DUALMODE

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Presentation
DualMode®

VYDENCE

CONTINUING MEDICAL EDUCATION Program

Prepared by **Clarissa Bravin, Renata Novais**

reviewed and approved by **Antonio Olivatto**

see more at::

vydence LASER ACADEMY tv

ETHEREA-MX® PLATFORM

LEADER IN THE WORLD'S SECOND-LARGEST AESTHETICS MARKET

- Maximum versatility;
- LASER and light technologies;
- 70+ treatment indications;
- LASER for all types of skin;
- Always with new technologies;
- Greater profitability and return;
- Compact design that is easy to transport;
- Reliable: second-generation platforms;
- Powerful and with proven results;
- Easily changeable handpieces, plug-and-play;
- Dual voltage, with no need for a voltage stabilizer;
- International standard, FDA approved;
- Sold in nearly 20 countries.

ProDeep®
Nd:YAP 1340 nm
For deep epidermal nonablative fractional LASER treatments.

GoSmooth®
Er:GLASS 1540 nm
Gold standard technology for non-ablative LASER skin resurfacing.

ACROMA-QS®
Nd:YAG 1064/532 nm
Dual-wavelength Fractional Q-switched LASER with optional fractional spot.

LongPulse®
Nd:YAG 1064 nm
Nd:YAG LASER with variable pulse modes.

DualMode®
Er:YAG 2940 nm
Powerful, dual-effect Er:YAG with improved coagulation effect.

IPL-Sq®
Intense Pulsed Light
Square-Wave Pulse Technology and all-in-one available cut-off filters.

ATHENA®
DualMode® Accessory
intimate LASER treatment for women's health and wellness.

intenseIR®
Infrared Light
Hi-powered IR light for skin tightening of the body and face.

etherea MX | Z Y E

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about LASERs and light:
science and technology

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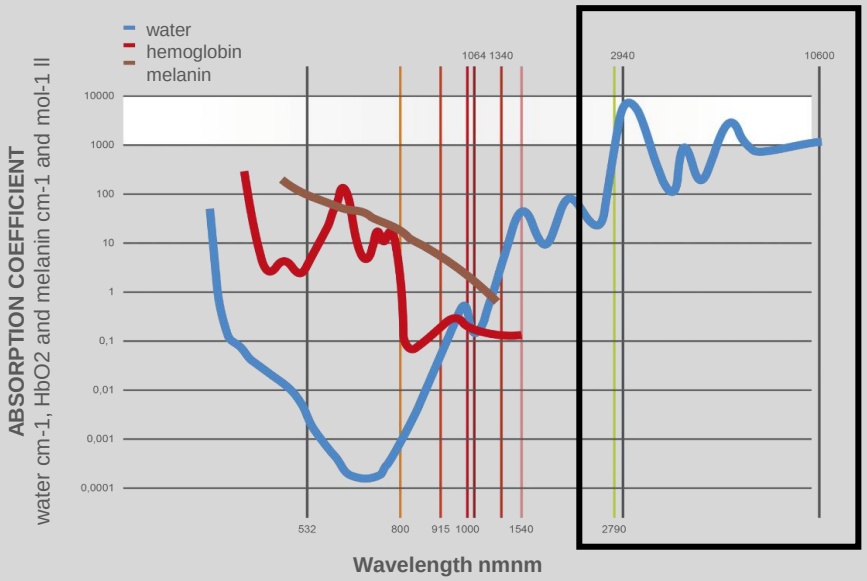
SCIENCE AND TECHNOLOGY

DUALMODE

TARGET CHROMOPHORE AND ABSORPTION CURVE



- Technology that revolutionized dermatology, introduced in 2004 by Mainstein, et al;
- Functions with vaporization (ablation) of tissue
- There are three wavelengths of fractional ablative LASERS:

2790 nm: solid-state LASER, er: YSGG (erbium-doped:yttrium-scandium-gallium-garnet);

2940 nm: solid-state LASER, er:yag (erbium-doped:yttrium-aluminium-garnet);

10.600 nm: gas LASER, CO2

1. **Er:YAG has 10 times more absorption by water than a CO2 laser.**

*Manstein et al. FRACTIONAL PHOTTHERMOLYSIS: A NEW CONCEPT FOR CUTANEOUS REMODELING USING MICROSCOPIC PATTERS OF THERMAL INJURY. LASERs Surg Med 2004;34:426-38.

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SCIENCE AND TECHNOLOGY

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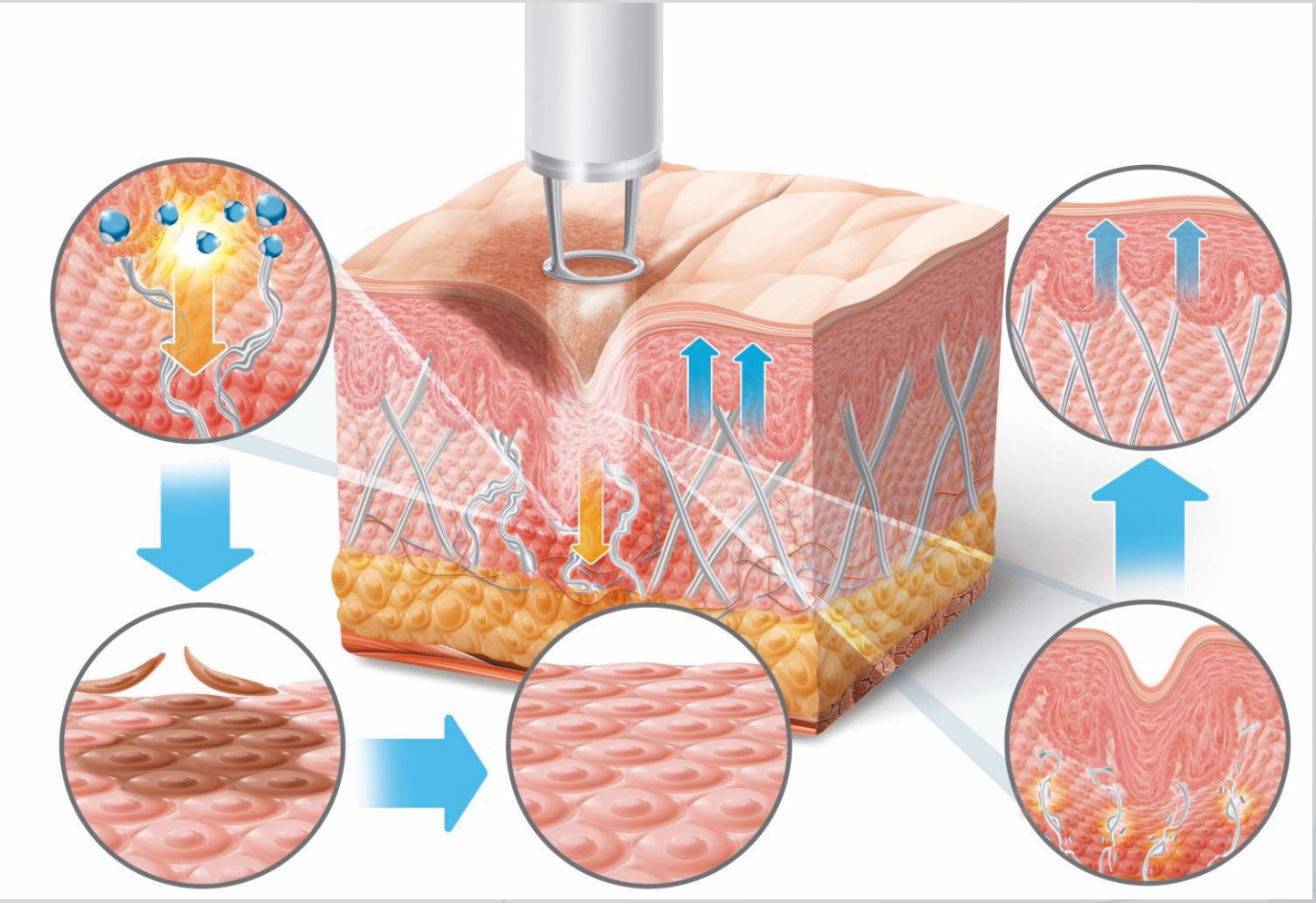
SELECTIVE PHOTOTHERMOLYSIS EFFECT



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SCIENCE AND TECHNOLOGY

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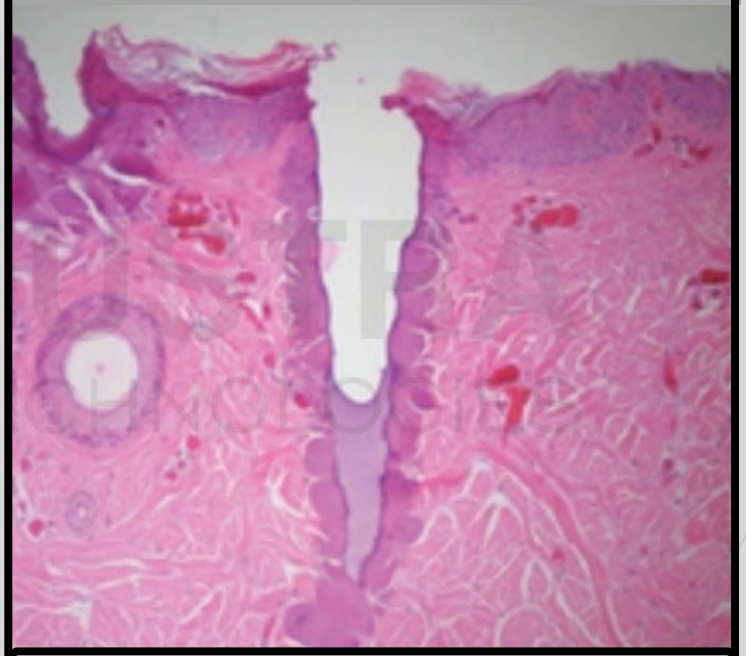
ABLATIVE LASER vs. NON-ABLATIVE LASER

ABLATIVE LASER

Ablation + residual thermal damage and collagen stimulation. Tissue regeneration.

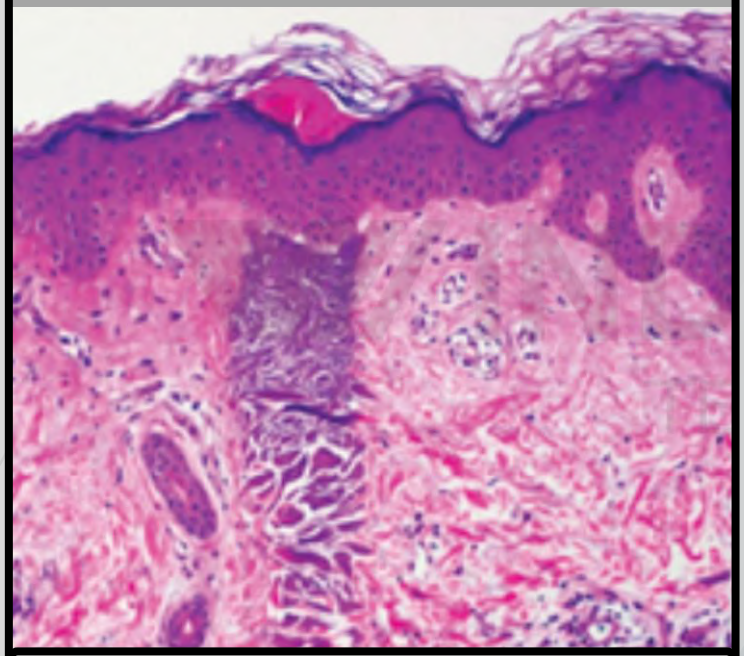


ABLATION

- Complete removal of the epithelial level through a superficial vaporizing effect.

NON-ABLATIVE LASER

Residual thermal damage formation and collagen stimulation.



COAGULATION

- Inflammatory effect in the area, tending to reach deeper layers of the tissue..

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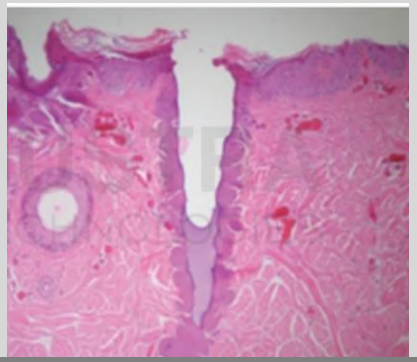
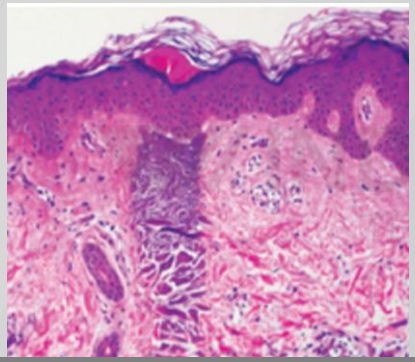
SCIENCE AND TECHNOLOGY

DUALMODE

ABLATIVE LASER vs. NON-ABLATIVE LASER





Comparison	Ablative	Non-ablative
Target chromophore	H2O	H2O
Chromophore absorption	More	Less
Response time	48-72 hours	24 hours
Advantages	• Fewer sessions • Clear improvement after first session • Long-term results • High patient satisfaction	• Safety • Less downtime • Less risk of post-inflammatory hyperpigmentation • Greater versatility • Satisfactory results
Disadvantages	• More dowtime • More posttreatment care • Risk of post-inflammatory hyperpigmentation	• Higher number of sessions

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DUALMODE

DualMode®:
features & technology

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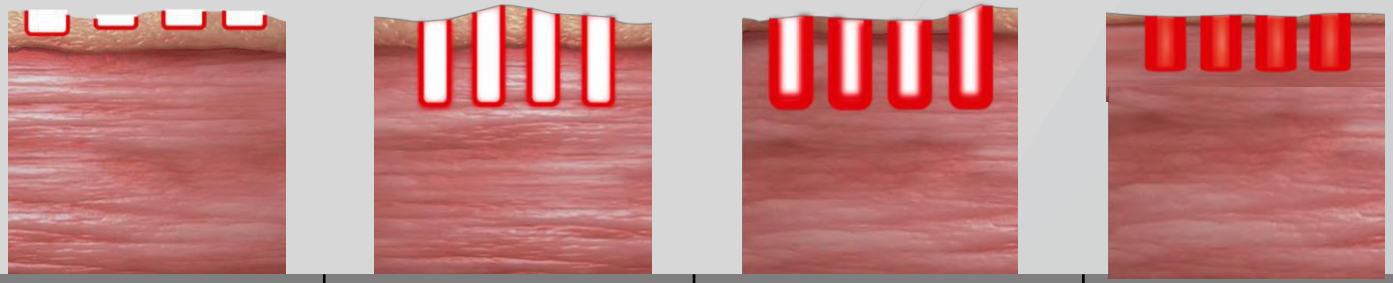
FEATURES & TECHNOLOGY

DUALMODE

TECHNICAL CHARACTERISTICS



	Microseconds	Milliseconds	Microseconds and milliseconds	Smooth pulse
Pulse time and mode	300 µs to 1ms single mode	3 to 5 ms single mode	300 µs – 1 ms 3 to 5 ms Dual Mode	400 ms
Definition	Short pulses; purely ablative effect	Longer pulse; deeper ablation with residual thermal damage	Double pulses: ablation followed by coagulation	Stream of pulses: coagulative effect, mitigating the ablation effects
Spots	Collimated Fractional	Fractional	Fractional	InLift ATHENA
Indication	• Drug delivery • LASER peel • Pigmentary lesions	• Fine wrinkles • Light rejuvenation	• Deep wrinkles • Furrows • Scars • Stretch marks	• Intraoral lifting • Lip volume • Intimate feminine treatment • Intimate lightening
Downtime	1–2 days	2–4 days	3–7 days	None

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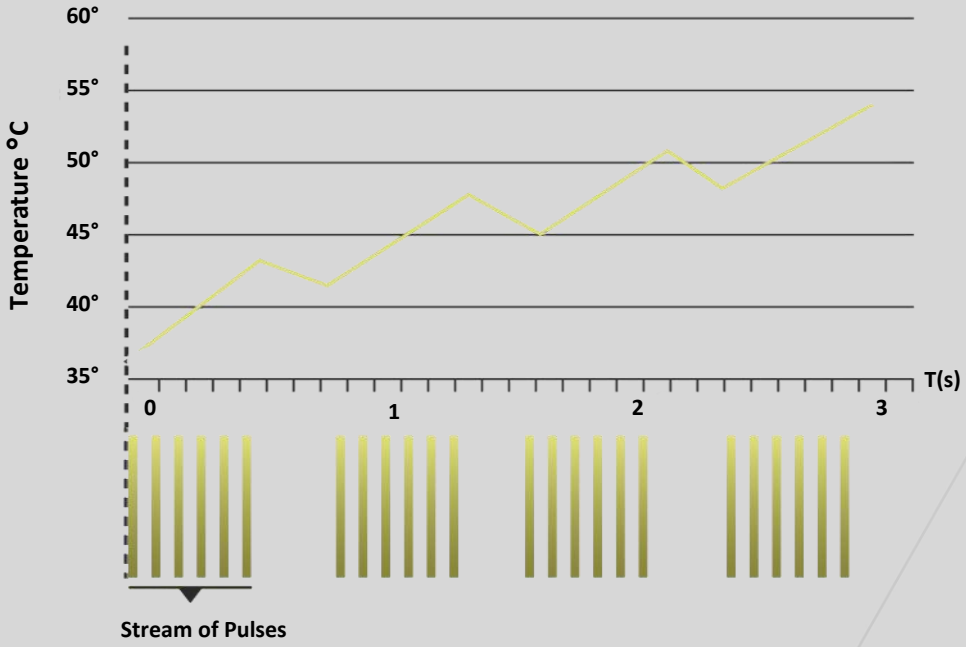
FEATURES & TECHNOLOGY

DUALMODE

TECHNICAL CHARACTERISTICS



- Spots: ATHENA® 90, ATHENA® 360 and InLift®. Work with a stream of pulses in the smooth pulse format: a sequence of 8 shots (on/off), **totaling 400 ms**;
- Painless, less ablative effect and no downtime or need for specific posttreatment care

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FEATURES & TECHNOLOGY

DUALMODE

TECHNICAL CHARACTERISTICS

	DUALMODE
Wavelength	2940 nm Er:Yag
Operating mode	Single Mode and Dual Mode
Maximum energy	Up to 60 mj/mtz
Pulse time	300 µs to 5 ms; 400 ms
Frequency of operation	Up to 5 Hz*
Spots	Fractional 8 mm/100 mtz/cm2 Fractional 8 mm/400 mtz/cm2 Collimated 6 mm InLift® <u>OPTIONAL:</u> Collimated 2.5 mm ATHENA® Kit (90 and 360)
Additional	Integrated cooling or smoke venting adapter

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FEATURES & TECHNOLOGY

DUALMODE

TECHNICAL CHARACTERISTICS

- Versatility with 7 spots available;
- Spots with automatic recognition;
- Square applicator, providing more homogeneity.

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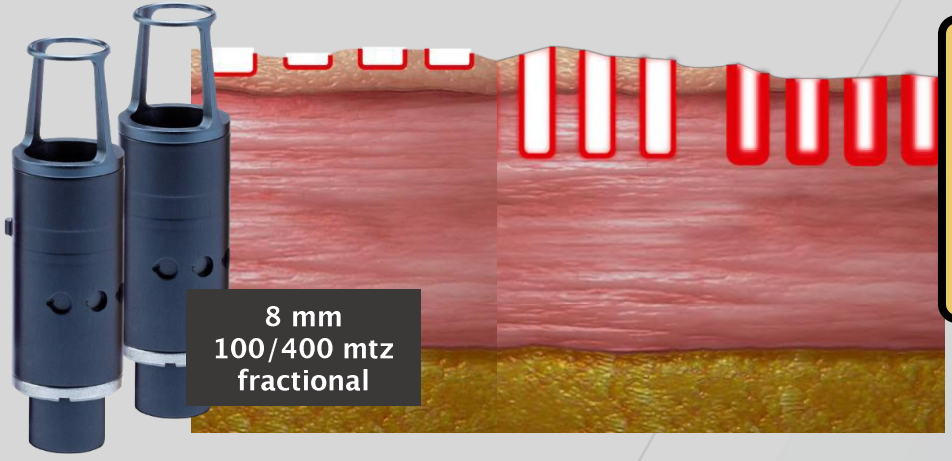
FEATURES & TECHNOLOGY

DUALMODE

SPOTS

- Superficial lesions



- Skin resurfacing
- Light wrinkles
- Deep wrinkles
- Scars

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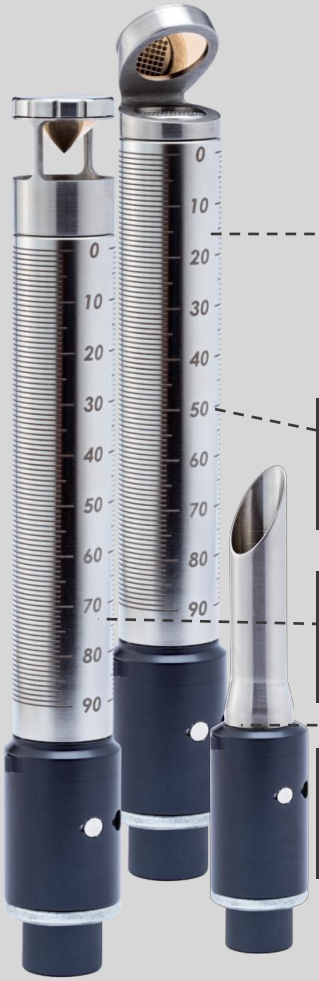
FEATURES & TECHNOLOGY

DUALMODE

SPOTS



ATHENA® 90+
fractional
and collimated

ATHENA® 360
fractional
and collimated

InLift®
fractional
and collimated

- Use in Gynecology

- Intraoral treatment

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DUALMODE

DualMode®: **interface and parameterization**

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INTERFACE AND PARAMETERIZATION

INTERFACE ETHEREA-MX

selection of **operating mode** – SINGLE MODE or DUAL MODE

automatic recognition of the **handpiece** and **spot**

fluence: energy delivered per area (mJ/mtz)

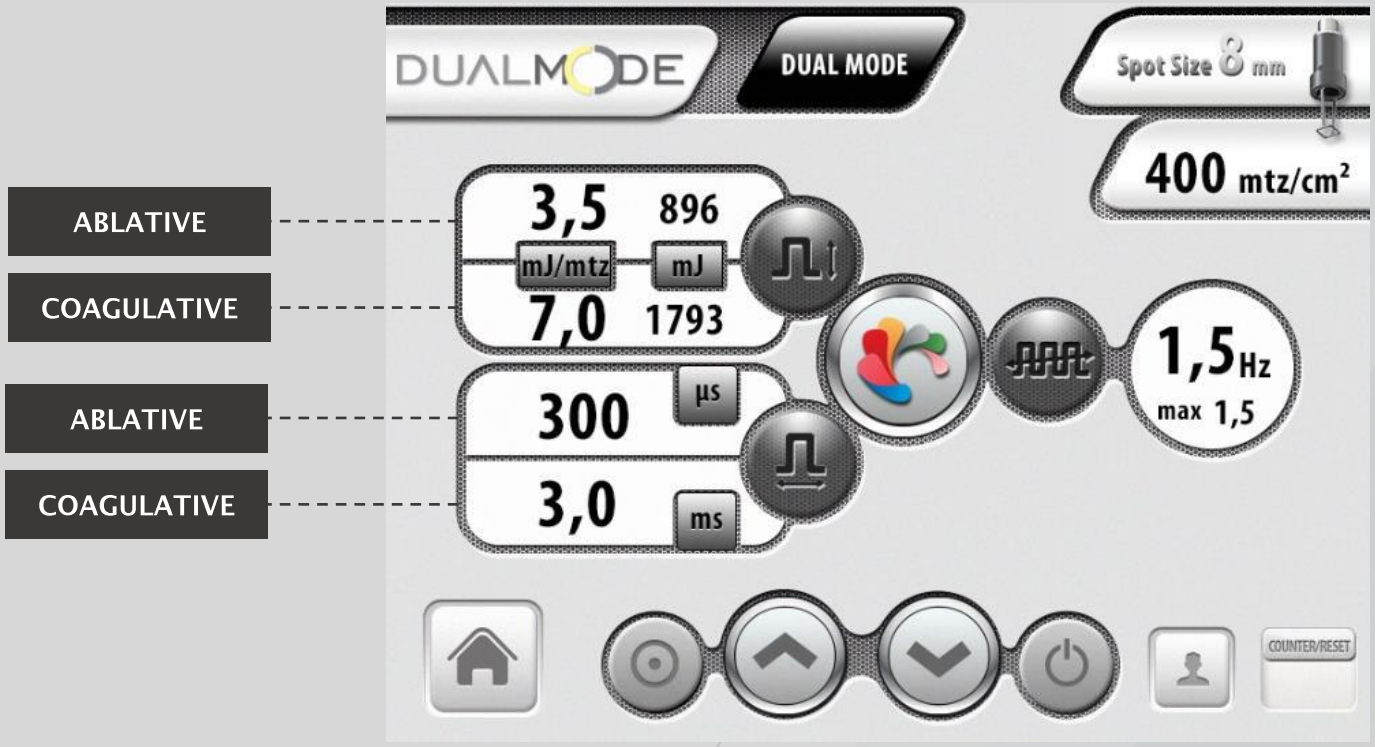
pulse time: time for the fluence to be delivered

frequency or repetition rate between the shots

INTERFACE AND PARAMETERIZATION

INTERFACE ETHEREA-MX

- **DUAL MODE: ablative pulse followed by a coagulative pulse;**



INTERFACE AND PARAMETERIZATION

DUALMODE

INTERFACE ETHEREA-MX

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DUALMODE

DualMode®: **practice and training**

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PRACTICE AND TRAINING

DUALMODE

QUICK REFERENCE GUIDE

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PRACTICE AND TRAINING

DUALMODE

INDICATION

- Superficial lesions
- Skin resurfacing
- Light wrinkles
- Deep wrinkles
- Scars
- Intraoral treatment
- Feminine intimate treatment

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PRACTICE AND TRAINING

DUALMODE

CLINICAL GUIDE – INTRAORAL TREATMENT

courtesy of: Moysés da Costa Lemos, MD, São Carlos, SP, Brazil

USAGE PARAMETERS	
Spot:	InLift® fractional
Mode:	Fractional
Fluence:	30 to 40 mJ/mtz
Pulse time:	Smooth Pulse
Shots:	Jugal/SNG: 100 to 150/side
Sessions:	4
Interval:	15 days

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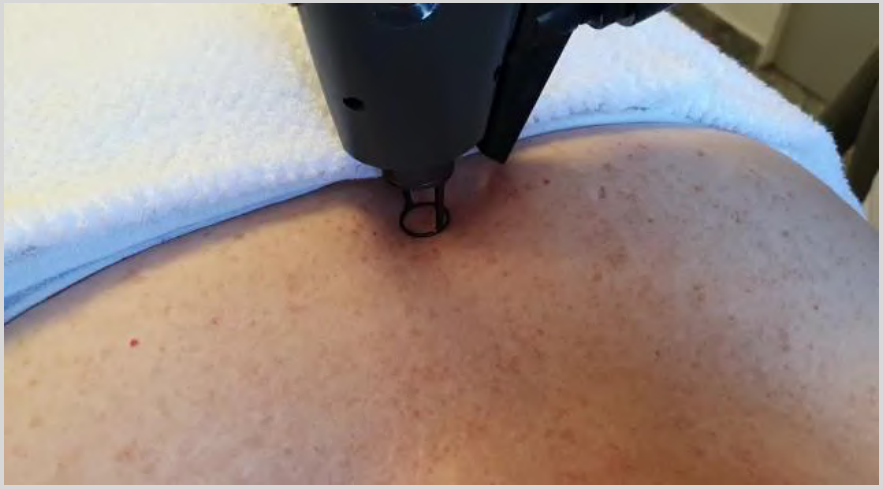
PRACTICE AND TRAINING

DUALMODE

CLINICAL GUIDE – SUPERFICIAL LESIONS



USAGE PARAMETERS	
spot:	collimated 2.5 or 6 mm
fluence:	2.5 to 16 J/cm²
pulse time:	300 µs
passes:	1 to 4
sessions:	2 to 3
interval:	30 to 60 days

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PRACTICE AND TRAINING

DUALMODE

CLINICAL GUIDE – SKIN RESURFACING

Optionally, this can be done with the fractional spot at 100 mtz/cm2, with fluence from 10 to 12.5 mj/mtz.

USAGE PARAMETERS	
spot:	fractional 8/400 mtz/cm2
fluence:	2.5 to 3.5 mJ/mtz
pulse time:	single mode 300 µs
passes:	1 to 3
sessions:	1 to 3
interval:	30 days

PRACTICE AND TRAINING

DUALMODE

CLINICAL GUIDE – LIGHT WRINKLES

Optionally, this can be done with the fractional spot at 400 mtz/cm2, with a pulse time of 2 ms and fluence from 2 to 7.5 mj/mtz.

USAGE PARAMETERS	
spot:	fractional 8/100 mtz/cm2
fluence:	12.5 to 37.5 mJ/mtz
pulse time:	1 to 2 ms
passes:	1 to 4
sessions:	3 to 5
interval:	30 days

PRACTICE AND TRAINING

DUALMODE

CLINICAL GUIDE – DEEP WRINKLES AND SCARS

USAGE PARAMETERS	
spot:	fractional 8/100 mtz/cm2
fluence:	12.5 to 15 mJ/mtz and 20 to 52.5 mJ/mtz
pulse time:	DualMode 300 µs and 3 to 5 ms
passes:	1 to 2
sessions:	3 to 5
interval:	30 to 60 days

Optionally, this can be done with the fractional spot at 400 mtz/cm2, with the pulse time from 300 µs and 3 ms, fluence from 2 to 3 mJ/mtz and 3 to 9 mj/mtz.

PRACTICE AND TRAINING

DUALMODE

CLINICAL GUIDE – DEEP WRINKLES AND SCARS

CONTRAINDICATIONS	PRETREATMENT	POSTTREATMENT
▪ Application in locations with nonabsorbable fillers ▪ Botulinum toxin only 30 days after the procedure	▪ Herpes prophylaxis (if necessary) ▪ Topical anesthetic (removed completely before the session)	▪ Drug delivery or LED ▪ At home: cold chamomile tea compresses and Cicaplast® Balm ▪ Avoid makeup and sunscreen (24 hours, colorless than 48 hours with color)

PRACTICE AND TRAINING

CLINICAL GUIDE – FEMININE INTIMATE TREATMENT

- ↑ speed of mitosis → ↑ rate of epithelialization of the vulva and the vaginal canal
- ↑ local circulation → angiogenesis:
- → ↑ glycogen → Maintenance of the vaginal flora and pH
- → neocollagenosis → ↑ collagen

PRACTICE AND TRAINING

DUALMODE

CLINICAL GUIDE – FEMININE INTIMATE TREATMENT

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PRACTICE AND TRAINING

CLINICAL GUIDE – FEMININE INTIMATE TREATMENT

USAGE PARAMETERS	
spot:	ATHENA® 90+
mode:	Fractional
fluence:	30 to 40 mJ/mtz
pulse time:	Smooth Pulse
shots:	4 shots per point of the interior wall (11, 12 and 1 o'clock)
retraction:	8 to 9 mm
passes:	1
sessions:	3 to 5 annual review
interval:	30 to 60 days

PRACTICE AND TRAINING

DUALMODE

CLINICAL GUIDE – FEMININE INTIMATE TREATMENT

USAGE PARAMETERS	
spot:	ATHENA® 360 (with or without fractionator)
fluence:	1.5 to 2.5 J/cm2
pulse time:	Smooth Pulse
shots:	4 / point of retraction
retraction:	4 to 5 mm
passes:	3
sessions:	3 to 5 annual review
interval:	30 to 60 days

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PRACTICE AND TRAINING

DUALMODE

CLINICAL GUIDE – FEMININE INTIMATE TREATMENT

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PRACTICE AND TRAINING

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CLINICAL GUIDE – FEMININE INTIMATE TREATMENT

Contraindications	Pretreatment	Posttreatment
▪ Menstrual period ▪ Untreated STD ▪ Altered Pap smear (6 months)	▪ Herpes prophylaxis (if necessary) ▪ Remove hair in the region for treatment of the external area ▪ Topical anesthetic in the vulva and in the vaginal introitus (remove completely) ▪ Inspection and drying of the vaginal canal (optional)	▪ Erythema, sensitivity, pruritus, scab formation and hyperpigmentation ▪ Not have sexual relations for seven days ▪ CICAPLAST® on the external part for 2 or 3 days* ▪ HIDRAFEMME ® or HYALUFEM ® on the internal part for 7 days* ▪ Initial results after 21 days

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PRACTICE AND TRAINING

MY PRACTICE VYDENCE

my practice vydence

The MyPractice is a continued medical education program proposed by VYDENCE® to the doctors that use our products and technologies may share their experiences in a practical and quick way.

» My Practice Online

DUALMODE

DualMode®:
care and preventative maintenance

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CARE AND MAINTENANCE

CARE AND PREVENTATIVE MAINTENANCE

- Cleaning and disinfection of the applicator spots: use isopropyl alcohol (preferentially) with cotton swabs and/or gauze on the lenses and spacers;
- Spacers can be washed with soap and water and/or enzymatic detergent;
- Clean after each application. Careful in assembling the Spot 100 mtz/cm2;
- Pro rata guarantee of the handpiece: 500,000 shots;
- Damage from falls or misuse (usage not in accordance with the recommendations) is not covered;
- Careful during transportation, misalignment can result in ineffective treatment;
- Send the handpiece to technical support after reaching the recommended number of shots.

CARE AND MAINTENANCE

CARE AND PREVENTATIVE MAINTENANCE

- Wash with water and enzymatic detergent using gauze;
- Sterilize in an autoclave: 121 to 134°C, pressure of 1.2 to 2.2 kgf/cm2, for 20 minutes;
- **Never sterilize the optical bases**!
- Never store or sterilize dirty, with any residue or with signs of oxidation;
- InLift® applicator: can be cleaned in an autoclave or washed with soap and water or enzymatic detergent

CARE AND MAINTENANCE

CARE AND PREVENTATIVE MAINTENANCE

- Visual inspection of the mirrors in the speculum: they must be smooth, polished and not have excessive scratches;
- The gold mirrors must be changed periodically.

CARE AND MAINTENANCE

CARE AND PREVENTATIVE MAINTENANCE

WATCH NOW

Learn more about maintenance procedures on our channel:

vydence LASER ACADEMY tv

- Use only deionized water;
- Replace all the water in the reservoir annually;
- Change the ionizing filter annually;
- Annual inspection of the platform and handpieces.

DUALMODE

DualMode®:
cases and results

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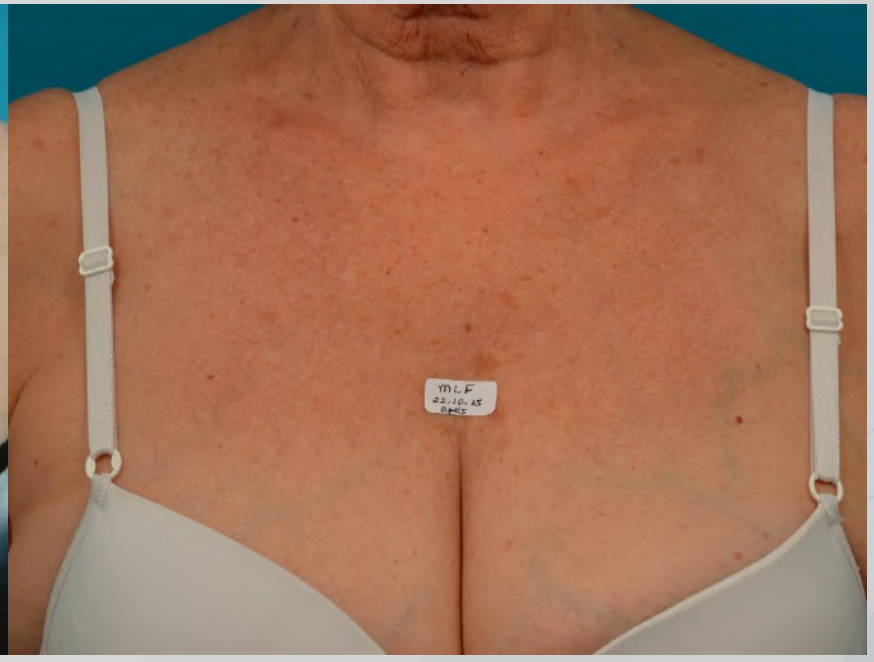
CASES AND RESULTS

DUALMODE

SKIN RESURFACING

VYDENCE Treatment Center
São Paulo, SP



BEFORE

AFTER 1 SESSION

IPL-Sq: filter 540 nm, 15 ms, 16 J/cm2
+ **DualMode:** single mode, 400 mtz/cm2, 300 µs, 2 mJ/mtz
+ drug delivery of vitamin C
1 treatment session

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CASES AND RESULTS

DUALMODE

SKIN RESURFACING

VYDENCE Treatment Center
São Paulo, SP

BEFORE

AFTER 1 SESSION

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CASES AND RESULTS

SKIN RESURFACING

VYDENCE Treatment Center
São Paulo, SP

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CASES AND RESULTS

DUALMODE

SKIN RESURFACING

VYDENCE Treatment Center
São Paulo, SP

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1 treatment session

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CASES AND RESULTS

DUALMODE

SKIN RESURFACING

VYDENCE Treatment Center

São Paulo, SP

BEFORE

AFTER 3 SESSIONS

DualMode: dual mode, 100 mtz/cm2, 300 µs and 5 ms, 15 mJ/mtz and 40 mJ/mtz
3 treatment sessions

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CASES AND RESULTS

DUALMODE

SKIN RESURFACING

VYDENCE Treatment Center
São Paulo, SP

BEFORE

AFTER 3 SESSIONS

DualMode: dual mode, 100 mtz/cm2, 300 µs and 5 ms, 15 mJ/mtz and 40 mJ/mtz
3 treatment sessions

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CASES AND RESULTS

DUALMODE

SKIN RESURFACING

VYDENCE Treatment Center
São Paulo, SP

BEFORE

AFTER 1 SESSION

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1 treatment session

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CASES AND RESULTS

DUALMODE

SKIN RESURFACING

VYDENCE Treatment Center

São Paulo, SP

BEFORE

AFTER 1 SESSION

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1 treatment session

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CASES AND RESULTS

DUALMODE

SKIN RESURFACING

VYDENCE Treatment Center
São Paulo, SP

BEFORE

AFTER 1 SESSION

DualMode: dual mode, 100 mtz/cm2, 300 µs and 5 ms, 15 mJ/mtz and 40 mJ/mtz
1 treatment session

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DUALMODE

clinical library

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CLINICAL LIBRARY

CO2 vs ER:YAG

DUALMODE

Arch Dermatol. 1999;135:391-397

STUDY

Comparison of Erbium:YAG and Carbon Dioxide Lasers in Resurfacing of Facial Rhytides

Khalil A. Khatri, MD; Victor Ross, MD; Joop M. Grevelink, MD, PhD; Cynthia M. Magro, MD; R. Rox Anderson, MD

21 patients treated with one session of CO2 Laser (2 to 3 passes) on the right side of the face and Er:Yag (5 to 8 passes) on the left side of the face.
After six months, no significant differences were noted in the results and the recovery of the half of the face treated with Laser Erb:Yag was considerably faster than the side treated with CO2 Laser.

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CLINICAL LIBRARY

CO2 vs. ER:YAG

DUALMODE

Lasers in Surgery and Medicine 42:160–167 (2010)

Ablative Fractional Lasers (CO_2 and Er:YAG): A Randomized Controlled Double-Blind Split-Face Trial of the Treatment of Peri-Orbital Rhytides

Syrus Karsai, MD,[1] Agnieszka Czarnecka, MD,[1] Michael Jünger, MD, PhD,[2] and Christian Raulin, MD, PhD[1,3]*
[1]*Laserklinik Karlsruhe, Kaiserstr. 104, D-76133 Karlsruhe, Germany*
[2]*Department of Dermatology, University of Greifswald, Ferdinand-Sauerbruch-Strasse, D-17475 Greifswald, Germany*
[3]*Department of Dermatology, University of Heidelberg, Voßstr. 2, D-69115 Heidelberg, Germany*

TABLE 3. Patient Satisfaction

	Which of the sides caused more discomfort?			Which of the sides would you undergo again or recommend to others?			
Time	CO_2	Er:YAG	Neither	CO_2	Er:YAG	Both	Neither
1 day after treatment	13 (46.4%)	14 (50.0%)	1 (3.6%)	14 (50.0%)	6 (21.4%)	4 (14.3%)	4 (14.3%)
3 days after treatment	11 (39.3%)	13 (46.4%)	4 (14.3%)	13 (46.4%)	6 (21.4%)	5 (17.9%)	4 (14.3%)
6 days after treatment	15 (53.6%)	11 (39.3%)	2 (7.1%)	10 (35.7%)	10 (35.7%)	6 (21.4%)	2 (7.1%)
3 months after treatment	17 (60.7%)	9 (32.1%)	2 (7.1%)	8 (28.6%)	13 (46.4%)	5 (17.9%)	2 (7.1%)

28 patients treated with CO2 Laser on the left side of the face and Er:Yag on the right side. After three months: 13 patients would recommend the Er:Yag, 8 would recommend the CO2 Laser, 5 would recommend both and 2 would not recommend either one.

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CLINICAL LIBRARY

CO2 vs ER:YAG

DUALMODE

Lasers in Surgery and Medicine 27:395–403 (2000)

Collagen Tightening Induced by Carbon Dioxide Laser Versus Erbium:YAG Laser

Richard E. Fitzpatrick, MD,[1,2*] Elizabeth F. Rostan, MD,[2] and Nancy Marchell, MD[3]

[1]Division of Dermatology, Department of Medicine, University of California at San Diego, San Diego, California
[2]Dermatology Associates of San Diego County, Inc., San Diego, California
[3]Laguna Hills Dermatology, Inc., Laguna Hills, California

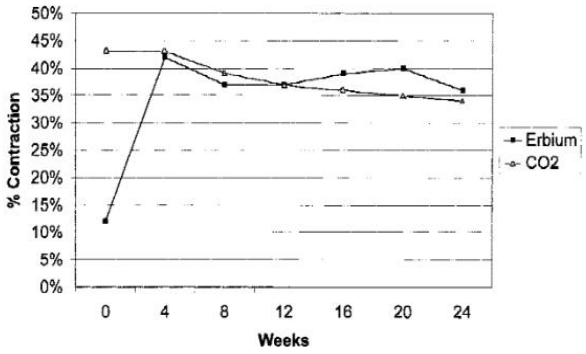

Fig. 4. CO_2 laser collagen tightening versus erbium laser wound contracture in the vertical plane.

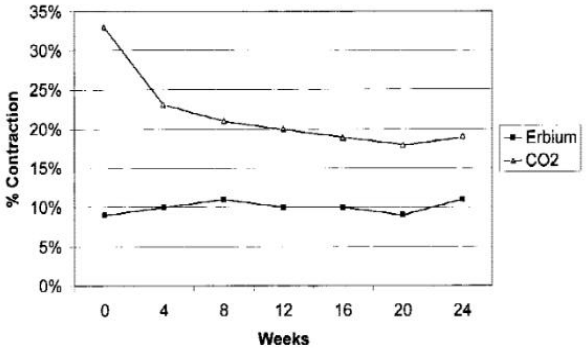

Fig. 5. CO_2 laser collagen tightening versus erbium laser wound contracture in the horizontal plane.

9 patients were tattooed with 4 points on each upper eyelid. After 1 month they were treated with 1 session of CO2 on one eyelid and 1 session of Er:Yag on the other one. After 6 months, the retraction of both sides was similar.
VERTICAL PLANE: Average retraction of 34% with CO2 and 36% with Er:Yag
HORIZONTAL PLANE: Average retraction of 19% with CO2 and 11% with Er:Yag

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SLEEP-DISORDERED BREATHING

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Er:YAG Laser Treatment of Sleep-Disordered Breathing

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Fig. 3: Patient's mouth before treatment (Class 4).

Fig. 4: Immediately after the first treatment (Class 2).

Fig. 5: After three treatments (Class 1).

75 patients with sleep-disordered breathing were treated with 3 sessions of Er:Yag Laser during a 45-day period. In the photo: before, immediately after the session and after 3 sessions, respectively. From 6 to 12 months after the treatment, the patients' companions were interviewed and 90% said they were satisfied with the treatment in relation to decreased nighttime snoring.

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GENITOURINARY SYNDROME OF MENOPAUSE

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Menopause: The Journal of The North American Menopause Society
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The effect of vaginal erbium laser treatment on sexual function and vaginal health in women with a history of breast cancer and symptoms of the genitourinary syndrome of menopause: a prospective study

Fernanda Arêas, MD, MSc,[1] Ana L. R. Valadares, MD, PhD,[1] Délio Marques Conde, MD, PhD,[2] and Lúcia Costa-Paiva, MD, PhD[1]

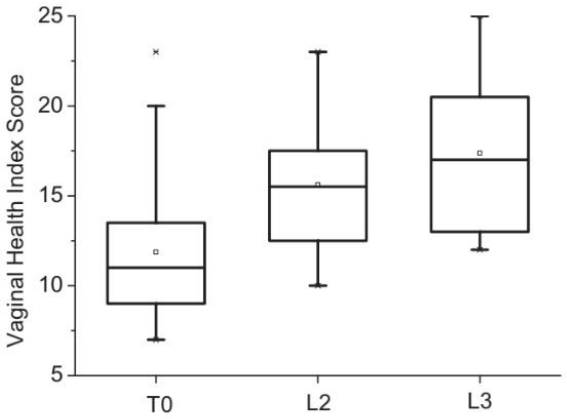

FIG. 1. Vaginal Health Index Score before and after two vaginal erbium laser sessions (n = 24). T0, immediately before the first session; L2, immediately before the second session; L3, immediately preceding the third session; VEL: vaginal Erbium laser; VHIS, Vaginal Health Index Score. $P < 0.001$: 1≠2, 1≠3, 2≠3. *P* value refers to Friedman test for comparison of VHIS between three sessions.

24 postmenopausal women with a history of breast cancer and vaginal dryness and/or dyspareunia were treated with 3 sessions of ATHENA®, with an interval of 30 days. The illustration shows the increase in the Vaginal Health Index Score, which takes into consideration factors such as: vaginal elasticity, moisture and pH; sexual function and control of dyspareunia.

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