

Contents

1	Common Characteristics and Distinct Features of Human Pathogenic Herpesviruses	1	2.5	Epithelial HSV Keratitis	29
	Hartmut Hengel		2.6	Interstitial and Ulcerating HSV Keratitis	39
1.1	Hallmarks of Herpesvirus Infections	1	2.7	HSV Endotheliitis and Disciform Keratitis	51
1.2	Virus Taxonomy and Herpesviral Subfamilies	1	2.8	HSV Trabeculitis and Acute Secondary Glaucoma	57
1.3	General Themes of Human Herpesvirus Infections	2	2.9	HSV Focal Serous Iritis	63
1.4	Distinct Features of Human Herpesviruses	2	2.10	HSV Scleritis	69
2	Herpes Simplex Virus (HSV) Diseases of the Anterior Segment and the Adnexa	5	2.11	Metaherpetic Corneal Disease	71
	Rainer Sundmacher		2.12	Clinically Manifest Primary HSV Infections	77
2.1	Pathophysiology	7	2.13	Herpes and Trauma	83
2.2	Basics of Therapy	13	2.14	Intraocular Surgery and Keratoplasty in HSV Eyes	87
2.2.A	Antiviral Agents for Superficial (Epithelial) Viral Disease	13	2.14.A	General Rules for Surgery in Herpes Eyes ..	87
2.2.A.1	Trifluorothymidine (TFT) and Aciclovir (ACV)	14	2.14.A.1	Systemic ACV Prophylaxis and Therapy of Herpes Complications	87
2.2.A.2	Bromovinyldeoxyuridine (BVDU), a Potential Alternative	15	2.14.A.2	Cataract and Glaucoma Surgery	87
2.2.A.3	The Lasting Value of Mechanical Debridement	15	2.14.B	Emergency Surgery with Different Tissue Covers	88
2.2.A.4	The Potential Value of Topical Interferon in Combination with Topical Antiviral Agents	16	2.14.B.1	Conjunctiva	88
2.2.B	Antiviral Agents Plus Steroids for Deep Viral Disease	17	2.14.B.2	Cornea	88
2.2.C	Conservative Resurfacing Measures for Metaherpetic Superficial (Epithelial) Disease	17	2.14.B.3	Amnion	89
2.2.D	Surgical Reconstruction for Metaherpetic Deep Disease	18	2.14.C	Optical Improvement of an Irregular Corneal Surface	91
2.3	HSV Blepharitis	21	2.14.C.1	Contact Lenses	91
2.4	HSV Conjunctivitis	25	2.14.C.2	Excimer Laser	92
			2.14.D	Perforating Keratoplasty	92
			2.14.D.1	Rotational Autokeratoplasty	93
			2.14.D.2	Homokeratoplasty	93
			2.14.D.2.1	Dry Eye Complications	96
			2.14.D.2.2	Immune Reactions	96
			2.14.D.2.3	HSV Recurrences	100
			2.14.D.2.4	Secondary Glaucoma	104

2.14.D.2.5	Irritating Sutures	105
2.14.E	Special Problem: Amebic Keratitis	106
2.15	Prophylaxis of HSV Recurrences	111
3	Varicella Zoster Virus (VZV) Diseases of the Anterior Segment and the Adnexes	113
	Rainer Sundmacher	
3.1	Zoster Pathophysiology and Therapy	115
	Pathophysiology	115
	Therapy	116
3.2	Ocular Disease in the Course of Primary VZV Infection (Varicella)	119
3.3	Zoster Blepharitis, Conjunctivitis, and General VZV Dissemination	123
3.4	Epithelial Zoster Keratitis	129
3.5	Interstitial Zoster Keratitis and Endotheliitis	131
	Addendum	137
3.6	Zoster Iritis	141
3.7	Zoster Scleritis	145
3.8	Late Corneal Complications After Zoster	147
3.9	Keratoplasty in Zoster Eyes	151
3.10	Differences Between VZV and HSV Ocular Disease	155

4	Cytomegalovirus (CMV) Diseases of the Anterior Segment	159
	Rainer Sundmacher and Johannes Stammen	
5	Suspected Epstein–Barr Virus (EBV) Disease of the Anterior Segment	163
	Thomas Reinhard	
5.1	General Pathophysiology and Epidemiology	163
5.2	Laboratory Diagnosis	163
5.3	Ocular Manifestations	164
5.4	Therapy of Recurrent EBV Disease of the Eye	165
6	Diseases of the Posterior Segment by HSV, VZV, and CMV	167
	Lutz L. Hansen	
6.1	Epidemiology and Pathogenesis	167
6.2	Phenotypic Clinical Features	167
6.2.1	Herpetic Retinitis	167
6.2.2	Acute Retinal Necrosis (ARN)	168
6.2.3	Progressive Outer Retinal Necrosis (PORN)	168
6.3	Virus Specific Features	168
6.3.1	Herpes Simplex Virus (HSV)	168
6.3.2	Varicella Zoster Virus (VZV)	169
6.3.3	Cytomegalovirus (CMV)	169
6.3.4	Epstein–Barr Virus (EBV)	169
6.4	Diagnosis and Differential Diagnosis	169
6.5	Therapy	170
6.5.1	General Guidelines	170
6.5.2	Herpetic Retinitis	171
6.5.3	Cytomegalovirus Retinitis	171
6.5.4	Acute Retinal Necrosis	171
6.5.5	Progressive Outer Retinal Necrosis	171
6.5.6	Retinal Detachment	172
	Subject Index	183

<http://www.springer.com/978-3-540-69462-5>

Color Atlas of Herpetic Eye Disease
A Practical Guide to Clinical Management
Sundmacher, R.
2009, XVI, 186 p. 211 illus., Hardcover
ISBN: 978-3-540-69462-5