Optimize Your Cement TechniqueAseptic loosening is a predominant failure mode in cemented primary knee arthroplasty.^{1, 2}



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1. Schroer, K.R. Berend, Lombardi, Barnes, Bolognesi, M.E. Berend, Ritter, Nunley, (2013) Why Are Total Knees Failing Today? Etiology of Total Knee Revision in 2010 and 2011. J Arthroplasty. 28 Suppl:116-9. Sharkey et al (2014) Why Are Total Knee Arthroplasties Falling Today—Has Anything Changed After 10 Years? J Arthroplasty. 29: 1774–8.

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Meneghini (2018) Tourniquetless TKA...Decreases Pain & Opioid Consumption in Women. J Arthroplasty. Jones (2011) Total knee arthroplasty without the use of a tourniquet. Seminars in Arthroplasty.

Increase Cement Penetration

Meneghini (2019) The Effect of Tourniquet Use and Sterile CO₂, Bone Preparation on Cement Penetration in Primary TKA. J Arthroplasty.

Goldstein (2007) Improvement of cement mantle thickness with pressurized CO₂. ISTA.

Increase Bone-Cement Interface Strength

Stanley (2010) Bone-cement interface strength using two preparation techniques. Hand Surg.

Reduce Opportunity for Micro-Emboli

Lassiter (2010) Intraoperative embolic events with use of pulsatile saline versus CO₂ lavage. ORS.



Bone bed prepared with pulsatile saline lavage. Arrows indicate radiolucent lines.



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