بسم الله الرحمن الرحيم

شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الالكتروني والميكروفيلم

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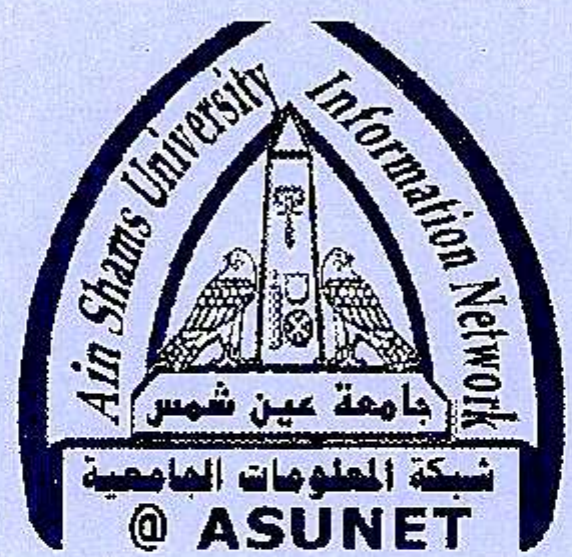

شبكة المعلومات الجامعية

التوثيق الالكتروني والميكروفيلم

بعض الوثائق الاصلية تالفة

بالرسالة صفحات لم ترد
بالاصل

STUDY ON THE VARIOUS URINARY PROTEIN COMPONENTS IN ACUTE AND CHRONIC LEUKEMIAS AND THE SENSITIVITY OF THE VARIOUS METHODS USED FOR THEIR DETECTION

Thesis for the fulfilment of the requirement for the doctorate degree in clinical pathology and oncologic laboratory medicine

BY

Dr. Hayam Mohamed Ibrahim

under the supervision of

Prof. Dr. Mostafa Aboul-Enein
Professor of clinical pathology
cancer institute - Cairo University

Prof. Dr Salwa Abdel Hamid El Demerdash
Professor of clinical pathology cancer institute
and head of chemical pathology unit
Cairo University

Prof. Dr Mohamed Ibrahim El Khodary
Professor of chemical and clinical pathology
Faculty of Medicine- Cairo University

Assistant Prof. Dr. Mohamed Hany Hussein
Assistant professor of the medical oncology department
Cancer institute - Cairo University

National Cancer Institute

Cairo University

1997

بسم الله الرحمن الرحيم

ACKNOWLEDGMENT

First of all great thanks are to God.

I am very grateful to professor ***Dr. Mostafa I. Aboul-Enein*** Prof. of Clinical Pathology, NCI, Cairo University for his continuous, extremely valuable scientific aid, as well as his moral support without limitation, led to this final form of research.

I am grateful to professor ***Dr. Salwa A.El-Demerdash***, Prof. of Clinical Pathology, NCI, Cairo University, for her great help, valuable scientific and moral support throughout this study.

I am grateful to professor ***Dr. Mohamed I El-Khodary***, Prof. of Clinical and Chemical Pathology, Faculty of Medicine, Cairo University for his great and extended scientific help, and continuous encouragement during this thesis.

I am also grateful to Ass. Professor ***Dr. Mohamed Hany Hussein***. Assistant Professor of Medical Oncology, NCI, Cairo University, for his great help during this study.

I am grateful to professor ***Dr. Ahmed Aboul-Enein***, Professor of Chemistry, Faculty of Agriculture, Cairo University, for his unlimited help, precious scientific remarks during this study.

I thank ***Dr. Omar El-Khattab***, Assistant Professor of Medical Biostatistic, NCI, Cairo University for this great assistance in the statistical part of this thesis.

I thank **Dr. Khaled. M.I. Aboul-Enein,** Lecturer of Clinical Pathology, NCI, Cairo University for his valuable assistance during this work.

I also thank **Dr. Mahmoud . H. El-Guibaly,** Assistant Professor of Clinical Pathology, NCI, Cairo University for his great help during the practical part of this work .

ABSTRACT

This study included 47 patients before treatment (27 acute leukemias and 20 chronic leukemias) and 15 normal controls of matched age and sex. The results showed high significant increase in the mean value of urinary total protein (by turbidimetric, u-v absorption and biuret methods), urinary albumin and urinary globulins as compared to normal controls. Polyacrylamide gel eletrophoresis of urinary concentrated proteins showed significant increase in the mean value of albumin, ∝1- globulin, ∝2- globulin, beta globulin and gamma globulin bands. Non significant increase in the mean value of urinary ∝1- microglobulin (by ELISA) in ALL,AML and CML as compared to normal controls. While in CLL, there was significant increase. Urinary β2- microglobulin by ELISA showed non significant increase in ALL, CML and CLL and significant increase in AML as compared to normal controls. These changes must be taken in consideration during chemotherapeutic management of leukemic patients and must exclude dissimination infiltrations or toxic nephropathy from specific toxic drugs to renal tissue.

Key Words: acute leukemia, chronic leukemia, proteinuria, microproteinuria, albuminuria, globulins, ∝1- microglobulin, β2 microglobulin, Bence Jones protein, protein electrophoresis.

LIST OF ABBREVIATION

ADA	Adenosine deaminase
AER	Albumin excretion rate
ALL	Acute lymphoblastic leukemia
AMeKL	Acute megakaryoblastic leukemia
AML	Acute myeloid leukemia
AMMOL	Acute myelomonocytic leukemia
AMOL	Acute Monoblastic leukemia
5-N	5-Nucleotidase
ANAE	Alpha naphthyl acetate esterase
ANBE	Alpha naphthyl butyrate esterase
ANLL	Acute non lymphatic leukemia
AP	Acid phosphatase
APL	Hypergranular promyelocytic leukemia
BAL	Biphenotypic acute leukemias
BCG	Bromocresol green
BJP	Bence Jones protein
BMG	β$_2$-microglobulin
CALL	CD 10 positive ALL
CD	Cluster of differentiation
CGL	Chronic granulocytic leukemia
CLL	Chronic lymphocytic leukemia
CML	Chronic myeloid leukemia
CMML	Chronic myelomonocytic leukemia
CSF	Cerebrospinal fluid
del	Deletion
EGIL	European group for immunological classification of acute leukemia

ELISA	Enzyme linked immunosorbent assay
ER	Endoplasmic reticulum
FAB	Frensh American British classification of acute leukemia
GBM	Glomerular basement membrane
GCW	Glomerular capillary wall
G6PD	Glucose 6-phosphate dehydrogenase
HCL	Hairy cell leukemia
HLA	Human leukocyte antigen
IDDM	Insulin dependent diabetes mellitus
IFN	Interferon
Ig	Immunoglobulin
IL1	Interleukin-1
Inv	Inversion
LAP	Leukocyte alkaline phosphatase
M-bcr	Major break point cluster region
McAb	Monoclonal antibody
M/E	Myeloid erythroid ratio
MW	Molecular weight
NAP	Neutrophil alkaline phosphatase
NASDA	Naphthol ASD acetate esterase
NASDF	Naphthol ASD fluoride inhibited
N/C	Nucleocytoplasmic ratio
NEC	Non erythroid cells
NHL	Non Hodgkin lymphoma
NIDDM	Non insulin dependent diabetes mellitus
PAS	Periodic acid schiff
P/C	Protein/creatinine ratio
Ph`	Philadelphia chromosome