

Contents

	Introduction	1
	I. Howard Fine, Jorge Alió, Mark Packer, Richard S. Hoffman, and Peter Allan Karth	
1	The Transition Towards Smaller and Smaller Incisions	5
	James M. Osher and Robert H. Osher	
1.1	Micro-Coaxial Phacoemulsification with Torsional Ultrasound	5
	James M. Osher and Robert H. Osher	
1.2	Transitioning to Bimanual MICS	11
	Rosa Braga-Mele	
1.3	0.7 mm Microincision Cataract Surgery	13
	Jorge L. Alió, Amar Agarwal, and Pawel Klonowski	
2	MICS Instrumentation	25
	Jorge L. Alió, Pawel Klonowski, and Jose L. Rodriguez-Prats	
3	Evolution of Ultrasound Pumps and Fluidics and Ultrasound Power: From Standard Coaxial Towards the Minimal Incision Possible in Cataract Surgery	37
	William J. Fishkind	
4	Coaxial Microincision Cataract Surgery Utilizing Non-Linear Ultrasonic Power: An Alternative to Bimanual Microincision Cataract Surgery	51
	Stephen Lane	
5	Technology Available	57
	Rupert Menapace and Silvio Di Nardo	
5.1	How to Better Use Fluidics with MICS	57
	Rupert Menapace and Silvio Di Nardo	
5.2	How to Use Power Modulation in MICS	69
	Randall J. Olson	
5.3	MICS with Different Platforms	75
	Arturo Pérez-Arteaga	

5.3.1	MICS with the Accurus Surgical System	75
	Arturo Pèrez-Arteaga	
5.3.2	Using the Alcon Infiniti and AMO Signature for MICS	84
	Richard Packard	
5.3.3	Stellaris Vision Enhancement System	89
	Mark Packer, I. Howard Fine, and Richard S. Hoffman	
6	Surgical Technique – How to Perform a Smooth Transition	95
	Mark Packer, Jennifer H. Smith, I. Howard Fine, and Richard S. Hoffman	
6.1	Pupil Dilation and Preoperative Preparation	99
	Mark Packer, I. Howard Fine, and Richard S. Hoffman	
6.2	Incisions	108
	I. Howard Fine, Richard S. Hoffman, and Mark Packer	
6.3	Thermodynamics	117
	Alessandro Franchini, Iacopo Franchini, and Daniele Tognetto	
6.4	Using Ophthalmic Viscosurgical Devices with Smaller Incisions ...	124
	Steve A. Arshinoff	
6.5	Capsulorhexis	133
	Mark Packer, I. Howard Fine, and Richard S. Hoffman	
6.6	Hydrodissection and Hydrodelineation	135
	I. Howard Fine, Richard S. Hoffman, and Mark Packer	
6.7	Biaxial Microincision Cataract Surgery: Techniques and Sample Surgical Parameters	140
	Mark Packer, I. Howard Fine, and Richard S. Hoffman	
6.8	Biaxial Microincision Phacoemulsification: Transition, Techniques, and Advantages	144
	Richard S. Hoffman, I. Howard Fine, and Mark Packer	
6.9	BiMICS vs. CoMICS: Our Actual Technique (Bimanual Micro Cataract Surgery vs. Coaxial Micro Cataract Surgery)	149
	Jerome Bovet	
6.10	Endophthalmitis Prevention	156
	Ayman Naseri and David F. Chang	
7	Biaxial Microincision Phacoemulsification for Difficult and Challenging Cases	163
	I. Howard Fine, Jorge L. Alió, Richard S. Hoffman, and Mark Packer	

7.1	MICS in Special Cases: Incomplete Capsulorhexis	175
	Arturo Pérez-Arteaga	
7.2	MICS in Special Cases (on CD): Vitreous Loss.	187
	Jerome Bovet	
7.3	How to Deal with Very Hard and Intumescent Cataracts	195
	L. Felipe Vejarano	
8	IOL Types and Implantation Techniques	209
8.1	MICS Intraocular Lenses	209
	Jorge L. Alió and Pawel Klonowski	
8.2	Implantation Techniques.	220
	T. Amzallag	
8.3	Special Lenses.	235
8.3.1	Toric Posterior Chamber Intraocular Lenses in Cataract Surgery and Refractive Lens Exchange	235
	Gerd U. Auffarth, Tanja M. Rabsilber, and Miriam Casper	
8.3.2	Special Lenses: MF	244
	Hakan Kaymak and Ulrich Mester	
8.3.3	Special Lenses: Aspheric	249
	Mark Packer, I. Howard Fine, and Richard S. Hoffman	
8.3.4	Intraocular Lenses to Restore and Preserve Vision Following Cataract Surgery	257
	Robert J. Cionni and David Hair	
8.3.5	Microincision Intraocular Lenses: Others.	263
	Richard S. Hoffman, I. Howard Fine, and Mark Packer	
9	Outcomes	277
9.1	Safety: MICS versus Coaxial Phaco.	277
	George H. H. Beiko	
9.2	Control of Corneal Astigmatism and Aberrations	286
	Jorge L. Alió and Bassam El Kady	
9.3	Corneal Endothelium and Other Safety Issues	292
	H. Burkhard Dick	
9.4	Incision Quality in MICS	297
	Bassam El Kady and Jorge L. Alió	