Contents

1. **Congenital Anomalies of the Anterior Segment** 1
Hala M Elhilaly, Rania El Essawy, Hoda M Mostafa (Egypt)

2. **Developmental Abnormalities** 19
Arturo Perez Arteaga (Mexico)
- **Axenfeld Rieger Syndrome** 20
- **Peters Anomaly** 22
- **Aniridia** 26

3. **Conjunctival Disorders** 29
Arturo Perez Arteaga (Mexico)
- **Infectious Diseases** 30
  - Trachoma 30
  - Bacterial Conjunctivitis 34
  - Adenoviral Keratoconjunctivitis 38
  - Chlamydial Conjunctivitis 40
- **Inflammatory Diseases** 44
  - Allergic conjunctivitis 44
  - Giant Papillary Conjunctivitis 46
  - Vernal Conjunctivitis 50
  - Atopic Conjunctivitis 52
  - Ocular Cicatricial Pemphigoid 56
  - Stevens-Johnson Syndrome 60
  - Superior Limbic Keratoconjunctivitis 64
  - Phlyctenular Conjunctivitis 68
- **Neoplastic Disorders** 72
  - Lymphoma 72
  - Conjunctival Nevus 74
  - Conjunctival Intraepithelial Neoplasia 76
  - Squamous Cell Carcinoma 78
  - Primary Acquired Melanosis of the Conjunctiva 82
  - Conjunctival Melanoma 84
  - Limbal Dermoid 88
- **Degenerations** 90
  - Pingueculae 90
  - Pterygium 92
  - Conjunctivochalasis 94

4. Episclera and Sclera 97
Arturo Perez Arteaga (Mexico)

5. Corneal Disorders 103
Ashok Sharma (India)

- **Infections** **104**
  - Bacterial Keratitis 104
  - Fungal Keratitis 106
  - Herpes Simplex Keratitis 110
  - Herpes Zoster Ophthalmicus 112
  - Acanthamoeba Keratitis 114
  - Atypical Mycobacterium Keratitis 116
  - Nocardia Keratitis 118
- **Inflammations** **120**
  - Marginal Keratitis 120
  - Vernal Conjunctivitis 122
  - Vernal Ulcer 126
  - Vitamin A Deficiency 128
  - Corneal Edema 132
  - Numular Corneal Opacities 136
  - Dry Eyes 136
  - Meibomian Gland Disease 140
  - Neurotrophic Keratitis 142
  - Ocular Surface Disease and Limbal Stem Cell Deficiency 144
  - Currents in Surgical Management of Ocular Surface Disease 150
  - Mooren's Ulcer 160
  - Peripheral Ulcerative Keratitis 162
- **Corneal Injuries** **166**
  - Management of Corneal Injuries 166
  - Management of Blunt Trauma of Anterior Segment 172
  - Acute Chemical Eye Injury 182
- **Non-inflammatory Degenerations** **188**
  - Corneal Degenerations 188
  - Pellucid Marginal Corneal Degeneration 192
  - Terrien's Marginal Degeneration 192
  - Salzmann's Nodular Degeneration 194
  - Climatic Droplet Keratopathy 196
- **Corneal Dystrophies** **200**
  - Anterior Corneal Dystrophies 202
  - Stromal Corneal Dystrophies 206
  - Endothelial Dystrophies 208
  - Congenital Corneal Dystrophies 209

6. Iris and Ciliary Body 213
Arturo Perez Arteaga (Mexico)
- **Idiopathic Iritis 214**
- **Sarcoidosis 216**
- **Fuchs Heterochromic Iridocyclitis 218**
- **Juvenile Idiopathic Arthritis 221**

7. Tear Film Disorders 223
- **Pathophysiology of Tear Film 224**
  Ashok Garg (India)
- **Diagnostic Tests and Principles in Dry Eye Syndrome 254**
  David Meyer (South Africa)
- **Blepharitis and Meibomianitis 270**
  Henry D Perry, Eric D Donnenfeld (USA)
- **Dry Eye after Refractive Surgery 274**
  Belquiz A Nassaralla, João J Nassaralla (Brazil)
- **Computer Vision Syndrome and Dry Eye 280**
  Ashok Garg (India)
- **Pediatric Dry Eye 286**
  John D Sheppard (USA)

8. Hyphema 297
Earl R Crouch, Eric Crouch (USA)

9. Pediatric Iris Abnormalities 307
Arif Adenwala (UAE), Mahesh Dalvi (India)

10. Anterior Segment Tumors 319
Flavio A Marigo, Paul T Finger (USA)

11. Keratoplasty 347
- **Pediatric Keratoplasty 348**
  Anita Panda, Geeta Behera, Abhiyan Kumar (India)
- **Evolution of Keratoplasty through Centuries 374**
  Anita Panda, Sandeep Kumar, Shibal Bhartiya , Abhiyan Kumar (India)
- **Current Concepts in Pediatric Corneal Transplant Surgery 408**
  Ashok Sharma (India)

Index 429