

Contents

SECTION – I : PREOPERATIVE EVALUATION AND INSTRUMENTATION IN MICROPHACO

1. Evolution of Cataract Surgery	3
<i>SK Das (India)</i>	
2. Human Crystalline Lens Anatomy and its Relevance to Microphaco	26
<i>Suresh K Pandey (Australia), David J Apple (USA)</i>	
3. Introduction and Evolution of Microincision Phaco	34
<i>Kirit Mody (India)</i>	
4. Clinical Significance of Bimanual Phaco in Modern Cataract Surgery and its Learning Curve	37
<i>Ranjit H Maniar (India)</i>	
5. Pearls for Transitioning to Bimanual Microincision Phaco	43
<i>David F Chang (USA)</i>	
6. Transition to Microincision Phaco	50
<i>Kumar J Doctor, Mahendra D Dive, Narender Seshadri (India)</i>	
7. Ocular Biometry and Intraocular Lens Power Calculations in Microphaco	69
<i>Arif Adenwala, S Natarajan (India)</i>	
8. Corneal Topography in Phakonit with a 5 mm Optic Rollable IOL	77
<i>Amar Agarwal, Soosan Jacob, Athiya Agarwal, Sunita Agarwal, Ashok Garg (India)</i>	
9. Sterilization	82
<i>Sunita Agarwal (India)</i>	
10. Anesthesia in Microphaco	113
<i>Ashok Garg (India), Francisco J Gutiérrez-Carmona (Spain)</i>	
11. Preoperative Assessment of the Patient in Bimanual Phaco	124
<i>Ashok Garg (India)</i>	
12. Dynamics of Ocular Surgical Adjuncts in Bimanual Phaco	128
<i>Ashok Garg (India)</i>	
13. Bimanual Microincision Phacoemulsification : Instrumentation and Techniques	139
<i>I Howard Fine, Richard S Hoffman, Mark Packer (USA)</i>	
14. Air Pump in Phakonit	147
<i>Amar Agarwal, Sunita Agarwal, Athiya Agarwal, Ashok Garg (India)</i>	
15. Internal Forced Infusion for Phakonit	153
<i>Arturo Pérez - Arteaga (Mexico)</i>	



16. Phakodynamics of Microincision Phako	161
<i>Dipan Desai (India)</i>	
17. Fluidics in Phakonit	169
<i>L Felipe Vejarano, Alberto Vejarano, Alejandro Tello (Colombia)</i>	

SECTION – II : MICROPHACO STEPS AND TECHNIQUES

18. Anterior Capsule Staining During Microphaco	183
<i>Suresh K Pandey (Australia), Liliana Werner, David J Apple (USA)</i>	
19. Dynamics of Temperature Control in Microphaco with New Insulated Phako Tip	193
<i>Dipan Desai (India)</i>	
20. Ultrasmall Incision Intraocular Lenses	196
<i>Suresh K Pandey (Australia), Randall J Olson, Liliana Werner, Nick Mamalis (USA)</i>	
21. Implantation Techniques in Microphaco : Vejarano’s Safe Chop in Phakonit	205
<i>L Felipe Vejarano, Alberto Vejarano, Alejandro Tello (Colombia)</i>	
22. Phakonit	215
<i>Amar Agarwal, Athiya Agarwal, Sunita Agarwal, Ashok Garg (India)</i>	
23. Phakonit with Acri.Tec IOL	228
<i>Sunita Agarwal, Athiya Agarwal, Amar Agarwal, Ashok Garg (India)</i>	
24. Bimanual Microincision Phacoemulsification	236
<i>I Howard Fine, Mark Packer, Richard S Hoffman (USA)</i>	
25. Microincision Cataract Surgery (MICS)	240
<i>Jorge L Alio, Jose-Luis Rodriguez Prats, Ahmed Galal (Spain)</i>	
26. Minimally Invasive Bimanual Phaco Surgery and Foldable IOL	250
<i>Hiroshi Tsuneoka (Japan)</i>	
27. Microphaco : The Aqualase Way	261
<i>Keiki R Mehta, Cyres K Mehta (India)</i>	
28. Lens Salute Microphaco: A Tilt Above	270
<i>Cyres K Mehta, Keiki R Mehta (India)</i>	
29. Microlenses – Sometimes Small is Better	278
<i>Cyres K Mehta, Keiki R Mehta (India)</i>	
30. Microincision Bimanual Phaco and Thin IOL Implantation	287
<i>Matteo Piovella, Fabrizio I Camesasca, Barbara Kusa (Italy)</i>	
31. Laser Phakonit	293
<i>Sunita Agarwal, J Agarwal, T Agarwal, Ashok Garg (India)</i>	
32. Multifocal IOLs and Microincision Cataract Surgery	301
<i>Ashok Grover, Zia Chaudhuri (India)</i>	

33. Microincision Cataract Surgery of Mature Lenses	307
<i>Richard Packard (UK)</i>	
34. MICS Lenses	313
<i>Gilles Lesieur (France)</i>	
35. Three Port Phakectomy	320
<i>Dipan Desai (India)</i>	
36. ThinOptX Rollable IOL	323
<i>Jairo E Hoyos, Melania Cigales, Jairo Hoyos - Chacón (Spain)</i>	
37. Bimanual Nucleus Fracture in MICS Surgery	330
<i>José J Martinez – Toldos, Melania Cigales, Jairo Hoyos – Chacón, Jairo E Hoyos, Ezequiel Campos – Mollo (Spain)</i>	
38. No Irrigating Chopper Phakonit Technique (NIC-Phakonit)	339
<i>Arturo Pérez-Arteaga (Mexico)</i>	
39. Microincision Cataract Surgery (MICS) Combined with Trabeculectomy	346
<i>Tanuj Dada, Rajamani Murlidhar, Harinder Singh Sethi (India)</i>	
40. Ocular Pharmacotherapeutics in Bimanual Phaco	355
<i>Ashok Garg (India)</i>	

**SECTION – III : MICROPHACO IN COMPLICATED CASES
AND MANAGEMENT OF COMPLICATIONS**

41. Bimanual Microincisional Phaco for Complicated Cases	363
<i>David F Chang (USA)</i>	
42. Complications of Phakonit	369
<i>Amar Agarwal, Mahipal S Sachdev (India), Clement K Chan (USA)</i>	
43. Management of Complications in Microphaco	380
<i>Jerome Jean Bovet (Switzerland)</i>	
44. PCO Prevention and Management in Microphaco	385
<i>Frederic Hehn (France)</i>	
45. FAVIT—A Technique for Removing Dropped Nucleus During Phakonit	391
<i>Amar Agarwal, Sunita Agarwal, Athiya Agarwal, Suresh K Pandey (Australia), Clement K Chan (USA), Ashok Garg (India)</i>	
46. Posterior Capsule Opacification (After Cataract) :	
Surgical and Implant Related Factors for Prevention	396
<i>Suresh K Pandey (Australia), David J Apple (USA), John McAvoy, Anthony J Maloof, E John Milverton (Australia)</i>	



- 47. Intraocular Lens Opacification : Clinicopathological Correlation, Prevention and Management 423**
Suresh K Pandey (Australia), Liliana Werner, David J Apple (USA)

**SECTION – IV : RECENT ADVANCES AND
FUTURE PROSPECTS IN MICROPHACO**

- 48. Functional Vision, Wave-front Sensing and Cataract Surgery 441**
Mark Packer, I Howard Fine, Richard S Hoffman (USA)
- 49. NeoSoniX Microphaco : A New Technique 446**
Keiki R Mehta, Cyres K Mehta, (India)
- 50. Sealed Capsule Irrigation Device and Phakonit 453**
*Amar Agarwal (India), Anthony J Maloof (Australia),
Sunita Agarwal, Athiya Agarwal, Ashok Garg (India)*
- 51. Refractive Microincision Cataract Surgery 458**
Pandelis A Papadopoulos (Greece)
- 52. Refractive Lens Exchange in Microphaco 469**
I Howard Fine, Richard S Hoffman, Mark Packer (USA)
- 53. Catarex: Endocapsular Vortex Emulsification for Cataract Removal 475**
Elizabeth A Davis, Richard L Lindstrom (USA)
- 54. Microphaco and Beyond 479**
Yogesh Shah, Gaurav Shah, Susmita Shah (India)
- 55. Catarefractive Surgery : The Next Step to Phakonit 484**
Jerome Jean Bovet (Switzerland)
- 56. Futuristic IOLs for Bimanual Microincision Phaco 490**
I Howard Fine, Richard S Hoffman, Mark Packer (USA)
- Index 493*

Contents of CD-I

1. Bimanual Microincision Phaco of Longstanding Mature Traumatic Cataract
I Howard Fine (USA)

2. Phakonit
Amar Agarwal, Ashok Garg (India)

3. Worst Case Scenario
Amar Agarwal, Ashok Garg (India)

4. Bimanual MICS
David F Chang (USA)

5. Low Ultrasound MICS
Jorge L Alio (Spain)

6. Phakonit with Vejarano's Safe Chop Technique in Mature and Hyper mature Cataracts
Luis Felipe Vejarano (Colombia)

7. NIC Phakonit
Arturo Arteaga (Mexico)

Contents of CD-II

- 1. Bimanual Lens Salute Microphaco: A Tilt Above**
Cyres K Mehta, Keiki R Mehta (India)
- 2. Break the Phaco Barrier**
Jerome Bovet (Switzerland)
- 3. Bimanual Phaco: Trick and Track**
Jerome Bovet (Switzerland)
- 4. Nucleus Bimanual Fracture in MICS Surgery**
Martinez Toldos, Jairo E Hoyos (Spain)
- 5. Microincision Bimanual Phaco Surgery for Medium Hardness Nucleus (Trench Divide and Conquer Method)**
Hiroshi Tsuneoka (Japan)
- 6. Microincision Bimanual Phaco Surgery for Extreme Hardness Nucleus (Crater and Vertical Chop Method)**
Hiroshi Tsuneoka (Japan)
- 7. AcrySof Foldable IOL's Implantation**
Hiroshi Tsuneoka (Japan)
- 8. Microincision Phako: New Tip Design, Irrigating Choppers and Rollable IOLs**
Dipan Desai (India)
- 9. Three Port Phakectomy**
Dipan Desia (India)