

ThyLA DUAL

Laser Thermal Ablation of Thyroid Nodules



_ High effectiveness _ Outpatient treatment

ThyLA DUAL – DUAL Laser Technology

Following our tradition during the development of new minimally invasive treatments, we succeeded in combining wavelengths, 980 nm/1470 nm and 1064 nm/1470 nm, in a single device for excellent and efficient intra- and postoperative results. Dual diode laser with high quality fiber optics makes procedures safe and cost-effective for medical professionals and patients.

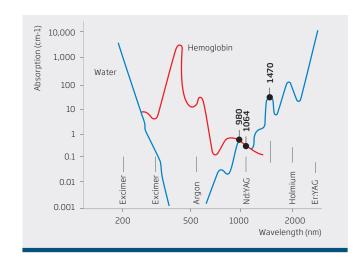
Laser Thermal Ablation

Advantages

- Treatment possible with local anesthesia
- High effectiveness, reduction of the nodule volume by about 50% after three months
- Short treatment duration
- Protection and preservation of healthy thyroid tissue
- Good cosmetic results
- Easy to control penetration depth
- Function-preserving procedure, usually no medication necessary after the intervention
- Quick resumption of daily activities
- __ Treatment can be repeated as needed
- Suitable for risk patients

Indications

- Symptomatic benign nodular formations
- Symptomatic thyroid cysts
- Rapidly developing benign nodules or cyst formations
- __ Visually disturbing nodules
- "Hot" nodular formations (autonomous adenoma) when radioiodine therapy is not desired
- Patients who do not want an operation or are only fit for a limited procedure or one without anesthesia



Through the occupation of the absorption maxima and minima by the diode laser of wavelengths 980 nm, 1064 nm and 1470 nm, we succeeded in adapting the penetration depth to the extent of the thyroid nodule to be treated.



A gentle, organ-preserving method for the treatment of benign thyroid nodules

Laser thermal ablation is a minimally invasive procedure during which the tissue is dissicated by laser energy. During the laser thermal ablation, similar to a biopsy with ultrasound monitoring, the special ThyLA fiber is introduced into the thyroid nodule to coagulate the nodular tissue through selective radiation.

When the size or shape of the lesion to be treated requires, the therapy takes place with the so-called "multiple overlapping shot technique" (moving shot technique). In this instance, the ThyLA fiber is replaced intranodally after each pulse. Thus multiple coagulative necroses are placed, and the entire nodule is treated. To enable a homogeneous and controlled penetration depth and, at the same time, an excellent ultrasound view, the ThyLA fiber was developed.

Our Products

biolitec®'s unique FUSION® technology

The glass fiber caps are welded to the fibers and not simply glued.
That means maximum safety during the application.





biolitec® laser systems



Modell	LEONARDO® Mini Dual	LEONARDO® DUAL 45	LEONARDO® DUAL 45 SL1064+1470nm45W	
REF	SL980+1470nm16W	SL980+1470nm45W		
Wavelength	980 nm ± 30 nm/1470 nm ± 30 nm	1470 nm ± 30 nm + 980 nm ± 30 nm	1064 nm ± 30 nm + 1470 nm ± 30 nm	
Power	11 W@980 nm ± 20 % (Pmax = 13,2 W) 5 W@1470 nm ± 20 % (Pmax = 6 W)	30 W ± 20 % (max. 36 W) + 15 W ± 20 % (max. 18 W)	30 W ± 20 % (max. 36 W) + 15 W ± 20 % (max. 18 W)	
Fiber diameter	≥ 360 µm	≥ 360 µm and 220 µm with reduced Pmax. (optional)	≥ 360 µm and 220 µm with reduced Pmax. (optional)	
Laser class	4	4	4	
Aiming beam	635 nm, max. 4 mW	532 nm and 635 nm, green 1 mW, red 4 mW, user-controlled intensity	532 nm and 635 nm, green 1 mW, red 4 mW, user-controlled intensity	
Treatment mode	CW, Pulse Mode (optional)	CW, Pulse Mode, ELVeS® Signal, ELVeS® Segment, Derma Mode	CW, Pulse Mode, ELVeS® Signal, ELVeS® Segment, Derma Mode	
Pulse duration/ break	0.01 – 60 sec. / 0.01 – 60 sec.	0.01 – 60 sec. / 0.01 – 60 sec.	0.01 – 60 sec. / 0.01 – 60 sec.	
Power supply	100 – 240 VAC, 50 – 60 Hz (12 VDC @ 64, 8 W)	110 – 240 VAC, 50/60 Hz/ max. 450 VA	110 – 240 VAC, 50 / 60 Hz / max. 450 VA	
Cooling	Air-cooled system	Air-cooled system	Air-cooled system	
Dimensions (H×W×D)	6.0 cm × 9.0 cm × 21.5 cm	approx. 28 cm × 37 cm × 9 cm	approx. 28 cm × 37 cm × 9 cm	
Weight	900 g	approx. 8.5 kg	approx. 8.5 kg	

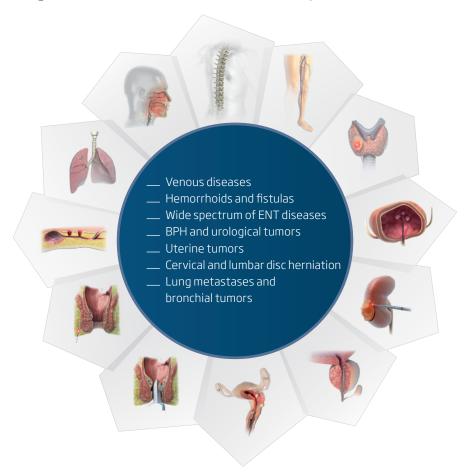
Fibers & Accessories

REF	Product	PU*	Length	Diameter	Ablation zone
503100450	ThyLA slim Fiber, IC	10	2.6 m	0.96 mm	olive
AB2571	Biopsy needle	10	100 mm	18 G	-

^{*} Packaging unit

Contact us

to learn more about a whole new world of minimally invasive laser therapies



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All fibers are free of latex and DEHP. Our fibers are single use products (unless otherwise indicated) delivered sterile for immediate use.

Imprint

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