بسم الله الرحمن الرحيم

MONA MAGHRABY

شبكة المعلومات الجامعية

التوثيق الالكتروني والميكروفيلم

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جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم

قسم

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Assessment of Macular Function by Multifocal Electroretinography Following Idiopathic Epiretinal Membrane Surgery with Internal Limiting Membrane Peeling

Thesis

Submitted for Partial Fulfillment of the Master Degree in Ophthalmology

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صدق الله العظيم

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Dedication

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List of Abbreviations

Abb.	Full term
µm	Micrometer
AF	Autofluorescence
AMD	Age related macular degenerations
AO-SLO	Adaptive optics scanning laser ophthalmoscopy
APVD	Anomalous posterior vitreous detachment
BBG	Brilliant Blue G
BCVA	Best corrected visual acuity
CFT	Central foveal thickness
CME	Cystoid macular edema
CMR	Cellophane macular reflex
COST	Cone outer segment tip
CPR	Central-peripheral rivalry
CST	Central subfield thickness
DCP	Deep capillary plexus
DD	Disc diameter
DFV	Disk–fovea–vascular distance
DME	Diabetic macular edema
DONFL	Dissociated optic nerve fiber layer
DRIL	Disorganization of inner retinal layers
ECM	Extracellular matrix
EDI	Enhanced depth imaging
EIFL	Ectopic inner foveal layer
ERG	Electroretinogram
ERM	Epiretinal membrane
ETDRS	Early Treatment Diabetic Retinopathy Study

List of Abbreviations Cont...

Abb.	Full term
EZ	Ellipsoid zone
FA	Fluorescein angiography
FAF	Fundus autofluorescence
FAZ	Foveal avascular zone
fERG	Focal electroretinogram
FTMH	Full thickness macular hole
GC-IPL	Ganglion cell–inner plexiform layer complex
GCL	Ganglion cell layer
ICG	Indocyanine green dye
iERM	Idiopathic epiretinal membrane
ILM	Internal limiting membrane
INL	Inner nuclear layer
IOP	Intraocular pressure
IPL	Inner plexiform layer
IRII	Inner retinal irregularity index
IS/ OS	Inner/outer segment layer
ISCEV	International Society for Clinical Electrophysiology of Vision
K1	First-order kernel
LCD	Liquid crystal display
LMH	Lamellar macular hole
Log MAR	Logarithm of the minimal angle of resolution
mfERG	Multifocal electroretinogram
MH	Macular hole
MPH	Macular pseudo hole
NVS	Non-vitrectomizing vitreous surgery

List of Abbreviations Cont...

Abb.	Full term
OCT	Optical coherence tomography
OCT-A	Optical coherence tomography angiography
ONL	Outer nuclear layer
OPL	Outer plexiform layer
PCIOL	Posterior chamber intraocular lens implantation
pERG	Pattern electroretinogram
PHP	Preferential hyperacuity perimeter
PMF	Premacular fibrosis
PPV	Pars plana vitrectomy
PPVP	Posterior precortical vitreous pocket
PROS	Photoreceptor outer segment
PRVEPs	Pattern reversal visual evoked potentials
PVD	Posterior vitreous detachment
RD	Retinal detachment
RPE	Retinal pigment epithelial cells
RVO	Retinal vein occlusion
SANFL	Swelling of the arcuate retinal nerve fiber layer
SCP	Superficial capillary plexus
SD-OCT	Spectral domain Optical Coherence tomography
SRF	Subretinal fluid
TFT	Thin-film-transistor
TGFβ	Transforming growth factor β
VA	Visual acuity
VD	Vessel density

List of Abbreviations Cont...

Abb.	Full term
VMA	Vitreomacular adhesion
VMI	Vitreomacular interface
VMT	Vitreomacular traction
VRI	Vitreoretinal interface

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