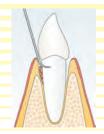


I. Periodontology



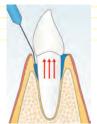
Antimicrobial Photodynamic Therapy (aPDT)

Easy to use - with impressive results!



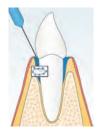
1. Perform professional dental cleaning

Important: Removing concrement from the tooth/root surface ensures better access to the biofilm! The aPDT procedure is performed immediately or no more than 1-2 days after cleaning.



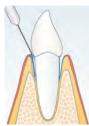
2. Apply HELBO® Blue, beginning at the pocket fundus

Important: Any air bubble at the bottom of the pocket prevents **HELBO**® *Blue* from reaching all bacteria!



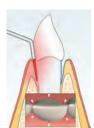
3. Allow HELBO® Blue to react for at least 1 minute – In pockets > 6 mm in size or in persistent refractory infections, allow to react for 3 minutes

Important: Only bacteria that are stained blue are killed!



4. Rinse pocket thoroughly with H₂O – remove excess dye, including at the bottom of the pocket (use suitable rinsing device)

Important: The **HELBO**® Blue layer must be very thin for full action of the laser light and to avoid the absorption of too much light.



5. Circular exposure for approx. 1 minute per tooth/cm²:

Strive for contact exposure – as close as possible to the stained bacteria – in 6 areas for 10 seconds each!

Important: Only sufficiently exposed bacteria are killed!

⇒ Ensure proper condition of optics and preferably recharge batteries daily!

How often should this therapy be applied?

- If used correctly (including proper prior professional dental cleaning), one application already achieves very good results.
- In persistent refractory infections, the application should be repeated after approx.
 1 week; the professional dental cleaning should be checked and optimized, if necessary;
 HELBO® Blue should be allowed to react for 3 minutes.





II. Endodontics





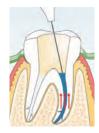
1. Conventionally prepare tooth endodontically

Important: Cofferdam recommended; preparation to **ISO 45** is best (by hand or mechanically), rinse afterwards, then dry with paper tips, which are then left in place in the canals.



2. Apply HELBO® Endo Seal all over the crown area

Important: Diffusing dye can lead to permanent discoloration; therefore, protecting this area is essential!



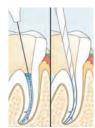
3. Remove paper tips and apply HELBO® Endo Blue apically to coronally Important: Preparation to ISO 45 is ideal – in case of smaller preparation size, mechanically move HELBO® Endo Blue apically (file, lentulo, gutta percha tip, ...) so that the dye

reaches all bacteria!



4. Allow HELBO® Endo Blue to react for at least 1 minute Important: Only bacteria that are stained blue are killed

- diffusion into tubuli ensures deep effect!



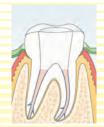
5. Remove excess HELBO® Endo Blue – it's best to rinse with H₂O and dry with paper tips

Important: Excess dye results in excessive absorption and may prevent correct light application; the root canals must be completely dry!



- Expose for 1 minute per canal: Strive for contact exposure

 as close as possible to the stained bacteria, including apically Important: Only adequately exposed bacteria are killed!
 - ⇒ Ensure proper condition of the optics and preferably recharge batteries daily!



7. Close canals & mechanically remove (finisher!) any dye residue in the crown area

Important: Thanks to significant reduction in the number of bacteria, definitive obturation can be performed immediately!



