

Contents

SECTION I: RETINA

CHAPTER 1	NORMAL OCT 	1
	Normal OCT	3
	Imaging Protocols	4
	En-face Images	6
CHAPTER 2	VITREOUS 	9
	Stage 1 PVD	11
	Stage 2 PVD	12
	Stage 3 PVD	13
	Evolution of PVD	14
	Posterior Vitreous Detachment	15
	Vitreomacular Traction	16
	Vitreomacular Traction and Taut Posterior Hyaloid	20
	Epiretinal Membrane	21
	Epiretinal Membrane - Stage 1	24
	Epiretinal Membrane - Stage 2	25
	Epiretinal Membrane - Stage 3	26
	Epiretinal Membrane with Pseudohole	27
	Idiopathic Epiretinal Membrane	28
CHAPTER 3	DIABETIC RETINOPATHY 	29
	Non-Proliferative Diabetic Retinopathy with	
	Cotton-Wool Spots	31
	Moderate NPDR with Macular Edema	32
	Hyperreflective Foci	34
	Non-Center-Early DME	35
	Non-Center DME - Circinate Variant	37
	Non-Central DME	39
	Non-Central DME-Status Post-Focal Laser	42
	Moderate NPDR with Center-Involved DME	43

Center-Involved DME	45
Diabetic Macular Edema - Treated with Grid Laser	46
Hard Exudates Diabetic Macular Edema	47
Diabetic Macular Edema	50
Proliferative Diabetic Retinopathy with Diabetic Macular Edema	51
Diabetic Macular Edema with TPHM	54
TPHM	56
Diabetic Macular Edema with ERM	60
DME and Preretinal Hemorrhage	61
Proliferative Diabetic Retinopathy	63
Proliferative Diabetic Retinopathy with TRD	67
PDR Subhyaloid Hemorrhage	68
PDR with Tractional Retinal Detachment	69
PDR with TRD - PPV	71
AGE-RELATED MACULAR DEGENERATION.....	73
Drusen	75
Non-Exudative AMD-Soft Drusen	76
Soft Drusen Non-Exudative AMD-Drusenoid PEDs	77
Basal Laminar Drusen	78
Atrophic Age-Related Macular Degeneration	80
Choroid Neovascular Membrane	81
CNVM - Polypoidal Variant	83
Occult CNVM	84
Polypoidal Choroidal Vasculopathy	85
Macular Neovascularization (MNV) - Type 3	89
Disciform Scar	91
Vascularized Pigmented Epithelial Detachment	92
Serous PED	94
Outer Retinal Tabulation in Chronic Exudative AMD	95
Prepapillary CNVM	96
Exudative AMD	97

	RPE Tear	99			
	Pattern Dystrophy	101			
	Nonvascular AMD Cuticular Drusen	103			
CHAPTER 5	RETINAL VASCULAR DISORDERS	105			
	Branch Retinal Vein Occlusion	107			
	Acute Branch Retinal Vein Occlusion with Macular Edema	110			
	BRVO - Macular Star	112			
	DRIL in Old BRVO	113			
	BRVO with Macular Edema and DRIL	114			
	Ischemic BRVO with Retinal Neovascularization	116			
	Hemorrhagic CRVO	117			
	Ischemic HRVO associated with DRIL	118			
	Ischemic CRVO	119			
	CRVO	120			
	Incipient CRVO	121			
	Combined BRAO and CRVO	122			
	Radiation Retinopathy	123			
	Malignant Hypertensive Chorioretinopathy	125			
	Subhyaloid Hemorrhage	126			
CHAPTER 6	RETINAL DETACHMENT 	127			
	Retinal Break without Retinal Detachment	129			
	Macula On	130			
	Retinal Detachment with Corrugations	132			
	Macula Off Retinal Detachment, Rheg Retinal Detachment with Corrugations	134			
	Macula Off	136			
CHAPTER 7	CENTRAL SEROUS CHORIORETINOPATHY	139			
	Acute CSCR	141			
	Fibrinous CSCR	142			
	Atypical CSCR	144			
	Chronic CSCR	145			
CHAPTER 8	MACULAR HOLES 	147			
	Bilateral Macular Hole	149			
	VMT with Macular Hole with ERM	151			
	Vitreomacular Traction with Macular Hole	153			
	Macular Hole	154			
	Spontaneous Closure of Macular Hole	156			
	Traumatic Macular Hole	157			
	Lamellar Macular Hole with ERM	158			
	Iatrogenic Macular Hole	160			
	Macular Hole with Juxta Foveal Telangiectasia	161			
CHAPTER 9	TRAUMA	163			
	Trauma Subretinal Hemorrhage	165			
	Comotio Retinae	166			
	Micromacular Hole	168			
	Choroidal Rupture with Subretinal Hemorrhage	169			
CHAPTER 10	TOXICITIES	171			
	Solar Retinopathy	173			
	Welding Arc Injury	174			
	Drug-Associated Toxicity	176			
	Welder's Maculopathy	178			
	Ethambutol Toxicity	180			
CHAPTER 11	MACULAR DYSTROPHIES AND RETINAL DEGENERATIONS	181			
	Flecks	183			
	Stargardt's Disease	184			
	Best Disease	186			
	CMO with RP	188			
	Macular Dystrophy	190			
	Retinochoroidal Coloboma	195			
	Fundus Flavimaculatus	196			
	Gyrate Atrophy	198			
	Retinitis Pigmentosa	201			
	X-Linked Retinoschisis	202			
	Optic Disc Pit	204			
	Retinoschisis	208			
CHAPTER 12	PATHOLOGICAL MYOPIA 	209			
	Degenerative Myopia with Macular Chorioretinal Atrophy	211			
	Myopic Schisis	212			

Myopic Retinoschisis	213
Dome-Shaped Macula	214
Degenerative Myopia - Dome-Shaped Maculopathy	216
Macular Hemorrhage without CNVM	218
Myopic Nasal Hole with Retinal Detachment	220
CNVM - Myopic	221

CHAPTER 13 UVEITIS..... 225

Sympathetic Ophthalmia - Chronic	227
Sympathetic Ophthalmia - Acute	228
Tubercular Chorioretinitis	229
Vogt-Koyanagi-Harada (VKH) - Acute	230
Retinal Vasculitis	236
Occlusive Retinal Vasculitis	237
Acute Syphilitic Posterior Placoid Chorioretinitis	238
Dengue Maculopathy	239
Toxoplasmosis	240
Postscleritis	241
Multiple Evanescent White Dot Syndrome (MEWDS)	244
Toxocara	246
Vitreous - HRF	247
Retinitis	248
Choroiditis - Multifocal	250
Choroiditis - Serpiginous (Macular Variant)	252
Chorioretinitis	254
Punctate Inner Choroidopathy	256
Intermediate Uveitis with CME	258
Paracentral Acute Middle Maculopathy (PAMM)	260

CHAPTER 14 MISCELLANEOUS 263

Parafoveal Telangiectasia	265
PFT with Macular Hole	266
PFT - Early Stage	267
PFT - Non-Proliferative Stage	268
PFT with CNVM	269
Angioid Streaks	270
Idiopathic CNVM	271

Valsalva Retinopathy	273
Optic Disc Edema - Idiopathic Intracranial Hypertension	275
Choroidal Hemangioma	277
Idiopathic Choroidal Folds	278
Coats' Disease	279
High Altitude Sickness	282
Foveal Hypoplasia	284
Disc Coloboma	285
Vitreous Asteroid Hyalosis	286
Myelinated Retinal Nerve Fibers	287
Chronic Retinal Pigment Epitheliopathy	288

CHAPTER 15 OCT ANGIOGRAPHY 289

Normal	291
Moderate NPDR	293
Non-Proliferative Diabetic Retinopathy	294
Severe Non-Proliferative Diabetic Retinopathy	296
Proliferative Diabetic Retinopathy	297
Retinal Arterial Macroaneurysms	302
Branch Retinal Vein Occlusion	304
Ischemic Hemiretinal Vein Occlusion	312
Non-Ischemic Central Retinal Vein Occlusion	313
Branch Retinal Artery Occlusion	314
Polypoidal Choroidal Vasculopathy	316
CNVM Associated with Central Serous Chorioretinopathy	317
Acute CSCR	318
Exudative Age-Related Macular Degeneration - Polypoidal Variant	319
Choroid Neovascular Membrane	320
Vascularized Pigment Epithelium Detachment	328
VKH Syndrome	330
Healed Choroiditis - Multifocal	334
Choroiditis - Multifocal	335
Choroiditis	336
Punctate Inner Choroiditis	339
Tubercular Occlusive Retinal Vasculitis	340
Idiopathic Juxta Foveal Telangiectasia	341

SECTION II: ANTERIOR SEGMENT

CHAPTER 16	NORMAL CORNEA 	343
	Normal Cornea and Tear Film	345
	Imaging Protocols	346
CHAPTER 17	CORNEAL DYSTROPHIES AND DEGENERATIONS	347
	Granular Dystrophy	349
	Granular Dystrophy in a Young Individual	350
	Macular Dystrophy Groenouw Type II	351
	Lattice Dystrophy	352
	Climatic Droplet Keratopathy (CDK) or Spheroidal Degeneration	354
CHAPTER 18	OCULAR SURFACE DISORDERS	355
	Corneal Scar Post-Trauma	357
	Severe Vernal Keratoconjunctivitis (VKC)	358
	Pigmented Actinic Keratosis	360
	Diffuse Ocular Surface Squamous Neoplasia (OSSN)	362
CHAPTER 19	KERATITIS	363
	Corneal Melt	365
	Peripheral Ulcerative Keratitis (PUK)	366
	Acanthamoeba Keratitis	367
	Herpetic Keratouveitis	368
	Post-Herpetic Scar	370
	Herpetic Epithelial and Stromal Keratitis	371
CHAPTER 20	TRAUMA	373
	Descemet's Membrane Detachment (DMD)	375
	Corneal Perforation with Retained Intraocular Foreign Body	376
CHAPTER 21	KERATOCONUS AND CORNEAL ECTASIAS	377
	Severe Keratoconus	379
	Corneal Ectasia	380
	Demarcation Line Post-Collagen Cross-linking of Cornea (C3R)	381
CHAPTER 22	CORNEAL AND REFRACTIVE SURGERIES	383
	SMILE	385
	Epithelial Ingrowth - Post-LASIK	386
	Epithelial Ingrowth - Post-SMILE	387

Acute Graft Rejection	388
Post-DESK Graft Rejection	390
Implantable Collamer Lens (ICL)	391

SECTION III: GLAUCOMA

CHAPTER 23	OPTIC NERVE HEAD AND RNFL 	393
	Normal	395
	Imaging Protocols	397
	Artifacts	398
	Pre-Perimetric Glaucoma	402
	Early Glaucomatous Damage	404
	Moderate Glaucomatous Damage	406
	Advanced Glaucomatous Damage (Primary Open Angle Glaucoma)	408
	Advanced Glaucomatous Damage (Primary Angle Closure Glaucoma)	410
	Juvenile Open Angle Glaucoma	412
	Guided Progression Analysis	414
	Physiological Cupping	416
CHAPTER 24	OCT ANGIOGRAPHY AND GLAUCOMA	419
	Normal	420
	Open Angle Glaucoma	422
	Preperimetric Glaucoma	424
	Advanced Glaucomatous Optic Atrophy	426
CHAPTER 25	AS-OCT IN GLAUCOMA	429
	Normal	431
	Open Angle Glaucoma	432
	Angle Closure Glaucoma	434
	Laser Peripheral Iridotomy (LPI)	436
	Secondary Angle Closure Glaucoma (Synechial Angle Closure)	437
	Post-Trabeculectomy Bleb	438
	Functional Cystic Bleb	439
	Poor Functioning Bleb	440
	Non-Functional Failed Bleb	441
	Post-Glaucoma Drainage Device	442

<i>Index</i>	445
--------------	-----