



## A healthy mouth – for a lifetime

Gentle and safe with HELBO therapy

bredent  
medical

**HELBO®**  
PHOTODYNAMIC THERAPY

## ***Bacteria are the trigger of many complaints and diseases***

**Do you have bleeding gums, fighting gum recession or loose teeth? Perhaps you have lost one or more teeth or maybe you have dental implants?**

These factors may indicate a disturbance of the natural balance within your oral cavity.

Your oral cavity is home to over 700 bacterial species and numerous fungi - a complex ecosystem that plays an important role in digestion. Normally, the balance between the different microorganisms ensures that your oral health remains intact. However, this sensitive balance can be disturbed - be it by health factors, the condition of your teeth or after dental treatments. When pathogenic bacteria prevail, acute or chronic inflammations can develop that affect not only your oral health, but also your general well being. Scientific studies show that chronic oral inflammation can be associated with heart disease, stroke, and even preterm birth.\*

By developing a harmonious balance in your mouth you can improve your overall health and well being!!

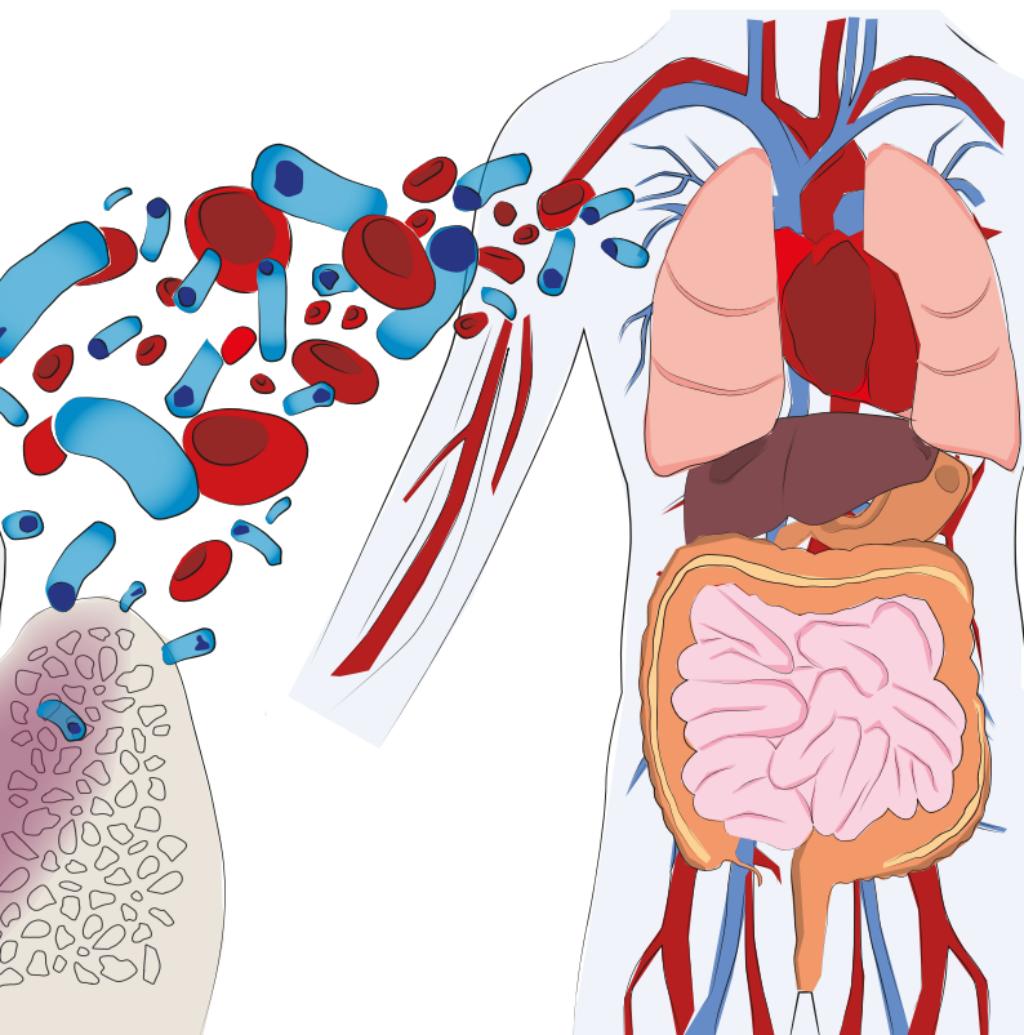
\* Kurtzman G. M. et al. Medicine (Baltimore), 2022;101(46):e30517



## *Back to balance with HELBO therapy*

In addition to mechanical cleaning, there are various ways to treat infections in the area of the mouth. These often include antibiotics. These can cause unpleasant side effects, such as gastrointestinal discomfort. In addition, there is a risk that resistant bacteria can develop as a result. Disinfecting rinsing solutions usually only have a superficial effect, they are not sufficiently effective in depth.

HELBO antimicrobial photodynamic therapy is a gentle and effective alternative. Due to reliable and safe use, HELBO therapy is used worldwide in dentistry to support oral health and restore microbial balance.

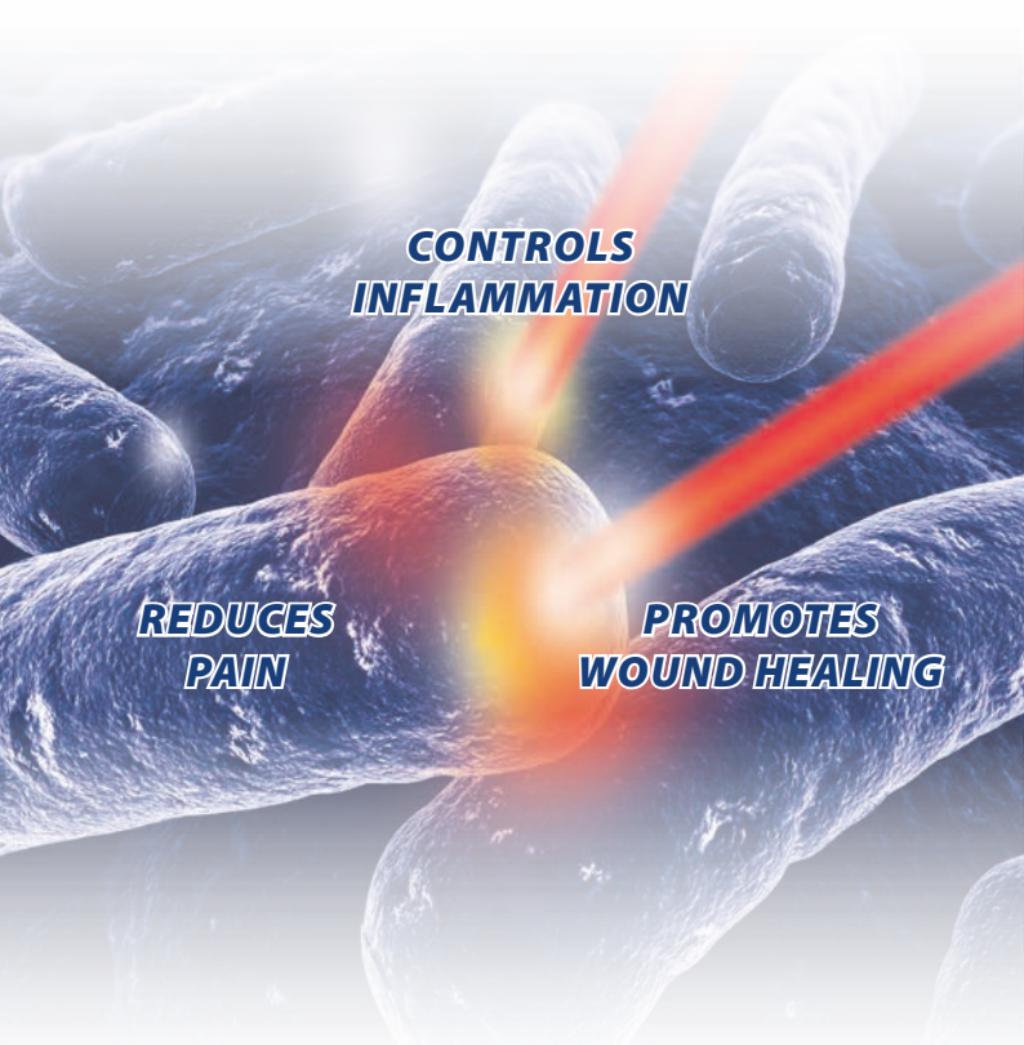


## **HELBO *therapy...***

The procedure is painless, causes no side effects and does not show any signs of resistance to date.

With dye solution and gentle laser light, HELBO supports the maintenance of natural teeth or implants and general oral health. It is a purely local therapy for destroying the microorganisms that cause inflammation and helps the body to return to physiological balance.

It also stimulates the body's own regeneration processes by using low-energy red laser light. This leads to inflammation suppression, improved wound healing and pain reduction.

A microscopic image showing several blue, rod-shaped bacteria-like cells. A bright red laser beam is directed onto one of the cells, creating a focal point of light. The text 'CONTROLS INFLAMMATION' is overlaid in blue capital letters.

**CONTROLS  
INFLAMMATION**

**REDUCES  
PAIN**

**PROMOTES  
WOUND HEALING**

*... efficient, gentle and safe*

Leading the way in oral health for over 30 years.

In cooperation with leading clinical partners, HELBO relies on innovation and safety.

The effectiveness and reliability of HELBO therapy has been impressively proven by more than 100 scientific publications.

HELBO therapy is successfully used for:

- **Periodontitis (Parodontosis):**  
For healthy gums and long-term tooth maintenance.
- **Inflammation around dental implants:**  
Protects your implants.
- **Root canal infections:**  
Gentle and effective for maintaining teeth.
- **Surgical procedures and implantation:**  
Especially in the case of existing bone infections a proven support
- **Wound healing disorders:**  
Accelerates recovery after surgical interventions.
- **Oral mucosa disorders:**  
Effective for herpes, sores and other mucosal problems:



Trust in decades of research and clinical experience.

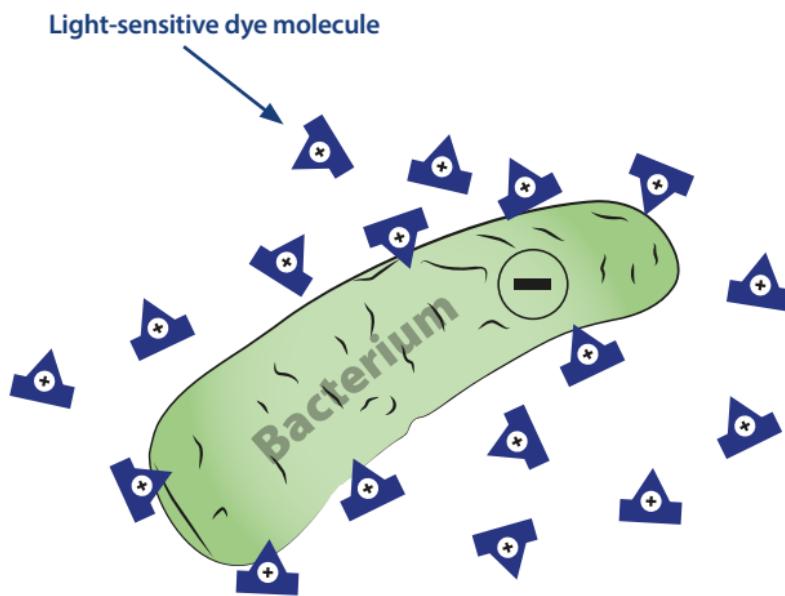
*The benefits to  
you at a glance*



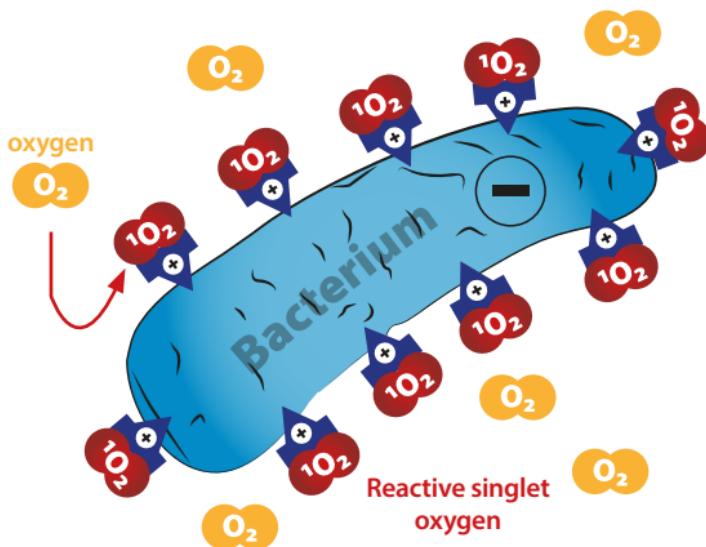
- ✓ **Gentle** – HELBO therapy is painless and therefore does not require anaesthesia.
- ✓ **Successful** – Controls infection and improves wound healing.
- ✓ **Fast** – It only takes a few minutes to treat a tooth or individual area.
- ✓ **Effective** – Unlike rinsing solutions, HELBO therapy also reaches areas that are difficult to treat.
- ✓ **Proven** – More than 100 scientific publications prove the effect.
- ✓ **No side effects** – No antibiotic treatment, no side effects and no resistances.

# How does it do that? HELBO therapy

Effect of antimicrobial photodynamic therapy:  
Interaction of a dye solution with light and  
oxygen for the destruction of pathogenic  
bacteria in the mouth area.



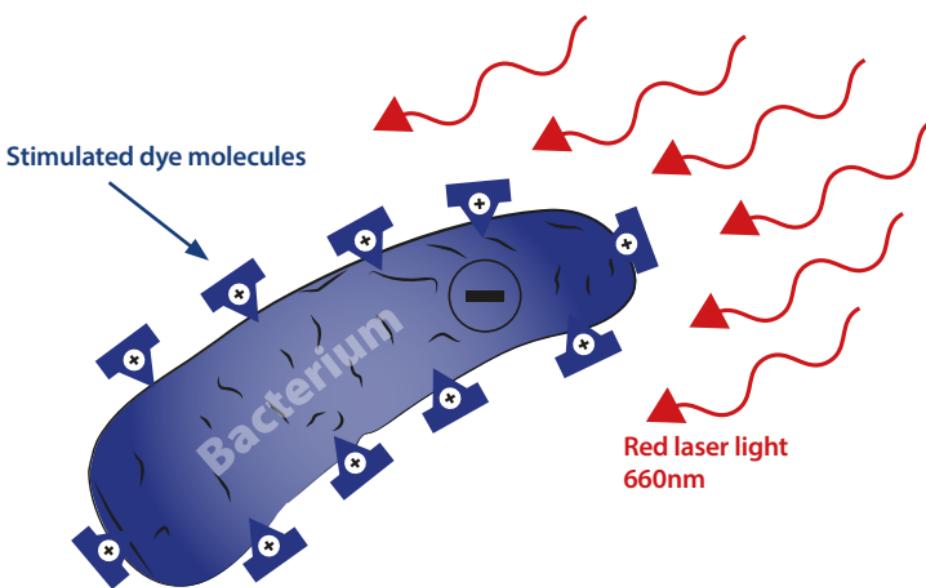
- 1 Selective deposition of light-sensitive dye molecules on the bacterial wall



- 3 Reaction with oxygen,  
formation of highly reactive oxygen

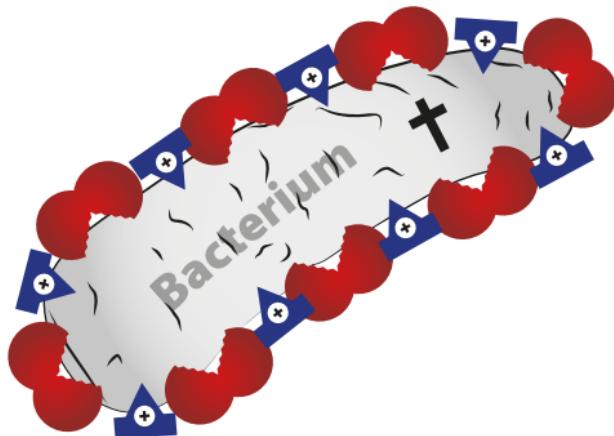
## *Minimally invasive therapy – Maximum patient benefit*

Excitation of a high-dose, light-sensitive dye solution with light of a suitable wavelength and dose results in the formation of aggressive oxygen molecules, which destroy bacteria!



**2** exposure and excitation of the dye molecules with the HELBO laser

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**4** Damage to the bacterial wall:  
Destruction of bacteria

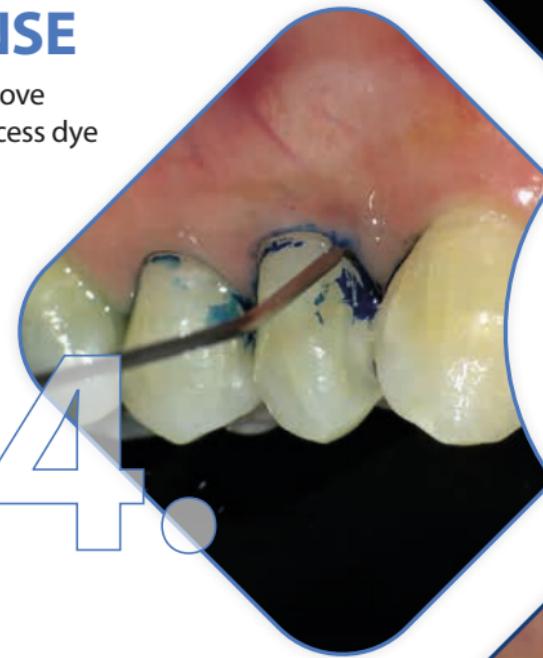
## *The clinical approach of HELBO therapy*

HELBO therapy complements professional cleaning. It provides painless and gentle long-term treatment success in just a few minutes.

### **RINSE**

to remove  
the excess dye

4.



5.

**EXP**  
the problem

### **LEAVE TO ACT**

for depth effect of the dye  
solution

3.



In many cases, antibiotics can be dispensed with and surgery avoided if necessary.

## 1 CLEAN

Mechanical removal of hard and soft deposits



## 2 APPLY

Application of the dye solution in the problem zone (e.g. deep paradontal/ peritare pockets)

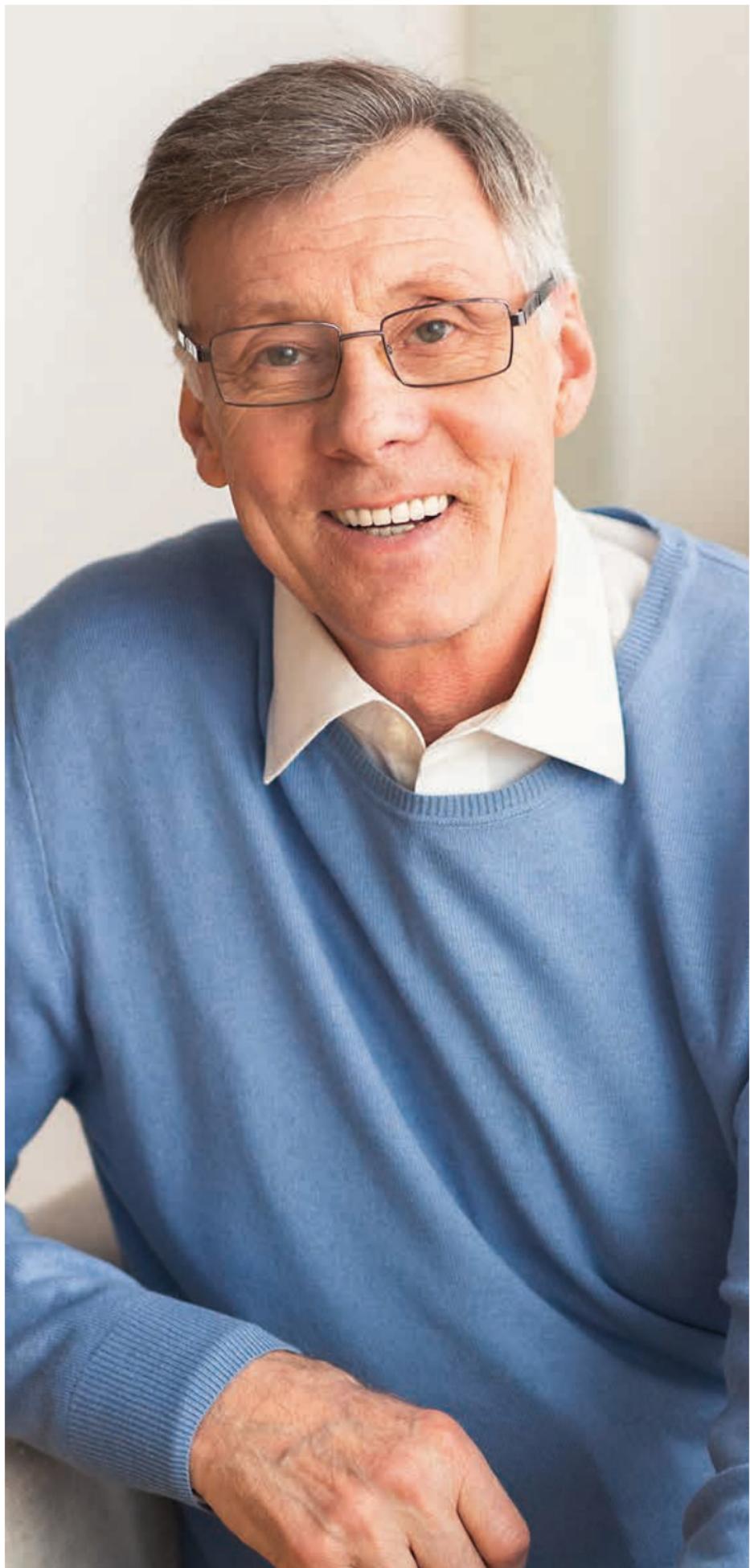
Images: Dr. Andrea Benetti



CLOSE

area





Werner E., 65 years old

*„After years of problems with recurring gingivitis, HELBO therapy has changed my life positively influenced. I can finally talk, laugh and eat again. The treatment was painless and very effective. After just a few sessions, I felt a significant improvement - my gums are healthy again and the inflammation has gone away. I am grateful for this modern therapy and can only recommend it to others!“*

# Question & Answer session





## **Which diseases in the mouth area does HELBO help with?**

The therapy can be used for periodontitis (general periodontosis), inflammations around dental implants, infections in the tooth root canal, wound healing disorders, e.g. after surgical interventions or in oral mucosal skin diseases (herpes, aphths).



## **Do I experience pain during HELBO therapy?**

No, it enables painless treatment.



## **Where does HELBO laser therapy work in my body?**

Only the infected area in the mouth is treated - so laser therapy acts purely locally and not throughout the body, unlike antibiotics. This significantly reduces the use of antibiotics.



## **HELBO therapy uses a dye solution, among other things. Can this cause tooth discolouration?**

Temporary staining of rough surfaces, e.g. on teeth, dentures and gums, which the dentist can only remove immediately to a limited extent, cannot be avoided. However, this residual staining usually disappears within two to three hours after treatment and does not pose a problem for eating and drinking.



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**HELBO<sup>®</sup>**  
PHOTODYNAMIC THERAPY

Mistake and subject to change reserved

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