

Contents

Section 1: Corneal Refractive Surgery

1. Refractive Errors of the Eye	2
<i>Grovè JD, David Meyer (South Africa)</i>	
2. Basic Optics of Refractive Surgery	10
<i>Yan Wang, Ming Liu, Kanxing Zhao, Lihua Fang, Feng Rao, Jie Hou (China)</i>	
3. Pathophysiology of Various Refractive Errors Like Myopia, Hyperopia, Astigmatism, Accommodation and Presbyopia	18
<i>Ahmad K Khalil (Egypt)</i>	
4. Orbscan	24
<i>Amar Agarwal, Nilesh Kanjiani, Athiya Agarwal, Sunita Agarwal, Ashok Garg (India)</i>	
5. Photorefractive Keratectomy with Mitomycin C for High Myopia	36
<i>Belquiz A Nassaralla, João J Nassaralla Jr (Brazil)</i>	
6. Photorefractive Keratectomy after Penetrating Keratoplasty	42
<i>Belquiz A Nassaralla, João J Nassaralla Jr (Brazil)</i>	
7. Phototherapeutic Keratectomy on Recurrent Corneal Erosions	46
<i>Belquiz A Nassaralla, João J Nassaralla Jr (Brazil)</i>	
8. Myopic Photorefractive Keratectomy Using Solid State Laser	50
<i>Nikolaos S Tsiklis, George D Kymionis, George A Kounis, Ioannis G Pallikaris (Greece)</i>	
9. Photorefractive Keratectomy for Residual Myopia following Radial Keratotomy	62
<i>Belquiz A Nassaralla, João J Nassaralla Jr (Brazil)</i>	
10. Recent Advances in Photorefractive Keratectomy	70
<i>C Banu Cosar (Turkey)</i>	
11. Painless EpiLASIK	80
<i>Chu Renyuan, Zhou Xingtao, Wu Ying (China)</i>	
12. Wavefront-guided Photorefractive Keratectomy— Today and the Future	86
<i>Weldon W Haw, Edward E Manche (USA)</i>	
13. Presby-EpiLASIK in Pseudophakic Eyes with the Wavelight Allegretto	92
<i>Frederic Hehn (France)</i>	

14. EpiLASIK with Mitomycin C	110
<i>D Ramamurthy, Chitra Ramamurthy (India)</i>	
15. One-shot Epithelium-rhexis: Personal Technique	118
<i>Roberto Pinelli (Italy)</i>	
16. Surface Ablation after Laser In Situ Keratomileusis; Retreatment on the Flap	126
<i>Jeroen JG Beerthuizen (Netherlands)</i>	
17. Wavefront Analysis and its Clinical Significance	130
<i>Yan Wang, Lihua Fang, Boyan Li, Kanxing Zhao (China)</i>	
18. Wavefront LASIK	134
<i>Mark Wevill, Emanuel Rosen (UK)</i>	
19. Aspheric Ablation with Nidek Platform	148
<i>S Bharti (India)</i>	
20. Customized Excimer Laser Treatment Using the Wavelight Allegretto Eye Q Laser	156
<i>Johan A de Lange (South Africa)</i>	
21. Advances EpiLASIK and LASEK	192
<i>Bojan Pajic (Switzerland)</i>	
22. Wavefront Optimize and Astigmatism correction with the Allegretto Excimer Laser	202
<i>Jerome Jean Bovet, Auguste Chiou (Switzerland)</i>	
23. Aberropia: A New Refractive Entity	214
<i>Amar Agarwal, Nilesh Kanjiani, Soosan Jacob, Athiya Agarwal, Sunita Agarwal, Tahira Agarwal, Ashok Garg (India)</i>	
24. Topographic and Aberrometer Guided Laser	226
<i>Amar Agarwal, Sunita Agarwal, Athiya Agarwal, Ashok Garg (India)</i>	
25. Refractive Change after RK	236
<i>Frank Jozef Goes (Belgium)</i>	
26. LASIK Complications and Management	242
<i>Yan Wang, Wenxiu Lu, Kanxing Zhao, Jinling Yu, Jianmin Gao (China)</i>	
27. Cross-linking Plus Topography-guided PRK for Post-LASIK Ectasia Management	258
<i>A John Kanellopoulos (Greece)</i>	
28. PRK for Low to Moderate Myopia	270
<i>Michael O' Keefe, Caitriona Kirwan (Ireland)</i>	
29. LASEK Procedure with the Use of Mitomycin C	276
<i>Iwona Liberek, Justyna Izdebska (Poland)</i>	
30. Transepithelial Cross-linking for the Treatment of Keratoconus	286
<i>Roberto Pinelli, E Milani (Italy)</i>	
31. Sub Bowman's Keratomileusis: Combining the Best of PRK and LASIK for Optimal Outcomes	292
<i>Daniel S Durrie (USA)</i>	

32. cTEN™- Custom Transepithelial “No-touch, One-step, All-laser” Refractive and Therapeutic Ablations with the iVISTM suite	312
<i>Carlo Francesco Lovisolo, Charles Wm Stewart (Italy)</i>	
33. Astigmatism	330
<i>Frank Jozef Goes (Belgium)</i>	
34. Customized LASIK for Presbyopia: PML™ (Presbiopic Multifocal LASIK Technique)	334
<i>Roberto Pinelli (Italy)</i>	
35. Amblyopia	348
<i>Frank Jozef Goes (Belgium)</i>	
36. Laser Scleral Ablation for True Accommodation for Presbyopia	352
<i>JT Lin (Taiwan)</i>	
37. Solid State Lasers for Refractive Surgery	360
<i>Emanuel Rosen (UK), Tarak Pujara (Australia)</i>	
38. Dry Eye after Refractive Surgery	394
<i>Belquiz A Nassaralla, João J Nassaralla Jr (Brazil)</i>	
39. Corneal Biomechanical Properties	402
<i>Jorge L Alió, Mohamed H Shabayek (Spain)</i>	
40. Future of LASIK Surgery	406
<i>Arun C Gulani, Tracy Schroeder Swartz (USA)</i>	

Section 2: Lenticular Refractive Surgery

41. Refractive Management of Hyperopia	416
<i>Ahmad K Khalil (Egypt)</i>	
42. Restoration of Accommodation by Capsular Bag Refilling	420
<i>Okiihiro Nishi, Kayo Nishi, Yutaro Nishi, Shiao Chang (Japan)</i>	
43. Custom ICLs	430
<i>Carlo Francesco Lovisolo (Italy)</i>	
44. Mini Incision IOL Implantation—Current Scenario	448
<i>Roberto Bellucci, Simonetta Morselli (Italy)</i>	
45. Monofocal HOA Free IOL to Correct Secondary Presby-LASIK	456
<i>Frederic Hehn (France)</i>	
46. Managing Intraoperative Floppy Iris Syndrome	470
<i>David F Chang (USA)</i>	
47. Artisan, Toric Artisan and Artiflex Phakic Intraocular Lenses	478
<i>Johan A de Lange (South Africa)</i>	
48. Orthokeratology	504
<i>Antonio Calossi, Carlo Francesco Lovisolo (Italy)</i>	
49. Aspheric IOLs (Wavefront Based IOLs)	518
<i>Sanjay Chaudhary (India)</i>	

50. Dual Optic Accommodative IOLs	528
<i>GU Auffarth (Germany)</i>	
51. Anterior Chamber Phakic IOL with Angle Fixation	532
<i>Juan C Rocco (Argentina)</i>	
52. Advances in Microphakonit for Refractive Lens Exchange (MIRLEX)—A New Technique	542
<i>Arturo Pérez-Arteaga (Mexico)</i>	
53. Blue Light Filtering Intraocular Lenses	554
<i>Swati Phuljhele, Lalit Alok, Anand Agarwal, Tanuj Dada (India)</i>	
54. Refractive Lens Exchange: Current Perspectives	560
<i>I Howard Fine, Richard S Hoffman, Mark Packer, (USA)</i>	
55. Advances in Optic Designs to Reduce PCO	574
<i>Wolf Buehl, Oliver Findl (Austria)</i>	
 <i>Index</i>	 583