Sudan University of Science and Technology College Of Graduate Studies

Assessment of Plasma Levels of Calcium, Phosphate and Glycated Haemoglobin in Sudanese Patients with Type2 Diabetes Mellitus in Reference to Gender and Duration of Diabetes

قياس مستويات الكالسيوم والفوسفات والهيموغلوبين السكري في بلازما الدم عند المرضي السودانيين بمرض السكري من النوع الثاني وفق النوع ومدة المرض

A Dissertation Submitted in Partial Fulfillment for M.Sc. in Clinical Chemistry

By:

Arwa Awad Ahmed Emam

BSc in Medical Laboratory Science Clinical Chemistry

Sudan University of Science and Technology (2005)

Supervisor:

Dr. Bader Eldien Hassan Elabid

MBBS (Uof K), MD Clinical pathology

Associate professor of chemical pathology

University of Science and Technology

Chapter one

Chapter two

Chapter three

Chapter four

Chapter five

Appendices

Questionnaire

Appendix()

Plasma levels calcium, phosphate and glycated haemoglobin in Sudanese patient with type 2 diabetes mellitus

(A study in Khartoum state)

Serial No	
Name	
•	
Gender	Age (in years):
Duration of diabetes (in years):	
Clinical history of the patient:	
Bone disease	
Parathyroid disease	
Renal failure	
Liver disease	
Drugs	
Investigation results:	
Plasma Calciummg/dl	
Plasma phosphatemg/dl	
HbA _{1c} %	