

# X-REAM®

Percutaneous Expandable Reamer

## Get More Out of Your Core Decompression

- Minimally-Invasive
- Optimal Debridement
- Simple Technique

### Extreme Expansion

Debride more through the same hole



"The X-REAM® Expandable Reamer allows me the opportunity to debride more dead, necrotic bone through a small incision."

**Mike Neel, MD**

*St. Jude Children's Research Hospital  
Memphis, TN*

"The X-REAM® tool has been a simple but effective advancement to the standard core decompression. Using the same small incision, I can now debride more of the necrotic lesion with this in situ expandable device."

**Robert Heck, MD**

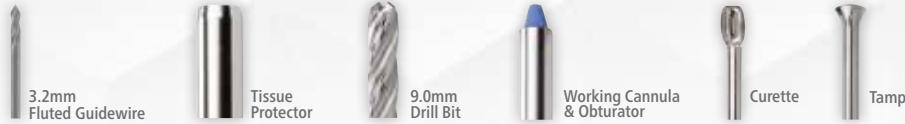
*Campbell Clinic  
Memphis, TN*

 **WRIGHT™**

For greater consistency and reliability, use

# PRO-DENSE®

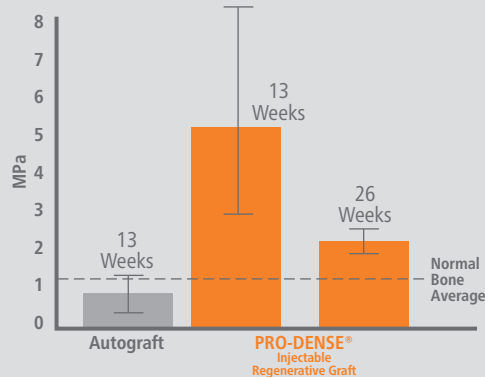
## Core Decompression Procedure Kit



PRO-DENSE® Graft Pre-Clinical Findings:

**Stronger, Faster, and More Dense Bone vs. Autograft.\***

### Stronger New Bone\*



Mechanical properties at 13 and 26 weeks: The PRO-DENSE® regenerate on average demonstrated over six times the compressive strength vs. autograft at 13 weeks, and over three times greater ultimate compressive strength than normal, unoperated bone.

### Faster, Denser Bone Regeneration\*



Histology at 13 weeks: The PRO-DENSE® specimen (right) demonstrated consistently denser and thicker trabeculae vs. autograft (left) at the same time point. Basic fuchsin and toluidine blue, 75x

All claims are based on a critically sized canine proximal humerus defect model.

**\*FASTER THAN AUTOGRAFT:** The accelerated rate of healing of the PRO-DENSE® treated defects compared to those treated with autograft is principally evident by the higher density bone (i.e., 170% average increase in area fraction of new bone compared to autograft at 13 weeks) and superior average mechanical properties at 13 weeks.

**\*DENSER THAN AUTOGRAFT:** Histomorphometry reveals that the amount of newly regenerated bone of the PRO-DENSE® injectable treated defects at 13 weeks demonstrated a statistically significant 170% average increase in new bone formation versus defects treated with autograft. PRO-DENSE® injectable new bone area fraction is on average 170% denser than autograft at 13 weeks.

**\*STRONGER THAN AUTOGRAFT:** The newly regenerated bone in the PRO-DENSE® injectable treated defects exhibited a 645% average increase in compressive strength at 13 weeks versus defects treated with autograft.

**\*STRONGER THAN NORMAL BONE:** At 13 weeks; Urban, et al. CORR, June 2007.

All claims are based on a critically sized canine proximal humerus defect model. It is unknown how results from the canine model compare with clinical results in humans.

### ORDERING INFORMATION

#### X-REAM® Percutaneous Expandable Reamer

1000-KIT2      WRIGHT EXPRESS® Kit  
20BL-1200      X-REAM® Blade

#### PRO-DENSE® Injectable Regenerative Graft

87SR-CK15      PRO-DENSE® Core Decompression Procedure Kit – 15cc  
87SR-0410      PRO-DENSE® Injectable Regenerative Graft – 10cc  
87SR-0420      PRO-DENSE® Injectable Regenerative Graft – 20cc

