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Together in Motion™

CMFV™

BY DONJOY®



Bone Growth Stimulation



BONE GROWTH STIMULATION

THE PRODUCTS



ORDERING INFORMATION

Part Number	Description	Diameter
01-203-0001	OL1000 Dual Coil	N/A
01-211-0002	OL1000 Single Coil, Small	7" (18cm)
01-211-0003	OL1000 Single Coil, Medium	10" (25cm)
01-211-0004	OL1000 Single Coil, Large	12" (30cm)
01-207-0007	Spinalogic	N/A

DJO'S BONE GROWTH STIMULATION PRODUCTS OFFER:

- Full range of sizes to fit all patients
- Ergonomically designed control box
- Louder audible beep signaling operation
- Large LCD icon graphics for better visibility
- Available for casted or noncasted applications
- Casted applications require no cut outs to the cast
- Possibility to utilise with internal or external fixations
- No direct skin contact necessary

DJO'S UNIQUE TECHNOLOGY

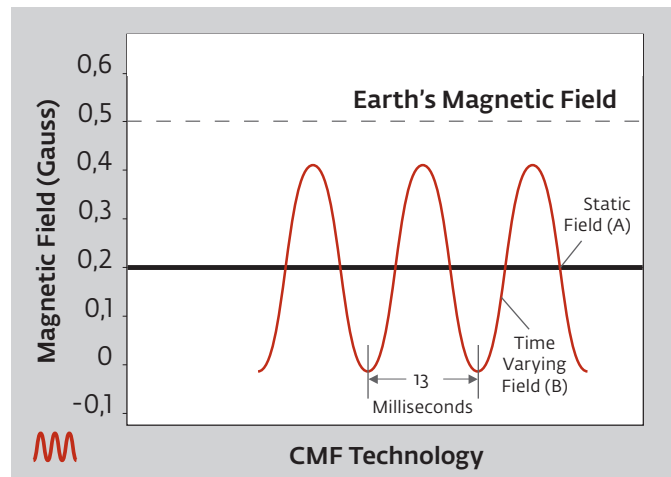
- Only DJO's CMF bone growth stimulators utilise advanced Combined Magnetic Field (CMF) technology (graphic 1), which increases both the specificity and potency of treatment 1,2
- Only CMF bone growth stimulators operate continuously within the optimal range of electromagnetic frequencies for bone growth stimulation 3,4
- Does not diminish when passing through soft tissue
- Provides healing with a 30-minute-a-day treatment
- Patient-friendly for maximum compliance

Optimal Range of Electromagnetic Frequencies for Bone Growth Stimulation

0 – 150 Hz^{3,4}

Frequency of CMF OL1000 Bone Growth Stimulator

76.6 Hz⁵ (constant)



Graphic 1: CMF Waveform combines low energy static magnetic field (A) with a low energy alternating magnetic field (B).

HOW IT WORKS - THE SCIENCE

Studies suggest^{1,2} that CMF:

- Increases osteoblast secretion of IGF-II and IGFBNs
- Increases osteoblastic DNA synthesis
- Increases IGF-II levels in fracture callus cultures

¹ Ryaby, J.T. et al., *Trans. Orthop. Res. Soc.*, 19:518, 1994

² Ryaby, J.T. et al., *The Role of Insulin-like Growth Factor in Magnetic Field Regulation of Bone Formation, Bioelectrochemistry and Bioenergetics*, 35:87-91, 1994

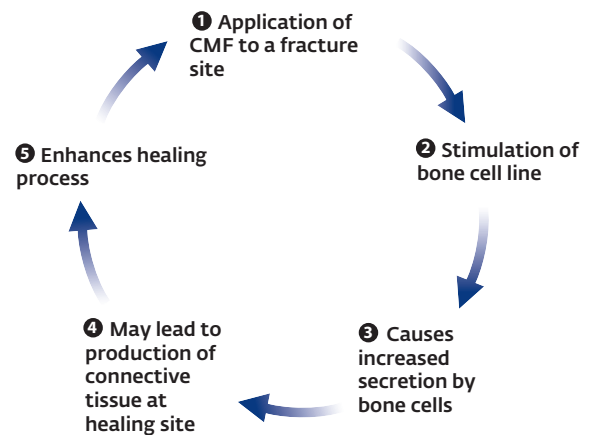
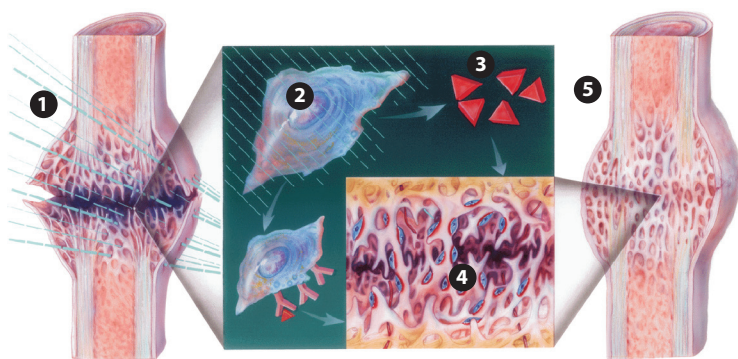
³ McLead, K.J., Rubin, C.T., *The Effect of Low-Frequency Electrical Fields on Osteogenesis. J. Bone Joint Surg.*, 74A:920-929, 1992;

⁴ Buckwalter, J.A., et al., *Orthopaedic Basic Science: Biology and Biomechanics of the Musculoskeletal System, Second Edition. AAOS*, 2000

⁵ Ryaby, J.T. et al., *Biophysical Stimulation of Fracture Healing Mediated by IGF-II*

⁶ Rosch, P.J., Markov, M.S., *Bioelectromagnetic Medicine. Marcel Dekker, New York*, 2004

HOW IT WORKS - THE GROWTH FACTOR MODEL^{5,6}



The CMF used in this study is a scientifically based second generation magnetic field technology that combines a low energy static magnetic field with low energy alternating magnetic field

CLINICAL DATA ON HEALING TIME AND HEALING RATE

CMF OL 1000 Postmarket Patient Registry Data* **			
BY SITE	HEALED # / TOTAL # N/N	OUTCOME RATES	AVERAGE HEAL TIMES (MONTHS)
ANKLE	110/145	75.9%	4.7
CARPAL NAVICULAR	154/218	70.6%	3.9
CARPAL/METACARPAL	35/39	89.7%	5.3
FEMUR	160/250	64.0%	6.4
FIBULA	58/68	85.3%	4.3
HUMERUS	103/180	57.2%	5.5
METATARSAL	408/477	85.5%	3.8
PHALANX (FINGER)	21/24	87.5%	3.4
PHALANX (TOE)	22/29	75.9%	3.7
RADIUS	81/96	84.4%	5.0
RADIUS/ULNA	14/17	82.4%	5.3
TARSAL	51/77	76.6%	4.3
TIBIA	285/372	76.6%	6.2
TIBIA/FIBULA	122/154	79.2%	5.8
ULNA	77/110	70.0%	5.0
TOTAL (POSTMARKET)	1780/2370	75.1%	4.9

DJO collected data on the effectiveness of the OL 1000 stimulator in delayed unions in long bones:

Data Collection: From Dec 1994 until Dec 1998

Total No. of patients: 4100 with delayed unions

Healing criteria: Healing had to be confirmed by a Physician

Treatment: 30 min/day for max 270 days

Results:

Average success rate: 75.1%

Average healing time: 4.9 months

Table 1 shows average success rate and healing time per fracture site

For more detailed information, please contact your local DJO representative

Table 1: Fracture healing rate & healing time per fracture site