

Treating Tinnitus and other hearing disorders

with

CombiLaser

2 x 50 mW/ 650 nm

2 x 500 mW/ 808 nm



LaserLight

Laser technology

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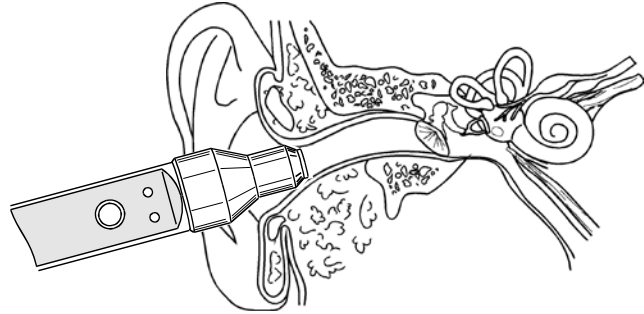
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Tinnitus

Description

A series of examinations from Austria and Germany, together with practical experiments carried out in Denmark, have shown that laser treatment can have a great effect on the treatment of Tinnitus. More than 50% of the treatments have shown good results.



When using laser therapy, it is believed that it is the general effect on the cells and the increased blood flow in the inner ear that has a beneficial effect on the treatment of Tinnitus.

It is LaserLight's experience that persons with Tinnitus caused by noise, i.e. that the acoustic nerves have been damaged, are the group of patients that have the best treatment results with laser light.

Recommended treatment

Preparation: Before the patient is treated, it is advisable that the patient has been diagnosed with Tinnitus without further complications at an otologist.

Among other things, you should be able to rule out acoustic neurinoma and otosclerosis.

It is important that ears and auditory meatuses are clean.

Method: A laser bracket is put on each ear. Make sure that the laser tip is pointing directly into the inner ear.

IMPORTANT: Both ears must be treated at the same time!

The patient must keep calm so that the laser tip does not move during treatment.

Dose: Up to 200-500 J per ear, 2-3 times per week.

From 8 to 20 minutes' treatment with CombiLaser

A number of patients feel warmth, a throbbing or fishing-vessel-sound during treatment, which notoriously is considered as a positive reaction and as a sign that the patient can be helped.

**TINNITUS CAUSES
STRESS AND TENSIONS**

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**STRESS AND TENSIONS
CAUSE TINNITUS!**

**Course of
treatment:**

If no kind of reaction is obtained after the first 1-4 treatments, you should, because of the patients' individual courses of diseases, causes for Tinnitus, psychical and physical conditions, experiment with treatment time, number of appointments per week and pauses during treatment. If the right rhythm is found, it often has a crucial influence on the final result of the treatment.

In case of malaise during treatment, the laser treatment must be stopped immediately!

Alternatively, Norwegian experiences can be followed which have shown that patients, who do not react immediately on the treatment, with advantage can have increased the treatment time by one minute per appointment. After typically 5-15 treatments, they will often react positively on the treatment. Normally, the first 5-10 treatments will show if the laser has any effect. The total number of treatments is individually from person to person. In some cases the noise disappears after 15-20 treatments, in other cases after 30-50 treatments.

German examinations show that it can take up to 1-3 years before the Tinnitus is relieved.

If the patient feels malaise or a severe turn for the worse at the first treatment, you should reduce the treatment time per appointment at the first 3-5 treatments. (In this respect, there can be pronounced variations in patients)

After this, the treatment time can slowly be increased.

The treatment is continuously controlled by audition tests (audiogram).

After use, the laser tip must be cleaned with spirit or chlorhexidine.

Neck and back: Is the cause for Tinnitus an injury in neck (e.g. lawn-tennis leg) or back, tensions in jaw or facial muscles, or a combination, the treatment should be combined with laser treatment on the muscle insertions, followed by a light massage.

At reduced hearing, you can experimentally treat behind the ear directly on the ossicle. This can improve the hearing.

“Recovery”

Experience shows that Tinnitus rarely returns to the “old” level after the treatment has been finished. Prospective relapses are followed up by laser treatment according to requirement.

As an alternative to laser treatment, the treatment could be tried out with acupuncture and/or zone therapy.

“Folk medicine”

Tinnitus can be a very straining acquaintance and can unfortunately not be removed with medicine. However, it is possible to relieve some of the symptoms.

Because of numerous conversations with Tinnitus patients, therapeutics' and doctors, it is possible for us to sum up and pass on the best “folk medicine” against Tinnitus.

Ginkgo biloba: Ginkgo biloba is to date the medicament that most patients have tried out. Very few have been helped but the combination of laser therapy and Ginkgo is recommended by more and more therapeutics'. The inexpensive preparation from Interpharm, Ginkgo Biloba MAX, is seemed to have a good effect when taking 200 mg a day (1 tablet).

B 12 vitamin: Israeli examinations have shown that many people suffering from Tinnitus have a low content of B 12 vitamin in the blood. Several felt better when taking B 12 vitamin.

Calcium supplement: Certain patients have benefited from calcium supplement, e.g. 2-gram calcium a day for a month, and after this, then 1 gram a day. Calcium has an effect on the circulatory function, the nervous system and on the blood. Fish oil has the same good effect.

White noise: Sleeping problems are often connected with Tinnitus. Feedback information indicates that white noise (buzzing between stations on the radio) can divert the attention from Tinnitus. The method is simple: A radio put on the bed table and tuned in between two stations. The sound is turned down so that you can just sense a weak buzzing from the radio. That “buzzing” should, according to many manifestations, divert the attention from Tinnitus and effect that the person suffering from Tinnitus can fall asleep more easy. Music or speech can also be used, but the sub consciousness will often try to “understand” the sounds, which often seems more stressing than relaxing.

Causes for Tinnitus (list)

Diseases in ear and middle ear

Wax plug
Inflammation of the middle ear
Eardrum perforations
Otosclerosis
Tensions in the middle ear muscle

Diseases in the earpiece and the acoustic nerve

Hereditary hearing disability
Damages caused by loud noise
Acoustic trauma
Ménière's disease
Change of pressure in the inner ear
Damages on the cranium
Sudden deafness
Tumour on the acoustic nerve
Deafness because of age

Hormonal imbalances

Reduced thyroid gland function
Diabetes
Too low blood sugar

Heart and circulatory diseases

Too high blood pressure
Too low blood pressure
Stress
Arteriosclerosis

Blood diseases

Thrombus
Too high cholesterol content in the blood
Too high blood viscosity

Other diseases

Allergy (cheese, chocolate, fat)
Wear in the vertebra
Psychical problems

Relieve (treatment) of Tinnitus

Information

Doctor's visit
Tinnitus association
Literature
Conversation groups

Psychotherapy

Information
Relaxation
Hypnosis
Controlled relaxation (biofeedback)

Electronic treatment

Hearing aid
Masking device
Laser therapy of inner ear and ear area

Physiological treatment

Relaxation
Gymnastics (sport)
Acupuncture

Surgical treatment

Plastic tubes
Destruction of inner ear
Xylocaine in the middle ear

Medicine treatment

Vasodilating medicine
Blood pressure and heart medicine
Epilepsy medicine

Prosthetic treatment

Dental treatment
Amalgam

Others

Diet, slimming treatment, fasting
Health food
Pressure-chamber treatments

Bibliography

Ear, nose and throat diseases
Edited by: Olle Hallén and Matti Anniker
Published by: Almquist & Wiksell, 19??
ISBN?

Tinnitus relieve by means of laser light
Wilden Lutz, Fritsch Manuela
Published by: Jopp Verlag, Wiesbaden, 1995
ISBN 3-926955-69-4

Combined low power laser therapy and extracts of Ginkgo Biloba in a blind trial of
treatment for Tinnitus
J. Olivier and P. Plath from Ruhr-University Bochum, Mühlenstr. 27, 4350
Recklinghausen, Germany
Magazine: Laser Therapy, 1993, No. 5 (May), page 137-139

Treatment of chronic diseases of the inner ear with low level laser therapy (LLLT): Pilot
project
Wilden and D. Dindinger
Magazine: Laser Therapy, 1996, No. 8 (August), page 209-212