CLINICAL BENEFITS

THE RIA SYSTEM PROVIDES AUTOGRAFT, WHICH IS CONSIDERED THE GOLD STANDARD FOR BETTER CLINICAL OUTCOMES.\(^1,2\)

**OVER 100+ PEER REVIEWED ARTICLES PUBLISHED FOR RIA**

**RIA VS. ILCIAC CREST BONE GRAFT (ICBG)**

- **Higher rates of fusion**: 96.6% RIA vs. 77.8% ICBG
- **More graft**: Up to 90cc of autograft per case, with an incision size as small as 2cm²
- **Lower rates of complications**: 6.0% RIA vs. 19.4% ICBG
- **Lower donor-site mean pain scores**: 73.7% RIA vs. 63.2% ICBG (up to 90cc)

**THE RIA SYSTEM PRODUCED** Mesenchymal stem cells with a statistically significant higher calcium deposition when compared to ICBG.\(^7\) Furthermore, bone grafts obtained from RIA had a greater level of expression of genes associated with vascular, skeletal and hematopoietic tissues.\(^8\)

**RIA VS. STANDARD REAMING**

- **Improved safety profile**: Reduces heterotopic ossification, fat embolization, and thermal necrosis.\(^4,9,10,11,12\)
- **Effective washout**: Allows for effective washout for IM nail exchange procedures and provides an efficient method for the removal of infected bone tissue with one study reporting 0% rate of infection at 6 month follow-up.\(^13\)

DEPUY SYNTHES RIA TECHNOLOGY

REAMER IRRIGATOR ASPIRATOR (RIA)

Proprietary reaming and bone harvesting system designed for extraction of autogenous bone and debridement of infected tissues from femur and other long bones.
ECONOMIC & EFFICIENCY BENEFITS

THE RIA SYSTEM HAD A SHORTER LENGTH OF STAY

Significantly shorter time of harvest

11.2 min reduced vs PICBG, (p<0.005)²

3.8 min reduced vs AICBG, (p<0.005)²

Compared to both posterior and anterior iliac crest bone graft when compared to both posterior and anterior iliac crest bone graft.

RIA HARVESTED AUTOGRAFT MAY REDUCE COSTS

When compared to other osteogenic alternatives such as BMP and cellular allograft.¹⁴

Significantly reduces oral morphine consumption

3.8 min reduced vs PICBG, (p<0.005)

11.2 min reduced vs PICBG, (p<0.005)

from postoperative day (POD) 1 to POD 3 (p<0.02) when compared to ICBG harvest.¹⁵

For a complete list of indications, warnings, and precautions, please refer to the RIA 2 IFU.

References:
8. Sapci HC, Young ML, Gruensterfield A, Einhorn TA, Tornetta P. Qualitative and quantitative differences between bone graft obtained from the medullary canal (with a reamer/irrigator/aspirator) and the iliac crest of the same patient. J Bone Joint Surg Am. 2012; 94(23):2128-2135.
15. Miladore M, Suh J, Ritter C. Early postoperative outcomes of different bone graft harvesting techniques for tibial arthrodesis. Orthopaedic Trauma Association 2015 Annual Meeting; October 7-10, 2015; San Diego, CA, USA.