

**RECENT PROCEDURES OF
FEMTOSECOND LASER IN
OPHTHALMOLOGY
ESSAY**

*Submitted for Partial Fulfillment of Master Degree in
Ophthalmology*

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LIST OF ABBREVIATIONS

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AC	Anterior chamber
AK	Astigmatic Keratotomy
ASOCT	Anterior segment optical coherence topography
ALK	Anterior lamellar keratoplasty
BCVA	Best corrected visual acuity
BSCVA	Best Spectacle Corrected Vision Acuity
BSS	Balanced saline solution
CBS	Capsular block syndrome
CDE	Cumulative dispersed energy
CE	European Credit
CCC	Continuous curvilinear capsulorhexis
CCI	Clear corneal incisions
CME	Cystoid macular edema
CPU	Central processing unit
CW	Continuous wave laser
CXL	Collagen Cross linking
D	Diopter
DLK	Diffuse Lamellar keratitis
DALK	Deep Anterior lamellar Keratoplasty

LIST OF ABBREVIATIONS

DSEK	Descment's Stripping Endothelial Keratoplasty
DSAEK	Descment's Stripping Automated Endothelial Keratoplasty
ELP	Effective Lens power
ECL	Endothelial Cell Loss
EK	Endothelial Keratoplasty
Er:YAG	Erbium- doped yttrium aluminum garnet
FAB	FS-assisted Diagnostic Corneal Biopsy
FDA	Food and drug administration
FLAK	FSL-assisted Keratoplasty
FLAT	FS-Assisted Anterior Lamellar Corneal Tattooing
FLEK	FSL-assisted Endothelial Keratoplasty
FLEX	FS Lenticule Extraction
FD OCT	Fourier-domain optical coherence tomography
FS	Femtosecond
FSAK	FSL-assisted Astigmatic Keratotomy
FSL	Femtosecond laser
FLK	FSL Keratomileusis
ICRS	Intracorneal Ring Segment
IOP	Intraocular pressure
IOL	Intraocular lens

LIST OF ABBREVIATIONS

KHz	Kilohertz
LAR	Laser Arcute Resection
LASIK	Laser assisted in situ keratomileusis
LEC	Lens epithelial cells
LRI	Limbal relaxing incision
LTK	Laser thermal keratoplasty
LKP	Lamellar Keratoplasty
MLSM	Multiphoton laser scanning microscopy
MK	Microkeratome
mm	Millimeter
mN	Millinewton
Nd:YAG	Neodymium-doped yttrium aluminum garnet
Nd:YLF	Neodymium-doped yttrium lithium fluoride
Nm	Nanometer
NPDS	Non penetrating deep sclerectomy
NPGS	Non penetrating glaucoma surgery
Ns	Nanosecond
OBL	Opaque Bubble Layer
OCT	Optical coherence tomography
ODM	Ophthalmodynamometer

LIST OF ABBREVIATIONS

OVD	Ophthalmic viscosurgical device
PBK	Pseudophakic bullous keratopathy
PCO	Posterior capsular opacification
PCCC	Posterior Continuous curvilinear capsulorhexis
Phaco	Phacoemulsification
PKP	Penetrating keratoplasty
PRK	Photorefractive keratectomy
PTK	Phototherapeutic keratectomy
Ps	Picosecond
PLDs	Posterior Lamellar Discs
PLK	Posterior Lamellar Keratoplasty
RELEX	Refractive Lenticule Extraction
RK	Radial Keratotomy
IR	Infrared
SD	Standard Deviation
SEM	Scanning Electron Micrograph
SMILE	Small-incision Lenticule Extraction
TEM	Transmission electron microscope
TM	Trabecular meshwork
TLSS	Transient Light-Sensitivity Syndrome

LIST OF ABBREVIATIONS

UCVA	Uncorrected visual acuity
μJ	Micro joules
μm	Micrometer
UV	Ultra-violet
US	Ultra sound
UCVA	Uncorrected Visual Acuity
UVA	Ultraviolet A
YAG	Yettrium – Aluminum Garnet
3D-CSI	3D - Confocal Structured Illumination

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