CONTENTS

Page

Chapter I: Introduction	1
Chapter II: Aim of the work	3
Chapter III: Review of literature	4
• Stem cells:	
Definition	8
Stem cells and growth factors	11
Stem cell properties	16
Stem cell markers	28
Indications of stem cells	29
Sources of stem cells	32
Chapter IV: Stem cells and liver disorders	
 Embryology and anatomy of the liver 	73
 Stem cell therapy for treatment of liver 	85
disorders:	
-Congenital anomalies	86
-Acute liver failure	88
-End stage liver disease	92
-Metabolic liver disorders	96
Route of administration of stem cells	126
Complications of stem cell transplantation	130
Chapter V: Summary	138
Chapter VI: Recommendation	141
Chapter VII: References	142
Arabic summary	