

OraGRAFT[®] Prime



Not All Demineralized Bone Matrices (DBMs) Are Created Equal

How much DBM is actually in your DBM Putty?

Shehadi and Elzein (2017) reported that many commercially available demineralized bone matrices have less than 100% DBM and some may have as little as 24% DBM. Ask your provider how much demineralized bone is actually contained in their 1 cc size of putty.

The osteoinductive potential of a DBM matters

Several studies have concluded that the osteoinductive potential of a DBM is related to the amount of DBM in the matrix. **Boyan et al (2006)**, **Kanim et al (2012)** and **Atti et al (2003)** concluded that osteoinductive potential of DBM is related to the amount of DBM in the matrix.

Carriers can impact the osteoinductive potential of DBMs

Lee et al (2014) stated: "Poloaxmer 407-based hydrogel itself has no toxicity, but it may inhibit the MSC osteoblastic differentiation by filling up the spaces between the DBM powders, which negatively affects the release of growth factors."

Processing matters

Takikawa (2003) "Our results suggest that methods of graft processing may represent a greater source of variability than do differences among individual donors."

Wei L (2013) A study by Wei and others compared the osteoinductive and osteopromotive abilities of two commercially available DFDBAs (from Osteotech and LifeNet Health) using a rat model of femoral and intramuscular defects. LifeNet Health particles displayed increased new bone formation and osteopontin gene expression later in the study than Osteotech particles.

Wang et al (2007) in an athymic rat model compared three different commercially available DBMs with autogenous iliac crest bone as a control. The autogenous iliac crest bone grafted sites were not fused at any of the time points. The authors conclude that differences in osteoinductive potential may stem from differences in DBM processing.

Why choose OraGraft Prime?

100% demineralized moldable fibers with no carrier • Processed in order to optimize osteoinductive potential

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Since 1982, LifeNet Health has helped to save lives, restore health and give hope for thousands of patients each year. It is the world's most trusted provider of transplant solutions, from organ procurement to new innovations in bio-implant technologies and cellular therapies—a leader in the field of regenerative medicine, while always honoring the donors and healthcare professionals that allow the healing process.

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