Journal of Medical Implants & Surgery

Implants that Replace the Cruciate Ligament in Primary Total Knee Arthroplasty

Taketomi Howell*

Department of Otolaryngology, Seoul National University College of Medicine, Japan

Abstract

Total knee arthroplasty is a widely accepted surgical intervention for end-stage knee osteoarthritis. The restoration of knee stability is a crucial goal in achieving successful outcomes post-TKA. Traditionally, the posterior cruciate ligament has been sacrifced during TKA, resulting in altered kinematics and potential instability in the knee joint. Recent advancements have led to the development of implants that aim to replace the cruciate ligament during primary TKA, offering improved functional outcomes and patient satisfaction.

A femoral component, a tibial component, and a polyethylene insert that acts as a cushion between the two components comprise cruciate