

Augment[®] Regenerative Solutions





Augment Bone Graft



Augment Injectable

Choosing the appropriate graft for **Hindfoot and Ankle Fusion Surgery**

With the myriad of bone graft options available and continuing to grow, it has become increasingly difficult for surgeons and hospitals to avoid confusion and maintain a clear understanding of the clinical value, specific features, benefits, and appropriate uses of available graft choices.

> Pro-Dense, Osteoset, Vitoss BA, Hydroset

Regulatory pathway and **Categorization** Characteristics clinical burden of proof Examples Augment Pre-market approval (PMA) True biologic: Combination **Regenerative Solutions Recombinant** Proven alternative products with consistent, (rhPDGF-BB/ß-TCP) Safety and efficacy in large highly active signal proteins growth factors to autograft¹ pivotal clinical trial⁵ that drive bone regeneration⁴ InFuse Bone Graft (rhBMP-2/ACS) Osteoconductive and weakly Human tissue products BIO4, Allomatrix, DBX, osteoinductive putties with (361 HCT/Ps) – No proof Trinity Elite, Accell, Osteocel variable handling needed⁶ Plus, Grafton, Osteosponge, Allograft Bone void fillers² Fusionflex, Allograft chips, tissue Cell-containing products Devices containing human femoral head allograft, include various claims of tissue (351 HCT/Ps—more than Allopure wedges

cell viability at point of use

and fills space

1. Combination Growth Factor products composed of biologically active signals that promote chemotaxis, mitogenesis, angiogenesis, and/or osteoinductivity, rigorously reviewed by FDA and proven to be non-inferior to the Gold Standard, autograft in specific approved indications.

minimally manipulated)-510(k)¹¹

2. Void fillers with mineralized or demineralized bone, with or without cryopreserved cells from same donor intended for treatment of musculoskeletal defects

3. Physical scaffolds composed of synthetic materials (e.g. calcium phosphate) intended to be used to fill bone voids.

Synthetics—510(k)⁷

4. Platelet-derived growth factor (rhPDGF-BB) and bone morphogenetic protein-2 (rhBMP-2) have been tested, reviewed and established as alternatives to autograft in multiple clinical studies for specific indications in foot & ankle (rhPDGF-BB only), spine, orthopaedic trauma (rhBMP-2 only) and dental (rhPDGF-BB & rhBMP-2).

5. Multiple clinical trials culminating in a large pivotal trial are typically required to prove that the combination device is both safe and efficacious in the specified indications.

Human tissues designated as 361 HCT/Ps are not regulated as medical devices and do not require a submission and/or review for commercialization. Tissue processors are required to register with FDA and follow Good Tissue Practices (GTP) per 21 CFR 1271.

7. A 510(k) clearance demonstrates that the device is substantially equivalent to a legally marketed device

This guide is intended to offer some perspective on how to better understand the three basic categories of commercially available bone graft products, and to offer a method of applying four simple, overarching questions that will allow you to make better informed purchasing decisions:

What is the evidence?

Augment is the first and only proven alternative to autograft in hindfoot and ankle arthrodesis.

- The role of PDGF in bone repair and regeneration is documented in over 20 peer-reviewed publications including three large-scale randomized, controlled clinical trials involving rhPDGF-BB.
- Level-I clinical data is considered the most reliable quality of data based upon standards for peerreviewed evidence.

Synthetic

scaffolds

Bone void fillers³

stryker

What is the evidence?

- How was it approved?
- How should it be used?
- How does it work?





Augment was approved via the rigorous PMA pathway by the U.S. FDA as a Class III combination medical device/drug product.

• The PMA application was supported by two pilot clinical trials, the largest prospective, randomized, controlled clinical trial in foot and ankle history, and numerous preclinical studies. The PMA supplement for Augment Injectable was supported by two additional randomized, controlled clinical trials.



*FDA did not base its approval of Augment Bone Graft on radiologic findings from the pivotal study, but instead relied on clinical outcomes.

1. DiGiovanni CW, et al., JBJS (2013) 2. Verma, et al., Curr Orthop Pract (2011)

- 3. Hollinger, et al., JOR (2008) 4. Al-Zube, et al., J Orthop Res (2009) 5. Carragee EJ, et al., Spine J (2011)





How should it be used?

Among the criteria for which patients undergoing hindfoot and ankle arthrodesis should receive Augment, the following factors should be

• In the randomized, controlled pivotal trial conducted to support U.S. FDA approval of Augment Bone Graft, 75% of the treated patients had one or more risk factors for nonunion. Augment Bone Graft treated patients were found to have equivalent improvements in clinical outcomes and a better overall safety profile versus autograft (due to the elimination of harvest site pain and morbidity).^{1,**}

• A natural deficiency in PDGF-BB has been found to be correlated with non-union and poor bone formation in clinical and pre-clinical studies involving subjects with diabetes, osteoporosis and smokers.^{2,3,4}

• Unlike growth factors such as the bone morphogenetic proteins (BMPs), which lead solely to osteoblastic differentiation of cells at the implantation site, there are no reported incidences of ectopic bone formation.⁵

1000





Implantation

Following preparation of the bony surfaces, Augment is applied to the fusion site. The rhPDGF-BB releases from the carrier, forming a concentration gradient as it migrates throughout the local environment.



Chemotaxis

(cell movement) Mesenchymal Stem Cells (MSCs) are attracted to the fusion site by the increase concentration of rhPDGF-BB from bleeding bone, muscle and the periosteum.





Mitogenesis

(cell division) MSCs are stimulated to divide and proliferate in the presence of the higher concentration of rhPDGF-BB in the graft site.



Angiogenesis

(blood vessel formation) In parallel with the effects of rhPDGF-BB in the bone formation cascade, the protein also promotes angiogenesis by increasing vascular endothelial cell, pericyte, and smooth muscle responses. Pericytes then synthesize VEGF, thereby enhancing the neovascular drive.



These newly formed blood vessels support the formation of bone by supplying oxygen and nutrients, carrying additional cells and signals to the healing environment, and eliminating local waste.



Completion of the Bone Formation Process

These mature osteoblasts will then lay down new bone to create a continuous scaffold, fusing the bony surfaces.



Morphogenesis

(Cell Transformation) Once the colony of MSCs has divided repeatedly, native bone morphogenetic proteins (BMPs) induce MSCs to mature into osteoblasts.

Competitive summary

| | Augment | Infuse Bone Graft | DBM w/ allogenic cells | DBM | Allograft chips + BMA |
|--|---|---|--|--|--|
| Level I evidence demonstrating safe and effective use as alternative to autograft | \sim | \checkmark | | | |
| FDA approved for hindfoot and ankle fusions | \sim | | | | |
| MOA: Works early in healing cascade to impact multiple tissues involved in clinical healing (more than bone) | \checkmark | | | | |
| Consistent and reliable concentration, composition and activity | \checkmark | \checkmark | | | |
| Easy to administer/apply to surgical site | \sim | \checkmark | | \checkmark | |
| Off-the-shelf (minimal preparation required) | \checkmark | \checkmark | | \checkmark | |
| Regulatory classification | Class III – PMA Required safety and efficacy evidence required | Class III – PMA Required safety and efficacy evidence required | HCT/P (human tissue) for homologous use No safety or efficacy evidence required | 510k clearance No clinical trials HCT/P (Human Tissue) for homologous use No safety or efficacy evidence required | HCT/P (human tissue) for homologous use No safety or efficacy evidence required |

The same powerful protein **rhPDGF-BB**

Augment® Injectable Augment® Bone Graft



- Carrier &-TCP is 70-95% smaller than &-TCP in Augment® Bone Graft
- ß-TCP is paired with collagen matrix to make flowable
- Resorbs and replaced with bone as site heals

- Carrier ß-TCP is an osteomimetic scaffold with long history of orthopedic use
- Resorbs and replaced with bone as site heals

Augment Peer-reviewed Bibliography

Peer-reviewed clinicial evidence

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Tust Augment®

Proven

- Level 1 evidence from largest F&A clinical trial ever conducted
- Equivalent improvements in clinical outcomes, compared to the gold standard autograft¹

Labeled

• Class III combination product labeled for ankle and hindfoot arthrodesis

Unique

- Bioengineered human PDGF-BB stimulates multiple aspects of healing in response to injury
- rhPDGF-BB is highly purified with consistent biological potency; allograft and autograft are highly variable in quality and potency^{2,3,4,5}

Safe

- In commercial use since 2009 (Canada)
- Eliminates risks, morbidities, and costs associated with autograft harvest

1. DiGiovanni, et al. JBJS (2013). 2. Fiedler, et al. J Cell Biochem (2002). 3. Ozaki, et al. J Stem Cells & Dev (2007). 4. Bouletreau, et al. Plast Reconstr Surg (2002).

5. Hollinger, et al. JBJS (2008).





Part no.

K30003010 K30001510 K20003010 K20001510

Augment Injectable Augment Injectable Augment Bone Graft 3.0cc 1.5cc 3.0cc 1.5cc

Description

Augment Bone Graft



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