

Contents

1	The Morphology of Varicella-Zoster Virus Epithelial Keratitis in Herpes Zoster Ophthalmicus	1
	VZV Cytopathic Effect in Cell Cultures	2
	VZV Cytopathic Effect in the Living Human Corneal Epithelium	3
	VZV Epithelial Keratitis: Surface Elevations and Disruptions	4
	VZV Epithelial Keratitis: Dynamics of Fluorescein Sodium Staining	5
	VZV Epithelial Keratitis: Surface Plaques	6
	VZV Epithelial Keratitis and Epithelial Edema	8
	Epithelial Erosion: A Sequela of VZV Epithelial Keratitis	11
	Subepithelial Opacity: A Sequela of VZV Epithelial Keratitis (1)	12
	Subepithelial Opacity: A Sequela of VZV Epithelial Keratitis (2)	13
	Inflammatory Cells on the Endothelium in VZV Epithelial Keratitis (1)	14
	Inflammatory Cells on the Endothelium in VZV Epithelial Keratitis (2)	15
2	The Dynamics of Varicella-Zoster Virus Epithelial Keratitis in Herpes Zoster Ophthalmicus	17
	Case 1: Changing Shapes of a Large VZV Lesion	18
	Case 2: Changing Shapes of a Smaller VZV Lesion	22
	Case 3: Appearance and Disappearance of VZV	
	Corneal Epithelial Lesions	30
	Development of VZV Corneal Epithelial Lesions in the Same Location	39
3	Recurrent VZV Epithelial Keratitis in HZO; HZO Sine Herpete	43
	Case 1: Recurrent VZV Epithelial Keratitis in HZO	44
	Case 2: Recurrent VZV Epithelial Keratitis in HZO	46
	Case 3: Recurrent VZV Epithelial Keratitis in HZO	52
	Case 1: VZV Epithelial Keratitis in HZO Sine Herpete	53
	Case 2: VZV Epithelial Keratitis in HZO Sine Herpete	54
	Case 3: VZV Epithelial Keratitis in HZO Sine Herpete	62

4 Three Rare Cases of Ocular Surface Involvement in Acute HZO	65
Case 1: HZO, Epithelial Edema, and (Presumed) VZV	
Epithelial Keratitis	66
Case 2: HZO and Corneal Epithelial Cysts	70
Case 3: HZO, VZV Epithelial Keratitis, and VZV	
Conjunctival Lesions	72
5 Comparison of HSV and VZV Epithelial Keratitis	75
Swollen Epithelial Cells; Surface Ulceration (HSV).	76
Subsurface Changes, Surface Elevations	77
Light-Reflecting Properties	78
Light-Reflecting Properties and Staining Features	79
Various Aspects of an HSV Lesion	80
Various Aspects of a VZV Lesion	81
The Origin of HSV Dendrites and VZV Pseudodendrites.	82
Fluorescein Staining of HSV Dendrites and VZV Pseudodendrites	83
Rose Bengal Staining of HSV Dendrites and VZV Pseudodendrites	84
Addendum. Interplay of Destructive and Healing Forces	
in HSV Epithelial Keratitis	86
Final Remark	88
Bibliography	89
Index	91