

STIMULAN[®]

POWER TO TRANSFORM[™]



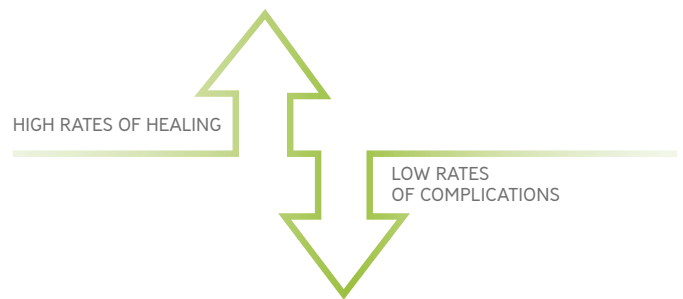
STIMULAN[®]

Perfect partner for cases with an infected site

In contrast to today's growing economic and performance challenges, **STIMULAN** may help improve outcomes and reduce associated costs of care across a wide range of settings.

STIMULAN is a truly absorbable calcium sulfate, specifically designed to complement your dead space management.¹

- ✓ cleared for placement directly at site of infection in bone voids and defects



*Calcium sulfate, uniquely recrystallized
for consistent and reliable performance
in the presence of infection*

STIMULAN can be used in cases with an infected site to fill a bone void or defect created by a cyst, tumor, traumatic injury or osteomyelitis



NON-UNION

INFECTED SUBTROCHANTERIC FRACTURE²

Patient presented with: infected femoral nail and non-union of left femur with persistent discharging wounds proximally and distally.

Outcome: at 7 months follow-up there was complete healing of the non-union and at 1 year patient remains infection free, walking with no pain.



OSTEOMYELITIS

OSTEOMYELITIS CAUSED BY GROUP B STREPTOCOCCUS AND MRSA³

Patient presented with: drainage issues, 1 year after pilon fracture repair and then 2 weeks after hardware removal.

Outcome: 6 months after treatment the patient was fully weight-bearing and without restrictions on activity—with complete absorption of **STIMULAN**.



TRAUMA

BILATERAL HIGH ENERGY FEMORAL FRACTURES⁴

Patient presented with: right open comminuted distal femoral fracture and tibial plateau fracture, and left closed comminuted femoral shaft fracture.

Outcome: complete absorption of **STIMULAN** and healing of the femoral defect after 4 months. At 1 year, patient was fully independently ambulatory with no pain.

STIMULAN[®]

Recrystallized for consistent and reliable performance

STIMULAN is a pharmaceutical-grade calcium sulfate with tightly controlled properties.

- ✓ controlled purity
- ✓ physiologic pH level
- ✓ hydrophilicity

Only STIMULAN undergoes a patented recrystallization process that starts with pharmaceutical-grade reagents and results in its consistent and reliable performance.¹

- ✓ truly absorbable
- ✓ absorbs at an optimal rate
- ✓ no third body damage

Hydrophilic for fast, easy mixing

No soaking required.



STIMULAN—mixes with liquid



Competitor calcium sulfate—repels liquid



Truly absorbable and totally synthetic calcium sulfate—absorbs at an optimal rate¹

Leaves no nidus for infection.



Post-operative



1 month



12 weeks



6 months



15 months

No third body damage to articulating surfaces⁵

Less scratching than competitor calcium sulfate.

Microscope images (x6.5) of a cobalt chrome plate following damage simulation (360,000 cycles) with third body particles trapped between it and an articulating UHMWPE pin



STIMULAN



Competitor calcium sulfate



Control

STIMULAN does not damage total knee replacements when trapped between the articulating surfaces of the implant.

STIMULAN®

Case-by-case flexibility

Can be used in three bead sizes, as a paste or for injection, **STIMULAN** optimizes packing in bone voids and defects. Its hydrophilic properties and options of rapid or standard setting times make it quick and easy to prepare—helping you to adapt to each case as is merited.



Flexible formats to optimize dead space management

PRODUCT	PASTE VOLUME	BEAD VOLUME	SETTING TIMES	ORDER CODES
STIMULAN Rapid Cure Rapid setting paste with individual bead kit	5cc	12cc	Approx. 4 minutes	620-005
	10cc	25cc		620-010
	20cc	50cc		620-020
STIMULAN Kit Standard setting, fully injectable paste with individual bead kit	5cc	10cc	Approx. 8 minutes	600-005
	10cc	20cc		600-010

STIMULAN[®]

POWER TO TRANSFORM[™]

- ✓ Perfect partner for cases with an infected site
- ✓ Recrystallized for consistent and reliable performance
- ✓ Provides case-by-case flexibility

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 25 years' experience and an unrivaled dedication to quality, the products we research, engineer and manufacture are at the forefront of calcium technology.



All Biocomposites' products are engineered, manufactured and shipped from our facilities in Keele, UK.

References: 1. Biocomposites Ltd, STIMULAN US Instructions for use. 2. Data on file, Mr. Sharma. 3. Data on file, Dr. Schlatterer. 4. Data on file, Dr. Webb. 5. Data on file.

For indications, contraindications, warnings and precautions see Instructions for Use. Concurrent use of locally administered antibiotics may affect setting time.

This brochure may include the use of STIMULAN or techniques that go beyond the current clearance/approval granted by the relevant regulatory authority. Please contact your local representative for further information.

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Patents granted: GB2367552, EP I204599 B1, US 6780391, EP 2594231 B1, US 8883063, CN ZL201210466117.X, GB2496710, EP 3058899 B1

Patents pending: GB1502655.2, US I5/040075, CN 201610089710.5, US I5/288328, GB1704688.9