

CONTENTS

Introduction and aim of the study	1
Review of literature	2
- Chemistry	2
- Occurrence and food sources	3
- Human requirements	3
- Metabolism of vitamin A	4
- Vitamin A deficiency	10
- Functions of vitamin A	12
- Vitamin a during pregnancy	18
- Placental transfer of retinol	28
- Retinol-binding protein	30
- Vitamin A and HIV	31
- Vitamin A in human fetuses	34
- Vitamin A in premature newborn	36
- Vitamin A in the perinatal lung	41
- Vitamin A and BPD	44
Patients and method	47
Results	52
Analysis of results	106
Discussion	111
Summary and conclusion	130
Recommendations	132
References	134
Arabic summary	