

Contents

1 Pathophysiology of Anterior Knee Pain.....	1
Vicente Sanchis-Alfonso	
2 Pathophysiology of Lateral Patellar Dislocation.....	17
Stefano Zaffagnini, Giovanni Giordano, Danilo Bruni, Giulio Maria Marcheggiani Muccioli, and Maurilio Marcacci	
3 Natural History of Patellofemoral Dislocations	29
Justin J. Gent and Donald C. Fithian	
4 Clinical Presentation of Patellofemoral Disorders.....	35
Ricardo Varatojo	
5 Clinical Examination of the Patellofemoral Patient	41
Jacques Vallotton and Santiago Echeverri	
6 Standard X-Ray Examination: Patellofemoral Disorders	51
David Dejour, P. R. Saggin, X. Meyer, and T. Tavernier	
7 Patellar Height: Which Index?	61
J. Bruderer, E. Servien, and P. Neyret	
8 Stress Radiographs in the Diagnosis of Patellofemoral Instability.....	69
Robert Teitge	
9 Computed Tomography and Arthro-CT Scan in Patellofemoral Disorders	73
P. R. Saggin, David Dejour, X. Meyer, and T. Tavernier	
10 MRI Analysis of Patella Instability Factors	79
Massimo Berruto, Enzo Marinoni, Giuseppe Chirico, Angelo Vanzulli, Eva Usellini, and Bruno Marelli	
11 MRI of the Patellofemoral Articular Cartilage.....	91
Constance R. Chu, Ashley Williams, and Verena M. Schreiber	

12	Patellofemoral Pain Syndrome: The Value of Pinhole and SPECT Scintigraphic Imaging and Quantitative Measurements of Bone Mineral Equivalent Density with Quantitative Computed Tomography.....	99
	Ahmet Turan Aydin, Haluk Özcanlı, Akın Yıldız, and Can Özkaynak	
13	Gait Analysis in Patients with Patellofemoral Disorders	105
	Anastasios D. Georgoulis, Constantina Od. Moraiti, Sofia A. Xergia, and Nicholas Stergiou	
14	Iatrogenic Anterior Knee Pain with Special Emphasis on the Clinical, Radiographical, Histological, Ultrastructural and Biochemical Aspects After Anterior Cruciate Ligament Reconstruction Using Ipsilateral Autografts	111
	Jüri Kartus, Lars Ejerhed, and Tomas Movin	
15	Non-operative Treatment of Patellofemoral Pain: Role of Physical Therapy.....	123
	Andrew D. Lynch, Suzanne Werner, and Lynn Snyder-Mackler	
16	Lateral Release of the Lateral Patellar Retinaculum: Literature Review for Select Patellofemoral Disorders.....	139
	Peter C. Verdonk, Francis Bonte, Fredrik Almqvist, and René Verdonk	
17	Medial Side Patellofemoral Anatomy: Surgical Implications in Patellofemoral Instability	149
	Elizabeth A. Arendt	
18	Arthroscopic Medial Reefing in Acute Patellar Dislocation	153
	Rainer Siebold and Nico Sartory	
19	Medial Reefing in Chronic Potential Patellar Instability	159
	Alfredo Schiavone Panni, Simone Cerciello, Michele Vasso, and Andrea Palombi	
20	Medial Patellofemoral Ligament Reconstruction Indications and Surgical Technique	165
	Justin J. Gent, Brian D. Johnson, and Donald C. Fithian	
21	MPFL Reconstruction: The Adductor Sling Approach	175
	Elizabeth A. Arendt	
22	Importance and Radiographic Identification of the Femoral Insertion in Medial Patellofemoral Ligament Reconstruction	181
	Philip B. Schöttle	

23	MPTL (Medial Patellotibial Ligament) Reconstruction	185
	Maurilio Marcacci, Stefano Zaffagnini, Danilo Bruni, Giulio Maria Marcheggiani Muccioli, Giovanni Giordano, and Pau Golano Alvarez	
24	Distal Realignment: Medialization of Tibial Tuberosity: The Elmslie-Trillat Technique.....	193
	Claudio Zorzi and Vincenzo Condello	
25	Bony Surgery Distal Realignment Surgery for Episodic Patellar Dislocations.....	203
	E. Servien, S. Lustig, and P. Neyret	
26	Trochlear Lengthening Osteotomy with or Without Elevation of the Lateral Trochlear Facet	209
	Roland M. Biedert	
27	Proximal Open Trochleoplasty (Grooveplasty).....	217
	Lars Peterson and Haris S. Vasiliadis	
28	Deepening trochleoplasty for Patellar Instability	225
	David Dejour, Peter Byn, and Paulo R. Saggin	
29	Arthroscopic Deepening Trochleoplasty for Patella Instability.....	233
	Lars Blønd and Philip Schöttle	
30	The Role of Limb Rotational Osteotomy in the Treatment of Patellofemoral Dysfunction	237
	Robert A. Teitge	
31	Long-Term Results After Autologous Chondrocyte Implantation in Cartilage Lesions of the Patellofemoral Joint.....	245
	Lars Peterson and Haris S. Vasiliadis	
32	Novel Nano-composite Multilayered Biomaterial for the Treatment of Patellofemoral Cartilage Lesions	255
	Giuseppe Filardo, Elizaveta Kon, Marco Delcogliano, Giovanni Giordano, Tommaso Bonanzinga, Maurilio Marcacci, and Stefano Zaffagnini	
33	Isolated Patellofemoral Osteoarthritis: Natural History and Clinical Presentation	263
	David Dejour, J. Allain, and SOFCOT	
34	The Nonoperative Treatment of Patellofemoral Arthritis	271
	Ronald Grelsamer and Jenny McConnell	

35	Current Concepts Regarding Tibial Tubercle Osteotomy	275
	John P. Fulkerson	
36	Isolated Patellofemoral Osteoarthritis: Prosthetic Indications	279
	Johan Bellemans and Hilde Vandenuecker	
37	Post-operative Management of Surgeries Aimed at Correcting Patellofemoral Instability: Results of an International Surgeon Survey	287
	Andrew D. Lynch and Lynn Snyder-Mackler	
38	Errors and Complications in Patellofemoral Surgery	297
	Karl Fredrik Almqvist, Pieter Van-Sintjan, Pieter-Jan De Roo, Peter Verdonk, Rene Verdonk, and Elizabeth Arendt	
39	Trochleoplasty for Symptomatic Trochlear Dysplasia in the Skeletally Immature Patient with Review of Fetal Anatomy	307
	Jean-Luc Jouve, Yann Glard and Sébastien Parratte	
40	Patellofemoral Disorders in the Skeletally Immature Patients.....	311
	Vojtech Havlas	
	Dictionary	321
	Index.....	325