

FEMTOSECOND LASER: THE FUTURE OF CORNEAL SURGERIES

Essay

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of master degree in ophthalmology**

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LIST OF ABBREVIATIONS

μ	Micron
μJ	Microjoul
μm	Micrometer
AC	Anterior chamber
ACI	AcuFocus Incorporation
AK	Arcuate keratotomy
AL	Applanation lens
ALK	Anterior lamellar keratoplasty
AMO	Advanced Medical Optics
BCNVA	Best corrected near visual acuity
BCVA	Best corrected visual acuity
BSCVA	Best spectacle corrected visual acuity
CB	Carriazzo–Barraquer
CCI	Clear corneal incision
CCT	central corneal thickness
CDVA	Corrected distance visual acuity
CL	contact lens
CO ₂	Carbon dioxide
cpd	Cycles per degree
CQ	clinical quality
CS	Contrast sensitivity
CXL	Collagen Cross-linking
D	Dioptre
DALK	Deep anterior lamellar keratoplasty
DLEK	deep lamellar endothelial keratoplasty
DLK	diffuse lamellar keratitis
DM	Descemet's membrane

DSAEK	Descemet stripping automated endothelial keratoplasty
DSEK	Descemet stripping endothelial keratoplasty
EBAA	Eye Bank Association of America
EK	Endothelial keratoplasty
FAB	Femtosecond-assisted diagnostic corneal biopsy
FACT	Functional Acuity Contrast Tester
FALK	FSL-assisted anterior lamellar keratoplasty
FDA	FSL-assisted deep anterior lamellar keratoplasty
FDALK	Food and Drug Administration
FLEK	FSL-assisted endothelial keratoplasty
FLEX	Femtosecond lenticule extraction
FS	femtosecond
FSL	femtosecond laser
He-Ne	Helium -Neon
ICRS	Intrastromal corneal ring segments
IL	Intralase
IOLs	intraocular lenses
IOP	intraocular pressure
IRIS	Intra-tissue Refractive Index Shaping
J	joul
KHz	kilo hertz
KP	keratoplasty
KTP	Keratopigmentation
K-Pro	Keratoprosthesis
LAR	Laser Arcuate Resection
LASIK	Laser in situ keratomileusis
LIOB	Laser-induced optical breakdown
LK	lamellar keratoplasty
LM	Light microscopy
LRI	Limbal-relaxing incisions
MHz	Mega hertz
mJ	milli joule
MK	microkeratome

mm	Millimeter
n	nano
Nd	Neodymium-doped
Nd: YAG	Neodymium-doped yttrium aluminium garnet
Nd: YLF	Neodymium-doped yttrium lithium fluoride
nJ	Nanojoule
nm	nanometer
ns	Nanosecond
OBL	Opaque bubble layer
OCT	Optical coherence tomography
OVD	Ophthalmic viscosurgical device
PCT	Peripheral corneal thickness
PKP	Penetrating keratoplasty
PLK	Posterior lamellar keratoplasty
PMCD	Pellucid marginal corneal degeneration
PMMA	polymethyl methacrylate
PRK	Photorefractive keratectomy
Ps	Picoseconds
PVDF	Poly-vinylidene fluoride
RI	Refractive index
S	Second
SBK	Sub-Bowman's Keratomileusis
SD	Standard deviation
SEM	Scanning electron microscope
SMILE	Small-Incision Lenticule Extraction
TLSS	Transient light sensitivity syndrome
UBM	Ultrasound biomicroscopy
UDVA	Uncorrected distance visual acuity
UIVA	Uncorrected intermediate visual acuity
UNVA	Uncorrected near visual acuity
US	United States
UVA	Ultraviolet waves
VA	visual acuity

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