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Price et al 2005: ☐ Oxford meniscal-bearing ☐ Thinnest polyethylene 3.5mm ➤ No degradation in outcome with thinner PE ☐ 93% survival at 15 year in 439 knees
☐ Congruency and resulting decrease in contact stress may obviate need for thicker (> 6mm) inserts → supports surgical principle of minimizing tibial bone cut thickess
Price AJ, Waite JC, Svard U: Longterm clinical results of the medial Oxford unicompartmental knee arthroplasty. Clin Orthop Relat Res 2005;435:171-180.

Results summary: Mobile bearing
☐ Goodfellow99.1% survival at 9 years.
☐ O'Connor0.026mm/year penetration rate.
(A 4mm bearing will take 152 years to wear through!)
☐ Svärd94.6%survival at 10 years.
☐ Swedish knee register89%survival at 6 years. (Results adversely affected by two centres.)
Exceptional results subject to good technique!

Clinical results: Mobile vs Fixed-bearing Emerson et al 2002: Retrospective review, 2 time periods Loosening and revision Oxford mobile bearing 99% survival Robert-Brigham fixed-bearing (J&J) 93% survival Emerson RH Jr. Hansborough T, Reitman RD, Rosenfeldt W, Higgins LL. Comparison of a mobile with a fixed bearing unicompartmental knee implant. Clin Orthop Relat Res 2002:404-62-70.



Clinical results: Mobile vs Fixed-bearing Lewold et al 1995: Swedish multicenter survival study Oxford mobile bearing vs Marmor fixed-bearing 6 year revision rate Oxford more than twice than Marmor Most common: PE dislocation in Oxford (especially early in learning curve) Lewold S, Goodman S, Knutson K, Robertson O, Lidgren L: Oxford meniscal bearing knee versus the Marmor knee in unicompartmental arthroplasty for arthrosis. A Swedish multicenter survival study. J Arthroplasty: 1995;10:722-731.







