

**BIOCHEMICAL ASSESSMENT OF
THE NUTRITIONAL STATUS IN PRIMARY
SCHOOL CHILDREN IN KAFR EL-SHIEKH**

THESIS

**Submitted for Partial Fulfillment of
Master Degree
in
Paediatrics**

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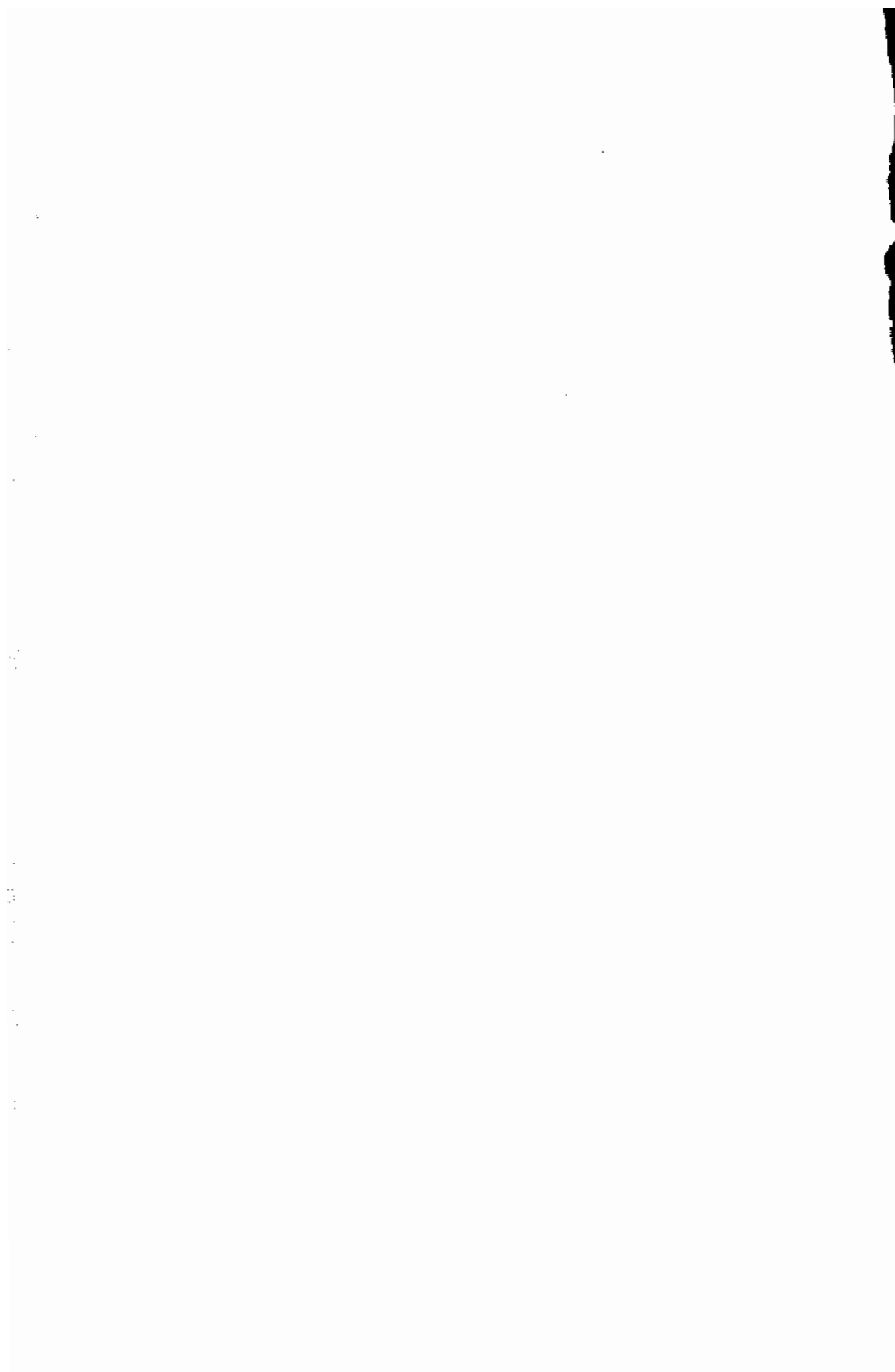


LIST OF ABBREVIATIONS

Hb	haemoglobin
MAC	Mid-arm circumference
SF	Serum ferritin
MCV	mean corpuscular volume
MCH	mean corpuscular haemoglobin
MCHC	mean corpuscular haemoglobin concentration
<u>PCV</u>	packed cell volume
RBC	red blood cell
HCT	haematocrit value
<u>FL</u>	femo ^{lit} -liter
PG	picogram
$\mu\text{g/L}$	microgram per liter
ESR	erythrocyte sedimentation rate
SD	standard deviation
A/G	albumin globulin ratio



<i>Introduction and Aim of the Work</i>	



INTRODUCTION AND AIM OF THE WORK

INTRODUCTION:

Nutritional deficiency in school children is one of the major health problems in developing countries especially in rural areas.

Assessment of nutritional status is based on clinical examination, anthropometric measures, biochemical parameters and other tests, but the biochemical parameters are preferred for detection of early stages of nutritional deficiency before the clinical signs develop.

In this study we use the biochemical parameters for assessment of the nutritional status of primary school children in rural area in Kafr El-Shiekh.

The aim of this work is to focus the light on the nutritional status of school children in rural area to find out the percentage of malnourished to healthy children.

We preferred to do the study on primary school children because this age is very sensitive to changes in nutritional status.

changed The biochemical parameters included are haemoglobin, mean corpuscular haemoglobine, mean corpuscular volume, serum ferritin, serum proteins, serum albumin and serum cholesterol.

The results will be compared with reference biochemical parameters.

AIM OF THE WORK:

The aim of this work is to focus the light on the nutritional status of school children in rural area to find out the percentage of malnourished to healthy children according to the laboratory assessment of nutritional status.