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Titolo	The ACL handbook : knee biology, mechanics, and treatment // Martha M. Murray, Patrick Vavken, Braden C. Fleming, editors
Pubbl/distr/stampa	New York : , : Springer, , 2013
ISBN	1-4614-0760-5
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (xi, 317 pages) : illustrations (some color)
Collana	Gale eBooks
Disciplina	610 615.81 616.7 617.1027
Soggetti	Anterior cruciate ligament - Wounds and injuries Anterior cruciate ligament - Wounds and injuries - Treatment Anterior Cruciate Ligament - injuries Anterior Cruciate Ligament Reconstruction - methods Orthopedic Procedures - methods Tissue Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	ACL Injury Epidemiology -- History of ACL Treatment and Current Gold Standard of Care.- ACL Clinical Outcomes -- ACL Treatment in the Skeletally Immature Patient -- The Biology of the Normal ACL -- The Role of Inflammation and Blood Cells in Wound Healing -- The ACL Response to Injury -- The Biology of Impaired Healing of Joint Issues -- Translational Medicine -- In Vitro Models of ACL Injury -- In Vivo Models of ACL Injury (Central Defect, Porcine, Ovine, Canine) -- Tissue Engineering of Ligaments and Tendons -- Outcome Assessment for ACL Tissue Engineering -- Scaffolds and Biologic Additives for ACL Surgery -- Use of Biologics to Treat Partial ACL Tears -- Can We Get a Complete ACL Tear to Heal? -- The Effects of Platelets and Their Concentration on ACL Healing -- The Effects of WBCs and RBCs on Ligament Healing -- Safety of the Bioenhanced Repair -- Re-Innervation and Revascularization in Engineered ACL Healing -- Bio-enhancement of ACL Graft Healing -- The Effects of Age and Skeletal

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## Maturity on Healing of the Anterior Cruciate Ligament.

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### Sommario/riassunto

ACL injuries affect the lives of hundreds of thousands of people each year. Treatment is far from perfect, and physicians and patients face challenges such as high failure rates in adolescent athletes and the inability to slow the accelerated progression of arthritis after an ACL rupture, for example. The ACL Handbook takes a complete view of ACL injuries and treatments, discussing: - Normal ACL and knee mechanics - The body's response to ACL injury - Development of new treatment methods Ideal for orthopedists, sports medicine physicians, and physical therapists, The ACL Handbook is a unique resource for information on the basic and applied science of ACL injury, repair, and the future of treatment.

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