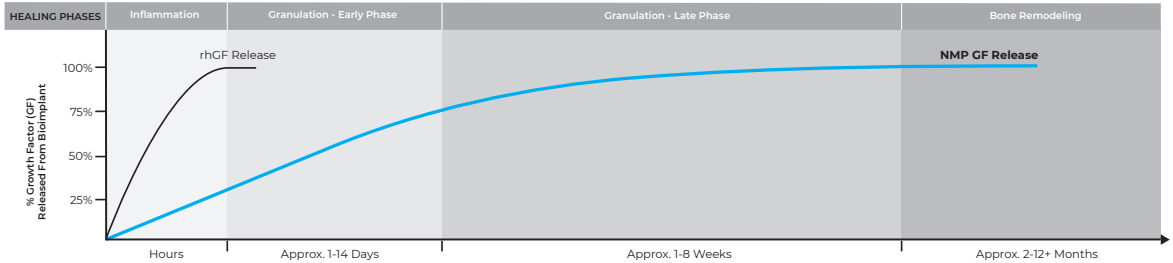
INDUCE XT
NMP® BIOIMPLANT
DEVELOPED FOR FOOT AND ANKLE SURGERY

A Comprehensive Comparison to rhPDGF-BB In Orthopedic Surgery

Features	InduceXT	rhPDGF-BB
Source	Derived from human bone	rhPDGF-BB (made in yeast cells) β-TCP granules (injectable includes bovine collagen)
Indication(s)	Broad Indicated for use as a bone void filler for filling voids and gaps in the skeletal system that are not intrinsic to the stability of the bony structure.[1]	Limited Indicated for use as an alternative to autograft in arthrodesis (i.e., surgical fusion procedures) of the ankle (tibiotalar joint) and/or hindfoot (including subtalar, talonavicular, and calcaneocuboid joints, alone or in combination).[2]
Growth Factors	Multiple Includes BMP-2, BMP-7, TGF-B1, VEGF, and PDGF.[3]	Single rhPDGF-BB
Duration of Activity	Prolonged release Releases growth factors over a period of weeks[4]	Rapid release rh-PDGF-BB released rapidly, with over 90% released within 3 days[5]
Osteoinductive potential	Yes NMP Technology was consistently osteoinductive and produced more bone of a better quality than Infuse™, DBM or the other biologics evaluated in vivo.[3,6]	No rhPDGF-BB is not osteoinductive
Handling, Packability, and Withstanding Irrigation	Moldable putty Maintains shape, conforms to fill bony voids, is packable, and able to withstand irrigation at the fusion site.	Runny paste A paste that does not hold its shape and is susceptible to irrigation. Over packing may impair healing and prevent fusion.
Storage	Store at room temperature[1]	Store at 2-8°C[2] (require refrigeration)
Shelf Life	5-year shelf life[1]	3-year shelf life[2]

Prolonged release vs. Rapid release effect

While bone grafts containing recombinant growth factors (rhPDGF-BB) release their growth factors in a burst, with over 90% released within 3 days, NMP releases growth factors over a prolonged period, lasting into the bone remodeling phase.[4, 5]



CONCLUSIONS

InduceXT Bone Graft from Induce Biologics offers multiple advantages over rhPDGF-BB bone graft. This innovative product offers multiple growth factors including BMP-2, BMP-7, TGF-B1, VEGF, and PDGF. These factors all work synergistically to impact a range of cellular events essential for bone regeneration.[3]

The physical properties of InduceXT enable it to easily conform to and fill bony voids during foot and ankle fusion, offering surgeons the versatility needed in complex reconstructions. It is designed to be packable and able to maintain integrity even under surgical irrigation at the fusion site.

Induce XT is specifically developed to meet the needs of foot and ankle surgeons, providing a shelf-stable graft with broad indications to fill bony voids where autografts are traditionally used.

1. Induce Biologics NMP® IFU. QC-605-F-104. 2. Augment Bone Graft Package Insert https://www.accessdata.fda.gov/cdrh_docs/pdf10/P100006D.pdf (accessed 11 April 2024) 3. Kohen et al. Evaluation of the Natural Matrix Protein (NMP®) bone allograft in vitro and in vivo. MKT-005. 4. Data on file. 5. P100006 SUMMARY OF SAFETY AND EFFECTIVENESS DATA for Augment® Bone Graft available on the FDA website at https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfpma/pma.cfm?id=p100006 accessed April 11 2024) 6. Kohen et al. Evaluation of the Natural Matrix Protein (NMP®) bone allograft in vitro and in vivo. MKT-005.