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Abstract

This study was conducted during the period January 2010 to June 2010, in Khartoum teaching hospital, Khartoum state on 50 healthy and diabetic patient (20-71 years). They were divided into tow groups.

The first group included 25 apparently healthy individuals with normal blood Glucose level as a control groups. Blood glucose level was measured collected in fluoride oxalate container and lithium heparin container.

The second group includes 25 diabetic patients age range 20-71 years. Blood glucose level was measured also collected in fluoride oxalate containers and lithium heparin containers.

This study it was found that there is significant decrease in concentration of blood glucose when measure immediately and after 6 hours when collected in lithium heparin container ($p<0.05$) in the diabetic patient .Also in the normal group there was a significant decrease in concentration of blood glucose when measured immediately and after 6 hours in lithium heparin container ($p<0.05$).

Blood glucose concentration has no significant decrease when measured immediately and after 6 hours in fluoride oxalate container($p>0.05$) in diabetic patients .Also in normal group there was no significant decrease in blood concentration when measured immediately and after 6 hours in fluoride oxalate container ($p>0.5$).