

# Contents

---

|   |           |
|---|-----------|
| <b>1. Congenital Eyelid Anomalies .....</b>   | <b>1</b>  |
| <i>Roshni Gupta, Ramesh Murthy, Savari Desai, Santosh G Honavar (India)</i>         |           |
| – <b>Cryptophthalmos .....</b>  | <b>2</b>  |
| – <b>Lid Colobomas .....</b>  | <b>4</b>  |
| – <b>Microblepharon and Ablepharon .....</b>  | <b>6</b>  |
| – <b>Ankyloblepharon Filiforme Adnatum .....</b>                                    | <b>8</b>  |
| – <b>Medial Canthal Ectopia .....</b>   | <b>9</b>  |
| – <b>Epicanthus .....</b>   | <b>10</b> |
| – <b>Centurion Syndrome .....</b>   | <b>12</b> |
| – <b>Distichiasis .....</b>   | <b>12</b> |
| – <b>Epiblepharon .....</b>   | <b>14</b> |
| – <b>Congenital Entropion .....</b>   | <b>14</b> |
| – <b>Tarsal Kink Syndrome .....</b>   | <b>16</b> |
| – <b>Congenital Ectropion .....</b>   | <b>18</b> |
| – <b>Euryblepharon .....</b>  | <b>20</b> |
| – <b>Congenital Lid Retraction .....</b>  | <b>20</b> |
| – <b>Congenital Ptosis .....</b>  | <b>22</b> |
| – <b>Blepharophimosis Syndrome .....</b>  | <b>24</b> |
| <b>2. Congenital Eyelid Anomalies .....</b>   | <b>31</b> |
| <i>AK Grover, Shaloo Bageja (India)</i>   |           |
| • <b>Congenital Eyelid Abnormalities .....</b>                                      | <b>32</b> |
| – <b>Cryptophthalmos .....</b>  | <b>32</b> |
| – <b>Coloboma .....</b>   | <b>34</b> |
| – <b>Ankyloblepharon .....</b>  | <b>36</b> |
| – <b>Congenital Ectropion .....</b>   | <b>38</b> |
| – <b>Congenital Entropion .....</b>   | <b>38</b> |
| – <b>Epiblepharon .....</b>   | <b>38</b> |
| – <b>Euryblepharon .....</b>  | <b>42</b> |
| – <b>Epicanthus .....</b>   | <b>42</b> |
| – <b>Telecanthus .....</b>  | <b>44</b> |
| – <b>Congenital Ptosis .....</b>  | <b>44</b> |
| • <b>Plication of Orbicularis Oculi for Ptosis .....</b>                            | <b>48</b> |
| <i>Daljit Singh (India)</i>   |           |
| • <b>Sutureless Conjunctival Route Plication of Levator Muscle for Ptosis .....</b> | <b>52</b> |
| <i>Daljit Singh (India)</i>   |           |
| • <b>Congenital Eyelids Deformities .....</b>                                       | <b>58</b> |
| <i>Kirit Mody (India)</i>   |           |
| – <b>Fornix Reconstruction .....</b>  | <b>58</b> |

|  |            |
|--|------------|
| <b>3. Disorders of Eyelid .....</b>                            | <b>69</b>  |
| • Entropion-I .....  | 70         |
| <i>Essam El Toukhy, Mohmed El Badri (Egypt)</i>                |            |
| – Congenital Entropion .....                                   | 70         |
| – Spastic Entropion .....                                      | 72         |
| – Cicatricial Entropion .....                                  | 72         |
| – Involutional Entropion .....                                 | 74         |
| • Entropion-II .....   | 80         |
| <i>Ranjit S Dhaliwal (India)</i>                               |            |
| • Ectropion .....  | 82         |
| <i>Essam El Toukhy, Ali Saeed Odadi Assiri (Egypt)</i>         |            |
| <b>4. Disorders of Eyelid .....</b>                            | <b>95</b>  |
| • Eyelid Retraction .....                                      | 96         |
| <i>Tamer Gawdat, Essam El Toukhy (Egypt)</i>                   |            |
| • External Ophthalmoplegia (3rd Nerve Involvement) .....       | 104        |
| <i>Ranjit S Dhaliwal (India)</i>                               |            |
| <b>5. Lacrimal System Disorders (Congenital) .....</b>         | <b>111</b> |
| • Congenital Nasolacrimal Duct Obstruction .....               | 112        |
| <i>Essam El Toukhy, Ibrahim Mosad (Egypt)</i>                  |            |
| <b>6. Lacrimal System Disorders (Acquired) .....</b>           | <b>119</b> |
| • Acquired Lacrimal Obstructions .....                         | 120        |
| <i>Hatem A Tawfik, Norlaila Talib, Essam El Toukhy (Egypt)</i> |            |
| • Lacrimal Fistula .....                                       | 130        |
| <i>Ranjit S Dhaliwal (India)</i>                               |            |
| <b>7. Diseases of Eyelids .....</b>                            | <b>133</b> |
| • Diseases of Eyelids .....                                    | 134        |
| <i>Ashok Garg, Ranjit S Dhaliwal (India)</i>                   |            |
| – Style (Hordeolum Externum) .....                             | 134        |
| – Chalazion (Meibomian Cyst) .....                             | 136        |
| – Blepharitis .....  | 138        |
| – Dermatitis .....   | 142        |
| – Warts (Verruca Vulgaris) .....                               | 144        |
| – Molluscum Contagiosum .....                                  | 144        |
| – Trichiasis .....   | 146        |
| • Congenital Tumors .....                                      | 150        |
| <i>AK Grover, Shaloo Bageja (India)</i>                        |            |
| • Pigmented Lesions .....                                      | 150        |
| – Naevi .....  | 150        |
| – Naevus of Ota .....  | 150        |
| – Portwine Stain .....   | 150        |
| – Strawberry (Capillary) Hemangioma .....                      | 150        |
| – Dermoid and Epidermoid Cyst .....                            | 152        |
| – Plexiform Neurofibroma .....                                 | 152        |

---

|  |            |
|--|------------|
| • Management of Multiple Papilloma of the Lid Margin with Fugo Blade ..... | 156        |
| <i>Daljit Singh (India)</i>  |            |
| <b>8. Imaging of the Orbit .....</b>                                       | <b>161</b> |
| <i>Roshmi Gupta, Savari Desai, Santosh G Honavar (India)</i>               |            |
| • The Orbital Bones .....  | 164        |
| – Osteoma .....  | 164        |
| – Ossifying Fibroma .....  | 166        |
| – Orbital Fracture .....   | 166        |
| • Extraocular Muscles .....  | 170        |
| – Thyroid Eye Disease .....  | 170        |
| – Myositis .....   | 172        |
| – Orbital Cysticercosis .....  | 174        |
| • Extraconal Lesions of the Orbit .....                                    | 178        |
| – Dermoid Cyst .....   | 178        |
| – Sphenoid Wing Meningioma .....   | 180        |
| – Lymphoproliferative Diseases of the Orbit .....                          | 180        |
| • Lacrimal Fossa Tumors: Pleomorphic Adenoma .....                         | 184        |
| • Orbital Invasion of Paranasal Sinus Disease .....                        | 186        |
| • Combined Intraconal and Extraconal Pathology .....                       | 188        |
| – Orbital Hemorrhage .....   | 188        |
| – Lymphangioma .....   | 190        |
| – Orbital Varix .....  | 192        |
| • Intraconal Lesions of the Orbit .....                                    | 194        |
| – Vascular Lesions of the Orbit .....                                      | 194        |
| - Orbital Hemangioma .....   | 194        |
| - Neurogenic Lesions of the Orbit .....                                    | 196        |
| - Optic Nerve Sheath Meningioma .....                                      | 196        |
| - Optic Nerve Glioma .....   | 198        |
| • Extraocular Extension of Intraocular Tumor .....                         | 202        |
| • Optic Neuritis .....   | 202        |
| <b>9. Orbital Neoplasms .....</b>  | <b>205</b> |
| <i>Jes Mortensen (Sweden)</i>  |            |
| • Primary Tumors of the Orbit .....  | 208        |
| – Orbital Lymphoma .....   | 208        |
| – Squamous Cell Carcinoma .....  | 210        |
| – Basal Cell Carcinoma .....   | 212        |
| – Melanoma .....   | 216        |
| – Merkel Cell Carcinoma .....  | 218        |
| <b>10. Orbital Disorders—Vascular Abnormalities .....</b>                  | <b>225</b> |
| <i>AK Grover, Shaloo Bageja (India)</i>                                    |            |
| – Capillary Hemangioma .....   | 226        |
| – Lymphangioma .....   | 228        |
| – Cavernous Hemangioma .....   | 230        |
| – Orbital Varices .....  | 230        |

|   |            |
|---|------------|
| <b>11. Infections of Orbit .....</b>  | <b>233</b> |
| <i>Roshmi Gupta, Savari Desai, Santosh G Honavar (India)</i>                  |            |
| • <b>Bacterial Infections .....</b>   | <b>234</b> |
| – <b>Orbital Cellulitis .....</b>   | <b>234</b> |
| – <b>Orbital Abscess .....</b>  | <b>236</b> |
| – <b>Cavernous Sinus Thrombosis .....</b>                                     | <b>238</b> |
| • <b>Specific Orbital Infections .....</b>                                    | <b>240</b> |
| – <b>Orbital Tuberculosis .....</b>   | <b>240</b> |
| – <b>Orbital Fungal Infections .....</b>                                      | <b>244</b> |
| – <b>Orbital Mucormycosis .....</b>   | <b>244</b> |
| – <b>Orbital Aspergillosis .....</b>  | <b>246</b> |
| – <b>Parasitic Infections of the Orbit .....</b>                              | <b>248</b> |
| – <b>Orbital Cysticercosis .....</b>  | <b>248</b> |
| – <b>Orbital Hydatid Cyst .....</b>   | <b>250</b> |
| <b>12. Orbital Trauma .....</b>   | <b>255</b> |
| <i>Jes Mortensen (Sweden)</i>   |            |
| • <b>Orbital Fractures .....</b>  | <b>258</b> |
| – <b>Fractures of the Orbital Floor .....</b>                                 | <b>258</b> |
| – <b>Zygomatic-orbital Fractures .....</b>                                    | <b>262</b> |
| – <b>Fractures of the Medial Wall of the Orbit .....</b>                      | <b>264</b> |
| – <b>Fractures of the Orbital Roof .....</b>                                  | <b>266</b> |
| – <b>Naso-orbital-ethmoid Fractures .....</b>                                 | <b>268</b> |
| • <b>Orbital Emphysema .....</b>  | <b>272</b> |
| <i>Ranjit S Dhaliwal (India)</i>  |            |
| <b>13. Aesthetic Ophthalmoplastic with CO<sub>2</sub> Laser .....</b>         | <b>275</b> |
| <i>Claudio Lucchini (Italy)</i>   |            |
| • <b>Transconjunctival Blepharoplasty .....</b>                               | <b>276</b> |
| • <b>Ablative Laser Skin Resurfacing .....</b>                                | <b>284</b> |
| <b>14. Orbital Implants .....</b>   | <b>291</b> |
| <i>Kiran Tandon (India)</i>   |            |
| <b>15. Miscellaneous .....</b>  | <b>303</b> |
| A. <b>Miscellaneous .....</b>   | <b>303</b> |
| <i>Ranjit S Dhaliwal (India)</i>  |            |
| • <b>Graves Ophthalmopathy (Thyrotoxicosis) .....</b>                         | <b>304</b> |
| • <b>Herpes Zoster Ophthalmicus .....</b>                                     | <b>308</b> |
| • <b>Trachoma .....</b>   | <b>312</b> |
| • <b>Ectropion of Lower Puncta .....</b>                                      | <b>316</b> |
| • <b>Carbuncle (Eyelid Abscess) .....</b>                                     | <b>318</b> |
| • <b>Caruncular Abscess .....</b>   | <b>320</b> |
| • <b>Concretions (Lithiasis) .....</b>  | <b>322</b> |
| • <b>Foreign Body in Sulcus Subtarsalis .....</b>                             | <b>324</b> |
| • <b>Eyelash in the Canaliculus .....</b>                                     | <b>326</b> |
| B. <b>Management of Dysfunction of Meibomian Glands with Fugo Blade .....</b> | <b>328</b> |
| <i>Daljit Singh (India)</i>   |            |
| <i>Index .....</i>  | <b>331</b> |