

CONTENTS

	Page
Introduction and Aim of the Work	1
Review of Literature	3
Chapter I:	3
Donor	4
Indications of Penetrating Keratoplasty	13
Technique	21
Chapter II: Graft Rejection	27
Chapter III: Glaucoma	49
Chapter IV: Astigmatism	61
Chapter V: Epithelial Defects	73
Chapter VI: Infections	77
Chapter VII: Rare complications	85
Patients and Methods	96
Results	113
Discussion	142
Summary	155
Conclusion and Recommendations	161
References	163
Arabic Summary	

LIST OF TABLES

	Page
Table (1): Age grouping and sex distribution of patients	114
Table (2): Preoperative diagnosis of patients	115
Table (3): Visual improvement in relation to different variables	118
Table (4): The effect of different variables upon visual improvement	120
Table (5): Visual improvement against suturing technique	121
Table (6): Complications against patient sex	123
Table (7): The effect of different variables upon rejection	124
Table (8): The effect of different variables upon patients who required regrafting	125
Table (9): Complications against type of operation	126
Table (10): The effect of different variables upon glaucoma	129
Table (11): The effect of different variables upon astigmatism	129
Table (12): Relation between suture technique and complications	131
Table (13): The effect of different complications on visual improvement	134

LIST OF FIGURES

	Page
Fig. (1): A whole globe donor	100
Fig. (2): A corneoscleral button from an eye-bank	100
Fig. (3): The bag used as a moist chamber for preservation and transport	104
Fig. (4): Leaving the trephine blade to rest perpendicularly on the recipient cornea	104
Fig. (5): Removing the recipient cornea in a leucoma adherent with anterior polar cataract behind	107
Fig. (6): The same eye after complete removal of the diseased cornea	107
Fig. (7): Suturing the iris using 10-0 monofilament sutures	108
Fig. (8): The same eye after cataract extraction and iris suturing	108
Fig. (9): Age grouping and sex distribution of patients	114
Fig. (10): Preoperative diagnosis of patients	115
Fig. (11): Visual improvement in relation to different variables	119
Fig. (12): Visual improvement against suturing technique	121
Fig. (13): Complications against patient sex	123
Fig. (14): The effect of patient age on rejection, glaucoma, astigmatism, regranting and visual improvement	124
Fig. (15): The effect of donor age on rejection, glaucoma, astigmatism, regranting and visual improvement	125
Fig. (16): Complications against type of operation	126
Fig. (17): The effect of trephine size on rejection, glaucoma, astigmatism, regranting and visual improvement	127
Fig. (18): The effect of recipient bed on rejection, glaucoma, astigmatism, regranting and visual improvement	127
