 0.526$, $p = 0.01$). Fructosamine concentrations correlated poorly with the duration of diabetes ($r = 0.221$, p less than 0.05).