CONTENTS

	Page
- Abstract	
- Introduction and aim of the work.	1
- Review of literature :	
 Vascular tree of the upper limb. 	4
Indication of dialysis.	14
 Haemodialysis and vascular access. 	15
 Vascular grafts (bridge fistula). 	20
Bridge fistula sites.	24
 Cuffed double lumen catheters. 	27
• Pediatric vascular access.	29
 Haemodynamics of vascular access. 	31
• Complications of vascular access Doppler	33
ultrasound principles and instruments.	i
 The Doppler instruments. 	46
 Continuous wave Doppler system. 	46
 Pulsed wave Doppler system. 	48
 Duplex scanning system. 	50
 Advantages and limitations of Duplex sonography. 	51
 Color Doppler sonography (CDS). 	52
 Color flow artifacts. 	55
 Doppler examination of arteriovenous fistula. 	63
- Patients and methods.	73
- Results.	88
- Discussion.	94
- Summary.	100
- References.	102
- Arabic Summary	