

Effect of superpulsed laser irradiation on bone formation in a human osteoblast-like cell line,

MINERVA STOMATOLOGICA 2007; 56;: 27-30
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The low level laser therapy in the management of neurological burning mouth syndrome. A pilot study.

Umberto Romeo, DDS1, Alessandro Del Vecchio, DDS, Mauro Capocci, DDS1, Claudia Maggiore, MD, DDS2, Maurizio Ripari, MD, DDS1
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Studio preliminare, il laser nel trattamento di lesioni in pazienti affetti da epidermolisi bollosa, efficacia antalgica e biostimolante

Ezio Sindici, Paola Mlekuz, Massimo Riso, Tiziana Ruggiero, Renato Pol
CIR Lingotto Dental School, Dipartimento di Scienze Chirurgiche, Reparto di Chirurgia Stomatologica-HCP, Responsabile: Prof. Stefano Carossa

High-Frequency low level diode laser irradiation promotes proliferation and migration of primary cultured human gingival epithelial cells

Kenichiro Ejiri, Akira Aoki, Yoko Yamaguchi, Mitsuhiro Ohshima, Yuichi Izumi

Effetto analgesico e anti-infiammatorio della terapia laser superpulsata dopo estrazione bilaterale di ottavi mandibolari inclusi.

Ruggiero T., Pol R., Riso M., Mela L., Bianchi I. L., Mozzati M., Gassino G. F.
University of Turin, Turin, Italy.

Efficacy of superpulsed low level laser therapy on neurosensory recovery to the inferior alveolar nerve

Pol R., Riso M., Ruggiero T., Dalmaso P., Mozzati M.
University of Turin, Turin, Italy.

Influence of Superpulsed Laser Therapy on Healing Processes Following Tooth Extraction.

PHOTOMEDICINE AND LASER SURGERY 2011; Volume X, N. X, Pp. 1-7
Marco Mozzati, D.D.S., Germana Martinasso, Ph.D., Nadia Cocero, D.D.S., Renato Pol, D.D.S., Marina Maggiora, Ph.D., Giuliana Muzio, Ph.D., and Rosa Angela Canuto, M.D.
University of Turin, Turin, Italy.

Effect of superpulsed low level laser Therapy on Temporomandibular Joint Pain,

CLIN J PAIN 2010; Volume 00, Number 00
Ida Martini, MD, DDS, Maria Rosaria Gatto, PhD, and Giulio Alessandri Bonetti, MD, DDS
Bologna University, Bologna, Italy.

Effect of Low-Level Laser Irradiation on Unresponsive Oral Lichen Planus: Early Preliminary Results in 13 Patients,

PHOTOMEDICINE AND LASER SURGERY 2010; Volume 28, Supplement 2, Pp. S1-S6
Adriana Cafaro, M.D., M.Sc., Gianni Albanese, D.D.S., Paolo G. Arduino, D.D.S., M.Sc., Carbone Mario, M.D., D.D.S., Gianluca Massolini, D.D.S., Marco Mozzati, M.D., D.D.S. and Roberto Brocchettoletti, D.D.S.
University of Turin, Turin, Italy.

The Low-Level Laser Therapy in the management of neurological burning mouth syndrome. A Pilot study,

ANNALI DI STOMATOLOGIA 2010; LIX (1): 14-18
Umberto Romeo, D.D.S., Alessandro Del Vecchio, D.D.S., Mauro Capocci, D.D.S., Claudia Maggiore, M.D., D.D.S. and Maurizio Ripari, M.D., D.D.S.
Sapienza University of Rome, Rome, Italy.

Observation of pain control in patients with bisphosphonate-induced osteonecrosis using Low Level Laser Therapy: preliminary results.

PHOTOMEDICINE AND LASER SURGERY 2010;
Umberto Romeo DDS, Alexandros Galanakis DDS, Christos Marias DDS, Alessandro Del Vecchio DDS, Gianluca Tenore DDS, PhD, Gaspare Palaia DDS, PhD, Paolo Vescovi DDS, PhD and Antonella Polimeni MDS
Sapienza University of Rome, Rome, Italy.

Superpulsed laser irradiation increases osteoblast activity via modulation of bone morphogenetic factors,

LASER IN SURGERY AND MEDICINE 2009 Apr;41(4):298-304.
Silvia Saracino, BSc, Marco Mozzati, DDS, Germana Martinasso, PhD Renato Pol, DMD, Rosa A. Canuto, MD, and Giuliana Muzio, PhD
Department of Experimental Medicine and Oncology, Turin University, Turin, Italy.

Protocollo di impiego laser a infrarosso superpulsato ad alta potenza (H.F.P.L.®) nel trattamento della condropatia femoro - rotulea,

F. Verzini - Federazione Medico Sportiva - Comitato Regionale del Piemonte della FMSI - Atti del Congresso Nazionale: Torino 16 e 17 novembre 2007.

Effect of Low-Level Laser Irradiation on Bisphosphonate-Induced Osteonecrosis of the Jaws: Preliminary Results of a Prospective Study

PHOTOMEDICINE AND LASER SURGERY 2009; Volume 00, Number 00, Pp. 1-6
Matteo Scoletta, D.D.S., Paolo G. Arduino, D.D.S., M.Sc., Lucia Reggio, D.D.S., Paola Dalmaso, M.Sc., and Marco Mozzati, M.D., D.D.S.
- Department of Clinical Physiopathology and Public Health and Microbiology, University of Turin, Turin, Italy.

Superpulsed highpower-laser radiation induces cell proliferation and increased synthesis of the extracellular matrix components in cultured human chondrocytes

J.A. Vega - Departamento de Ciencias Biomédicas, Sección de Anatomía y Embriología Humana, Facultad de Medicina, Universidad San Pablo - CEU, Madrid, Spain

Technical characteristics

Model	LUMIX® C.P.S.®
Technical classification	electromedical equipment - Class I type BF
Commercial classification	devices for laser therapy
Medical device class	IIb (Dir. 93/42/EEC, as amended by Directive 2007/47/EC)
Power supply voltage	100-240V single phase
Network frequency	50-60 Hz
Laser source	Class 4
Burst mode	system for controlling the thermal effect, with adjustable Duty-Cycle 10-100%
Mode	continuous, pulsed, superpulsed and C.P.S.®
Emission mode	more than 9 modes
PW source pulse duration	70 ns
Frequency	0 -100.000 Hz
Red laser guide light 650 nm	real visualization of the area interested from the IR beam
Smart Interface	wide 7" TFT color touch screen display
Energy calculation	according to the preset parameters
Programmable electronic timer	1-99min with digital display
Acoustic and visual signal	end of treatment
Lit and acoustic activation	diode source activation
Built in calibration system	laser power meter
Interlock connection	remote control of the laser emission
Preset Programs	wide database for preset protocols
User's programs	customizable programs
Upgradable	via USB port for system/protocol/video upgrades
Weight	3,5 Kg
Dimensions	210x300x160 mm

CODE	MODEL	C.P.S.® POWER		PW INFRARED	CW INFRARED			CW RED 400 mW
		AVERAGE POWER	PEAK POWER	905nm	810nm	980nm	1064nm Solid YAG	650nm
LCPS5	LUMIX® C.P.S.®	5 W	300 W	•	•		•	•
LCPS6	LUMIX® C.P.S.®	6 W	300 W	•	•		•	•
LCPS701	LUMIX® C.P.S.®	7 W	300 W	•	•	•		•
LCPS702	LUMIX® C.P.S.®	7 W	300 W	•	•			•
LCPS901	LUMIX® C.P.S.®	9 W	300 W	•		•		•
LCPS902	LUMIX® C.P.S.®	9 W	300 W	•			•	•
LCPS12	LUMIX® C.P.S.®	12 W	300 W	•			•	•
LCPS1501	LUMIX® C.P.S.®	15 W	300 W	•	•	•		•
LCPS1502	LUMIX® C.P.S.®	15 W	300 W	•	•		•	•
LCPS17	LUMIX® C.P.S.®	17 W	300 W	•			•	•
LCPS29	LUMIX® C.P.S.®	29 W	300 W	•	•	•	•	•
LCPS31	LUMIX® C.P.S.®	31 W	300 W	•			•	•

standard accessories

Therapeutic handpiece with interchangeable optics
Zoom terminal with focal regulation from 0.5 to 5 cm ² (from 8 to 25 mm)
Safety pedal
Emergency stop
2 Laser safety goggles

reference standards

EN 60601-1
EN 60601-2-22
EN 60601-1-6
EN 60601-1-2

CE Mark: the devices comply with the requirements specified in the Directive 93/42/EEC and its revised versions.

optional accessories

Trolley model "Dinamico"
Device carrying bag
Spherical terminal
Fiber terminal
Lensholder terminal
Conic spacer
Cylindric spacer
Articulated arm with handpiece holder
Wireless Pedal
Inner rechargeable battery (lithium ion) *to be defined at time of order

UnipolSai FISIOLINE® equipment is insured for manufacturer's product liability with UNIPOLSAI.