

Table of contents

ACKNOWLEDGEMENTS	7
PREFACE	8
1 INTRODUCTION	9
1.1 The dialysis centre	9
1.2 Renal failure	12
1.3 What is dialysis	12
1.4 Historical overview of the treatment	15
2 STARTING CONSIDERATIONS	17
2.1 Space program	17
2.2 Dialysis clinic size and building cost estimation	18
2.3 Room list	19
2.4 Services delivered	21
2.5 Choice of the site or premises	24
3 GENERAL DESIGN CONSIDERATIONS	27
3.1 Safety and efficiency	27
3.2 Patient and staff well-being	30
3.3 Green dialysis clinic	32
3.4 Economic aspects	36
4 SPECIFIC DESIGN CONSIDERATIONS	39
4.1 Site planning / parking / accesses	39
4.2 Circulation within the building	41
4.3 Patients evacuation and emergency routes	44
4.4 Building accessibility	45
4.5 Patient flow	46
4.6 Staff flow	49
4.7 Goods flow	50
4.8 Medication storage and preparation	51

4.9	Patients catering	51
4.10	Distribution of dialysis concentrates	52
4.11	Movement of dialysis machines	53
4.12	Waste and soiled linen flow.	54
5	DESCRIPTION OF ROOMS.	55
5.1	Dialysis room	55
5.2	Medical rooms	84
5.3	Patient areas	89
5.4	Staff areas.	92
5.5	Offices	93
5.6	Support services.	95
5.7	Water treatment	103
5.8	Public area.	109
5.9	Circulation	110
5.10	Building services	112
5.11	Miscellaneous.	113
6	CONSTRUCTION AND TECHNICAL CONSIDERATIONS	115
6.1	Building structure.	116
6.2	Power supply	117
6.3	Water supply.	117
6.4	Sewage system	118
6.5	Distribution of dialysis water and concentrates	118
6.6	Heating, cooling and ventilation	119
6.7	Lighting.	119
	LAYOUT EXAMPLE	121
	GLOSSARY AND DEFINITION OF TERMS	125
	BIBLIOGRAPHY	141
	PICTURE CREDITS.	142
	INDEX.	143