

CONTENTS

	<i>Page</i>
I. INTRODUCTION AND AIM OF THE WORK	1
II. REVIEW OF LITERATURE	3
<i>The immunologic system</i>	3
<i>Cytokines and the liver</i>	11
<i>Endotoxins</i>	22
<i>Kupffer cells and their role</i>	27
<i>Interleukin-1</i>	31
<i>Interleukin-2</i>	33
<i>Interleukin-3</i>	42
<i>Interleukin-4</i>	43
<i>Interleukin-5</i>	49
<i>Interleukin-6</i>	51
<i>Interleukin-7</i>	53
<i>Interleukin-8</i>	54
<i>Interleukin-9</i>	55
<i>Interleukin-10</i>	56
<i>Tumor necrosis factor</i>	57
<i>Chronic schistosomiasis</i>	63
<i>Chronic virus B hepatitis infection</i>	68
III. PATIENTS AND METHODS	74
IV. RESULTS	91
V. DISCUSSION	120
VI. SUMMARY AND CONCLUSION	128
VII. REFERENCES	131
VIII. ARABIC SUMMARY	