The Improvement of The Human Hearing Capacity With Low Level Laser Therapy (LLLT)

A look back at over 25 years of clinical experiences

Dr. Lutz Wilden
Dear Ms. / Mr. Chairman,

Dear ladies and gentlemen,

Thank you for having the possibility to talk in this congress with you, regarding my experiences in treating patients that are suffering with inner ear problems with Laser Light.
• Without having known about this book, I would not be here today.

• The authors of this excellent publication made it possible for me to see and understand the high biological quality of the inner ear organ.

• Before reading this book, the inner ear was for me like a blank page.

• Now I know the incredible high value of this wonderful organ.
Fig. 1  Electron microscopic image of hearing cells
Fig. 2  Electron microscopic image of a section of the Corti Organ
Fig. 3  Electron microscopic image of the so called “hairs” of 2 hearing cells
Fig. 4  This image from the aforementioned book illustrates the clear correlation between audiometric results and biological pathologies of the cochlea.
Fig. 5  Graph illustrating the clear correlation between audiometric results and biological pathologies of the cochlea.
Fig. 6  The origin of all of these alarm signals have a relevant biological source.

On Tinnitus for example:
Approximately 98 % of all tinnitus patients are suffering from a high frequency tinnitus
Fig. 7  Approximately 98% of all tinnitus symptoms are high frequency sounds
Fig. 8 By observing the swinging pattern of the basilar membrane, it becomes evident that the hearing cells for both, the high and very high frequencies, have to tolerate the strongest mechanical stress of the entire hearing range.

Due to this fact, it is logical that they are the first to become the most biologically stressed.

As in any other part of our body, they begin to inform us of their actual biological situation, like every pain signal does!!!!
• Tinnitus is the pain signal of our hearing cells.

• There is a clear agreement between symptom (tinnitus) and bio mechanical factors.

• This biological logic convinces me more than any other tinnitus theory.
Protection of your ears with ear plugs is a first line of defense.

Fig.8  By respecting the biological factors in the above image, we have a very easy method of preventing inner ear problems.
LLLT improves the biological qualities in a very measurable and noticeable way.

Fig. 9 Healing of an ulceration

In the case of an ulcerated wound the healing process is clearly visible.
In the case of our inner ear organ, the improvement is in the hearing capacity.

Fig. 10  Graphic results after 5-10 days treatment in my clinic or after 4-6 weeks with the use of Dr. Wilden’s Home Laser (www.lux-spa-Ibiza.com)
Fig. 11  Application of LLLT in my clinic.
Fig. 12 Therapy application of the Home Therapy with our Lux Spa Home Laser by Dr.Wilden /Inner Ear Laser  (www.lux-spa-ibiza.com)
Fig. 13 Chain of events of the bio stimulation with LLLT
Fig. 14  The Old Concept believes that light does not penetrate the cells and that they produce their energy in some type of a hydrodynamic mode.
Fig. 15  The New Concept is that light penetrates the cells, stimulating them to produce energy (ATP) internally and externally.
Fig. 16  The internal light is coming from the electromagnetic bond energies, released by pyruvate.
Fig. 17  The last step in our cellular metabolism is the radiation of light from within the pyruvate molecule and the absorption of this light in our cellular power stations.
Ears ♥ Our Laser Light
Thank you very much for your kind attention. Sincerely hope that this information proves to be beneficial for you.

For further information, please visit my website

https://lux-spa-ibiza.com

office@lux-spa-ibiza.com