

**genex**®
Bone Graft Substitute

**PREPARATION**GUIDELINES

# genex®

# Bone Graft Substitute



# Simple to use synthetic absorbable material designed to promote regeneration of bone in osseous defects.

Your choice of synthetic bone graft not only influences the efficiency of each surgical procedure, it has considerable impact on the long-term outcome.

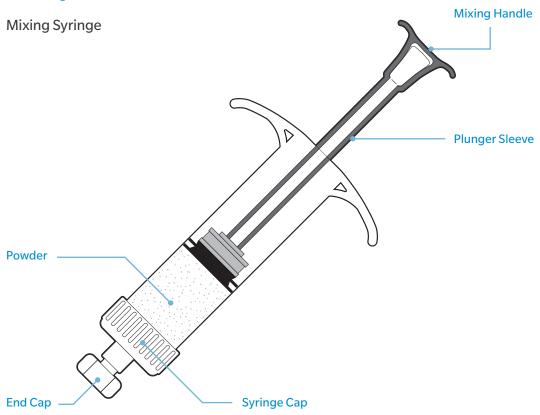
gene**x** is a catalyst for bone healing. It complements the body's natural healing processes, enabling the optimal remodeling of bone architecture to that of native trabecular bone. In 12 months, gene**x** is completely absorbed and remodeled while leaving no foreign artifacts after resorption.<sup>1,2</sup>

1. Yang HL et al. Bone healing response to a synthetic calcium sulfate/B-tricalcium phosphate graft material in a sheep vertebral body defect model. J Biomed Mater Res B Appl Biomater 2012;100B(7):1911–21. • 2. Clinical case study: Mr A Nisar and Mr S Gopal; Proximal femur fracture, Data on file.

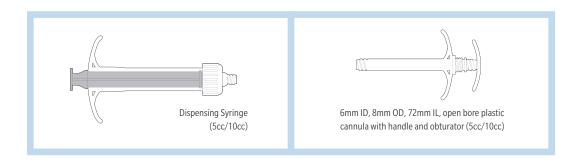
## **Preparation Guidelines**

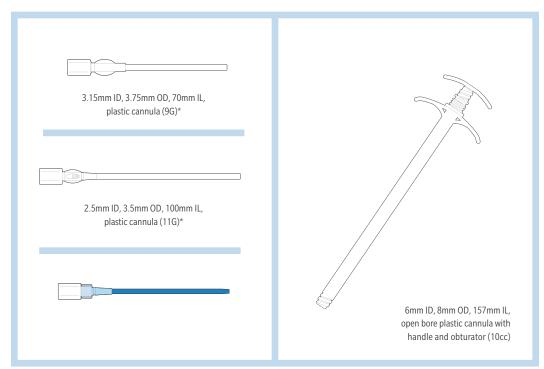
Preparation of gene**x** Bone Graft Substitute takes only a few careful moments. Use only the mixing solution provided. Do not add any additional substances to the paste. All times stated are measured from the start of the timer.

#### **Components**

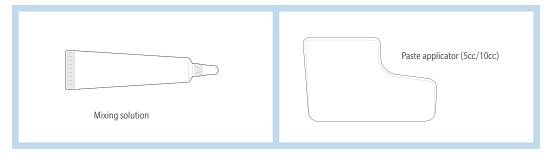


# **Components (cont)**

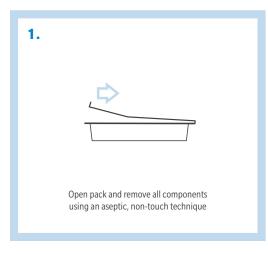




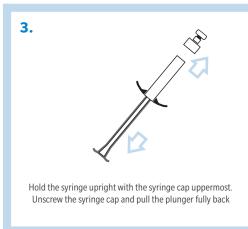
<sup>\*</sup> Cannulas contain removable lure-lock adapters

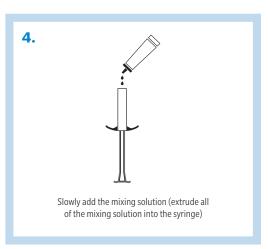


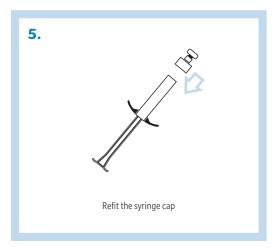
## **Usage Guidelines**

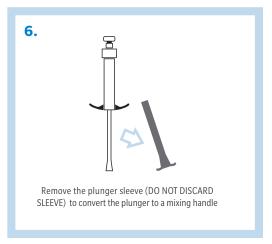


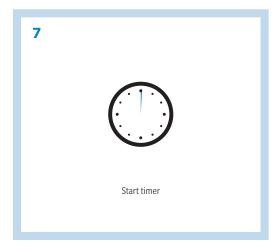


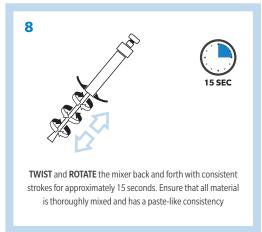


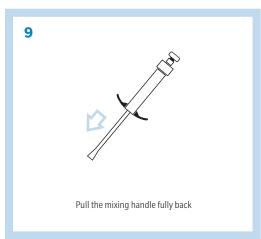


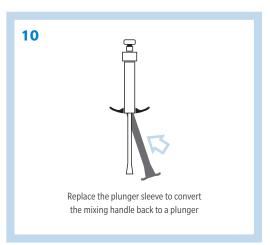


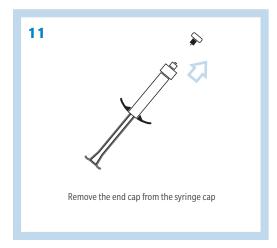


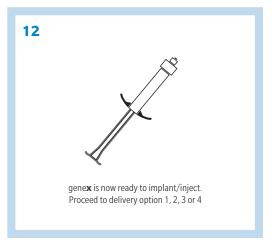






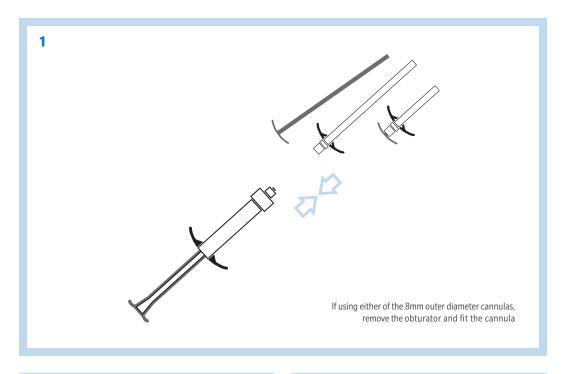


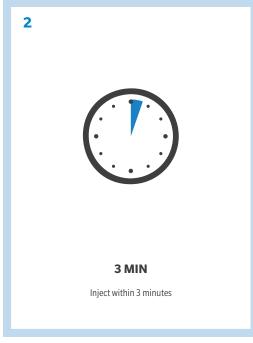


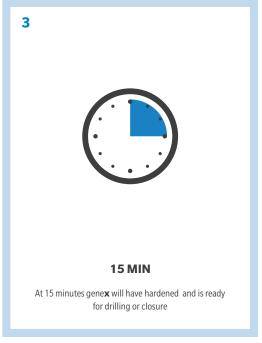


## **Delivery Options**

**OPTION 1.** Injecting using 8mm outer diameter cannula (5cc/10cc)



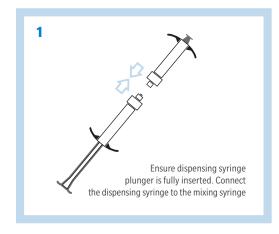


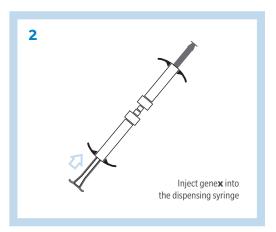


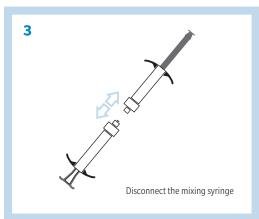
<sup>7 •</sup> gene**x** Bone Graft Substitute

#### **OPTION 2.** Injecting using 9, 11 or 12 gauge cannulas

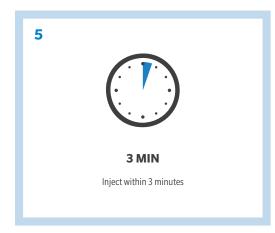
For 3cc select and fit required cannula. For 5cc/10cc follow instructions below











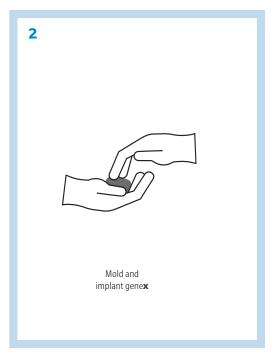


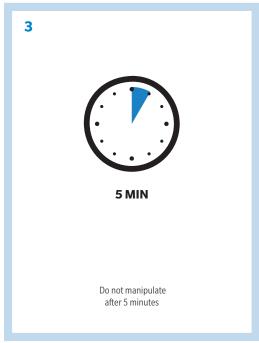
\*Warning: The dispensing syringe has reverse threads and does not have a standard lure-lock connection. Permovable lure-lock adapters can be found on the two clear cannula's in the kit enabling them to properly connect. The radio-opaque cannula is not removable and can connect directly.

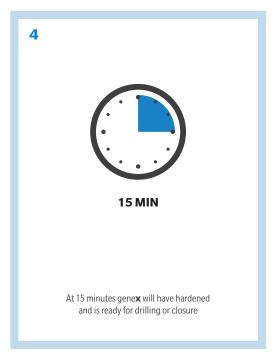
## **Delivery Options**

#### **OPTION 3. Manual implantation**

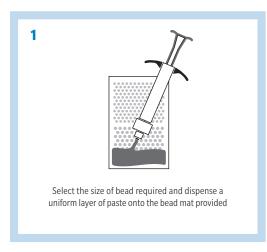


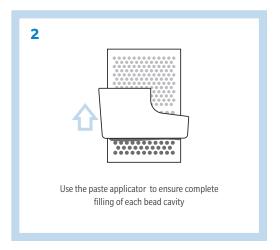


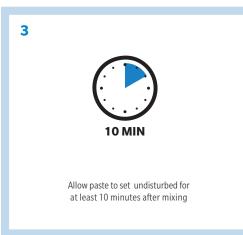


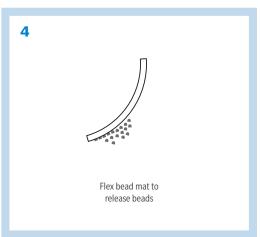


#### **OPTION 4. Implanting beads (5cc/10cc)**









Before implanting the beads, it is recommended that the structural integrity is checked by compressing the bead between thumb and index finger to confirm the bead has set before implantation

#### **SURGEON'S TIPS**

- 1. Use timer during preparation
- 2. If injecting, prepare site prior to commencing gene**x** preparation
- 3. If implanting beads, prepare gene  $\pmb{x}$  in advance of preparing site
- 4. If using an alternative cannula, a 12 gauge is the narrowest gene**x** paste will flow through

All content herein is protected by copyright, trademarks and other intellectual property rights owned by or licensed to Zimmer Biomet or its affiliates unless otherwise indicated, and must not be redistributed, duplicated or disclosed, in whole or in part, without the express written consent of Zimmer Biomet.

This material is intended for health care professionals and the Zimmer Biomet sales force. Distribution to any other recipient is prohibited.

Biocomposite, LTD is the responsible manufacturer of gene  $\mathbf{x}^{\circ}$  Bone Graft Substitute.

For complete product information, including indications, contraindications, warnings, precautions, and potential adverse effects, see the package insert and www.zimmerbiomet.com or contact your local Zimmer Biomet sales representative; for additional product information, visit www.zimmerbiomet.com.

©2022 Zimmer Biomet



