

C O N T E N T S

	Page
INTRODUCTION	1
AIM OF THE WORK	3
REVIEW OF LITERATURE.....	4
- Normal Hemoglobin Structure and Metabolism...	4
- Abnormal Hemoglobins.....	9
- Thalassemia Syndromes	11
- Sickle Cell Syndromes	13
* Sickle Cell Disease.....	14
* Other Sickle Cell Disorders.....	63
- Role of Folic Acid in Pregnancy.....	67
SUBJECTS AND METHODS	68
RESULTS	78
DISCUSSION	97
SUMMARY	107
CONCLUSIONS	108
REFERENCES	109
ARABIC SUMMARY	127