

New ThyLA DUAL Laser Therapy for Benign Thyroid Nodules

The medical technology laser pioneer biolitec introduced in January 2022 the new minimally invasive laser therapy ThyLA DUAL¹, the new laser thermoablation for benign thyroid nodules. With this minimally invasive laser treatment the tissue is highly effectively decreased while at the same time the tissue and therefore the function of the thyroid nodule is preserved. The ThyLA DUAL treatment can be conducted on an outpatient basis and is applicable also in high-risk patients.

During treatment, the specially designed ThyLA fiber is inserted into the thyroid nodule under local anesthesia and ultrasound guidance. The nodal tissue is decreased by the punctual irradiation with the laser light of the LEONARDO DUAL 45 or also the LEONARDO Mini DUAL.

Conventional thyroid surgery or even radioiodine treatments may require lifelong hormone intake. This is not the case with biolitec's minimally invasive ThyLA DUAL ther-

moablation. With the innovative ThyLA fiber, biolitec has greatly optimized laser-induced thermotherapy (LITT) and made it a particularly precise and thus even gentler treatment method. It enables a controlled penetration depth with excellent ultrasound visibility at the same time. Thanks to this precision, the surrounding tissue of the thyroid gland is optimally spared. The thyroid gland and its function are preserved, and patients can usually resume their regular activities after a very short time without the need for postoperative medication. Three months after treatment with ThyLA DUAL, a decrease in nodule volume, by about 50–60 %, can already be observed. The procedure can be repeated if necessary and is also suitable for treating high-risk patients.

Multiple indication scenarios

ThyLA DUAL can be used for symptomatic benign nodule formations as well as for thyroid cysts. In addition, autonomous adeno-

mas can be treated with the laser method if radioiodine treatment is not desired. It also offers an excellent alternative for all patients who cannot be treated under anesthesia or who wish to avoid surgery. With the ThyLA fiber and the dual diode lasers of biolitec, the so-called “moving-shot technique” can also be applied if required. The application of this method depends on the size and shape of the lesion to be treated. Here, the ThyLA fiber is intranodally replaced after each pulse. This creates multiple coagulative necroses so that the entire nodal tissue is treated. More information about the ThyLA DUAL treatment on <https://www.biolitec.com/en/applications/thyroid-treatment.html>

Nach einer Pressemitteilung (biolitec)

¹ ThyLa DUAL, biolitec Biomedical Technology GmbH, Jena