

Understanding and Preventing Noncontact ACL Injuries

With more than 200,000 athletes each year sustaining noncontact injury to the anterior cruciate ligament (ACL) of the knee, there is finally an up-to-date reference for professionals whose work involves developing and implementing programs to prevent such injuries. *Understanding and Preventing Noncontact ACL Injuries* provides an authoritative description of the biomechanical, clinical, and injury factors pertinent to the athletes—primarily girls and young women—who experience this problem.

To help readers understand how to develop targeted interventions, the book uses a preventive rather than strictly clinical approach to ACL injuries. It provides a thorough description of the current problem on an international scale, the rationale for developing prevention programs, the discrete risk factors affecting noncontact ACL injuries, and an analysis of current research data.

Understanding and Preventing Noncontact ACL Injuries will help readers

- clearly understand the incidence, cost, and need to quantify risk factors related to the onset of noncontact ACL injuries;
- compare the results of different prevention programs and learn why prevention programs should be implemented—especially among young women—to reduce the potential for injury;
- understand the interplay between biomechanical and neuromuscular risk factors and the work needed to control the incidence of noncontact ACL injury in the future; and
- identify the most effective prevention programs and become aware of the role hormones, bracing, and biofeedback play.

Understanding and Preventing Noncontact ACL Injuries serves as a valuable reference for physicians, medical professionals, coaches, and athletes.

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Human Kinetics

Understanding And Preventing Noncontact Acl Injuries

Robin West, Brandon Bryant



Understanding And Preventing Noncontact Acl Injuries:

Understanding and Preventing Noncontact ACL Injuries Timothy E. Hewett, Sandra J. Shultz, Letha Y. Griffin, 2014-07-01 With more than 200 000 athletes each year suffering injury to the anterior cruciate ligament ACL of the knee *Understanding and Preventing Noncontact ACL Injuries* provides an authoritative description of the biomechanical clinical and injury factors pertinent to the athletes primarily girls and young women who experience this problem **Understanding and Preventing Noncontact ACL Injuries**, Grade level 11 12 is t **Preventing Noncontact ACL Injuries** Kinetics Human, 2018

Prevention of Noncontact ACL Injuries Letha Y. Griffin, 2001 This important work will help you understand the epidemiology of noncontact ACL injuries risk factors for injuries the at risk athlete neuromuscular prevention programs their influence on injury rates Supported by the American Orthopaedic Society for Sports Medicine the National Athletic Trainers Association Research and Education Foundation the National Collegiate Athletic Association and the Orthopaedic Research and Education Foundation **Handbook of Sports Medicine and Science** Roald Bahr, Lars Engebretsen, 2011-08-24 This volume in the Handbook of Sports Medicine and Science series is a practical guide on the prevention of sports injuries It covers all Olympic sports plus additional sport activities with international competition such as rugby Focusing on reducing the potential for injuries the book is organised by regions of the body There are also chapters on the importance of injury prevention and developing an injury prevention program within a team The authors identify the risk factors for specific injuries in each sport typical injury mechanisms and risks associated with training *The ACL Solution* Robert G. Marx, Grethe Myklebust, 2012-06-19 In *The ACL Solution* you ll find close to 50 ACL specific exercises designed by Dr Myklebust a physical therapist for the Norwegian national women s handball soccer and volleyball teams and a world renowned expert on the science of ACL injury prevention You ll learn how to better balance your body and strengthen the muscles around your knee to provide greater stability and endurance Whether you re the parent of active children a promising young athlete a coach or a 40 year old who lives for his or her weekly basketball league this book is a must read *The ACL Solution* Features The Prevention Program the center of this book describes and illustrates the exercises that prevent ACL injuries A FAQ section containing commonly asked questions by people who have had recent ACL tears An anatomy section that describes the anatomy of the knee **ACL Injuries in Female Athletes** Robin West, Brandon Bryant, 2018-12-07 This easy to read reference presents a succinct overview of clinically focused topics covering the prevention treatment and rehabilitation of ACL injuries in the female athlete Written by two professional team physicians it provides practical focused information for orthopaedic and sports medicine surgeons and physicians Covers ACL injury risk factors and prevention including biomechanics biology and anatomy of the female athlete Discusses graft choices the biology of healing rehabilitation and return to play future options for treatment and more Addresses special considerations such as pediatric ACL and revision ACL Consolidates today s available information and experience in this timely area into one

convenient resource **The 5-minute Clinical Consult 2012** Frank J. Domino, Robert A. Baldor, 2011-04-01 Handbook concisely presents extensive clinically relevant information It is divided into sections alphabetized table of contents health maintenance schedules algorithmic flowcharts for diagnosis and treatment and summaries for over 900 conditions Summaries comprise basics diagnosis treatment ongoing care including complications and patient education references readings codes and clinical pearls *Paediatric Biomechanics and Motor Control* Mark De Ste Croix, Thomas Korff, 2013-03-01 Paediatric Biomechanics and Motor Control brings together the very latest developmental research using biomechanical measurement and analysis techniques and is the first book to focus on biomechanical aspects of child development The book is divided into four main sections the biological changes in children developmental changes in muscular force production developmental changes in the biomechanics of postural control and fundamental motor skills and finally the applications of research into paediatric biomechanics and motor control in selected clinical populations Written by a team of leading experts in paediatric exercise science biomechanics and motor control from the UK the US Australia and Europe the book is designed to highlight the key implications of this work for scientists educators and clinicians Each chapter is preceded by a short overview of the relevant theoretical concepts and concludes with a summary of the practical and clinical applications in relation to the existing literature on the topic This book is important reading for any sport or exercise scientist health scientist physical therapist sports coach or clinician with an interest in child development or health *The Anterior Cruciate Ligament: Reconstruction and Basic Science E-Book* Chadwick Prodrornos, 2017-05-31 The Anterior Cruciate Ligament Reconstruction and Basic Science 2nd Edition by Dr Chadwick Prodrornos provides the expert guidance you need to effectively select the right procedure and equipment prevent complications and improve outcomes for every patient Written and edited by world leaders in hamstring allograft and bone patellar tendon bone BTB ACL reconstruction this revised reference is a must have resource for the full range of anterior cruciate ligament reconstruction techniques plus fixation devices rehabilitation revision ACLR surgery and much more Covers the latest clinical and technical information on pain control genetics and biologics the use of ultrasound and much more EBook access features an exhaustive ACL bibliography database more than 5000 available articles Features dozens of new chapters that offer up to date information on pain control after ACLR single vs double bundle repairs genetics and collagen type all inside techniques biologics pediatrics ACL ganglion cysts prognosis for ACLR success allografts vs autografts and more Provides the experience and insight of a dream team of ACL experts including James Andrews on sports medicine Frank Noyes on HTO and ACLR and Andrew Amis on the benefits of the older femoral tunnel placement technique Expert Consult™ eBook version included with purchase This enhanced eBook experience allows you to search all of the text figures Q As and references from the book on a variety of devices

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