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**A COMPARATIVE STUDY FOR EVALUATING ERRORS IN
BODY COMPOSITION ESTIMATES USING BIOELECTRIC
IMPEDANCE ANALYSIS**

THESIS

Submitted to the Medical Research Institute
University of Alexandria

In partial fulfillment of the
Requirements for the degree
of
Master Degree
in
Medical Biophysics

By

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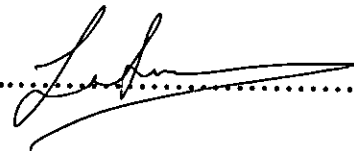
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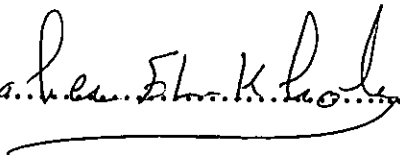
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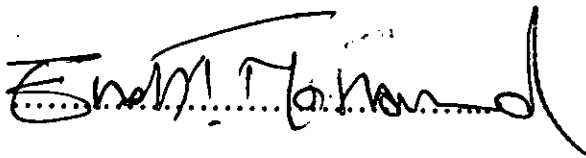
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LIST OF ABBREVIATIONS

ADP	Air Displacement Plethysmography
AIDS	Acquired Immune Deficiency Syndrome
ARF	Acute Renal Failure
BCM	Body Cell Mass
BF	Body Fat
BF%	Body Fat Percentage
BIA	Bioelectric Impedance Analyzer
BMC	Bone Mineral Content
BMD	Bone Mineral Density
BMI	Body Mass Index
CKD	Chronic Kidney Disease
COPD	Chronic Obstructive Pulmonary Disease
CRF	Chronic Renal Failure
CS	Compton Scattering
CT	Computed Tomography
DPA	Dual Photon Absorptiometry
DXA	Dual Energy X-ray Absorptiometry
ECW	Extra-Cellular Water
ESRF	End Stage Renal Failure
FFM	Fat Free Mass
FM	Fat Mass
FM%	Fat Mass Percentage
HBV	Hepatitis B Virus
HCC	Hepatocellular Carcinoma
HCV	Hepatitis C Virus
HD	Hemodialysis
HD	Hemodialysis
HIFU	High Intensity Focused Ultrasound
IAF	Intra-Abdominal Fat

ICW	Intra-Cellular Water
LBM	Lean Body Mass
LTM	Lean Tissue Mass
MRI	Magnetic Resonance Imaging
NAFLD	Non-Alcoholic Fatty Liver Disease
NASH	Non-Alcoholic Steato-Hepatitis
PAD	Peripheral Artery Disease
PBF	Percentage Body Fat
PE	Photoelectric Effect
PTH	Para-Thyroid Hormone
RF	Renal Failure
SFT	Skin-Fold Thickness
ST	Soft Tissue
TACE	Trans-Arterial Chemo-Embolization
TBK	Total Body Potassium
TBW	Total Body Water
WC	Waist Circumference
WHR	Waist-to-Hip Ratio