

شبكة المعلومات الجامعية







شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الالكتروني والميكروفيلم

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B 781E

Biochemical Evaluation Of The Role Of Ergocalciferol (Vitamin D₂), Cholecalciferol (Vitamin D₃), Osteocalcin And Parathyroid Hormone In Pathogenesis Of Liver Cirrhosis In Egyptian Patients.

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In Partial Fulfilment For The Degree Of MASTER OF SCIENCE IN BIOCHEMISTRY

SUPERVISED BY

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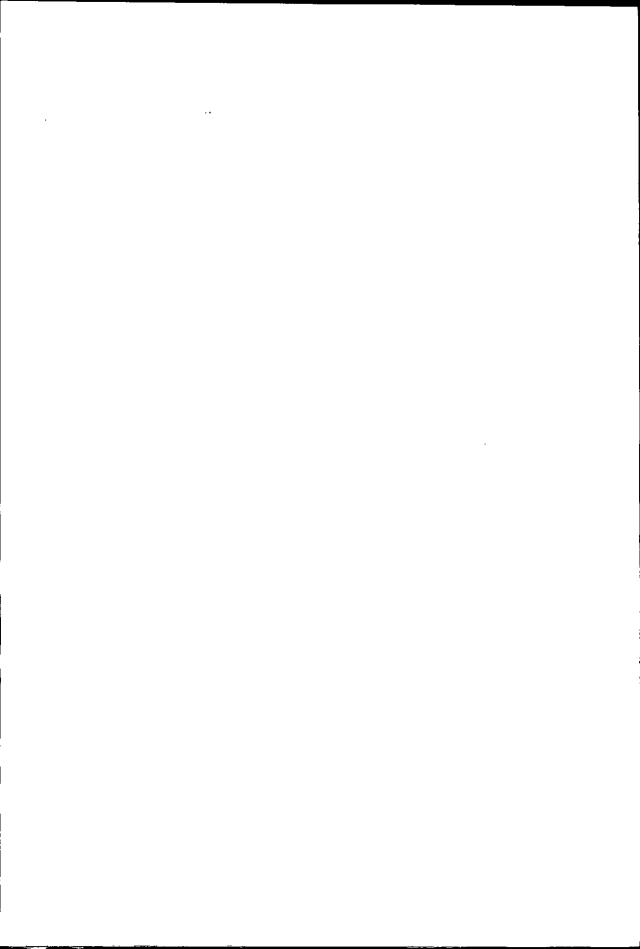
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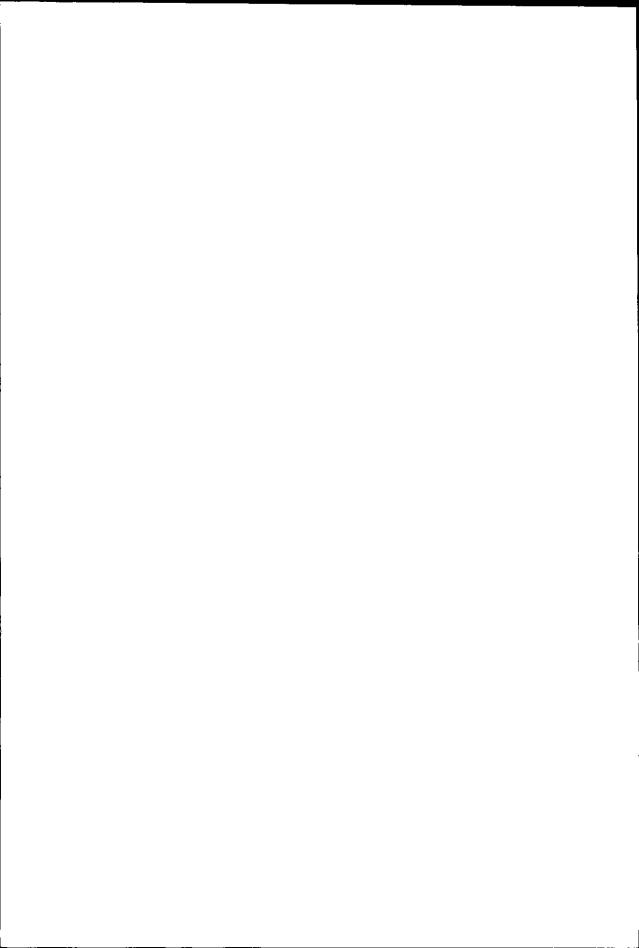


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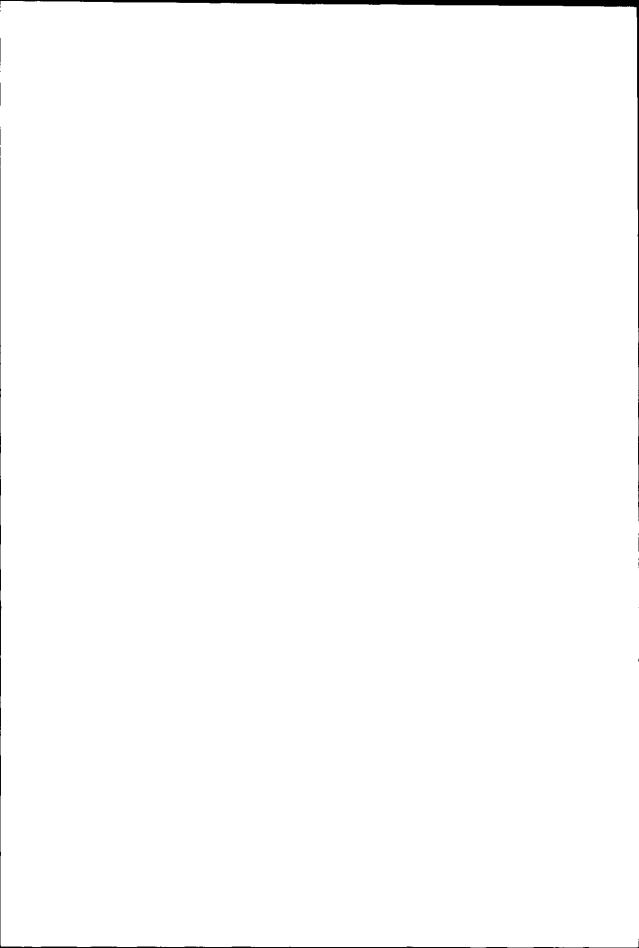


THIS THESIS IS DEDICATED TO MY BELOVED PARENTS, SISTERS, HUSBAND, MY SON AND MY DAUGHTER WHOM I HONOR AND CHERISH. THEIR OVERWHELMING JOY UNDOUBTEDLY GREATLY EXCEEDS MY OWN IN ATTAINING MY M.SC DEGREE

TO THEM, I OWE EVERY THING

Ghada

۹۰۰، وزراسه البرا ۹۰۰، وزراسه البرا ۹۰۰، مرد حار رجب ها مد ۹۰۰، مدهم عبرانت ع



LIST OF ABBREVIATION

Abs : Absorbance

ALT : Alanine transaminase
anti-HBc : Hepatitis B core antigen
AST : Aspartate transaminase
ATP : Adenosine triphosphate
BCG : Bromo Cresol green
BGP : Bone Gla Protein

BHT : Butylated hydroxy toluene BSA : Buffer Sodium Azide

Ca⁺⁺ : Calcium ion.

CAMP : Cyclic adenosine monophosphate

CPM : Count per minute

CT : Calcitonin

DAGGG : Donkey anti-goat-gamma globulin

DBP : Vitamin D binding protein

A : Delta

ECF : Extracellular fluid

ELISA : Enzyme linked immunosorbent Assay

GAR : Goat-anti-rabbit serum
GFR : Glomerular filtration rate

GLA : Osteocalcin

Gtpase : Guanosine Tri Phosphate HBeA : e antigen of Hepatitis B

HBsAB : antibody to Hepatitis B surface antigen HBsAg : Hepatitis B surface antigen (anti-HBs)

HBV : Hepatitis B virus HCV : Hepatitis C virus HEV : Hepatitis E virus

HIV : Immune deficiency virus

HPLC : High performance liquid chromatography

H₂O₂ : Hydrogen Peroxide H₃PO4 : Ortho Phosphoric acid IgM : Immunoglobulin M IgG : Immunoglobulin G

IPTH : Immunoreactive parathyroid hormone

KOH : Potassium hydroxide LDH : Lactate dehydrogenase

M : Molarity

MB : Maximum Binding
MDH : Malate dehydrogenase

min : Minutes N : Normality

NAD : Nicotinamide adenine dinucleotide

NADP : Nicotinamide adenine dinucleotide phosphate NADPH : Nicotinamide adenine dinucleotide phosphate

hydrogen

NCX : Negative Control Values
NSB : Non specific binding
PEG - : Polyethylene glycol
Ph ph : Phenol phethaline
P-N : Positive-Negative

P-NPP : P-Nitrophenyl Phosphate
PTH : Parathyroid hormone
PTT : Pre-Precipitated

rDNA : Ribosomal deoxyribonucleic acid

RIA : Radio immuno assay

1,25(0H)₂D : Vitamin D (1,25 dihydroxy-Cholecalciferol) 25-0H-D : Vitamin D (25 hydroxy- Cholecalciferol)

UV : Ultra violet

Biochemical Evaluation Of The Role Of Ergocalciferol (Vitamin D₂), Cholecalciferol (Vitamin D₃), Osteocalcin And Parathyroid Hormone In Pathogenesis Of Liver Cirrhosis In Egyptian Patients.

Ghada A. Abdallah

Abstract

In the present study we measured serum levels of osteocalcin, vitamin D2, vitamin D3, parathyroid hormone, calcium, phosphorus, albumin and total protein as well as liver function tests, in 60 cirrhotic men [subgroup (1): 20 patient of liver cirrhosis with hepatitis; subgroup (2): 20 patient of liver cirrhosis with bilharziasis; subgroup (3): 20 patient of liver cirrhosis with both hepatitis and bilharziasis] and 20 healthy controls. In all patient subgroups the mean serum level of D₂, vitamin D₃ osteocalcin, calcium, Phosphorus, vitamin albumin and total protein were significantly decreased; while the mean serum level of parathyroid hormone concentration was significantly increased. In conclusion, patients with liver cirrhosis usually associated with abnormality in calcium metabolism. Thus this disturbance seems to reflect diminished osteoblastic activity, which may also contribute to osteopenia.

Keywords: Liver Cirrhosis - Ergocalciferol - Cholecalciferol - Osteocalcin - Parathyroid Hormone - Calcium metabolism.

