Immediate Fixation Improves Longterm Stability

Important Considerations When Moving Patients Early

- Reliable fixation strength depends largely on the initial stability of the fixation. Bone–prosthesis micromotion in excess of 50–150 µm will produce fibrocartilage/fibrous tissue formation at bone-implant interface.


- A threaded taper post implant design reduces the bone-implant interface micromotion by ≥ 3X compared to a press-fit stem.

- There is evidence that too much relative motion between the implant and host bone leads to ingrowth of fibrous connective tissue rather than bone. The extent of implant stability contributes to a reduction in relative motion between the implant and host bone.


*Data on file at Arthrosurface
*BMD=Bone Mineral Density