



LIST OF CONTENTS

• LIST OF FIGURES	ii
• LIST OF TABLES	iii
• LIST OF ABBREVIATIONS	iv
• INTRODUCTION	1
• PHYSIOLOGY OF OXYGEN TRANSPORT	3
• HEMOGLOBIN BASED OXYGEN CARRIERS	22
• FUTURE GENERATIONS OF RED BLOOD CELL SUBSTITUTES	34
• CLINICAL DISORDERS OF OXYGEN TRANSPORT	43
• DEVELOPMENT & CLINICAL POTENTIAL OF HEMOGLOBIN-BASED OXYGEN CARRIERS	53
• PERFLUOROCARBON EMULSIONS	66
• BIOMEDICAL USES OF ARTIFICIAL OXYGEN CARRIERS	73
• SUMMARY	80
• REFERENCES	83
• ARABIC SUMMARY	