Special Issue

Multicriterial Assessment of Ligament Healing in the Knee Joint

Message from the Guest Editors

At a time of increasing numbers of knee surgeries resulting from damage to its ligaments, it mainly involved the anterior cruciate ligament (ACL). To restore the correct function of the damaged knee joint, most orthopaedists do not confine their efforts solely to the reconstruction of the ruptured ligament structures. They also pay attention to the tissue environments in which the grafts are to be located. Not only is the remaining stump of the natural anterior cruciate ligament gaining significance as a receptor site, but also the condition of the trabecular bone of the thigh and tibia. The quality of these bone areas is directly related to the geometry of the bone tunnels embedded in them.

The durability of the performed reconstructions often depends on the establishment of lateral stability, which can be achieved by repairing anterolateral ligament (ALL), often overlooked in diagnostic examinations. Therefore, we invite the contributions not only from orthopaedists, but also diagnosticians, radiologists, and physiotherapists.

Keywords:

ACL reconstruction lateral tenodesis/stability rehabilitation in the treatment of ACL injuries knee extension deficit bone tunnels trabecular bone

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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