


VELA Vaginal Erbium Laser Academy

# Il trattamento laser nell'atrofia vulvovaginale: risultati e prospettive

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# Women's Health and QoL in the Evidence Based Medicine era

Treatment for GSM includes

- nonhormonal vaginal lubricants and moisturizers
- low-dose vaginal estrogen therapy
- systemic HRT (when prescribed VMS)
- Ospemifene (SERM)
- Prasterone (DHEA)
- **VEL-Smooth®**

Is the Vaginal Laser an EBM option ?

# GENITOURINARY SYNDROME OF MENOPAUSE

Treatment for GSM includes **VEL-Smooth®**

- **Extensive preclinical studies**
- **Histological evaluation**
- **Large databases**
- **Head to head comparison studies with standard therapies**
- **Long term, prospective studies**

# Advantages of VEL

- Safe & office procedure (20-30 min./treatment)
- Non-invasive (no cutting, no bleeding, no ablation)
- walk-in/walk-out procedure
- Virtually painless, no anesthesia needed
- No special pre- or post-op treatments
- No consumables required
- No downtime
- High success rate





# G – set complete

## Speculums Range:

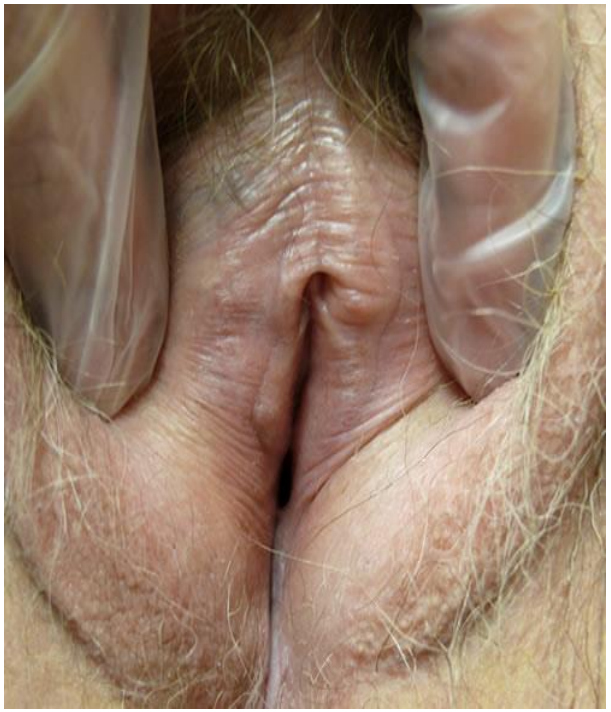
- Standard
- Slim
- Slim long (SL)
- MClear (multiple use)
- SClear (single use)



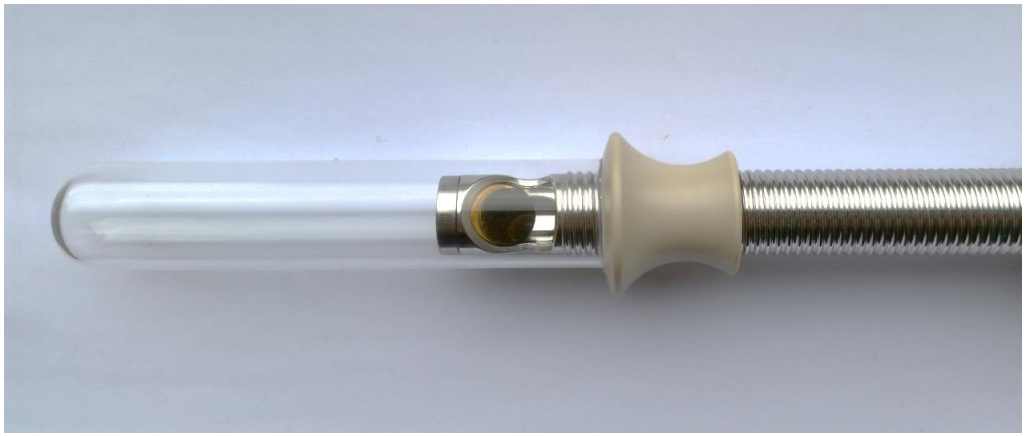




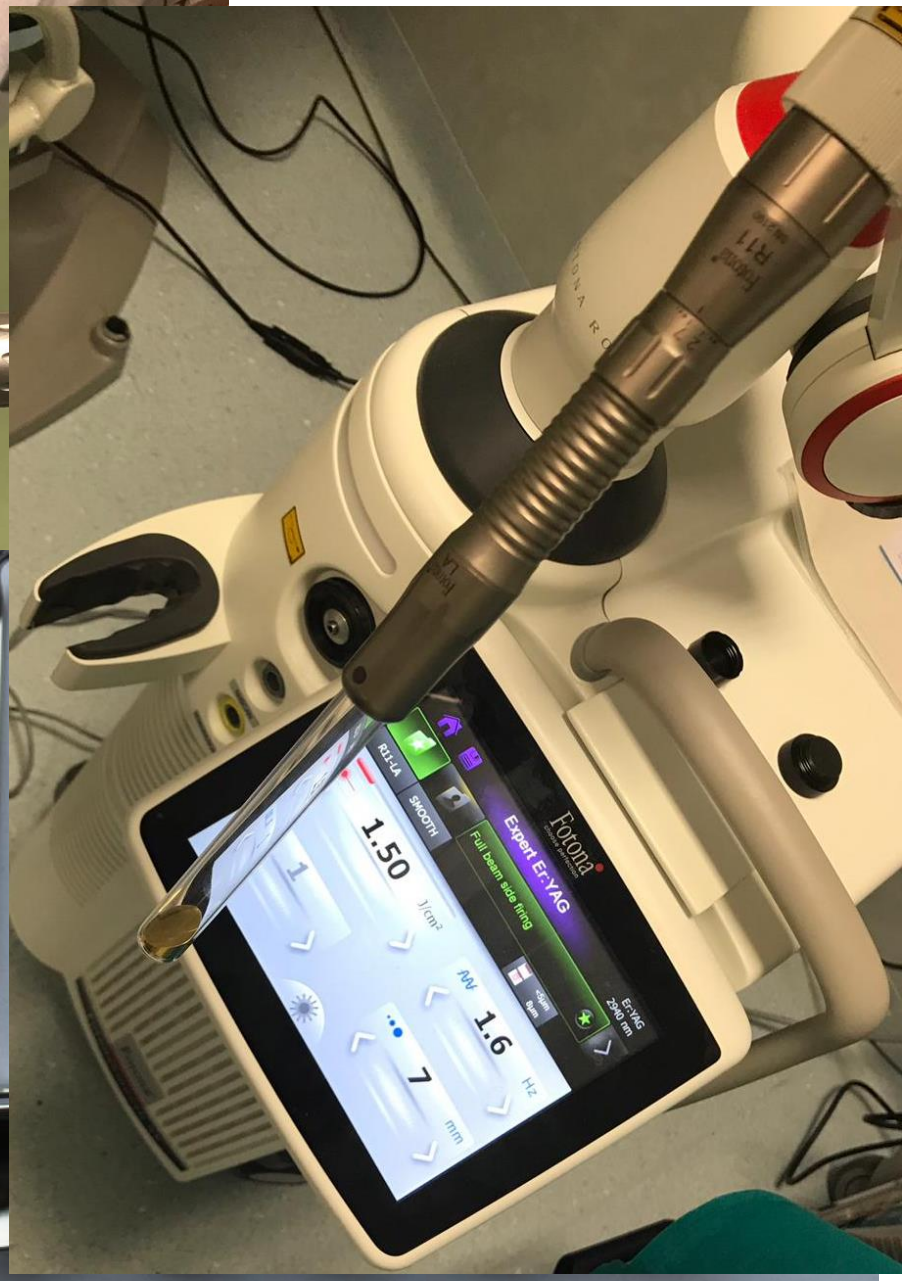
# Glass speculum for a comfortable procedure



## Glass speculum










# Speculums Range:

- Standard
- Slim
- Slim long (SL)
- MClear (multiple use)
- SClear (single use)

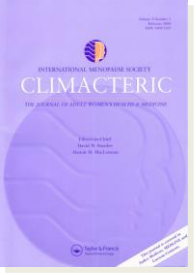


Vaginal Erbium Laser Academy



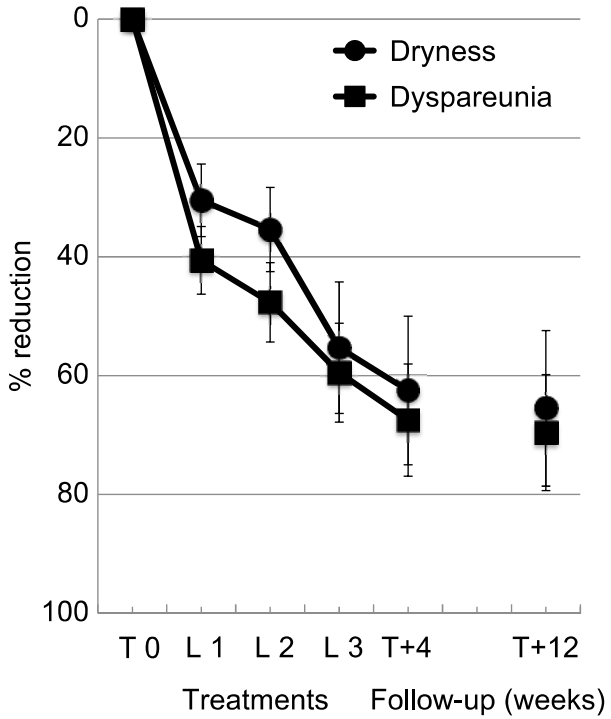
*Vaginal Erbium:Smooth Laser (VEL®)*
*in postmenopausal women*

# EFFECTS ON SIGNS AND SYMPTOMS

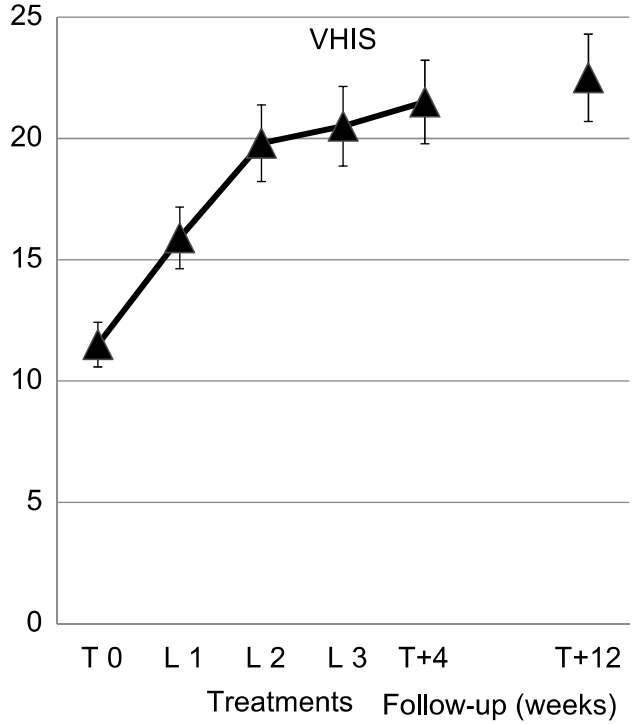



# Vaginal dryness and dyspareunia in patients suffering from GSM.

**visual analog score (10-point scale)**




**vaginal health index score (VHIS)**




n=105

**The results are expressed as percent variation from basal values**

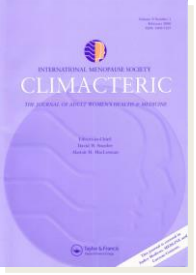
*Gambacciani et al., CLIMACTERIC 2015;18(Suppl 1):43–48*



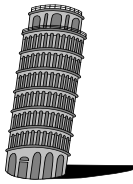


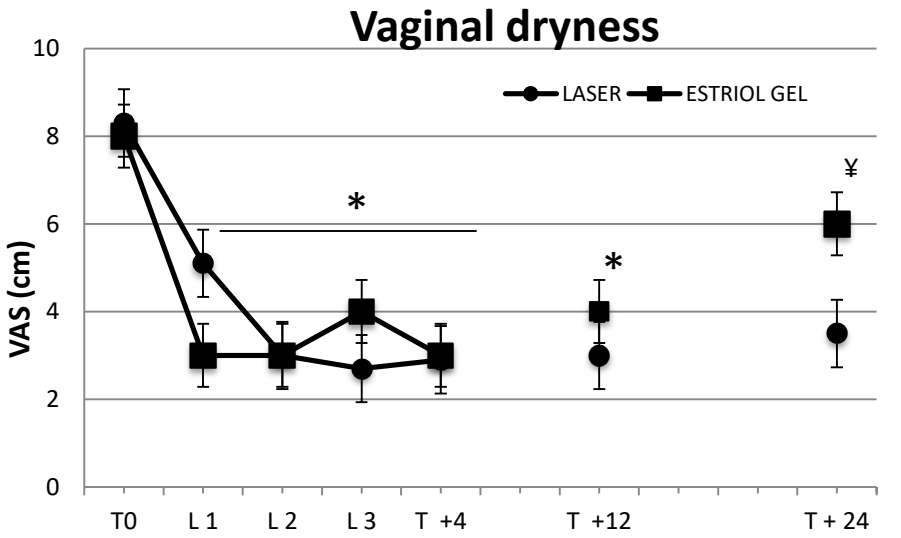
*Vaginal Erbium:Smooth Laser (VEL®)*
*in postmenopausal women*

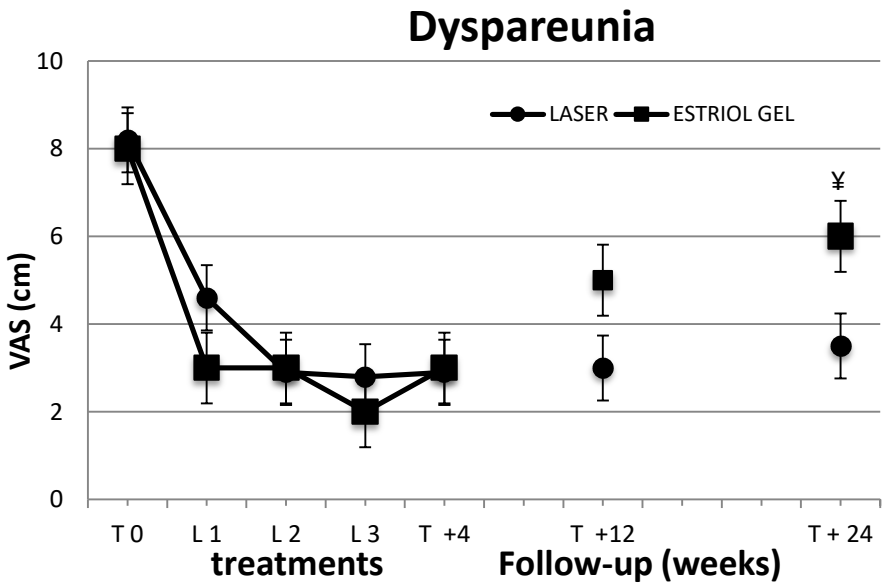
# HOW CAN WE COMPARE VEL WITH STANDARD TREATMENTS ?




# Effect of second-generation laser thermotherapy on vaginal dryness and dyspareunia






**Laser group n=43**
**Estriol group n=19**

Gambacciani M, Levancini M, Cervigni M, Climateric 2015

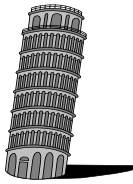
Laser & Health ACADEMY





# VEL: The the Second Generation Thermotherapy for the GSM

## How long the results may last ?

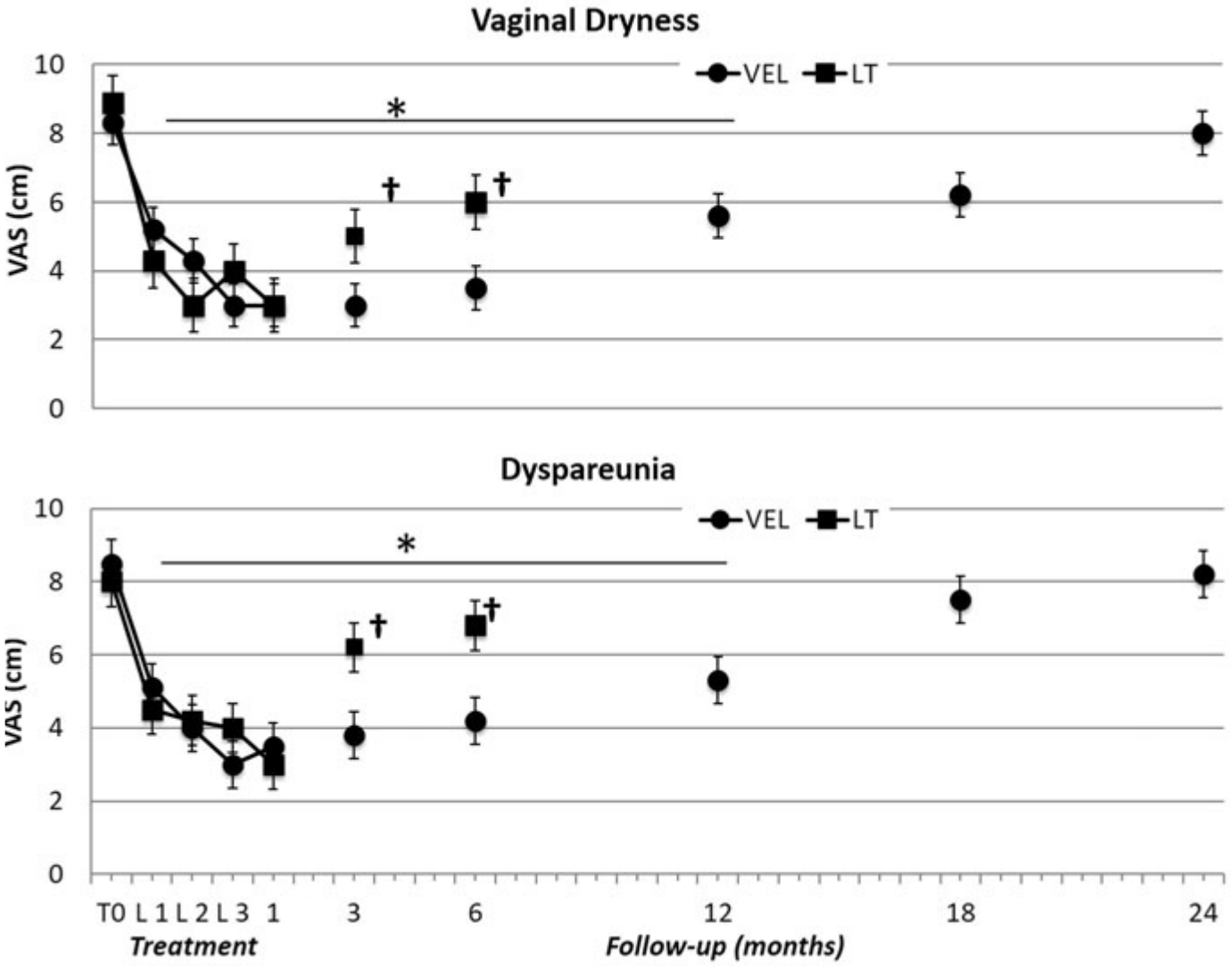


# Baseline characteristics of participants who completed the study

| | VEL group<br>N= 205 | LT group<br>N=49 |
|---|---|---|
| **Age (years)** | **61.2 ± 7.2** | **62.0 ± 7.5** |
| **Age at Menopause** | **47.9 ± 5.7** | **50.5 ± 4.3** |
| **Years since menopause** | **13.4 ± 7.2** | **12.8 ± 3.8** |
| **Body mass index ($kg/m^2$)** | **27.1 ± 5.3** | **25 ± 5.4** |

Gambacciani et al., Climacteric 2018

# Effect of second-generation laser thermotherapy on vaginal dryness and dyspareunia




Gambacciani et al., Climacteric 2018

* p<0.01 vs corresponding basal values in both groups; T p<0.05 vs LT basal values and corresponding VEL group values

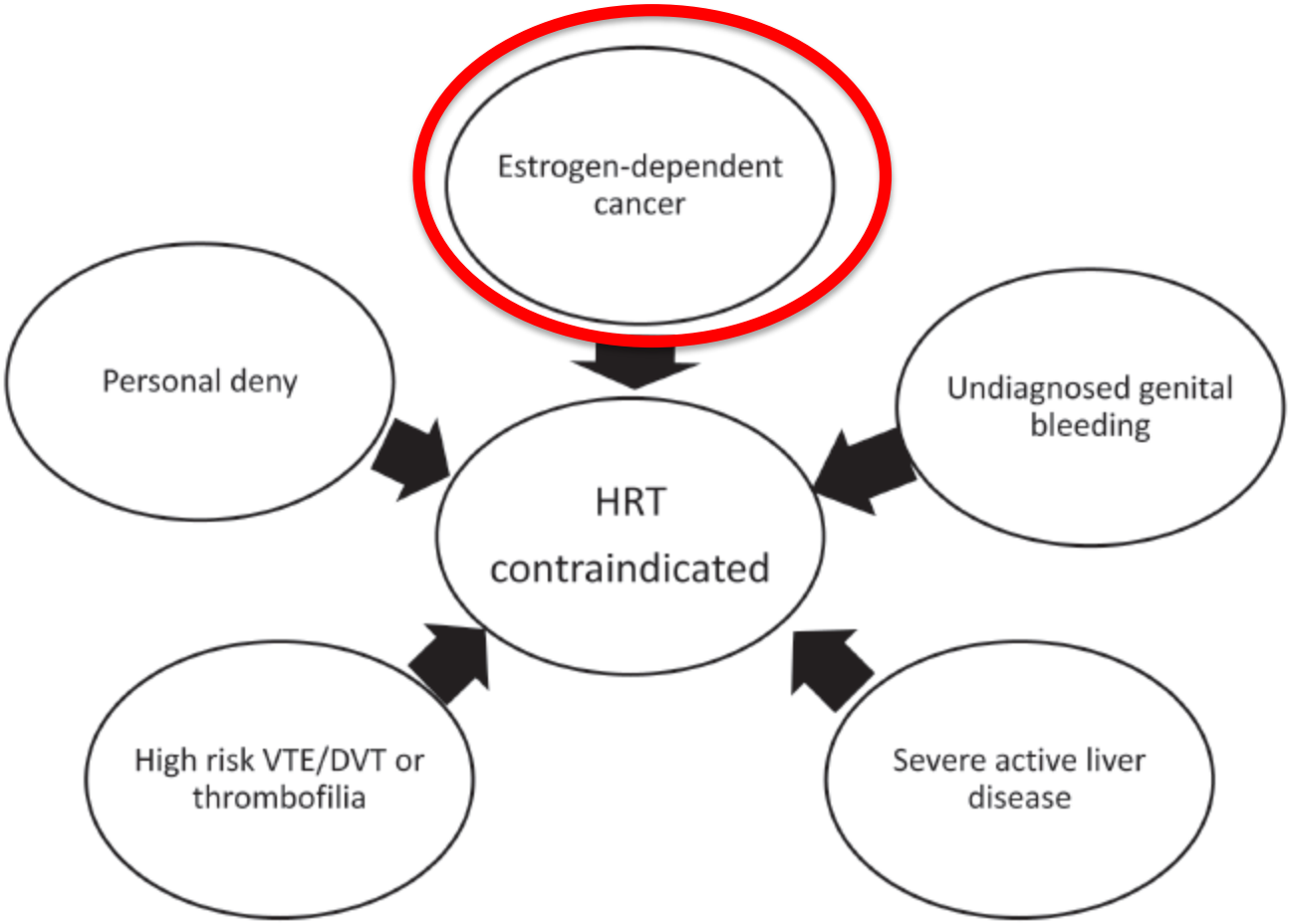
# Effect of second-generation laser thermotherapy on vaginal dryness and Dyspareunia

| | Atrophy | | Dyspareunia | | VHIS | | VEL | | |
|---|---|---|---|---|---|---|---|---|---|
| | VEL | LT | VEL | LT | VEL | LT | Group (N) | Effective (Months) | **Repeat (N)** |
| **Basal** | 8.3±1.5 | 8.0±2.7 | 8.5±1.3 | 8.0±2.7 | 10,6±2.7 | 10.8±1.7 | 205 | | |
| **L1** | 5.2±1.7* | 3.1±1.5 | 5.1±1.8* | 4.5±1.5* | 16.2±1.5* | 18±2.5* | 205 | | |
| **L2** | 4.3±20* | 3.0±2.0* | 4.0±1.9* | 4.2±2.0* | 18.1±2.0* | 19±2.4* | 205 | | |
| **L3** | 3.0±1.3* | 4.0±2.1* | 4.1±1.9* | 3.8±2.1* | 19.5±1.2* | 18±2.6* | 205 | | |
| **1 m** | 3.0±1.1* | 3.0±1.5* | 3.5±1.0* | 4.0±1.5* | 20.1±1.3* | 18±2.8* | 204 | | |
| **3 m** | 3.0±0.9*† | 5.0±2.9 | 3.8±1.5* | 6.8±1.5† | 19.5±1.5* | 16±2.7* | 203 | 23 | **2** |
| **6 m** | 3.5±1.2* | 6.0±3.2† | 4.2±2.0* | 7.7±2.7† | 18.7±1.5* | 12±2.9* | 163 | 18 | **20** |
| **12 m** | 5.6±1.5* | -- | 5.3±2.2* | -- | 16.5±2.0* | -- | 152 | 103 | **62** |
| **18 m** | 6.2±1.3 | -- | 7.5±2.3 | -- | 15.3±2.0* | -- | 119 | 49 | **55** |
| **24 m** | 7.0±1.0 | -- | 8.2±2.4 | -- | 12.7±2.7 | -- | 66 | 5 | **34** |

**N= 173 , 84.3%**

Gambacciani et al., Climacteric 2018

# HRT Contraindications



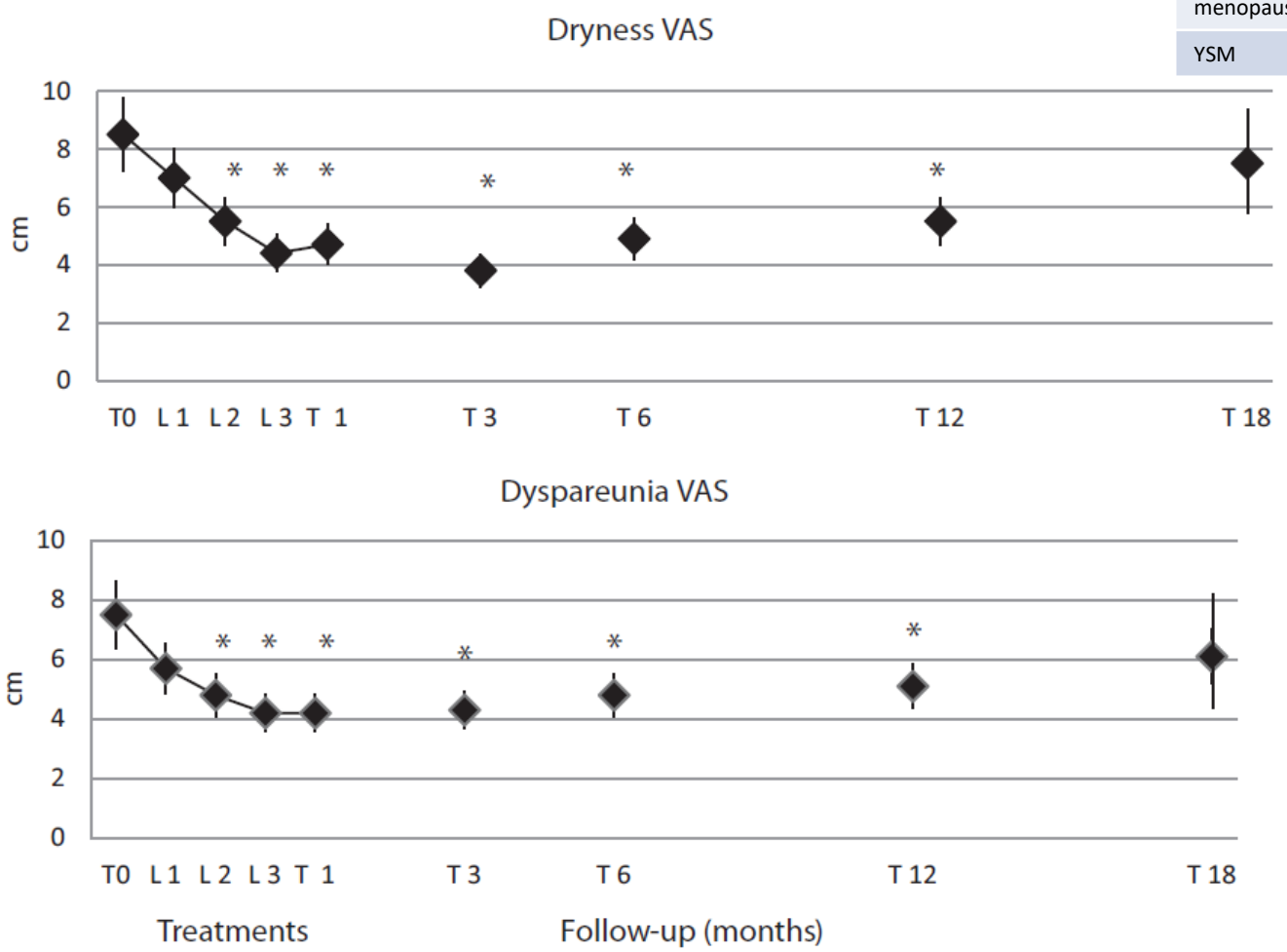



Gambacciani & Levancini, Minerva Ginecologica 2015

# Vaginal Erbium Laser: the Second Generation Thermotherapy for the Genitourinary Syndrome of Menopause (GSM) in Breast Cancer Survivors

**N=37**

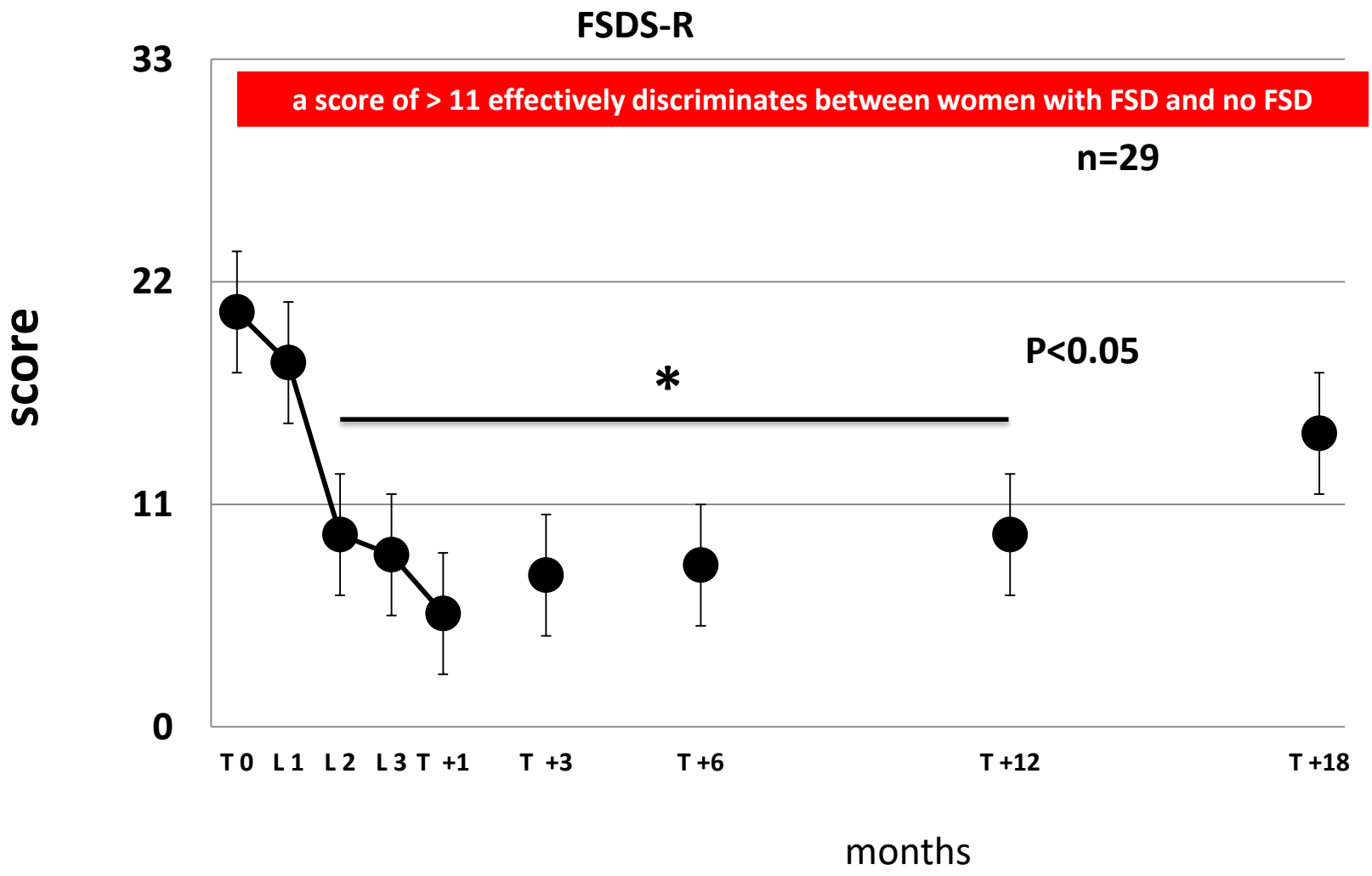
| | mean | SD | Max-Min |
|---|---|---|---|
| age | 50.8 | 8,1 | 38-70 |
| Age at menopause | 43,2 | 5 | 31-55 |
| YSM | 9 | 4 | 1-18 |




Gambacciani & Levancini, Menopause . 24(3):316-319, March 2017

# The hypoactive sexual desire disorder in Breast Cancer Survivors

Effect of second generation laser thermotherapy on the Female Sexual Distress Scale –Revised (FSDS-R)



# Vaginal EerbiumSmooth Laser Academy




**47 Italian Centers**

**1286** PATIENTS
**5529** QUESTIONNAIRES

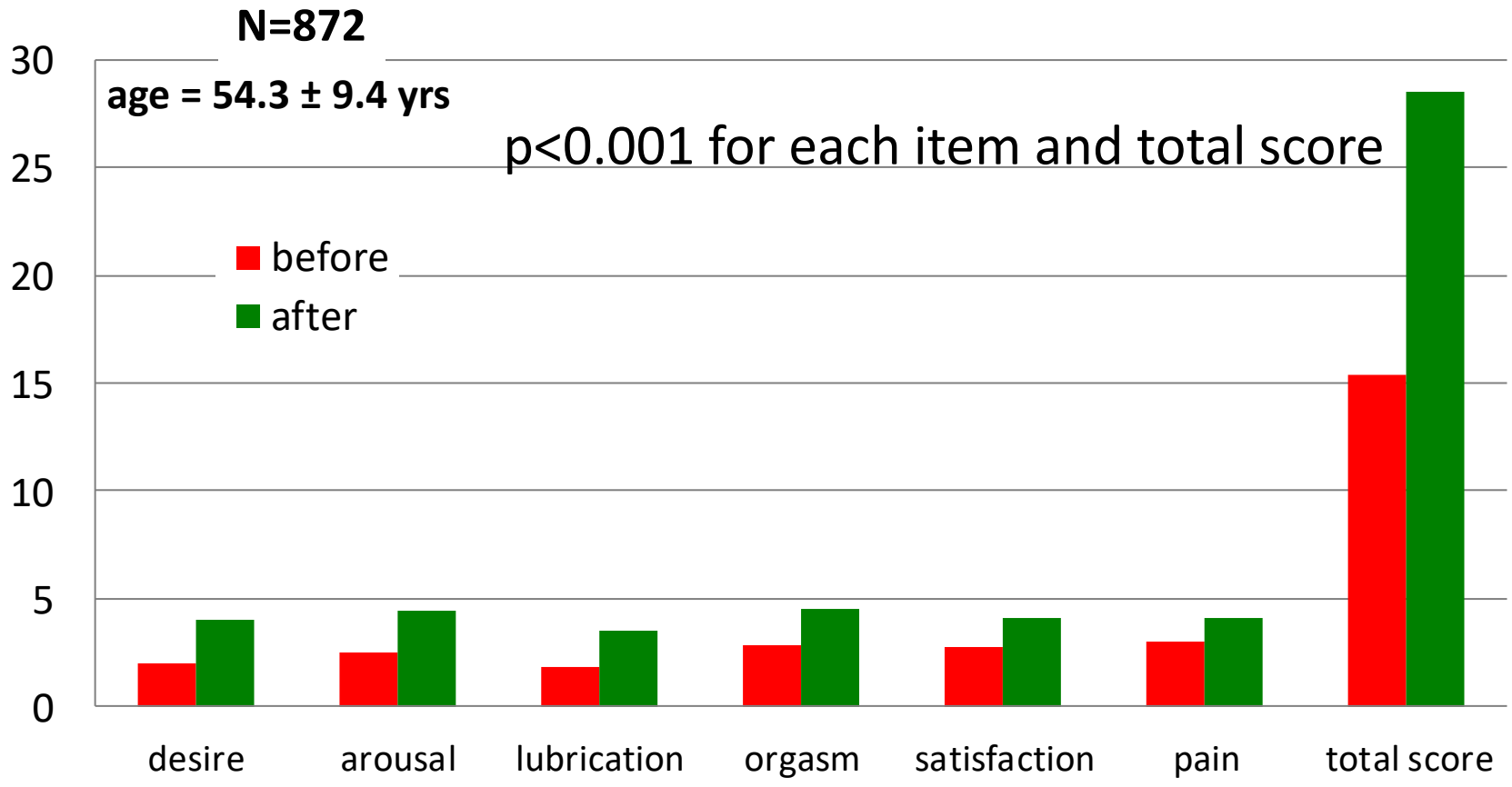
- FSFI test: **1156**
- ICIQ tests: **1323**
- FSDS tests: **1296**
- VAS **205**

520 pts
under evaluation

**766** pts
Valid completers

**2298**
laser treatments

# female sexual function index (FSFI)




The total score from basal values of 15.5 ± 4.2 reached 28.5 ± 2.5

Fotona
choose perfection



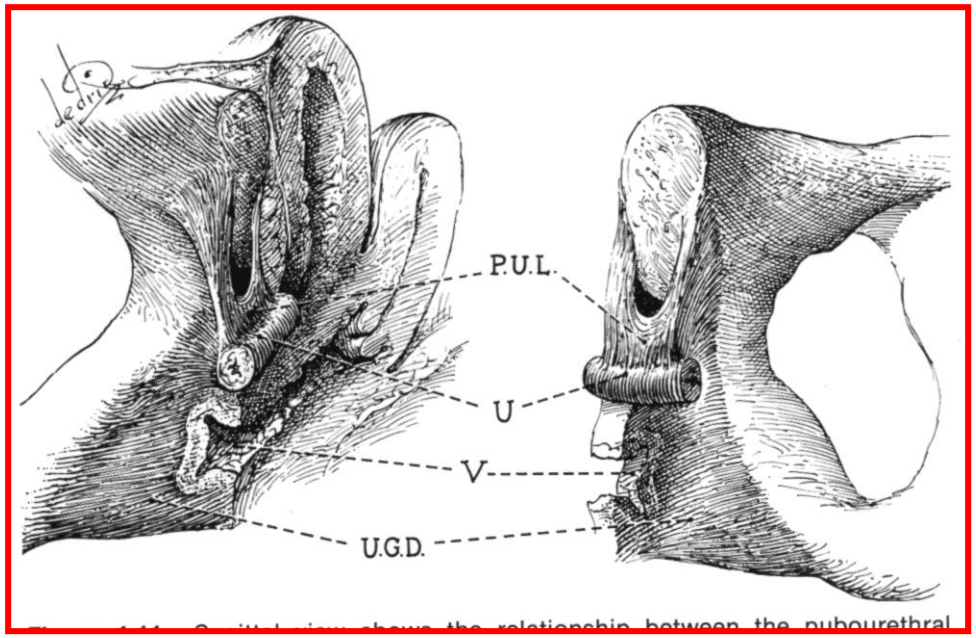
# VEL: The Second Generation Thermotherapy for the GSM

## Stress Urinary Incontinence



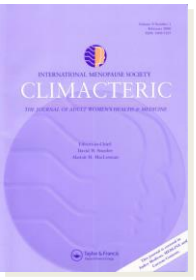
# The female urethral sphincter

- **Connective tissue 56%**
- Smooth muscle 30%
- Blood vv 11%
- Striated muscle 2%
- Nerves 1%



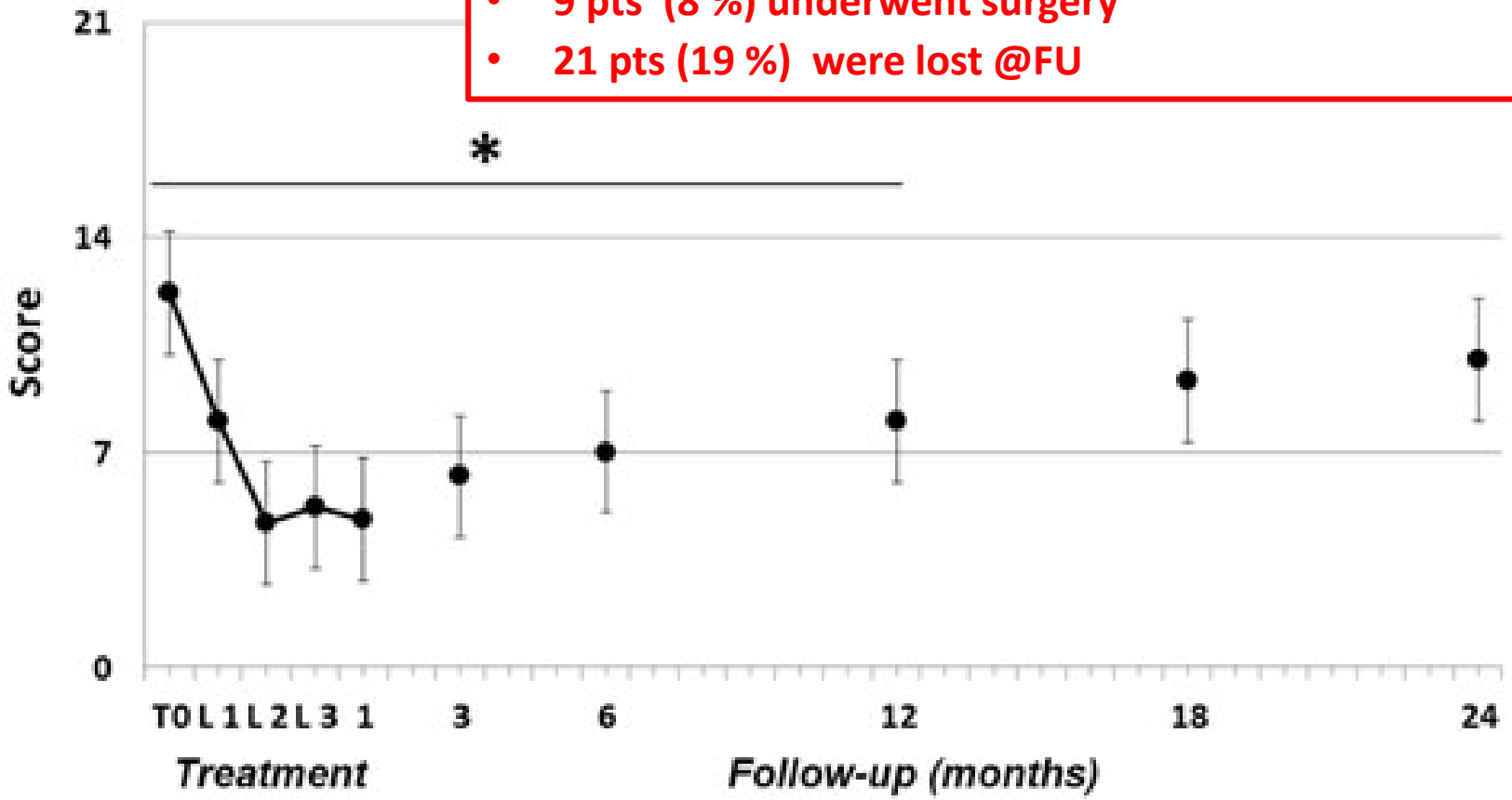

courtesy of M.Cervigni

Verelst M et al 2002




# Effect of second generation laser thermotherapy on ICIQ- SF score in 114 PMW suffering from SUI

- 79 Pts (69 % ) repeated the treatment after 12-24 months
- 5 pts (4 %) were satisfied after 24 m
- 9 pts (8 %) underwent surgery
- 21 pts (19 %) were lost @FU




Gambacciani et al., Climacteric 2018

European Journal of Obstetrics & Gynecology and Reproductive Biology 224 (2018) 153–158

Contents lists available at ScienceDirect

European Journal of Obstetrics & Gynecology and Reproductive Biology

journal homepage: www.elsevier.com/locate/ejogrb

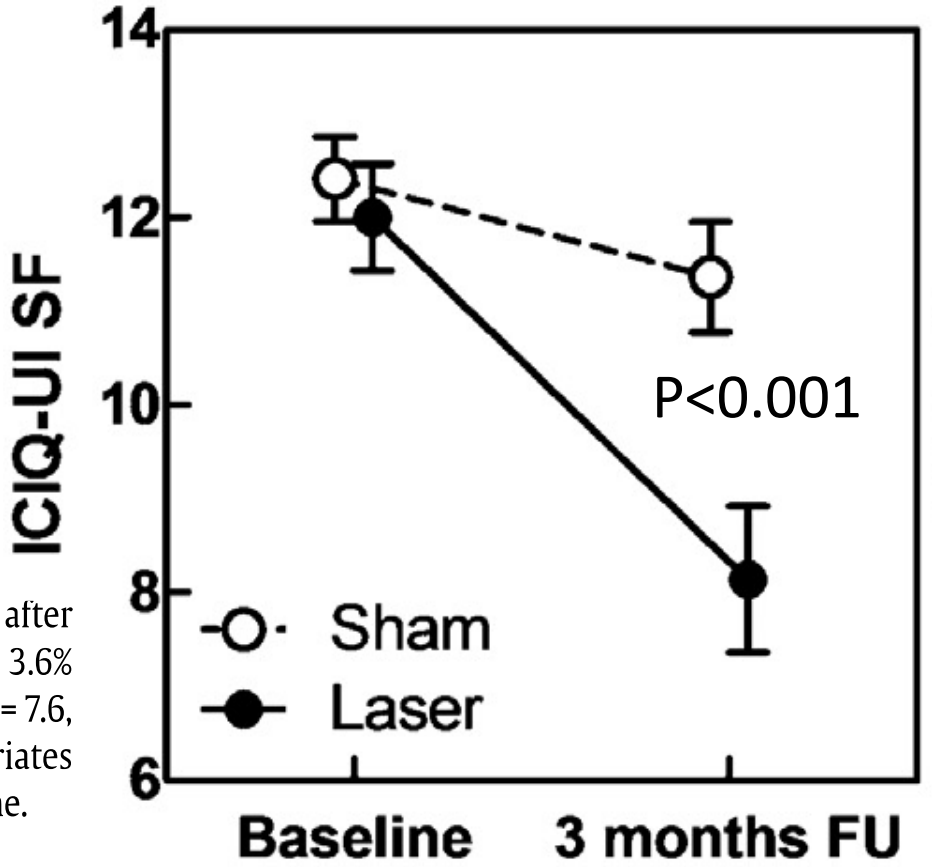
# VEL and SUI: a RCT

Full length article

## Non-ablative Er:YAG laser therapy effect on stress urinary incontinence related to quality of life and sexual function: A randomized controlled trial

Mija Blaganje[a], Darija Šćepanović[a], Lidija Žgur[a], Ivan Verdenik[a], Franja Pajk[b], Adolf Lukanović[a,*]

[a] Department of Gynecology, University Medical Centre Ljubljana, Ljubljana, Slovenia
[b] LA&HA-Laser and Health Academy, Stegne 3, Ljubljana, Slovenia




21.4% (12/56) of laser group patients were dry 3 months after treatment according to ICIQ-UI SF (score = 0), whereas only 3.6% (2/56) of sham control patients were dry (Chi-Square test: $\chi^2 = 7.6$, $p = 0.006$; Risk Ratio (RR) = 6.00, 95%CI: 1.41–25.59). Covariates age, BMI, and parity had no significant effect on the outcome.

European Journal of Obstetrics & Gynecology and Reproductive Biology 224 (2018) 153–158

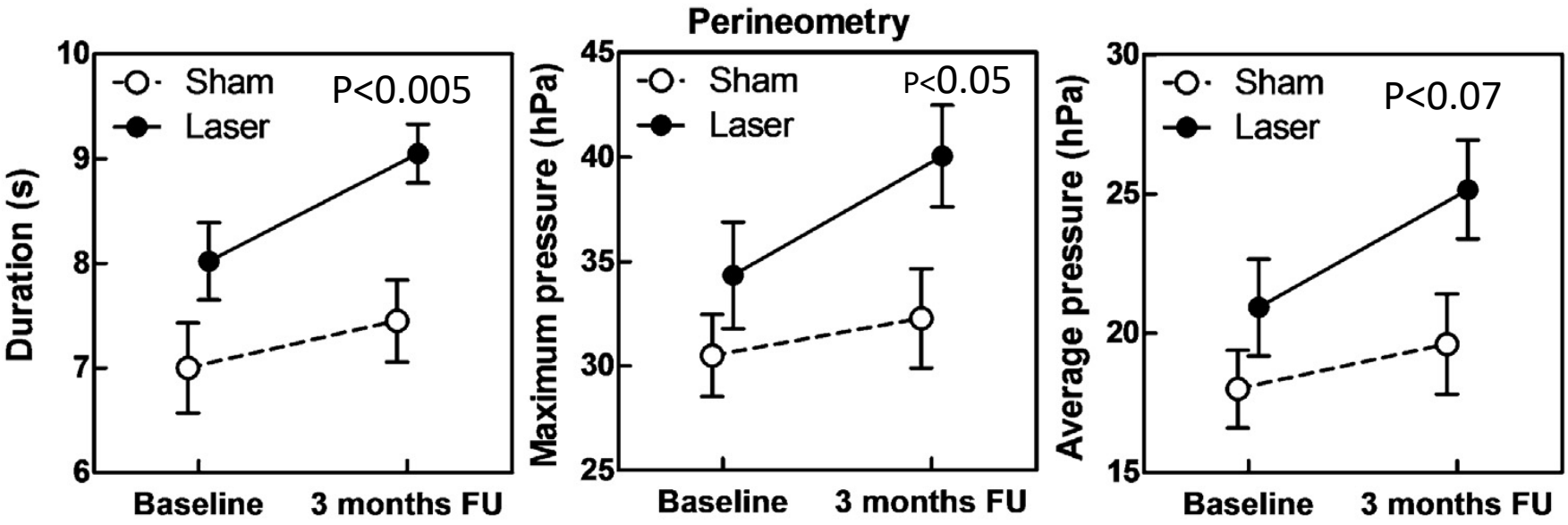
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journal homepage: www.elsevier.com/locate/ejogrb

# VEL and SUI : a RCT

*M. Blaganje et al./European Journal of Obstetrics & Gynecology and Reproductive Biology 224 (2018) 153–158*




Perineometry: duration (s) of contraction (left), maximal (centre) and average (right) pelvic floor muscle contraction pressure (hPa) in the laser and sham control groups at baseline and 3 months after treatment (mean ± SE, n = 56 in each group)

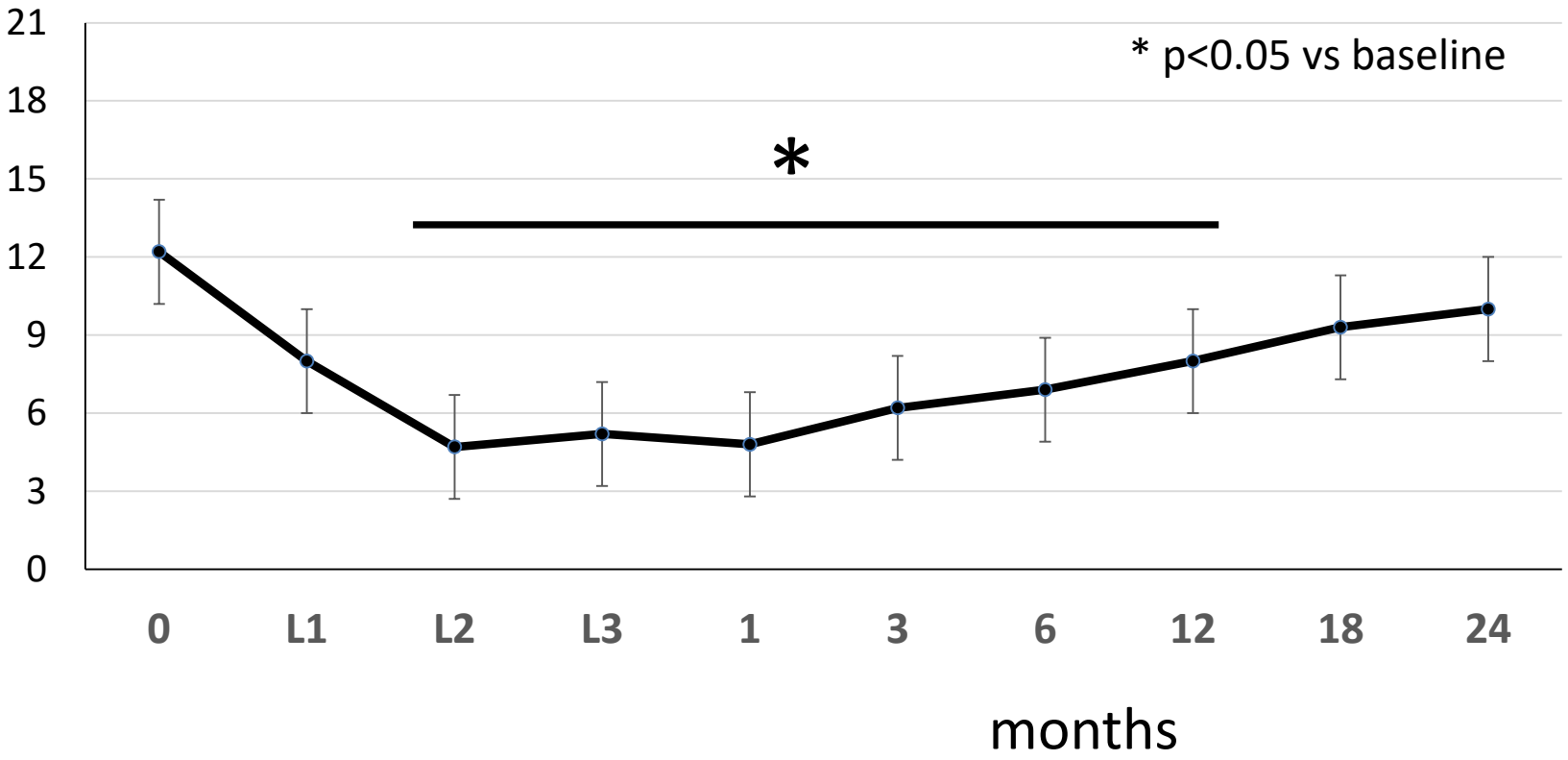
# Effects of VEL on SUI

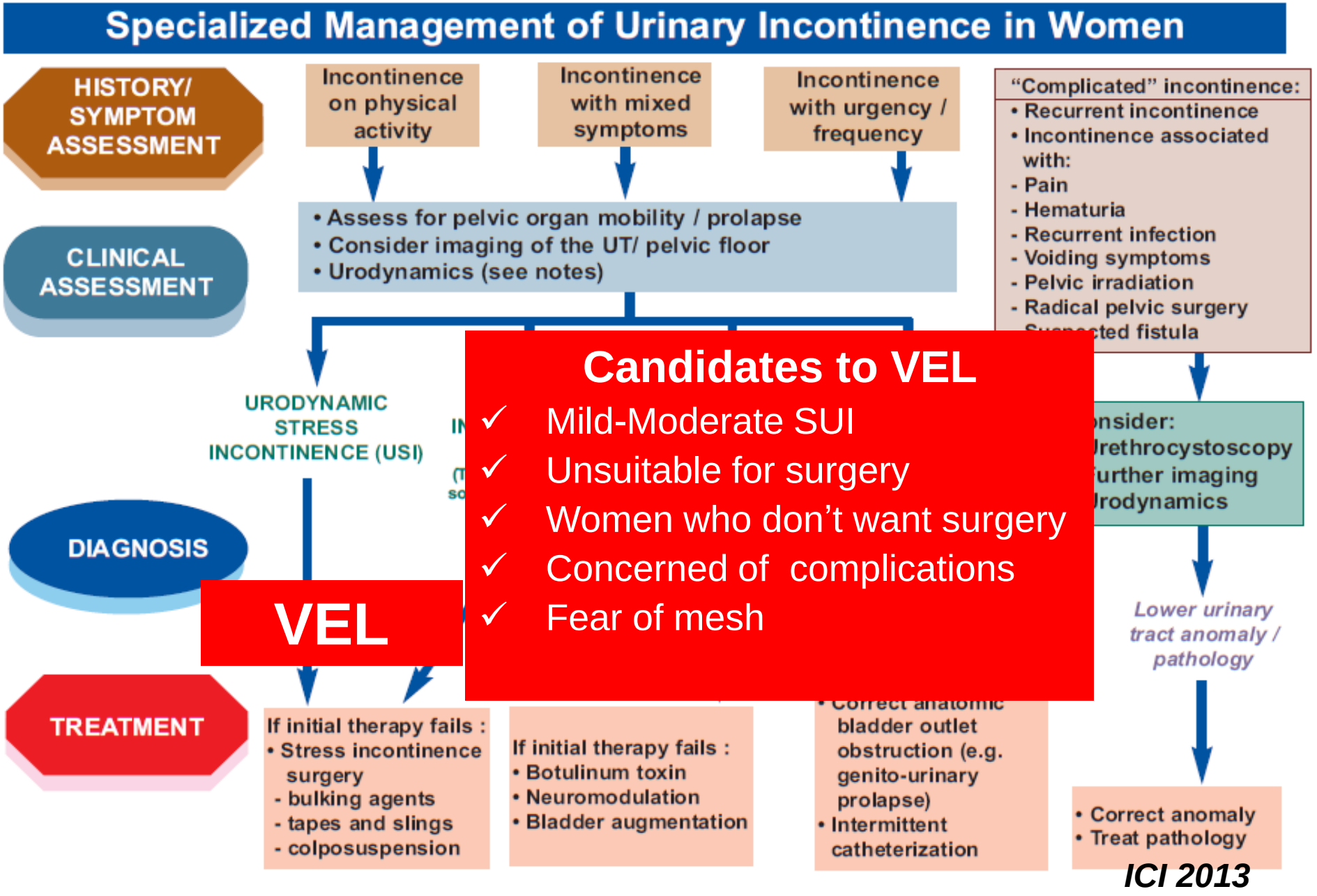
**N=228**

**age = 64.3 ± 4.5 yrs**

**Age at menopause = 49.6 ± 3.6**

**YSM = 12.2 ± 2.5**




Specialized Management of Urinary Incontinence in Women
HISTORY/ SYMPTOM ASSESSMENT
Incontinence on physical activity
Incontinence with mixed symptoms
Incontinence with urgency / frequency
"Complicated" incontinence:
• Recurrent incontinence
• Incontinence associated with:
- Pain
- Hematuria
- Recurrent infection
- Voiding symptoms
- Pelvic irradiation
- Radical pelvic surgery
Suspected fistula
CLINICAL ASSESSMENT
• Assess for pelvic organ mobility / prolapse
• Consider imaging of the UT/ pelvic floor
• Urodynamics (see notes)
URODYNAMIC STRESS INCONTINENCE (USI)
Consider:
Urethrocystoscopy
Further imaging
Urodynamics
DIAGNOSIS
VEL
Candidates to VEL
✓ Mild-Moderate SUI
✓ Unsuitable for surgery
✓ Women who don't want surgery
✓ Concerned of complications
✓ Fear of mesh
Lower urinary tract anomaly / pathology
TREATMENT
If initial therapy fails :
• Stress incontinence surgery
- bulking agents
- tapes and slings
- colposuspension
If initial therapy fails :
• Botulinum toxin
• Neuromodulation
• Bladder augmentation
• Correct anatomic bladder outlet obstruction (e.g. genito-urinary prolapse)
• Intermittent catheterization
• Correct anomaly
• Treat pathology
ICI 2013



# VEL and GSM/SUI

KEY POINT

- Effective and safe
  - Patient selection
  - Discuss other options
  - Extensive counseling
  - Offer realistic expectations

# Laser in Gynecology

**Private practice**

- Aesthetics
- GSM
- SUI
- VRS
- Prolapse

**Gynecology/Public Medicine**

- GSM
- SUI
- Prolapse




**ITALY**
**1.163. Hospitals**
**n.542 Public Hospitals**
**n. 621 the vast majority in partnership with NHS**

# EBD treatment for GSM/SUI

- **increasing request for non-invasive EBD technologies**
- EBDs lead to anatomical remodeling of vaginal tissues through vasodilation and thermal activation of neocollagenesis

issues :

- Effectiveness
- side effects
- costs & logistics
- reproducibility
- standardization
- scientific evidences

**Are EBD treatments Evidence Based ?**

# Classification of  Energies for vaginal treatments

## NON ABLATIVE TECHNIQUES

- ERBIUM  SMOOTH LASER
- Electroporation-Electrostimulation

## MICROABLATIVE TECNNIQUES

- Fractionated CO2 Laser

## HIGHLY OPERATOR DEPENDENT

- Radio Frequency
- Electroporation-Electrostimulation

# Classification of Energies for vaginal treatments

**NON ABLATIVE TECHNIQUES**

- ERBIUM SMOOTH LASER
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**MICROABLATIVE TECNNIQUES**

- Fractionated CO2 Laser

**HIGHLY OPERATOR DEPENDENT**

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- Electroporation-Electrostimulation

**NON ABLATIVE TECHNIQUE**

**OPERATOR INDEPENDENT**

**Erbium Smooth Laser**

# Energy Based Devices for Vaginal Treatments

- **? Evidence Based Devices**
  - lack of scientific evidences for many devices
  - strong marketing pressure

PubMed vagina electroporation

**Format**: Summary **Sort by**: Best Match **Per page**: 20

## Search results

**Items: 8**

1. **Electroporation** mediated DNA vaccination directly to a mucosal surface results in improved immune responses.
   Kichaev G, Mendoza JM, Amante D, Smith TR, McCoy JR, Sardesai NY, Broderick KE.
   Hum Vaccin Immunother. 2013 Oct;9(10):2041-8. doi: 10.4161/hv.25272. Epub 2013 Jun 11.
   PMID: 23954979 **Free PMC Article**

2. Calophyllum inophyllum in vaginitis treatment: Stimulated by **electroporation** with an in vitro approach.
   Zalewski J, Mączyńska J, Bieżuńska-Kusiak K, Kulbacka J, Choromańska A, Przestrzelska M, Zalewski M, Saczko Z, Cwynar-Zając Ł, Rusak A, Saczko J.
   Adv Clin Exp Med. 2019 Feb;28(2):223-228. doi: 10.17219/acem/87045.
   PMID: 30465335 **Free Article**

3. Induction of immune responses by DNA vaccines in large animals.
   Babiuk LA, Pontarollo R, Babiuk S, Loehr B, van Drunen Littel-van den Hurk S.
   Vaccine. 2003 Jan 30;21(7-8):649-58. Review.
   PMID: 12531334

May 12, 2019

PubMed vagina radiofrequency

**Format**: Summary **Sort by**: Best Match **Per page**: 20

## Search results

**Items: 1 to 20 of 34**

1. Dynamic quadripolar **radiofrequency** treatment of vaginal laxity/menopausal vulvo-vaginal atrophy: 12-month efficacy and safety.
   Vicariotto F, DE Seta F, Faoro V, Raichi M.
   Minerva Ginecol. 2017 Aug;69(4):342-349. doi: 10.23736/S0026-4784.17.04072-2.
   PMID: 28608667

2. Evaluation of the safety and efficacy of a monopolar nonablative **radiofrequency** device for the improvement of vulvo-vaginal laxity and urinary incontinence.
   Lalji S, Lozanova P.
   J Cosmet Dermatol. 2017 Jun;16(2):230-234. doi: 10.1111/jocd.12348. Epub 2017 May 29.
   PMID: 28556393

3. Technological evolution in the **radiofrequency** treatment of vaginal laxity and menopausal vulvo-vaginal atrophy and other genitourinary symptoms: first experiences with a novel dynamic quadripolar device.
   Vicariotto F, Raichi M.
   Minerva Ginecol. 2016 Jun;68(3):225-36.
   PMID: 27206062

May 12, 2019



12/5/2019

# LASER

vagina laser - PubMed - NCBI

May 12, 2019

PubMed vagina laser

**Format**: Summary **Sort by**: Best Match **Per page**: 20

**Search results**

**Items: 1 to 20 of 359**

## Bulk of scientific evidences for Vaginal Treatments

Fractional CO2 an Erbium-Smooth lasers

GSM

- VHI
- VAS
- Maturation index
- Vaginal biopsies
- Microbioma evaluation
- FSFI, FSDS

Erbium-Smooth laser

SUI

- ICIQ-SF and other questionnaires
- VAS
- PAD TEST
- Bladder diary
- Perineometry
- Urodinamic evaluation

# Energy Based Devices for Vaginal Treatments

- ? Evidence Based Devices
  - **lack of scientific evidences for many devices**
  - strong marketing pressure

Alibaba Group

Co2 Fractional Laser For Sale, Wholesale & Suppliers - Alibaba

Sourcing Solutions Services & Membership Help & Community Ready to Ship Trade Shows Get

Categories

Products: co2 fractional laser for sale

Search

Sign In Join Free My Alibaba

Order Protect

Related Searches for co2 fractional laser for sale: lipo laser for sale tattoo removal laser for sale More...

RELATED CATEGORIES: Beauty & Personal Care, Machinery

SORT BY: Relevancy

FILTER RESULTS BY: Supplier Types, Supplier Location, Min. Order: less than, Ready to Ship

Feature, Style, Laser Type, Q-Switch, Sample Order

Home » Beauty & Personal Care » fractionated » fractional laser » co2 fractional laser for sale 36,193 products found for co2 fractional laser for sale



FDA/ Medical CE approved Gynecology Fractional Co2 Laser for sale aesthetic...

US $8000-10000 / Unit

1 Unit (Min. Order)

1 YR Beijing Sinoopheren Science And Techn...

98.3%

"Excellent service" (1) "Well packaged" (1)

Contact Supplier




Newest Fractional co2 Laser with Big Spot Shot Pulse Width for Scar Removing

US $5000-18000 / Set

1 Set (Min. Order)

3 YRS Shanghai Apolo Medical Technology ...

78.9%

Contact Supplier



New 2019 fractional co2 laser skin tightening equipment

US $6500-9000 / Set

1 Set (Min. Order)

1 YR Henan Fanoy Beauty Technology Co., ...

100%

Contact Supplier

Impression from buyer reviews



Body Care Vaginal Tightening Fractional CO2 Laser

US $20000-22000 / Set

1 Set (Min. Order)

4 YRS Beijing Globalipl Development Co., Ltd.




FRACTIONAL CO2 laser acne scar pigment removal machine for sale

US $4500.0-5350.0 / Set

1 Set (Min. Order)

3 YRS Beijing Ottora Technology Co., Ltd.



Portable fractional co2 laser korea co2 fractional laser for sale

Ready to Ship

US $2678.0-2678.0 / Set

1 Set (Min. Order)

1 YR Guangzhou Honghao Technology Co., ...

TOP

https://www.alibaba.com/showroom/co2-fractional-laser-for-sale.html 1/8



# A LASER is not A LASER

**The brochure of one ablative ErYAG lists 7 Smooth ErYAG articles (out of 12)**

Vaginal erbium laser: the second-generation thermotherapy for the genitourinary syndrome of menopause
*M. Gambacciani, M. Levancini & M. Cervigni (2015), Climacteric, 18:5, 757-763.*

Genitourinary syndrome of menopause and the use of laser therapy
*J. Hutchinson-Colas, S. Segal (2015), Maturitas, Dec;82(4):342-5.*

Rationale and design for the Vaginal Erbium Laser Academy Study (VELAS): an international multicenter observational study on genitourinary syndrome of menopause and stress urinary incontinence
*M. Gambacciani, M. G. Torelli, L. Martella et al. (2015), Climacteric, 18:sup1, 43-48*

Laser Vaginal Tightening (LVT) – evaluation of a novel noninvasive laser treatment for vaginal relaxation syndrome
*E. Jorge, P. Gaviria, A. Jose, L. Lanz (2015), J. LAHA, Vol. 2012, No.1; pp. 59-66.*

First assessment of short-term effi cacy of Er:YAG laser treatment on stress urinary incontinence in women: prospective cohort study
*N. Fistonić, I. Fistonić, A. Lukanovič, Š. Findri Guštek, I. Sorta Bilajac Turina & D. Franić (2015), Climacteric, 18:sup1, 37-42.*

Minimally invasive laser procedure for early stages of stress urinary incontinence (SUI)
*I. Fistonić, Š. Findri Guštek, N. Fistonić (2012), J. LAHA, Vol. 2012, No.1; pp. 67-74.*

Lacking their own clinical evidence some manufacturers use Smooth ErYAG studies as a reference, although their mechanism of action is different

# Energy Based Devices for Vaginal Treatments

- ? Evidence Based Devices
  - lack of scientific evidences for many devices
  - **strong marketing pressure**

U.S. FOOD & DRUG ADMINISTRATION

# Letters sent to USA distributors

- …… the FDA warned against the use **of "energy-based" devices** for "vaginal rejuvenation," saying that the treatments **can cause vaginal burns, scarring, and chronic pain**.
- ……..**The FDA has approved devices** that use "laser beams or radiofrequencies for specific gyncologic uses" such as "**destruction of precancerous cervical or vaginal tissue**," but the "agency has not cleared the devices for symptoms related to menopause, urinary incontinence or sexual function.

| | | |
|---|---|---|
| Venus Concept, Ltd. - August 1, 2018 (PDF - 37KB) | IHCTOA | 08/01/18 |
| BTL Industries, Inc. Letter - July 26, 2018 (PDF - 37KB) | IHCTOA | 07/26/18 |
| Cynosure, Inc. Letter - July 24, 2018 (PDF - 42KB) | IHCTOA | 07/24/18 |
| Alma Lasers Letter - July 24, 2018 (PDF - 40KB) | IHCTOA | 07/24/18 |
| Sciton, Inc. Letter - July 24, 2018 (PDF - 37KB) | IHCTOA | 07/24/18 |
| Thermigen, Inc. Letter - July 24, 2018 (PDF - 37KB) | IHCTOA | 07/24/18 |
| Inmode MD Ltd. Letter - July 24, 2018 (PDF - 57KB) | IHCTOA | 07/24/18 |

**……..a growing number of manufacturers are marketing their devices for unapproved uses such a vaginal 'rejuvenation,' in which tissue typically is destroyed or reshaped."**

Vaginal Erbium Laser Academy

ISSN: 2574-1241
DOI: 10.26717/BJSTR.2018.12.002224
Marco Gambacciani. Biomed J Sci & Tech Res

BIOMEDICAL Journal of Scientific & Technical Research

Mini Review Open Access

# FDA's Warns Against Use of Energy-Based Devices: The VELA® Safety Communication

Marco Gambacciani[1]* and Mauro Cervigni[2]

.....the FDA's announcement is primarily a warning to laser manufacturers not to promote their devices for unapproved gynecological procedures.

Vaginal Erbium Laser Academy

# Vaginal Er:Smooth Laser (VEL™) Academy

Fourth International Focus Meeting

**ROME** November 10th-11th, 2018



**154 VEL users**

- **35 Countries**

**19 Speakers**

**> 2750 Patients included in longitudinal studies**

- **GSM**
- **Lichen**
- **SUI-ISD**
- **Prolapse**
- **Aestethic applications**



# What about adverse effects ?

Adverse Effects Survey (still ongoing with collection of data from 45+ countries):

So far we interviewed:

**276 medical sites** from 17 countries, who treated

**30.716 patients** in period of 2010 till 2018

**no other adverse effects** aside of the ones observed in 2014 on the smaller sample.

**IncontiLase: Summary of Adverse effects**

| Adverse effect | Frequency* | Comment |
|---|---|---|
| Edema | 100,0% | transient, max. 48 hours |
| Pain (during the treatment) | 14,7% | without anesthesia, max. grade 3 on the scale to 10 |
| Pain (post-op) | 4,3% | transient, max. 1 week |
| Superficial burns | 1,6% | fully resolved in 7-10 days |
| Bleeding | 3,7% | pin-point bleeding, very quickly healed |
| Stronger vaginal discharge | 5,4% | transient, max. to 4 days |
| De-novo urge urinary incontinence | 3,2% | transient, max. up to 3 weeks |

# Tomorrow Agenda

- The VELA project : a strong scientific community
  - Online access
  - International large database
  - building personal/national DB, analysis and reports
  - International Groups on specifics research projects
    - GSM
    - Lichen Sclerosus
    - SUI
    - New Probes (G-runner; intraurethral probe)
    - New indications

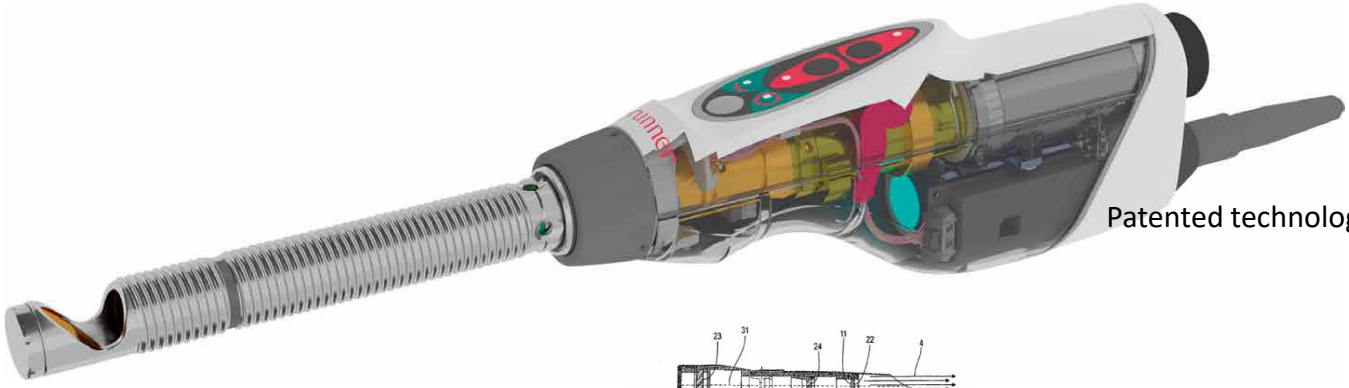




- To produce solid, EB  scientific evidences
- Implement VEL in the everyday clinical practice

# G-runner Robotic Probe

- Easy to use
- Automated procedures
- More precise and uniform treatments
- Eliminate possible  inter-operator variations
- Suitable for Multicentric Studies



Patented technology

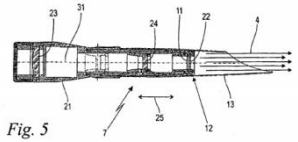


Fig. 5

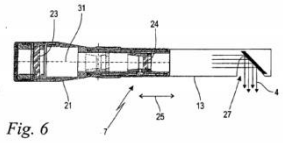
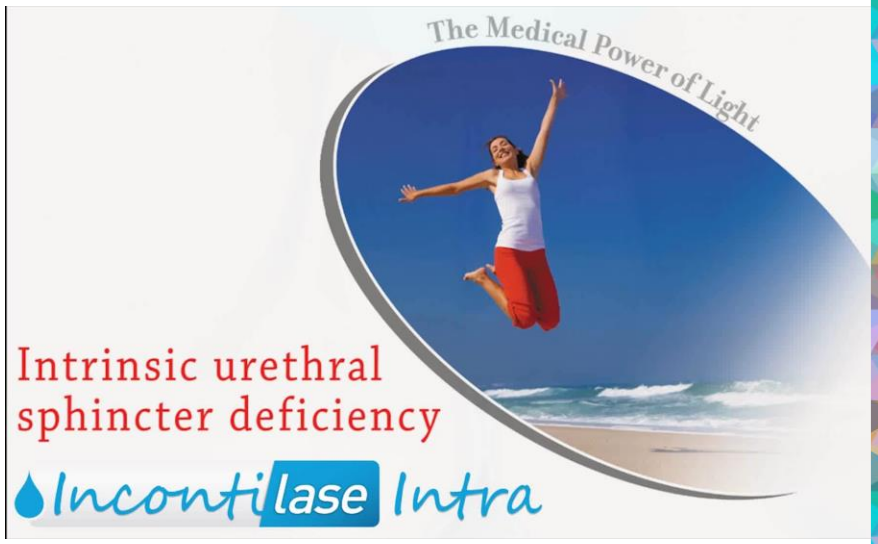


Fig. 6

# Erbium SMOOTH: the non ablative option

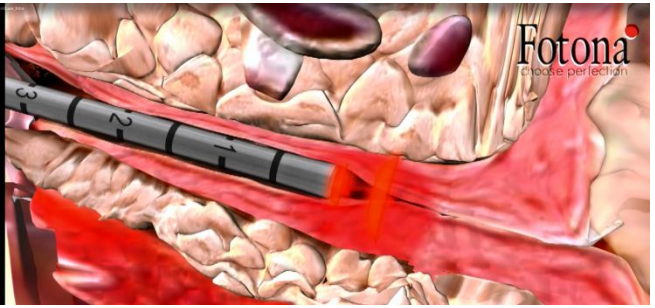
## The intraurethral treatment

- non-ablative, controlled hyperthermia
- vasodilatation & collagen remodelling
- no tissue damage, ablation, carbonization
- safe and suitable for multiple repetitions



Vaginal Erbium Laser Academy

# Erbium Smooth laser for the intraurethral treatment






**Handpiece used in the intraurethral treatment**

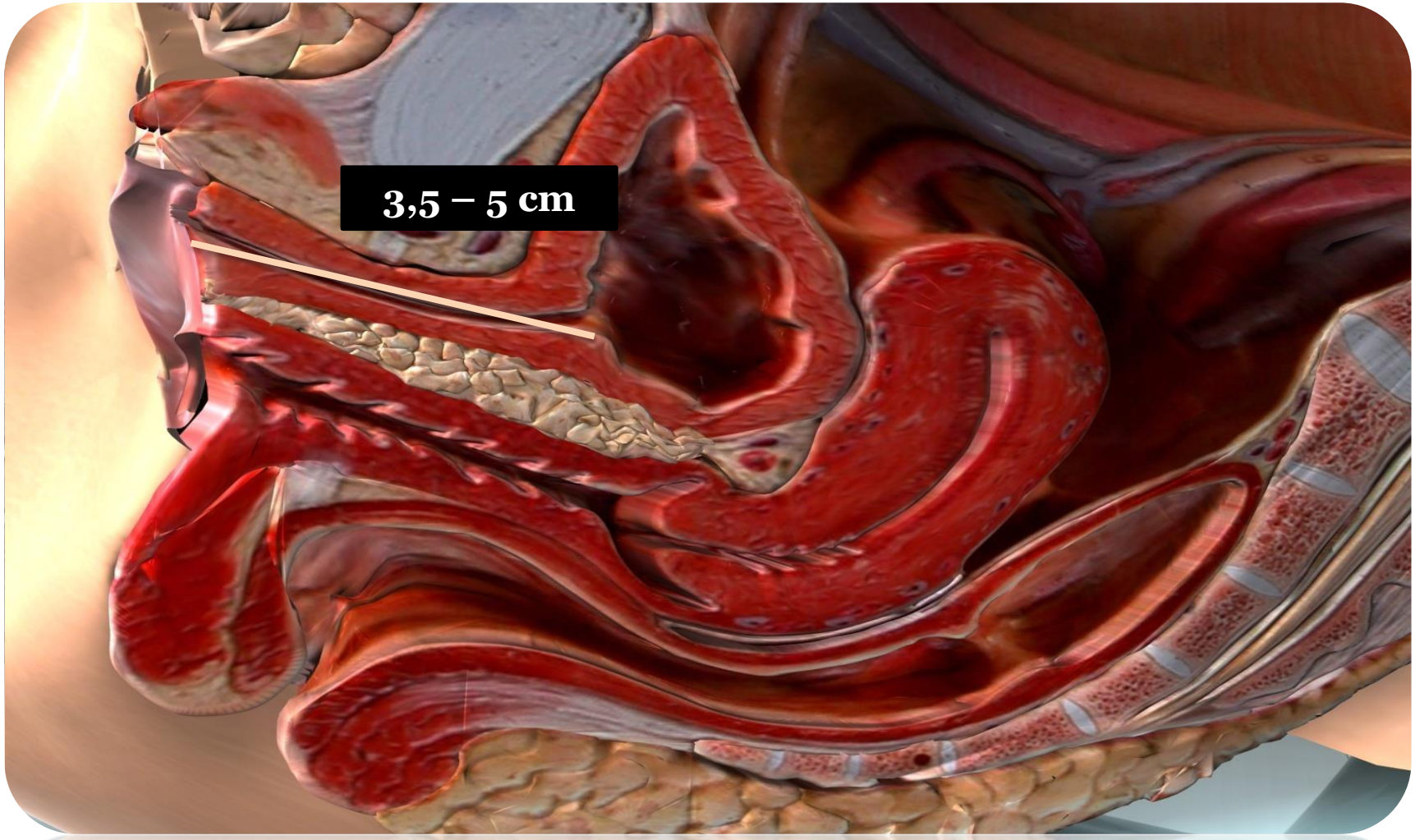


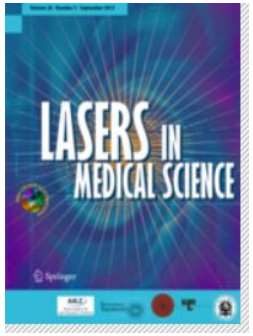
**Non-ablative, thermal only treatment of urethra**

- external diameter = 4 mm
- laser beam diameter = 2 mm



# Female Urethra Anatomy






Lasers Med Sci
DOI 10.1007/s10103-017-2170-5

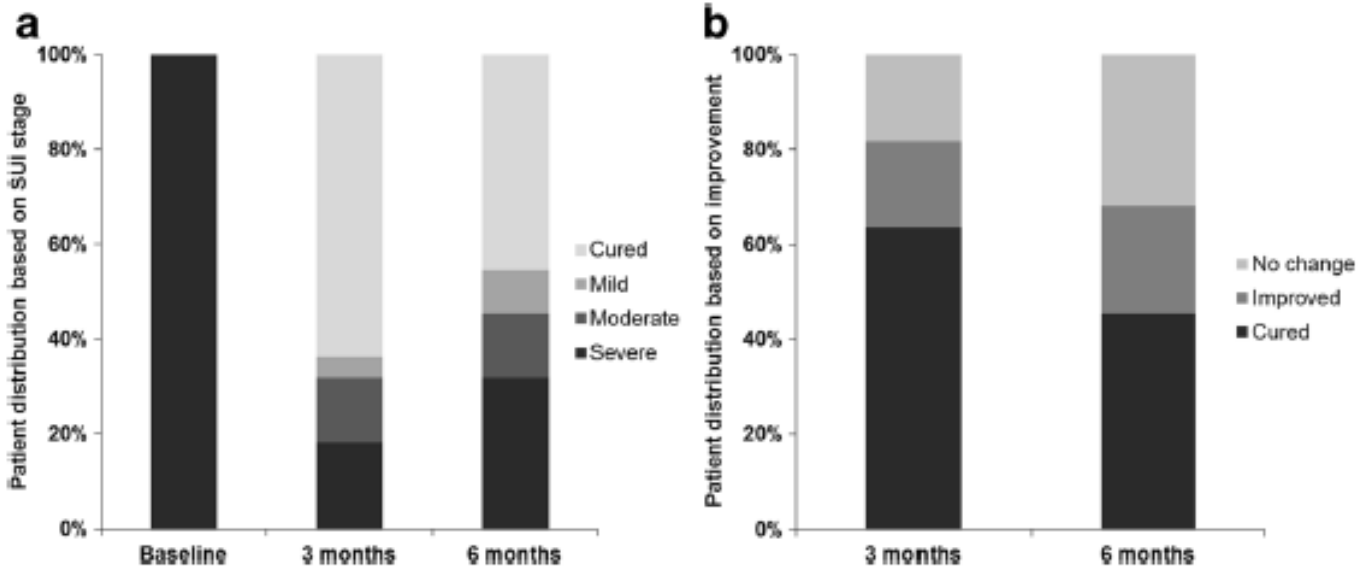
ORIGINAL ARTICLE

# Non-ablative erbium YAG laser for the treatment of type III stress urinary incontinence (intrinsic sphincter deficiency)

Adrian Gaspar[1] · Hugo Brandi[1]

- 22 patients were selected based on a Valsalva leak point pressure (VLPP) of 20–60 cm H2O (type III SUI)
- two laser sessions with a 3-week interval

Fig. 2 ICIQ-UI SF evaluation of SUI after intraurethral Er:YAG laser treatment; plots represent patient distribution (in %) based on SUI stage before treatment (baseline), at 3 and at 6 months following treatment (a) and patient distribution (in %) based on improvement rates at 3 and 6 months following treatment (b)




**Significant improvement was observed in 82% at 3 and 6 months**

Gaspar, 2017

Maturitas 99 (2017) 10–15

Contents lists available at ScienceDirect

Maturitas

journal homepage: www.elsevier.com/locate/maturitas

# Laser therapy for the restoration of vaginal function

Marco Gambacciani[a,*], Santiago Palacios[b]

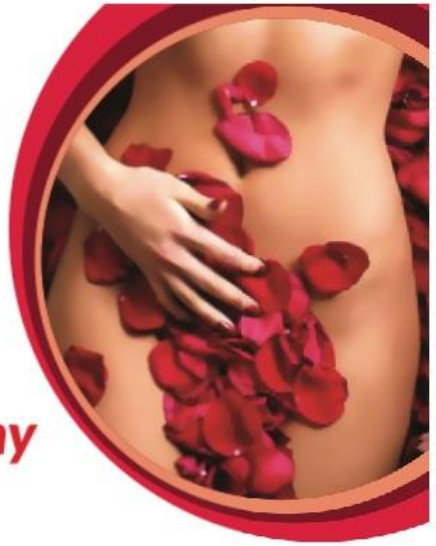
[a] Department of Obstetrics and Gynaecology, Pisa University Hospital, Pisa, Italy
[b] Palacios Institute of Womenís Health, Madrid, Spain

Although RCTs have not been reported, the evidence suggests that VEL can be offered as a **safe and efficacious alternative to HRT for GSM**, as well as a first-line treatment for **mild to moderate SUI, before surgical procedures are resorted to**.

May 2017 Volume 99, Pages 10–15



VELA



# Vaginal Er:Smooth Laser (VEL™) Academy

## 5th International Focus Meeting

## FLORENCE 2019

**9th - 10th November 2019**

**Register here:**
https://goo.gl/KT9Yev

**Saturday, November 9th**
Registration: 09:00am
Start Time: 09:30am
VELAcademy School (Optional)
LIVE Practical Sessions
(SUI, GSM, Laxity)

**Venue: LA&HA Training Centre - Pisa**
**Address:** Casa di Cura San Rossore hospital, Viale delle Cascine, 152/f, 56122 Pisa PI, Italy

**Email:** Info@santecsrl.it

**Saturday, November 9th**
Registration 13:00pm
Start Time 14:00pm
General Sessions
VELA Evening Dinner

**Sunday, November 10th**
General Sessions
New Indications
Q&A Session
End Time: 13:00pm

**Venue: Grand Hotel Baglioni - Florence**
**Address:** Piazza dell'Unità Italiana, 650123 Firenze, Italia,
**Tel:** +39 055 23580
**Email:** infodesk@hotelbaglioni.it **Web:** www.hotelbaglioni.it/en

# Grazie !

