Cortoss™

Bone Augmentation Material

CORTOSS is the first clinically substantiated alternative to PMMA for vertebral compression fractures.

- CORTOSS™ is an advanced, injectable, synthetic, non-resorbable biomaterial which **mimics the mechanical properties of cortical (weight-bearing) bone.** CORTOSS was developed to provide an ideal bone augmentation solution for treatment of **vertebral compression fractures** (VCFs).
- CORTOSS provides **therapeutic flow and fill** and results in greater success rates for the reduction of short-term pain and better long-term functional outcomes. Based on the 256-patient prospective, randomized, controlled trial comparing CORTOSS to polymethylmethacrylate (PMMA), these rates of success were proven to be statistically significant.
- Compared to the PMMA cohort, the incidence of **adjacent level fracture** was **43% less** in CORTOSS patients with a primary fracture at one level as assessed at 24 months.
- The Cortoss patient group experienced a **74.6%** lower incidence of **re-hospitalization** for spinal fracture versus the PMMA cohort.
- Because CORTOSS is **more hydrophilic than PMMA,** it coats and augments the internal structure of the vertebral body. The more diffuse fill pattern results in a **30% reduction in material injected** when compared to PMMA.
- Unlike PMMA, CORTOSS contains a **bioactive** glass-ceramic component which has been shown to **bond the composite directly to bone** in pre-clinical animal studies. This is in contrast to the intervening fibrous tissue layer that surrounded PMMA in similar animal studies.
- Formulated for safety, CORTOSS **reduces the potential for complications** related to tissue necrosis and volatile monomer release common with PMMA. In addition, superior **radiopacity** ensures that CORTOSS will be readily seen under fluoroscopic visualization.
- The **mix-on-demand** functionality and **start/stop** delivery of CORTOSS gives physicians unparalleled control over the timing of the procedure while the material's consistent viscosity and predictable set time improve the reproducibility of each procedure.

ORTHOVITA®
Architects of the New Biomaterials Age

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