

Contents

Part I Editor's Experience

- 1 PCL-Based Multiple Ligament Knee Injuries: What I Have Learned**..... 3
Gregory C. Fanelli

Part II Anatomy and Biomechanics

- 2 Anatomy and Biomechanics of the Cruciate Ligaments and Their Surgical Implications**..... 17
Christopher Kweon, Evan S. Lederman, and Anikar Chhabra
- 3 Anatomy and Biomechanics of the Lateral and Medial Sides of the Knee and the Surgical Implications** 29
Andrew G. Geeslin and Robert F. LaPrade

Part III Diagnosis and Evaluation of the Multiple Ligament Injured

- 4 Initial Assessment in the Acute and Chronic Multiple-Ligament-Injured Knee**..... 51
Christopher Peskun and Daniel B. Whelan
- 5 Classification of Knee Dislocations and the Surgical Implications** 63
Bryon D. Hobby, Daniel C. Wascher, and Robert C. Schenck Jr.
- 6 Instrumented Measurement of the Multiple-Ligament-Injured Knee: Arthrometry, Stress Radiography, Rotationometry, and Computer Navigation**..... 71
Sasha Carsen and Donald Johnson
- 7 MRI Imaging in the Multiple-Ligament-Injured Knee**..... 83
W. James Malone, Faiz I. Syed, and Peter R. Bolos

Part IV Non-Surgical Treatment

- 8 Nonoperative Treatment of the Dislocated Knee** 107
John David Beck, Kaan Irgit, and John T. Riehl

Part V Surgical Treatment of the Multiple Ligament Injured Knee

- 9 Graft Selection in Multiple Ligament Injured Knee Surgery**..... 115
Thomas J. Kremen and David R. McAllister

Part VI Surgical Treatment of the ACL-Based Multiple Ligament Injured Knee

- 10 Surgical Treatment of Combined ACL and Medial-Sided Knee Injuries: Acute and Chronic**..... 131
Michael J. Medvecky

11	Surgical Treatment of Combined ACL and Lateral Side Injuries: Acute and Chronic	147
	Julienne Lippe and Robert A. Arciero	
12	Surgical Treatment of Combined ACL Medial and Lateral Side Injuries: Acute and Chronic	165
	Bradley R. Wasserman and Robin V. West	
13	Revision ACL-Based Multiple Ligament Knee Surgery	177
	Seth A. Cheatham and Darren L. Johnson	
 Part VII Surgical Treatment of the PCL-Based Multiple Ligament Injured Knee		
14	Arthroscopic Primary Cruciate Repair in the Multiligament Injured Knee	193
	Micah Lissy, Christopher J. Dy, Anil S. Ranawat, and Gregory S. DiFelice	
15	Surgical Treatment of Combined PCL/Lateral-Sided Injuries: Acute and Chronic	211
	M. Mustafa Gomberawalla and Jon K. Sekiya	
16	Surgical Treatment of Combined PCL Medial Side Injuries: Acute and Chronic	227
	Jeffrey M. Tuman and Mark D. Miller	
17	Surgical Treatment of Combined PCL Medial and Lateral Side Injuries: Acute and Chronic	239
	James P. Stannard and Hyun Min Mike Kim	
18	ACL, PCL, and Medial-Sided Injuries of the Knee	255
	Bruce A. Levy and Michael J. Stuart	
19	Surgical Management of ACL, PCL, and Lateral-Sided Injuries: Acute and Chronic	267
	Jonathan P. Marsh and Peter B. MacDonald	
20	Surgical Treatment of Combined PCL-ACL Medial and Lateral Side Injuries (Global Laxity): Acute and Chronic	281
	Gregory C. Fanelli	
21	Revision Surgery in the Posterior Cruciate Ligament and Multiple Ligament Injured Knee	303
	Christopher D. Harner and Timothy L. Miller	
 Part VIII Other Considerations		
22	Mechanical Graft Tensioning in Multiple Ligament Knee Surgery	323
	Gregory C. Fanelli	
23	Management of Arterial and Venous Injuries in the Dislocated Knee	331
	John L. Gray and Matt Cindric	
24	Drop Foot After Knee Dislocation: Evaluation and Treatment	343
	Gerard J. Cush, Patrick J. Maloney, and Kaan Irgit	
25	The Role of Osteotomy	355
	Claude T. Moorman III and Katherine J. Coyner	
26	Management of Chronic Tibial Subluxation in the Multiple-Ligament Injured Knee	361
	Travis G. Maak and Thomas L. Wickiewicz	
27	Fracture-dislocations: Evaluation and Treatment	371
	Andrew L. Merritt, Kyle F. Chun, and Christopher J. Wahl	
28	Articular Cartilage Restoration in the Multiple Ligament Injured Knee	387
	Kevin F. Bonner and Carly Rachel Noel	

Contents	xiii
29 Meniscus Transplant in the Multiple Ligament Injured Knee	401
LTC Steven J. Svoboda, Travis C. Burns, Jeffrey R. Giuliani, and LTC Brett D. Owens	
30 Extensor Mechanism Injury in Multiple Ligament Injured Knee	421
Laura Scordino and Thomas M. DeBerardino	
31 Brace Considerations in PCL Instability and the Multiple Ligament Injured Knee	429
Andrew A.R. Lehman and Bruce Williams	
32 Postoperative Rehabilitation of the Multiple Ligament Injured Knee	437
Craig J. Edson and Gregory C. Fanelli	
33 Complications Associated with the Treatment of the Multiple Ligament Injured Knee	443
Toribio T. Natividad and Daniel C. Wascher	
 Part IX Outcomes Data	
34 Results of Treatment of the Multiple-Ligament-Injured Knee	453
Sommer Hammoud, Moira McCarthy, and Robert G. Marx	
 Part X Clinical Case Studies	
35 Selected Case Studies in the Treatment of the Multiple-Ligament-Injured Knee	463
Gregory C. Fanelli	
Index	471



<http://www.springer.com/978-0-387-49287-2>

The Multiple Ligament Injured Knee

A Practical Guide to Management

Fanelli, G.C. (Ed.)

2013, XVII, 478 p., Hardcover

ISBN: 978-0-387-49287-2