

Revision Total Knee Arthroplasty with Femoral Metaphyseal Cone

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This instructional video presents a revision total knee arthroplasty (TKA) utilizing a femoral metaphyseal cone with a ream only system to address substantial distal femoral bone loss. The procedure includes extraction of failed components, debridement of fibrous tissue, and preparation of the femoral canal for cone implantation. A porous tantalum femoral cone is employed to achieve metaphyseal fixation and enhance construct stability. Step-by-step technical guidance is provided on cone sizing, trialing, press-fit implantation, and cementation techniques. Key intraoperative decision points are discussed, including managing alignment, joint line restoration, and achieving balanced flexion-extension gaps. This video is intended for arthroplasty surgeons and trainees seeking advanced strategies in managing femoral bone defects during complex revision TKA with an all reaming metaphyseal femoral cone system.