

## Summary and Conclusion .

Anterior cruciate ligament is one of the most important ligament of the knee . It is inserted in the medial aspect of lateral femoral condyle and the intercondylar area of the tibial plateau . The main function of the anterior cruciate ligament is to prevent antero-posterior instability of the knee . Acting as a proprioceptor it controls dynamic stability of this joint .

Anterior cruciate ligament could be injured in many instances especially during sports , either contact or non contact , where a twisting of the leg is common .

Many surgical procedures had been advocated for anterior cruciate ligament injury such as repair , repair with augmentation , extra-articular reconstruction , intra-articular reconstruction , combined procedures and synthetic materials which act as a:

- \* *Permanent prosthetic ligament as Gore-Tex , Proflex , Dacron and the Zenotech synthetic ligament .*
- \* *Temporary protection or augmentation of the autogenous graft as the Kennedy Ligament Augmentation Device .*

*\*Scaffold or stimulator of collagen production as Carbon fibers , Polyester , Leeds-Keio ligament , ABC Carbon and Polyester ligament , Carbon and Dacron composite .*

No enough long term studies of the currently used artificial ligaments are available to justify their routine use . At present it is prudent to use them cautiously and to reserve them for salvage procedures when autogenous grafting and reconstructive procedures have failed .