

Ozone water in dentistry



Dr. Renate Viebahn-Hänsler

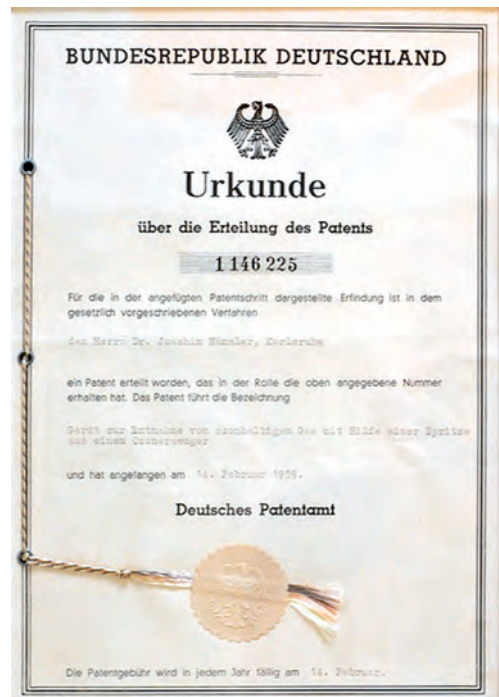
Dr. rer. nat. Renate Viebahn-Hänsler joined Dr. J. Hänsler in 1977 and took over as sole managing director in 1981. She is a managing board member of the Ärztliche Gesellschaft für Ozonanwendung e.V. (Medical Society for Ozone Application) and editor of numerous textbooks and manuals, including international standard references for medical ozone.

The use of ozone in dentistry has been established for decades and covers an increasing spectrum of applications.

Research began 1932, when E. A. Fisch liberated his colleague Erwin Payr (later professor of surgery in Greifswald, Königsberg and Leipzig) from a purulent tooth fistula using ozone water. Only a few years later, both Payr and Fisch published extensive studies on the use of ozone in medicine, which are still regarded today as essential foundations of research in this field.

In 1959, Dr. Joachim Hänsler was granted a patent for OZONOSAN® as the first medical ozone generator with exact dosing capability. For almost 60 years now, the company Hänsler has been producing a third-generation medical device for the production of highly enriched ozone water.

Every OZONOSAN® device is manufactured in the company on the basis of high-tech technology that has matured over the years. The materials used to manufacture the individual parts are ozone-resistant and biocompatible. The catalyst system is highly effective and steam stable. In addition, a special ozone laboratory for ozone water measurement enables the optimization and calibration of the system. OZONOSAN® is TÜV-certified and has the CE mark CE0123.




The positive effect of ozone water is manifold:

- Disinfectant: bactericide, virus inactivating, fungicide
- Activation of the cell metabolism of the oral mucosa and the dental wound areas
- Haemostatic effect in case of bloody oozing
- improvement of wound healing

The application of ozone water in daily routine is carried out in the following cases:

- Conservative treatment
- Prosthetic treatment
- Periodontal treatment
- Oral surgical treatment

Dissolved in water or as a gas, ozone can be used in almost all processes of dentistry, whereby it can only be used successfully by trained users as an ozone-oxygen-gas mixture for gassing wounds and cavities. Treatment with ozone water, on the other hand, is very patient-friendly due to the short time required, uncomplicated handling and, above all, pain-free treatment. It can be removed directly via handpieces and contra-angle handpieces and is used for disinfecting cavities and root canals as well as for rinsing periodontal pockets and wounds.



*„The microbe is nothing.
The milieu is everything.“*
L. - Saxenay

„A sustainable investment that reaches break-even point in next to no time.“

PROF. LIUDMILA OREKHOVA

Pavlov 1st State Medical University of Saint Petersburg and President of the Russian Society of Periodontology

HOFFMANN'S
worldwide exclusive sales

DR. HÄNSLER **OZONOSAN**
CYTOZON

medical device to generate pharmaceutical ozone water



HOFFMANN'S OZON-WASSER



AREAS OF APPLICATION

- for rinsing in gingivitis, periodontitis, Thrush and stomatitis instead of CHX
- in endodontics ozone water replaces NaOCl and EDTA
- for effective wound disinfection
- in oral surgery to replace the coolant of the rotating instrument (NaCl 9%)
- to stop bleeding

ADVANTAGES

- intuitive operation
- uncomplicated handling
- painless treatment
- for the prevention of antibiotic resistance

**made
in
Germany**



WATER

Pharmaceutical ozone water is produced from bi-distilled water and medical oxygen.



OZONISING

The ozone-oxygen mixture is sparging through bi-distilled water. The patented system guarantees optimum ozone concentration with high efficiency. A fully automatic ozonation cycle lasts 6 minutes.



OZONE WATER TAP

With a drinking glass for rinsing or for filling a syringe, e. g. for root canal lavage.



OZONE WATER HANDPIECE

Use of ozone water spray for Cleaning of the oral mucosa, the interdental spaces and during surgical procedures.



Use of the ozone water jet: in the professional cleaning of teeth and in surgical procedures.



CONCENTRATION OF OZONE IN WATER:

At least 20 mg / L (20 ppm) at a temperature of 22 °C.

When refrigerated, ozone water is stable for up to one week.

As a guideline, the lower the temperature, the higher the concentration and its stability.

TECHNISCHE DATEN	
Medical device	Class IIa according to EU directive
Dimensions	55 x 20 x 45 cm
Weight	20 kg
Electrical data	230V ~, 50 Hz