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Titolo	Anterior Cruciate Ligament Injuries Throughout the Life Span // edited by Mustafa Karahan, Sachin R. Tapasvi, Annunziato Amendola, Can Doruk Basa, João Espregueira-Mendes, Jonathan D. Hughes
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Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (VII, 375 p. 82 illus., 61 illus. in color.)
Disciplina	616.7
Soggetti	Orthopedics Sports medicine Medical sciences Biomechanics Sports sciences Orthopaedics Sports Medicine Health Sciences Sport Science
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Basic science. Embryology and Histology of the ACL in relation to Transition of structure and function through life -- Genetic basis of ACL injury -- Hormones and ACL -- Biology of ACL injury and repair -- Biomechanics of the Knee in relation to ACL rupture -- Natural history of ACL deficient knee and ACL reconstructed knee -- ACL biomechanics in different ages -- General issues. Physical and Psychosocial characteristics of ACL injury prone groups -- Frequency, causality and accompanying lesions of ACL injuries in regards to the Graft Choices for differing age groups, physical properties and sports -- Pediatric and Early adolescence ACL injuries. History, Physical Examination and Imaging in the Pediatric and Early adolescence ACL injury -- Physiologic and anatomic development of children -- Prevention of ACL injuries in children -- Management of Pediatric ACL injuries -- Revision of pediatric and early adolescent ACL

reconstruction after re-injury -- Risks and complications related to pediatric and early adolescent ACL reconstruction. Adult ACL injuries. Management of Adult ACL injuries -- Management of Accompanying pathologies with ACL rupture -- Primary ACL Reconstruction in Special circumstances -- ACL reconstruction and early arthrosis -- Risks and complications related to ACL reconstruction -- Prevention and management of revision ACL reconstruction. -Female ACL injuries. Characteristics of ACL injury in Females -- Prevention of ACL injuries in Females -- Management of ACL injuries in Females -- High level athletes ACL injuries. Management of ACL injury in certain athletes -- Management of ACL injury and Graft choices for different sport types -- Return to sports after ACL reconstruction in high level athletes -- Prevention of ACL injury in high level athletes -- Risks and complications related to ACL reconstruction in high level athletes -- Young at heart ACL injuries (elderly patients). Management of ACL injuries in the Young at heart (elderly) patients -- Allograft and synthetics for ACL reconstruction -- ACL and osteoarthritis -- Other issues. Peri-operative concerns for ACL reconstruction -- Bleeding and Clotting Control in ACL reconstruction -- Prevention and management of infection in ACL reconstruction.

Sommario/riassunto

This book uniquely addresses anterior cruciate ligament (ACL) injury – one of the leading issues in orthopedic sports medicine – throughout the lifespan, with a focus on differences depending on age and activity levels. It provides readers with fundamental knowledge, such as anatomy histology and biomechanics, as well as with diagnostic criteria specific for each age group and activity level – from pediatrics through adolescents to adults and high-level athletes. Furthermore, international experts present diverse prevention and injury management criteria as well as state-of-the-art surgical techniques based on the expectations of each age and lifestyle group. Designed to be an easy-to-read reference guide, this book presents fundamental concepts in the management of ACL injuries. It appeals to a broad readership ranging from orthopedic surgeons, residents and sports physicians to athletic trainers and all professionals involved in rehabilitation following ACL injuries.
