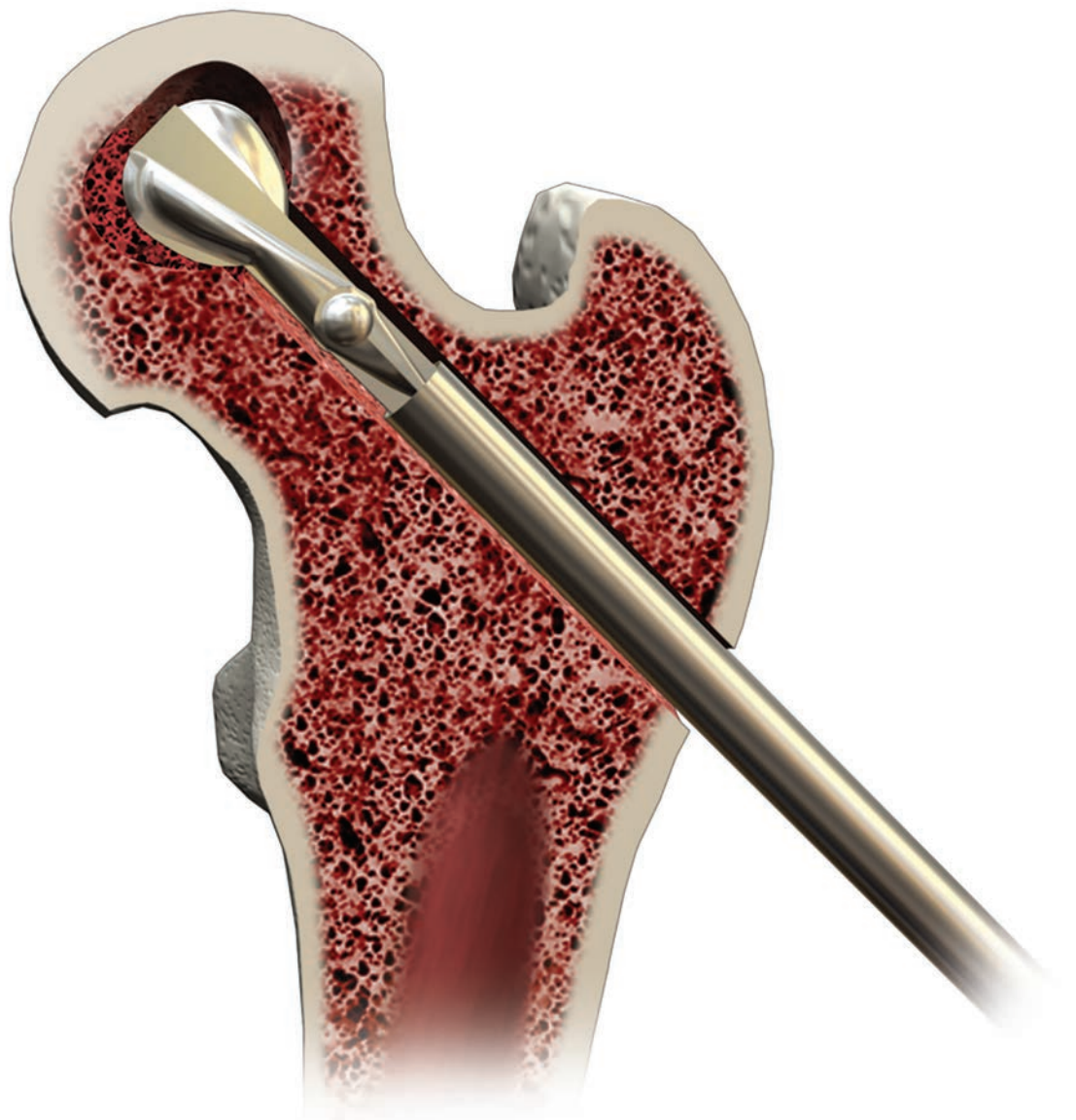


Advanced core decompression

Comprehensive solutions



Advanced core decompression

Instrumentation and grafting

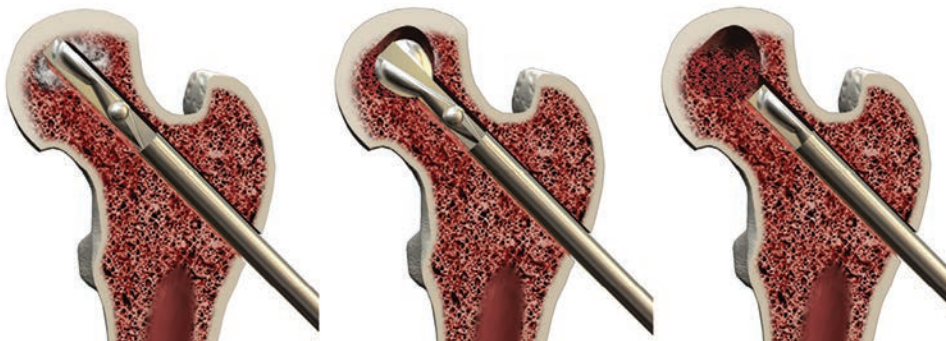
Treatment of avascular necrosis (AVN) of the hip can be a life-altering event, particularly for younger, active patients that may face a prosthetic joint arthroplasty. Core decompressions have been used with success in stage I and II AVN.^{1,2,3,4}

The advanced core decompression system includes the reusable X-Ream Percutaneous Expandable Reamer that allows optimized debridement when used in conjunction with a standard core decompression. The system includes a single-use, disposable instrument kit (sold separately) designed to efficiently facilitate a standard core decompression, and Pro-Dense or Pro-Stim Injectable Graft for backfilling the surgically created defect.

X-Ream

Percutaneous Expandable Reamer

Advanced core decompression: debride more through the same hole with the X-Ream Expandable Reamer



Core decompression kits

Pro-Dense and Pro-Stim

All-inclusive, single-use procedure kits for standard core decompressions



Bone grafting

Synthetic options

Pro-Dense

Injectable Regenerative Graft

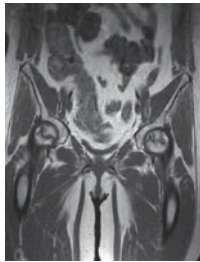
Pro-Dense has a unique triphasic resorption profile that provides an ideal environment for the direct deposition of bone by binding growth factors⁵ and by providing a slow-resorbing matrix that supports healing across the defect.



Predictable bone regeneration

Over 12 years of clinical performance in challenging applications

Osteonecrosis: Bilateral hips | 42-year-old female with idiopathic AVN of both hips (both stage II AVN)



Preop MRI



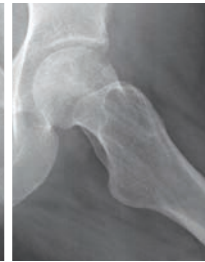
Postop: Right



Postop: Left



1 year postop: Right



1 year postop: Left

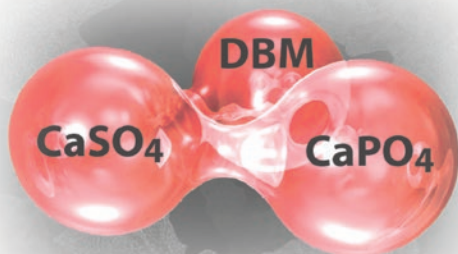
Images courtesy of
Robert Heck, MD
Campbell Clinic,
Memphis, TN

Note: Published data suggests that core decompressions in later stage AVN (Stage IIB, III, or IV) may result in poorer outcomes. Pro-Dense or Pro-Stim Graft should not be used in late stage AVN where the graft may be subject to loading.

Pro-Stim

Injectable Inductive Graft

Pro-Stim is the next step in composite grafting technology. Built on the Pro-Dense graft material platform as a combination of calcium sulfate and calcium phosphate, Pro-Stim graft adds demineralized bone matrix (DBM) for osteoinductive factors to speed the healing and remodeling process.



Sets

Resorbs

Induces bone formation

Ordering information

X-Ream Percutaneous Expandable Reamer

1000-KIT2	X-Ream Percutaneous Expandable Reamer (reusable)
20BL-1200	X-Ream Blade

Core decompression kits

87SR-CDK0	Pro-Dense Core Decompression Kit 15cc
86SR-CDK0	Pro-Stim Core Decompression Kit 15cc

Pro-Dense Injectable Regenerative Graft

87SR-0020	Pro-Dense Injectable Regenerative Graft 2cc
87SR-0050	Pro-Dense Injectable Regenerative Graft 5cc
87SR-0070	Pro-Dense Injectable Regenerative Graft 7cc
87SR-0100	Pro-Dense Injectable Regenerative Graft 10cc
87SR-0120	Pro-Dense Injectable Regenerative Graft 12cc
87SR-0150	Pro-Dense Injectable Regenerative Graft 15cc

Pro-Stim Injectable Inductive Graft

86SR-0020	Pro-Stim Injectable Inductive Graft 2cc
86SR-0050	Pro-Stim Injectable Inductive Graft 5cc
86SR-0070	Pro-Stim Injectable Inductive Graft 7cc
86SR-0100	Pro-Stim Injectable Inductive Graft 10cc
86SR-0120	Pro-Stim Injectable Inductive Graft 12cc
86SR-0150	Pro-Stim Injectable Inductive Graft 15cc

Disposable instrumentation

1200-SYR0	Syringe only kit
PSCL-0000	Extremity procedure kit with targeting guide
84LK-0000	Osteolysis procedure kit

References:

1. Bozic KJ, et al. Survivorship analysis of hips treated with core decompression for nontraumatic osteonecrosis of the femoral head. *J. Bone Joint Surg. Am.* 1999; 81-A(2): 200-209.
2. Lavernia CJ, et al. Core decompression in a traumatic osteonecrosis of the hip. *J. Arthroplasty* 2000; 15(2): 171-178.
3. Simank HG, et al. Comparison of results of core decompression on intertrochanteric osteotomy for nontraumatic osteonecrosis of the femoral head using cox regression and survivorship analysis. *J. Arthroplasty* 2001; 16(6): 790-794.
4. Steinberg ME, et al. Core decompression with bone grafting for osteonecrosis of the femoral head. *Clin. Orthop.* 2001; 386: 71-78.
5. Growth factor binding based on in vitro data of BMP-2 and VEGF Data on file at Stryker.
6. All claims 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.

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