Contents

SECTION 1: GETTING STARTED

1. Principles of Ophthalmic Ultrasound....3
2. Technique of Evaluation and the Normal Ultrasound....9
3. Imaging Artifacts....19

SECTION 2: VITREORETINAL DISEASES

4. Vitreous Hemorrhage....27
5. Retinal Breaks and Detachment....35
6. Choroidal Detachment....45
7. Subretinal Hemorrhage....53
8. Asteroid Hyalosis....58

SECTION 3: TRAUMA

9. Intraocular Foreign Body....63
10. Trauma....75

SECTION 4: INFECTIONS AND INFLAMMATIONS

11. Endophthalmitis....91
12. Vogt-Koyanagi-Harada Syndrome....101
13. Scleritis and Subretinal Abscess....106
14. Toxocara Granuloma....117
15. Ocular Cysticercosis....119

SECTION 5: TUMORS

16. Ultrasound in Tumors....129
17. Choroidal Melanoma....132
18. Choroidal Hemangioma....152

19. Choroidal Metastases 160
20. Retinoblastoma....167
21. Choroidal Osteoma....178

SECTION 6: CONGENITAL ANOMALIES AND DISORDERS OF THE PEDIATRIC AGE GROUP

22. Coloboma of the Choroid and Optic Disc....185
23. Nanophthalmos....195
24. Persistence of Fetal Vasculature (PFV) 197
25. Retinopathy of Prematurity (ROP)....201
26. Coats' Disease 205

SECTION 7: SURGICAL CONSIDERATIONS

27. Dislocated Intraocular Lens....211
28. Dislocated Lens Matter 214
29. Intraocular Air and Gas....218
30. Silicone Oil....220
31. Scleral Buckle 224
32. B Scan and Axial Biometry....231

SECTION 8: ORBITAL LESIONS

33. Disorders of Extraocular Muscles 239
34. Orbital Cysticercosis 246
35. Orbital Varix....254
36. Dilated Superior Ophthalmic Vein 259
37. Cavernous Hemangioma of the Orbit 265
38. Orbital Lymphangioma 267
39. Orbital Lymphomas 270
40. Lacrimal Gland Tumors 275
41. Idiopathic Orbital Inflammation....279
42. Orbital Abscess and Hematoma....285
43. Ultrasound-guided Fine Needle Aspiration Biopsy (FNAB)....289
44. Orbital Schwannoma....295
45. Rhabdomyosarcoma 298
46. Miscellaneous Orbital Tumors 300

SECTION 9: OPTIC NERVE DISORDERS

47. Optic Nerve Thickening....307
48. Tumors of the Optic Nerve....311
49. Optic Nerve Injury....315
50. Optic Disc Abnormalities....320

SECTION 10: ULTRASOUND BIOMICROSCOPY

51. Ultrasound Biomicroscopy—An Introduction 329
52. Ultrasound Biomicroscopy in Glaucoma 336
53. Ultrasound Biomicroscopy in Anterior Segment Tumors 353
54. Ultrasound Biomicroscopy in Uveitis 372
55. Ultrasound Biomicroscopy in Vitreoretinal Conditions 383
56. Ultrasound Biomicroscopy in Trauma and Lens disorders 390

Bibliography *399*
Index *409*