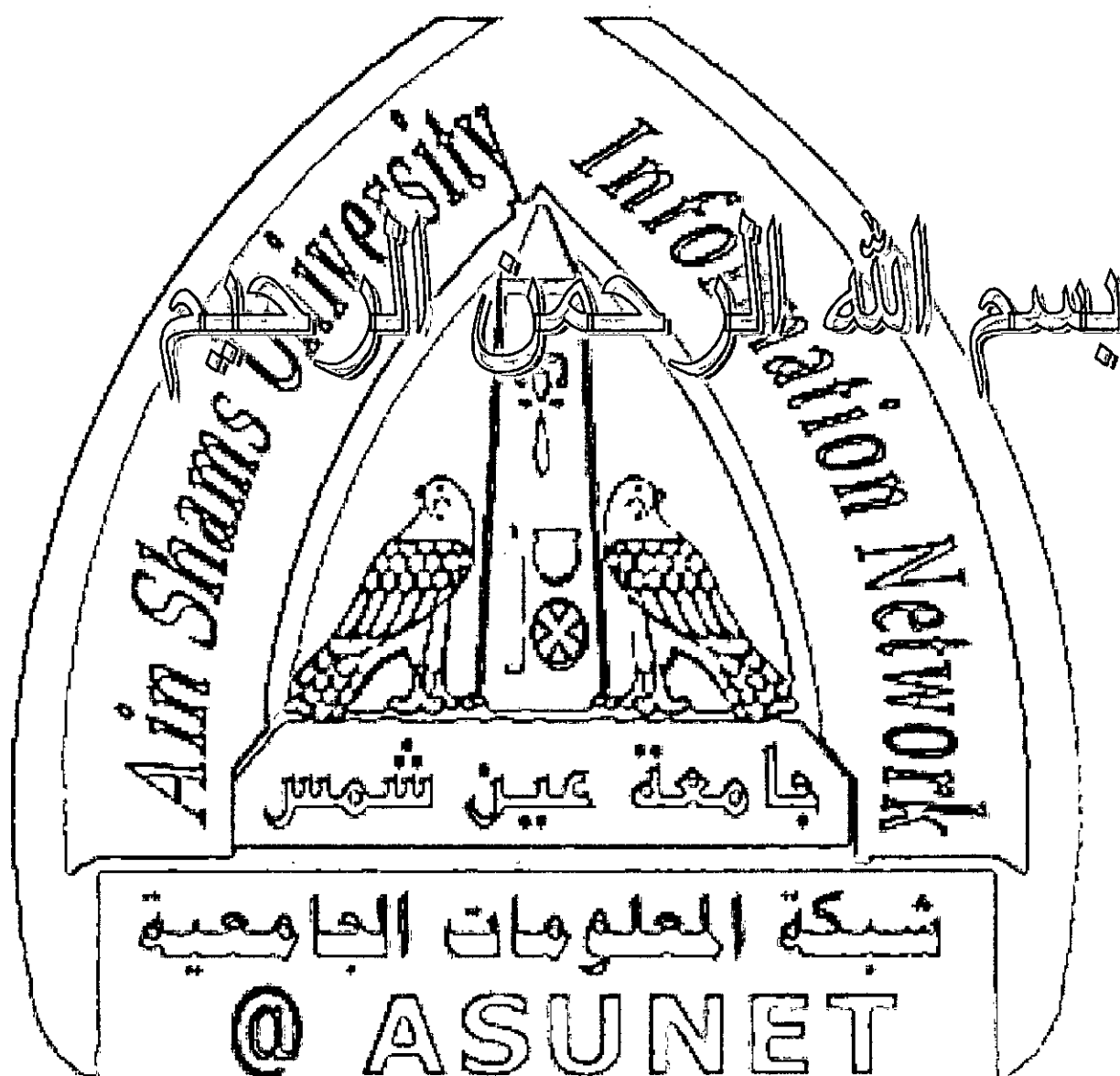




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Lipoprotein (a) behavior in Egyptian patients with hepatocellular carcinoma

Thesis

Submitted for M.Sc. degree of Biochemistry

By

Naglaa El-Sayed Abd El-Fatah

B.Sc. (special biochemistry)

Faculty of Science- Ain Shams University

Under supervision of

Dr. Bahia Yehia Riad
Professor of Organic
Chemistry
Faculty of Science
Cairo University

Dr. Samar Kamal Kassim
Professor of Medical
Biochemistry
Faculty of Medicine
Ain Shams University

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Approval Sheet for Submission

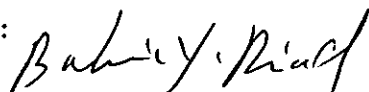
- Title of the M. Sc. Thesis:
- **Lipoprotein (a) behavior in Egyptian patients
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- Name of the candidate: **Naglaa El-Sayed Abd El-Fatah Mancy**

- The thesis has been approved for submission by the supervisors:

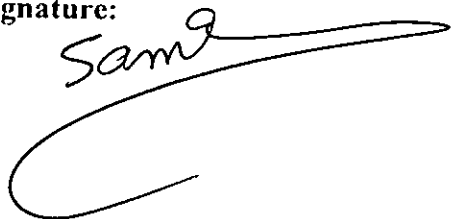
1- Prof. Dr. Bahia Yehia Riad
Professor of Organic Chemistry
Faculty of Science
Cairo University

Signature:

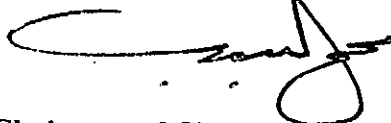


2- Prof. Dr. Samar Kamal Kassim
Professor of Medical Biochemistry
Faculty of Medicine
Ain Shams University

Signature:



Prof. Dr. Mohamed Ahmed Badawi



Chairman of Chemistry Department

Faculty of Science, Cairo University

Unit.

Abstract

Lipoprotein (a) behavior in Egyptian patients with hepatocellular carcinoma

Background: The liver plays a key role in the metabolism of plasma apolipoproteins, endogenous lipids and lipoproteins. Hepatocellular carcinoma is one of the most common fatal malignant tumors in Egypt profiles and in other African countries it has been demonstrated that plasma lipid profiles are changed in liver cancer.

Subjects and Methods: The study included 3 groups: malignant group of hepatocellular carcinoma patients (n = 41), benign group of patients with chronic HCV infection (n = 23), and a healthy control group (n = 23). All subjects were evaluated for serum Lp(a), total cholesterol (TC), LDL-Cholesterol (LDL-C), HDL-Cholesterol (HDL-C), triglycerides (TG), albumin, aspartate amino-transpeptidase (AST), alanine amino transpeptidase (ALT), alkaline phosphatase, total bilirubin and α -fetoprotein.

Results: Mean rank of serum of TC, LDL-C, HDL-C, TG and Lp (a) levels were significantly lower in the malignant group than in benign and control groups. A significant positive correlation was found between Lp (a) and all the lipid profile parameters in addition to serum albumin, while a negative correlation was demonstrated between Lp(a) and α -fetoprotein, AST and ALT

Conclusion: We conclude that the evaluation of serum Lp (a) may contribute, among other markers, to a more complete evaluation of the liver function in patients with HCC.

Key words: HCC, lipoprotein (a), α - fetoprotein.

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