BIBLIOGRAFIA


[9] MacDonald M., Bonneau M.: Clinical experience with capacitively-coupled electric fields. 3rd International Conference on Bioelectromagnetism and 1st Slovenian-Croatian Meeting on Biomedical Engineering, 8–12 October 2000


A technology is innovative when it is able to combine experience and efficacy with ease of use.

The stimulation of endogenous osteogenesis through electric and magnetic fields is a therapeutic option, which is widely accepted, in modern orthopaedics and traumatology. **IGEA has developed the principle of Focused Osteogenetic Signal (SOF)** and has conceived and patented a micro-technology that makes FOS effects even more effective: **OsteoBit**.

Like every piece of technology from IGEA, the efficacy of OsteoBit has been clinically tested without any negative collateral effects. Clinical studies carried out with OsteoBit have pointed out an 89.5% success rate in treating failed consolidations.

OsteoBit is also small and light, easy to use and fully compatible with daily activities.

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**FOS (Focused Osteogenetic Signal)**

The process of mineralization changes the specific electrical characteristics of the repairing tissue. OsteoBit is able to detect and adjust the generated signal, so as to keep constant the value of voltage density (1530 A/cm²) in the fracture site, during the different formation phases of the bone callus.

This exclusive and patented technology ensures the supply of a Focused Osteogenetic Signal for the whole duration of the treatment.

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**Instructions**

Duration of treatment: 10 hours/day till complete recovery. The specific IGEA electrodes must be applied directly onto the skin. OsteoBit can be used in presence of internal synthesis devices.

**Signal:** sinusoidal wave 60 kHz

**Signal duty cycle:** 50 %

**Weight:** 136 gr. (battery included)

**Size:** 100 x 70 x 27 mm

Rechargeable battery: up to 20h of use

Built in compliance with IEC 601-1 and IEC-601-2-10

Electrical safety certified by IMQ

In respect with directives 93/42/EEC and marked CE 0051