



METADATA

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Abstract

The knee joint is a particularly complicated area, and it presents the most frequent pathology than any other area of the musculoskeletal system. The pathology of the knee concerns both a younger population that engages in sports activities, as well as an older population that presents degenerative changes of the type of osteoarthritis in their knee. In fact, knee osteoarthritis surgeries are the most common types of surgical procedures in the population of the elderly, that is people over 65 years of age. The pathology of the knee is directly related to the particularities of the anatomy. The present textbook aims to cover all aspects of the anatomy of the knee in order to provide the young surgeon with detailed anatomical knowledge and knowledge in order to operate safely and confidently in knee surgery. The aim of this textbook is to cover in detail the superficial anatomy of the knee

and the surgical anatomy of the bones, menisci, ligaments and muscles, which are responsible for the movement of the studied joint. The peculiarities of blood supply and innervation of the anatomical structures of particular surgical interest, such as the ligaments and menisci of the knee, will also be presented. In addition, this textbook will deal with the imaging anatomy of the knee in all imaging methods, i.e. simple X-ray, ultrasound, CT and MRI. The arthroscopic anatomy of the knee, the access portals as well as the surgical access of the area depending on the pathology of the joint are also presented. The textbook will also cover the kinematics and biomechanics of the knee with particular emphasis on the patellofemoral joint. Finally, this textbook will deal with the clinical examination and the clinical tests which highlight the various pathological entities of the knee.

