At Biocomposites, we are proud to be driving improved outcomes across a wide range of clinical applications for patients and surgeons. Our team of specialists is singularly focused on the development of innovative calcium compounds for surgical use. With over 30 years’ experience and an unrivaled dedication to quality, the products we research, engineer and manufacture are at the forefront of calcium technology.

**References:**


2. Data on file, Mr A Nissar and Mr S Gopal.

3. Data on file, Mr HK Sharma.

4. Data on file, Prof JB Richardson.


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

genex is a catalyst for bone healing. It complements the body's natural healing processes and encourages normal bone structure to be restored at a steady rate. Over 12 months, the graft matrix is completely absorbed and replaced by bone. No foreign artifacts are left behind to impair structural integrity.

✓ Cleared for bony voids and defects that are not intrinsic to the stability of the bony structure.
*genex* offers successful long-term outcomes across a range of surgical applications, including tibial plateau fractures and long-bone non-unions.

**TIBIAL PLATEAU FRACTURE**

*Patient presented with:* Comminuted Schatzker type II fracture of right leg. X-ray examination revealed 2 large fragments and several small fragments.

*Outcome:* At 15 months’ follow-up the fracture had healed and knee was stable, with a range of motion of 0–130°. *genex* had completely absorbed.

**PROXIMAL FEMUR FRACTURE**

*Patient presented with:* Failed intramedullary nailing of an extracapsular neck of femur fracture. Patient complained of prominent metalwork and pain.

*Outcome:* At 12 months’ follow-up the fracture had healed with complete absorption of *genex*. Patient had a good range of hip motion and was able to walk and manage stairs.

**DISTAL TIBIA NON-UNION**

*Patient presented with:* Healed fibula with a non-union of the distal tibia and a fracture through the nail, 19 months after the initial operation.

*Outcome:* At 10 months’ follow-up the non-union had healed completely, patient had fully recovered and was scheduled to have the intramedullary nail removed.

*Additional information and case studies available on request.*
**Designed to be completely absorbed and leave no trace**

**genex** is a precisely balanced β-tricalcium phosphate/calcium sulfate hemihydrate compound with distinct design properties:

- **✓ Contains no hydroxyapatite (HA)**
- **✓ Negatively charged surface chemistry**

**genex** provides a powerful scaffold for accelerated bone restoration and helps to hinder soft tissue ingrowth:

- **✓ Fully absorbed within 12 months**
- **✓ Enhances osteogenic response**
- **✓ Restores strong healthy bone**

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**Completely absorbed within 12 months**

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*genex* implantation

8 weeks

16 weeks

36 weeks

*Large animal model. Decalcified histology H & E stain.*

*genex* contains no hydroxyapatite. HA can only be absorbed at 1-2% per year.
Enhances the osteogenic response to accelerate bone growth – 5x normal levels

Restores strong healthy bone within a clinically relevant timeframe

*genex* restores bone to normal trabecular structure in 36 weeks
Versatility at your fingertips

*genex* is versatile and easy to prepare. It comes as a paste or putty in a range of volumes. The paste sets within 15 minutes at body temperature, and can be digitally implanted or injected in difficult-to-reach sites or minimally invasive procedures.

A range of surgical applications

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>PASTE VOLUME</th>
<th>SETTING TIMES</th>
<th>ORDER CODES</th>
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<tr>
<td><em>genex</em></td>
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<tr>
<td><em>genex putty</em></td>
<td>2.5cc</td>
<td>Non-setting</td>
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<tr>
<td>Non-setting putty that requires no mixing</td>
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For indications, contraindications, warnings and precautions see Instructions for Use.
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Find out more at biocomposites.com