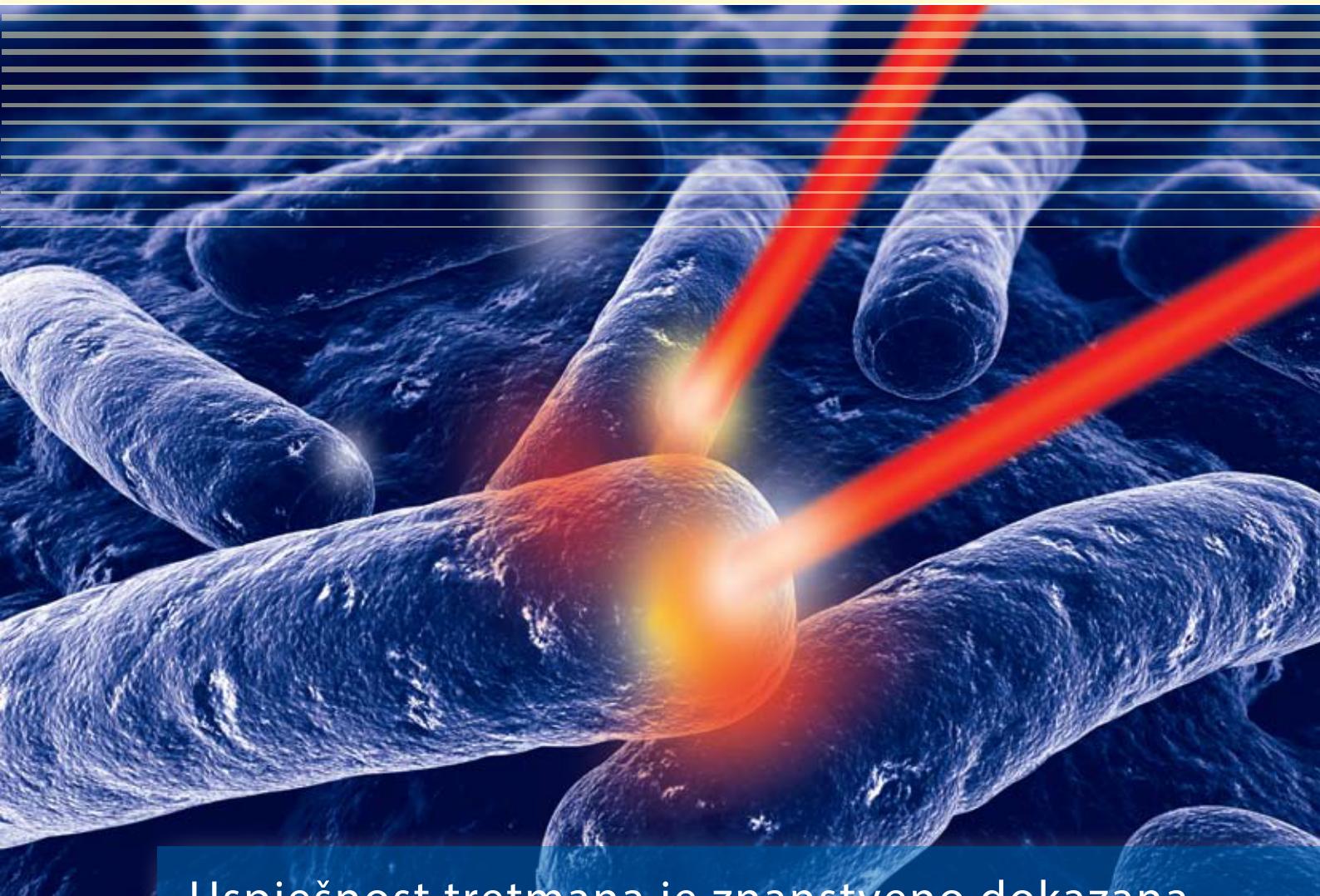




HELBO Tretman

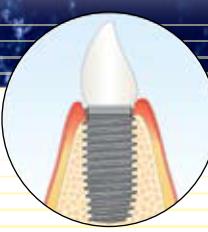
Kontrola infekcije



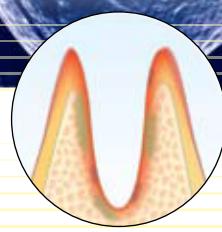
Uspješnost tretmana je znanstveno dokazana



Paradentoza



Paraimplantoza



Infekcija zubnog
mesa i kosti

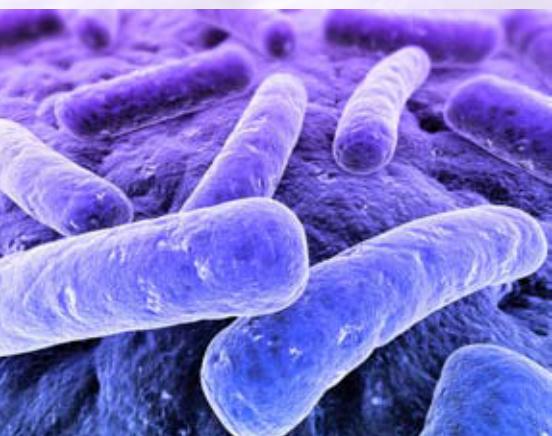


Endodentoza



Karijes

Biofilm - stanište za patogene bakterije



Patogene bakterije su najveći uzročnik neuspjeha u stomatologiji! Ispitivanja su pokazala da biofilm pruža sigurno stanište za bakterije. Fenomen znan kao "Međustanična komunikacija" dopušta bakterijama da komuniciraju jedne s drugima i tako koordiniraju aktivnosti. Proporcionalno starenju biofilma povećava se otpornost bakterija unutar istog.

Mehaničko čišćenje i otoopine za ispiranje nedovoljno dobro uklanaju bakterije unutar biofilma. Čak i jaki antibiotici rijetko pružaju održive rezultate. Između ostalog, moguće su nuspojave kao eventualna interakcija sa ostalim ljekovima te rizik od stvaranja otpornosti na ljek.

Periodentalne patogene bakterije povećavaju rizik od mnogih bolesti:

- Parodontozna i periimplantitis
- Endodontozna
- Karijes
- Alveolarni ostritis - usljed vađenja zuba
- Nekroza kosti - usljed administracije biofosfonata
- Neadekvatno zacijeljivanje popraćeno apikoektomijom
- Rezidualni ostritis (ometano zacijeljivanje implantata)

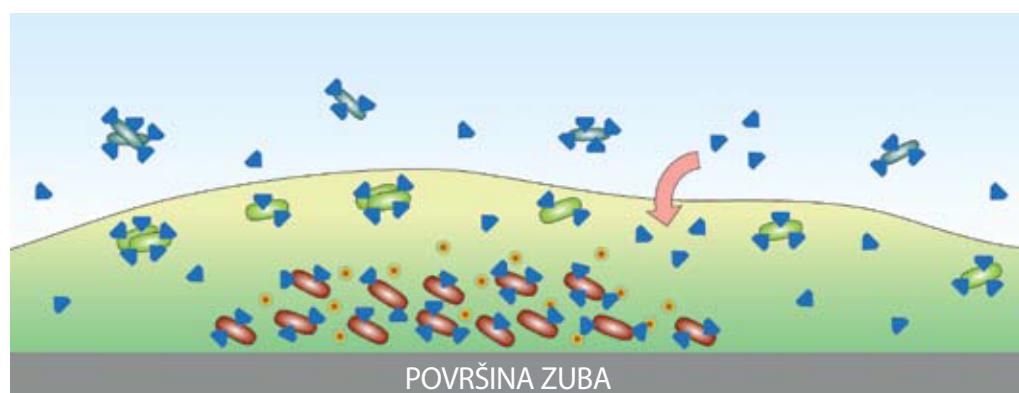


HELBO Tretman — moderan tretman

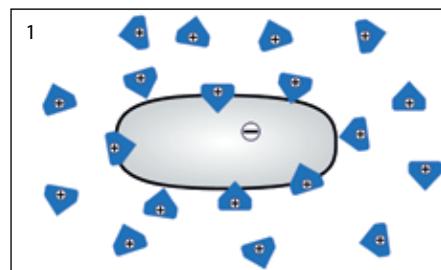
Sa HELBO tretmanom možete brzo pomoći vašim pacijentima sa infekcijama ili preventivno pomoći rani da zacijeli. Svetlo također ubrzava proces zacijeljivanja i dokazano djeluje kao analgetik. Tretman sa lakoćom može biti integriran u već postojeće bredit koncepte liječenja kao što su; "gapeless", "attractive", "in the thick of it" te "regeneration". HELBO tretman može biti dodjeljen adekvatno obućenim asistentima u svrhu smanjenja opsega posla stomatologa.

Singletni kisik uništava patogene bakterije. Predloženi tretman baziran je na označavanju bakterijskog zida fotosenzitivnim molekulama koje se umeću u biofilm iz HELBO®Blue Fotosensitizera. Molekule boje se aktiviraju koristeći laser, tim postupkom se energija prebacuje u okolni kisik. To stvara visoko-agresivni singletni kisik koji uništava 99% bakterija unutar biofilma. Ovako visoka efektivnost bila bi nezamisliva koristeći konvencionalne metode liječenja.

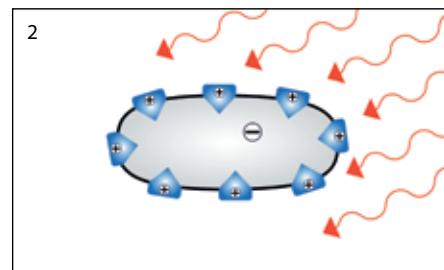
- Planktonske bakterije
- Bakterije koje se aktivno razvijaju u biofilmu
- Tvedokorne bakterije u biofilmu
- △ HELBO®Blue
- Kalup biofilma
- Molekule signala alveolarnog ostritisa



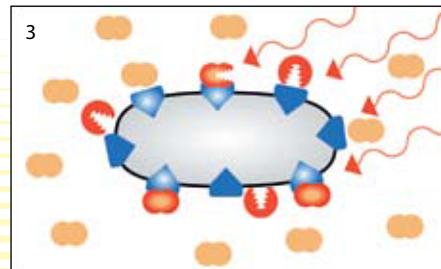
KAKO DJELUJE



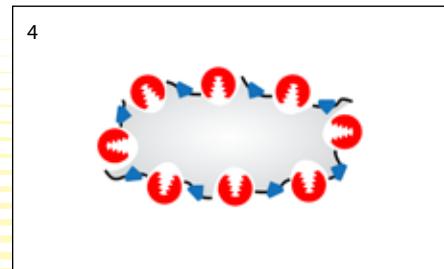
Akumulacija fotosenzitivnih molekula na membranu bakterije



Izlaganje i stimulacija molekula sa HELBO®TheraLite laserom

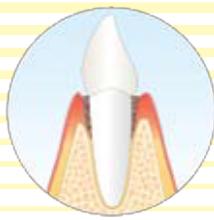


Reakcija sa kisikom; grafika prikazuje agresivnost singletnog kisika

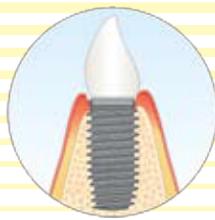


Oštećenje bakterijske membrane; početak uništenja mikroorganizama

Indikacije



Paradontoza

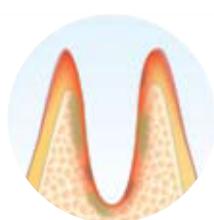


Paraimplantozna

HELBO tretman može se aplicirati u početnom tretmanu ali i kao sredstvo za održavanje. Istraživanja su pokazala da tretman zaustavlja infekciju, pomaže zacijeljivanju te smanjuje dubinu ulaska sonde.



Slika : Dr. Tilman Eberhard, Schwäbisch Gmünd



Alveolarni ostritis



Nekroza kosti

Kontaminirana područja na kostima, zubnom mesu, zubima i površini implantata postaju lagano vidljiva intraoperativnim označavanjem na biofilmu. Označavanje se vrši HELBO fotosintetizerom, a kontaminirana područja eliminiraju se laserskom radijacijom. Rezultati su uspješna regeneracija i zacijeljenje.



Slika: Dr. Jörg Neugebauer, Landsberg a. Lech



Endodentoza



Apikoektomija

Unatoč mehaničkom čišćenju i kemijskoj dezinfekciji koja prethodi zatvaranju, bakterija ostaje unutar kanala. Patogene unutar kanala i oko kosti možemo znatno umanjiti HELBO tretmanom.



Slika : Dr. Matthias Eckl, Frankenthal



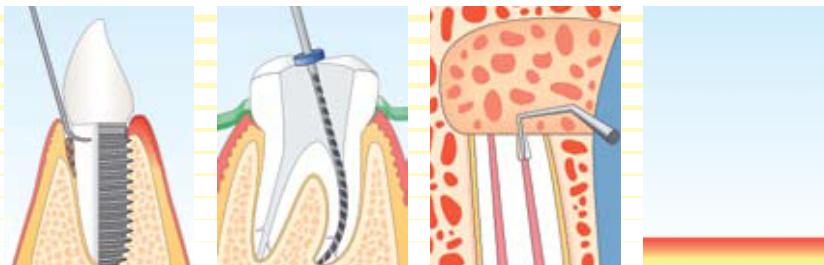
Karijes

Tijekom popravljanja strukturnog karijesa šupljina unutar zuba dekontaminirana je tako da se sužava prema živcu. Na taj način usporava se mogućnost daljnog razvitka - karijesa i sprječava se infekcija. To je velika prednost uz efekt analgetika koji pruža laser, pogotovo u području dječje stomatologije. Također je primjenjiv na slučajeve karijesa u nastanku.



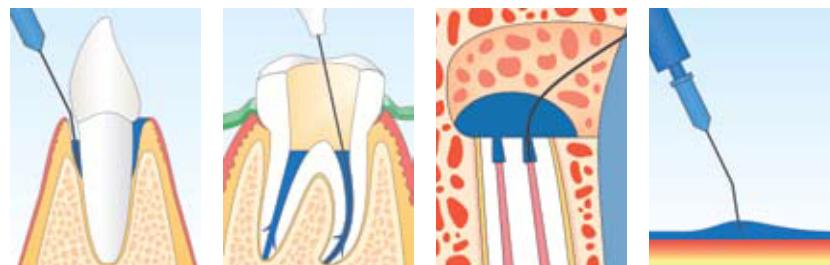
Slika: Dr. Gerhard Werling, Bellheim

Korištenje i efekti HELBO tretmana su ovako jednostavnii:



Korak 1: Profesionalno čišćenje ili priprema konvencionalnim metodama.

- ▶ Uklanjanje kutikule i plaka ili inficiranog tkiva



Korak 2: Primjena fotosenzitivnog HELBO®Blue photosensitizera

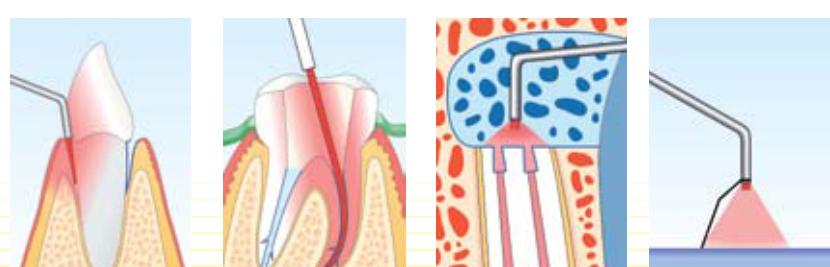
- ▶ Označavanje, difuzija molekula boje u biofilm čine mikrorganizme osjetljivijim. Molekule boje zahvaćaju membranu bakterije.



Korak 3: Ispiranje i uklanjanje viška HELBO®Blue tekućine

Provjera zbog moguće kontaminacije, moguće ponovno čišćenje i ispiranje

- ▶ Višak boje je uklonjen, akumulirane aktivne molekule otopine boje ostaju u biofilmu.



Korak 4: Rad sa:

HELBO®TheraLite Laser
HELBO®3D Pocket / Endo Probe
HELBO®2D Spot Probe

- ▶ Prijenos energije svjetla i stimulacija molekula; korištenje singletnog kisika koje vodi do uklanjanja mikrorganizma oksidacijom membrane bakterije.
Zdravo tkivo ostaje netaknuto.

Alati potrebni za uspješnu HELBO terapiju

**HELBO® Blue
Photosensitizer
(0.1 ml)**

Sterilna šprica za jedno-
kratnu upotrebu
(1 pakiranje 5 komada)
1 šprica za 4 implantata
REF HE101006

**HELBO® Blue
Photosensitizer
(0.5 ml)**

Jednokratne sterilne
1 šprica je dovoljna za
obe čeljusti
Set od 5 šprica
(1 pakiranje od 5 kom)
REF HE 101005

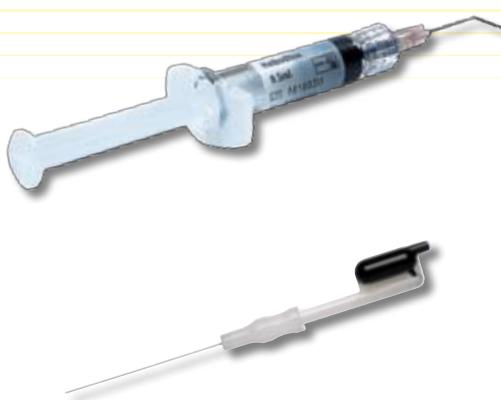
**HELBO® Blue
Photosensitizer
Set od 15 šprica
(3 pakiranja od 5 kom)**
REF HE 101007

Set od 30 šprica
(6 pakiranja od 5 kom)
REF HE 101008

**HELBO®Blue Photosensitizer/
HELBO®Endo Blue**

Otopina odmah spremna za korištenje u aplikatoru
sa posebnom mekanom iglom - pakirano u
sterilnim uvjetima

- Jednostavna aplikacija, ne kaplje, sa efektivnim
ovlaživanjem i brzom difuzijom u biofilm



**Sterimedix Soft Touch
Cannulas za HELBO®Blue
Photosensitizer
(1 pakiranje od 10 kom)**
REF HE 100122

**HELBO® Endo Blue
Sterilni aplikatori za
jednokratnu uporabu
(1 pakiranje od 5 kom)
Dovoljno for 4-5
Kanala korjena
REF HE101025**



**HELBO® Endo Seal
REF HE10 5002**

HELBO®Endo Seal

Dentin za pečate koji otvrđne na svjetlu, a služi
za zaštitu kruna



**HELBO® TheraLite Laser
Crveni
REF HE103206**

**Plavi
REF HE103207**

**Srebrni
REF HE103208**

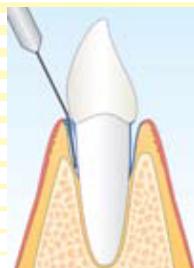
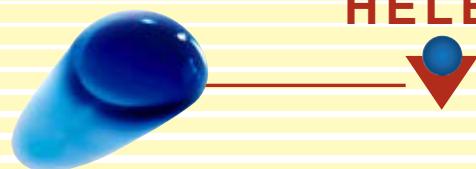
HELBO®TheraLite Laser uključuje set baterija

- Ultra lagana laserska dioda sa integriranom mogućnosti kontrole jačine, vrijeme tretmana je skraćeno zbog optimalne jačine.
- Napajanje na punjive baterije omogućuje mobilnost aparata, a male proporcije uređaja i ergonomski dizajn osiguravaju jednostavnu upotrebu.
- Sterilna optička vlakna:
HELBO®3D Pocket Probe za sigurno 3D izlaganje periodentalnog/periimplantatnog džepa,
HELBO®3D Endo Probe za izlaganje kanala
and HELBO®2D Spot Probe za izlaganje dvodimenzionalnih područja.

**HELBO® set baterija
1 punjač uključujući 3
x 2 baterije za
HELBO®TheraLite Laser**
REF HE100200

**3 seta
Zamjenjskih baterija
za HELBO®TheraLite
Laser
REF HE100201**

**Zamjenski djelovi za Helbo®
TheraLite Laser**



**HELBO® 3D
Pocket Probe**
Set sa 5 fotovodiča
(fibre optic light guide)
(1 pakiranje od 5 kom)

REF HE102006

Set sa 15 fotovodiča
(fibre optic light guide)
(3 pakiranja od 5 kom)

REF HE102007

Set sa 30 fotovodiča
(fibre optic light guide)
(6 pakiranja od 5 kom)

REF HE102008

HELBO®3D Pocket Probe

Sterilni fotovodič (fibre optic light guide) za jedno-kratnu uporabu.



**HELBO® 3D
Endo Probe**
Set sa 5 fotovodiča
(fibre optic light guide)
(1 pakiranje od 5 kom)

REF HE102025

Set sa 15 fotovodiča
(fibre optic light guide)
(3 pakiranja of 5 kom)

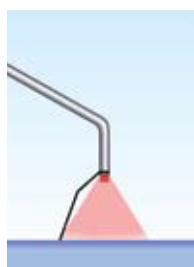
REF HE102026

Set sa 30 fotovodiča
(fibre optic light guide)
(6 pakiranja od 5 kom)

REF HE102027

HELBO®3D Endo Probe

Sterilni jednokratni fotovodič (fibre optic light guide) za izlaganje trodimenzionalnih područja.



**HELBO® 2D
Spot Probe**
Set sa 5 fotovodiča
(fibre optic light guides)
(1 pakiranj od 5 komada)

REF HE102105

Set sa 15 fotovodiča
(fibre optic light guides)
(3 pakiranja of 5 komada)

REF HE102106

Set sa 30
(fibre optic light guides)
(6 pakiranja od 5 komada)

REF HE102107

HELBO®2D Spot Probe

Sterilni jednokratni fotovodič (fibre optic light guide) za izlaganje dvodimenzionalnih područja.



HELBO® T-Controller
REF HE104000

1 zamjenaka baterija
za
HELBO®T-Controller

REF HE104001

HELBO®T-Controller

- Sistematske provjere vremena i uspješnosti tretmana kao garancija kvalitete.
- Aestetički i funkcionalan zahvaljujući optičkoj i akustičnoj signalizaciji.
- Jednostavna kontrola parametara relevantnih za tretman.

Vjerujte vodećem na tržištu:

- Difuzija: biofilm je vidljiv
- Sterilne komponente omogućuju korištenje u slučaju krvarenja ili operacije
- Academia: više od 50 publikacija za temu

Publikacije

We support your treatment success through continued research and implementation of clinical studies:

- More than 50 publications are available regarding the efficiency of HELBO treatment.
- Clinical treatment experience of more than 10 years and consistent further development ensure the foundation of the partnership between users and research companies.
- All products bear CE certification in accordance with the Medizinproduktegesetz [German Medical Devices Act].

Stop inflammation using HELBO treatment in the case of various forms of periodontitis:

- Dr. A. Braun et al.: J Clin Periodontol 2008; 35: 877–884.
„In patients with chronic periodontitis, clinical outcomes of conventional subgingival debridement can be improved by adjunctive aPDT.“
- Prof. N. P. Lang et al.: J Clin Periodontol. 2009 Aug; 36(8): 661-6. Epub 2009 Jun 25.
„Repeated PDT adjunctive to debridement yielded improved clinical outcomes in residual pockets in maintenance patients.“

Treatment options for HELBO treatment in the case of periimplantitis:

- Dr. J. Neugebauer: Poster presentation ADI 2007, May 3–5.
„The initial treatment of periimplantitis with aPDT allows a nearly complete regression at an early stage. In late cases a recovery is possible for over 80% of the infected implants.“
- Dr. T. Eberhard: ZBW [Dentistry Journal Baden-Württemberg] 2009; 2.
(3 years' results with 70 patients)
“This treatment seems to open up new treatment options, particularly in the field of periimplantitis treatment and prophylaxis”

Treatment of infections of the soft tissue/bone without antibiotics:

- Dr. J. Neugebauer: Laser Zahnheilkunde [Laser Dentistry] 2008; 1: 27–38.
“HELBO treatment represents an alternative method to known pharmacological and chemical decontamination procedures for prophylaxis and treatment of orally-manifested infections (periimplantitis, disturbances to wound healing, bisphosphonate-induced necrosis of the maxilla, alveolar osteitis, orthograde and retrograde endodontics).”



Examples of use of HELBO treatment for the treatment of caries:

- Dr. Volker Scholz: Dental Barometer 2007; 3.

„Certainly with the increasing problem of root caries in the paramarginal region, use of the HELBO system for tooth preservation has become accepted in any dental practice that focuses on tooth preservation with mild methods. As the treatment is completely painless and has no side effects, patient acceptance is also very high, despite additional charges, and patients who have heard about it are also actively enquiring about it.“

Comparison of various treatment types with systems based on photodynamics:

- Dr. J. Gustmann: ZP [Dentist and Practice] 2010; 1& 2.

Photodynamic therapy - comparative examinations of various photodynamic systems:

„On the basis of all these considerations, we have decided to purchase the HELBO system for our dental practice. Many of the treatments listed above could be carried out very effectively using the HELBO system and with great benefit to the patients. There are a multitude of academic reports by well-known authors with regard to this and for this reason, only the most tried and tested system is good enough for our patients.“

Does HELBO treatment also work against pathogens in the biofilm?

- Dr. A. Braun et al.: SPIE BiOS: Lasers in Dentistry XVI 2010; 01.

„The present study indicates that antimicrobial photodynamic therapy can reduce live bacteria within a layer of 10 µm in an artificial biofilm model.“

All publications can be found in the bibliography and at www.helbo.de/Wissenschaft!

Informacije za pacijente



Ovu novu brošuru koristite da bi svojim pacijentima omogućili informacije vezane za indikacije.

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Periodontol. 2010 Jul; 81(7): 975-81.
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microbiological observations from a private practice.
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Effect of Antimicrobial Photodynamic Therapy (aPDT) on Osteoblast Adherence and Growth in Vitro
Poster presentation AO 2010, March 4-6.
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The impact of antimicrobial photodynamic therapy on *Streptococcus mutans* in an artificial biofilm model
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One-year outcomes of repeated adjunctive photodynamic therapy during periodontal maintenance: a proof-of-principle randomized-controlled clinical trial.
J Clin Periodontol. 2009 Aug; 36(8): 661-6. Epub 2009 Jun 25.
UsedPhotodynamicSystem: HELBO
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The Comparison of Photodynamic and Antibiotic Therapy in Patients with Aggressive Periodontitis: Preliminary Results
Poster presentation ISOLA 2009, June 4-5.
UsedPhotodynamicSystem: HELBO
- Stein E., Koehn J., Sutter W., Schmidl C., Lezaic V., Wendtlandt G., Watzinger F., Turhani D.
Phenothiazine Chloride and Soft Laser Light Have a Biostimulatory Effect on Human Osteoblastic Cells
Photomed Laser Surg. 2009 Feb; 27(1): 71-7.
UsedPhotodynamicSystem: HELBO
- De Oliveira R.R., Schwartz-Filho H.O., Novaes A.B., Garlet G.P., de Souza R.F., Taba M., Sombatti de Souza S.L., Ribeiro F.J.
Antimicrobial photodynamic therapy in the non-surgical treatment of aggressive periodontitis: cytokine profile in gingival crevicular fluid, preliminary results
J Periodontol. 2009 Jan; 80(1): 98-105.
UsedPhotodynamicSystem: HELBO
- Eberhard Tilman, Neugebauer Jörg, Zöller Joachim E.
Antimicrobial Photodynamic Therapy (aPDT) - A 2 year study in private dental clinic
Poster presentation, Academy of Osseointegration 2008, Febr./March.
UsedPhotodynamicSystem: HELBO
- Christodoulides Nicos, Nikolidakis Dimitris, Chondros Panagiotis, Becker Jürgen, Schwarz Frank, Rössler Ralf, Sculean Anton
Photodynamic Therapy as an Adjunct to Non-Surgical Periodontal Treatment: A Randomized, Controlled Clinical Trial
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Lasers Med Sci 2008.
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- Brink Birgit, Romanos Georgios E.
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- De Oliveira Rafael R., Schwartz-Filho Humberto O., Novaes Arthur B. Jr., Taba Mário Jr.
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- Eberhard Tilman, Neugebauer Jörg, Zöller Joachim E., Vizethum Freimut
The Effect of Antimicrobial Photodynamic Therapy in the Treatment of Chronic Periodontitis: A Prospective, Long-Term In Vivo Study
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- Dörnbudak O., Haas R., Bernhart T., Mailath-Pokorny G.
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Clin Oral Implants Res. 2001; 12(2): 104-108.
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Gustmann Jörg

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Schütze-Gößner Margit

Chronic PA - BoP, the most important indicator
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