

CONTENTS

	Page
INTRODUCTION AND AIM OF THE WORK	1
REVIEW OF LITERATURE :	
<i>Leukocytospermia :</i>	3
• Detection of white blood cells in semen	3
• White blood cell subpopulation in semen.....	4
• The prevalence of leukocytospermia	5
• The origin of white blood cells in semen.....	6
• The significance of white blood cells in semen.....	11
• Relationship between leukocytospermia and morphology of sperm.....	13
• The role of microorganisms in leukocytospermia	14
• Other reasons for leukocytospermia.....	15
• Treatment of patients with leukocytospermia	16
• Mediators of inflammatory damage.....	18
• Association between leukocyte and antisperm antibodies.....	23
• Seminal leukocytes scavenger function in teratozoospermia	23
• Effect of leukocytes on semen parameter and fertility.....	24
 <i>Evaluation of Sperm morphology by light microscopy :</i>	29
• Introduction.....	29
• Strict tygerberg criteria.....	36
• Teratozoospermia index (TZI)	40
• Relationship between strict criteria and normal sperm function:	43
- Hemizona assay.....	43
- Acrosome index.....	43
- Acrosin activity.....	44
• Identification of morphological abnormal spermatozoa.....	45
• Sperm morphology evaluation procedures	47
 PATIENTS AND METHODS	54
RESULTS	60
DISCUSSION	69
SUMMARY	76
REFERENCES	78
ARABIC SUMMARY	