

Contents

Preface

vii

List of Contributors

xi

Section I: Clinical Methods in Ophthalmology: General Considerations

- 1. History Taking and Scheme of Examination and Investigation of an Ophthalmic Case** 3
AK Khurana, Aruj K Khurana, Bhawna P Khurana
- 2. Evaluation of Visual Acuity, Contrast Sensitivity, and Colour Vision** 30
AK Khurana, Aruj K Khurana, Bhawna P Khurana
- 3. Slit-lamp Biomicroscopy** 53
AK Khurana, Aruj K Khurana, Bhawna P Khurana
- 4. Examination of Posterior Segment** 65
AK Khurana, Aruj K Khurana, Bhawna P Khurana
- 5. Evaluation and Assessment of Traumatized Eye** 103
AK Khurana, Mehul Shah, Shreya Shah, S Sood, Aruj K Khurana
- 6. Examination of a Neuro-ophthalmic Case** 111
Rashmin A Gandhi, AK Khurana, Reena Gupta, Chekitan Singh

Section II: Clinical Evaluation and Investigative Techniques in Cornea

- 7. Clinical Evaluation and Investigations for Corneal Diseases** 135
Neha Adlakha, AK Khurana, Bhawna P Khurana
- 8. Specular Microscopy and Confocal Microscopy of Cornea** 162
AK Khurana, Aruj K Khurana, Bhawna P Khurana
- 9. Corneal Pachymetry, Hysteresis and Keratometry** 171
AK Khurana, Aruj K Khurana, Bhawna P Khurana
- 10. Corneal Topography and Aberrometry** 189
AK Khurana, Aruj K Khurana, Bhawna P Khurana

Section III: Clinical Evaluation and Investigative Techniques in Glaucoma

- 11. Clinical Evaluation of Glaucoma: An Overview** 225
AK Khurana, Prateep Vyas, Aruj K Khurana, Shweta Goel
- 12. Tonometry** 233
AK Khurana, Aruj K Khurana, Bhawna P Khurana
- 13. Gonioscopy** 246
Tanuj Dada, Aruj K Khurana, Bhawna P Khurana



- | | |
|---|------------|
| 14. Evaluation of Optic Nerve Head | 263 |
| <i>Sushmita Kaushik, Ankur Singh, SS Pandav</i> | |
| 15. Imaging in Glaucoma | 272 |
| <i>Sushmita Kaushik, Ankur Singh, SS Pandav</i> | |
| 16. Perimetry and Other Psychophysical Tests in Glaucoma | 306 |
| <i>Parul Ichpujani, Aruj K Khurana, AK Khurana</i> | |

Section IV: Clinical Evaluation and Investigations in Uveitis

- | | |
|--|------------|
| 17. Clinical Approach to Uveitis | 329 |
| <i>Parthopratiim Dutta Majumder, J Biswas, Radha Annamalai</i> | |
| 18. Investigations in Uveitis | 339 |
| <i>J Biswas, Parthopratiim Dutta Majumder, Sukanya, Aruj K Khurana</i> | |
| 19. Pathological Diagnostic Tests in Uveitis | 365 |
| <i>Avirupa Ghosh, J Biswas</i> | |

Section V: Clinical Evaluation and Investigations for Disorders of Ocular Motility

- | | |
|---|------------|
| 20. Evaluation of a Case of Strabismus and Orthoptic Instruments | 377 |
| <i>AK Khurana, Bhawna P Khurana</i> | |
| 21. Evaluation and Investigations in Paralytic Squint | 435 |
| <i>AK Khurana, Bhawna P Khurana</i> | |
| 22. Evaluation and Investigations of a Case of Nystagmus | 456 |
| <i>AK Khurana, Bhawna P Khurana</i> | |

Section VI: Clinical Evaluation and Investigations for Disorders of Ocular Adnexa

- | | |
|---|------------|
| 23. Evaluation of a Case of Ptosis | 467 |
| <i>AK Khurana, AK Grover, Bhawna P Khurana, Shaloo Bageja</i> | |
| 24. Evaluation of a Case of Watering Eye | 481 |
| <i>Bhawna P Khurana, AK Khurana, Aruj K Khurana</i> | |
| 25. Evaluation of a Case of Proptosis and Enophthalmos | 489 |
| <i>AK Khurana, Bhawna P Khurana, Aruj K Khurana</i> | |

Section VII: Clinical Evaluation and Investigations for Cataract Surgery

- | | |
|---|------------|
| 26. Preoperative Evaluation for Cataract Surgery | 521 |
| <i>AK Khurana, Aruj K Khurana, Bhawna P Khurana</i> | |
| 27. Biometry: Calculation of IOL Power | 529 |
| <i>AK Khurana, Aruj K Khurana, Bhawna P Khurana</i> | |

Section VIII: Special Investigations for Retina, Vitreous and Optic Nerve

- | | |
|--|------------|
| 28. Fundus Angiography and Autofluorescence | 553 |
| <i>Amod Gupta, Subina Narang, Pradeep Venkatesh, Mohit Dogra, MR Dogra</i> | |



29. Macular Optical Coherence Tomography	577
<i>Subina Narang, Pradeep Venkatesh, Mohit Dogra, MR Dogra</i>	

30. Electrophysiological Tests in Ophthalmology	590
<i>Parul Ichpujani, Shibal Bhartiya, Indu Khurana</i>	

Section IX: Imaging Techniques in Ophthalmology

31. Plain X-rays in Ophthalmology	601
<i>AK Khurana, Bhawna P Khurana, Garvit Bhutani</i>	

32. Ultrasonography in Ophthalmology	608
<i>AK Khurana, Neha Adlakha, Aruj K Khurana, Bhawna P Khurana</i>	

33. Ultrasound Biomicroscopy (UBM) in Ophthalmology	640
<i>Hansa Harshad Thakkar</i>	

34. Computed Tomography Scanning in Ophthalmology	656
<i>AK Khurana, Neha Adlakha, Aruj K Khurana, Bhawna P Khurana</i>	

35. Magnetic Resonance Imaging in Ophthalmology	678
<i>Neha Adlakha, AK Khurana, Aruj K Khurana, Bhawna P Khurana</i>	

Section X: Determination of Refractive Errors

36. Clinical Refraction: Determination of the Errors of Refraction	701
<i>AK Khurana, Aruj K Khurana, Bhawna P Khurana</i>	

<i>Index</i>	737
--------------	------------