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### THE DEFINITION OF FRAXIS DUO

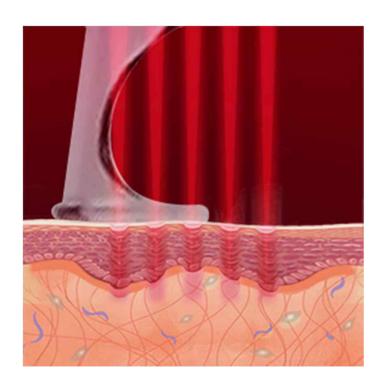
The **FRAPEIS** is a combining CO<sub>2</sub> laser and micro-needle fractional RF technology for optimal result of scars, photo-aging and Striae distensae. CO<sub>2</sub> fractional laser is enabling intense superficial heating stimulation and micro-needle fractional RF provides higher volumetric heating and deeper heat diffusion.

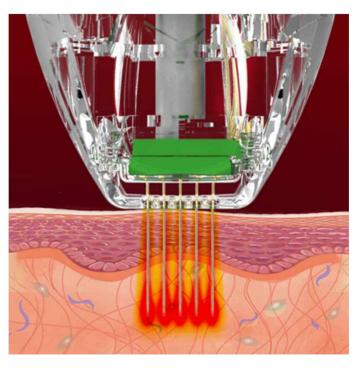
The dual modalities permit the treatment of all skin types and maximum treatment flexibility to treat a larger range of applications increasing the effectiveness of the treatment and reducing side effects.

The combining therapy could be an effective and better choice for striae distensae by both effective dermal remodeling and skin resurfacing at the same time.



# THE CONCEPT OF COMBINATION THERAPY





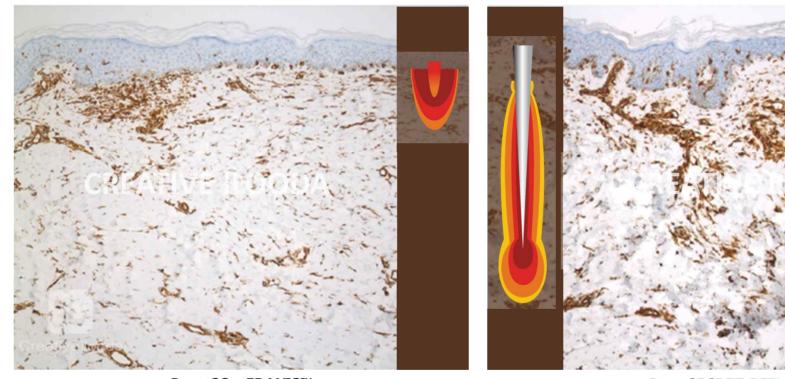
- CO<sub>2</sub> fractional is enabling intense superficial stimulation and micro-needle fractional RF provides higher volumetric heating and deeper heat diffusion to 3.5mm based on treatment target areas, depending on the skin's condition.
- Such complementary effects could encourage physicians to combine two technologies for an effective treatment for various indications.

# THE CLINICAL DIFFERENCE OF CO<sub>2</sub> vs MICRO-NEEDLE RF

### Vimentin Immunohistochemical analyses at 15 days after application



**Biopsies courtesy of Michael Naouri MD** 

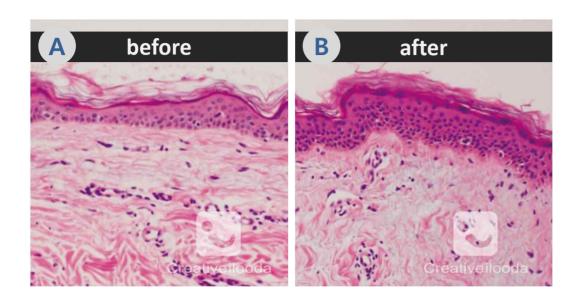


Post CO <sub>2</sub> FRAXIS™

Post SECRET RF™

The histology analyses show an intense superficial fibroblast stimulation with CO<sub>2</sub> but a middle and deep fibroblast stimulation using micro-needle fractional RF.

# THE CLINICAL EFFECTS OF COMBINATION THERAPY

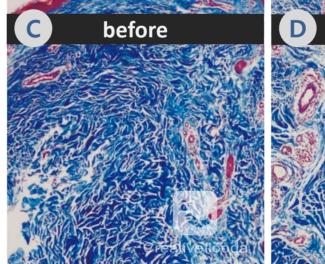


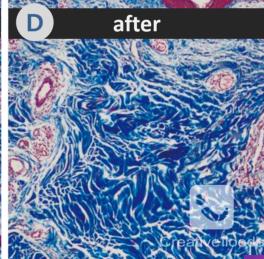
Thickened epidermis and dermal remodeling post micro-needle RF with CO<sub>2</sub> laser treatment

#### **Biopsies courtesy of Jae-We Cho MD**

Note the thickened epidermis (B) and increased and thickened collagen bundles in the dermis (D), compared to base line (A, C), respectively.

(A, B: hematoxylin and eosin, X 100; C, D: Masson trichrome stain, x 40).





# THE BENEFITS OF DUAL MODALITIES

### **Ultra Pulse**

- Seborrheic Keratosis
- Freckle
- Wart
- Lentigines
- etc



#### Micro-needle RF

- Non-surgical face lifting
- Photo-aging
- Scars
- Hyperhidrosis
- Striae distensae

#### Scanner

- Skin rejuvenation
- Scars
- Fine lines
- etc

#### CW

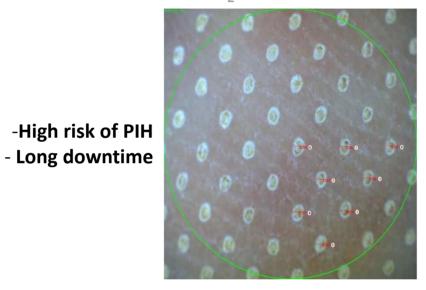
Surgical Operation

With dual energies and various modes it enables physicians to easily select the most effective mode and energy depending on a variety of conditions on all skin types with very low risk of skin burns and PIH.

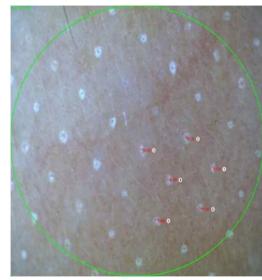
# FEATURES OF CO<sub>2</sub> LASER

# **SUPERIOR BEAM QUALITY**

Conventional CO<sub>2</sub> Fractional Laser



FRAXIS CO<sub>2</sub> Fractional Laser

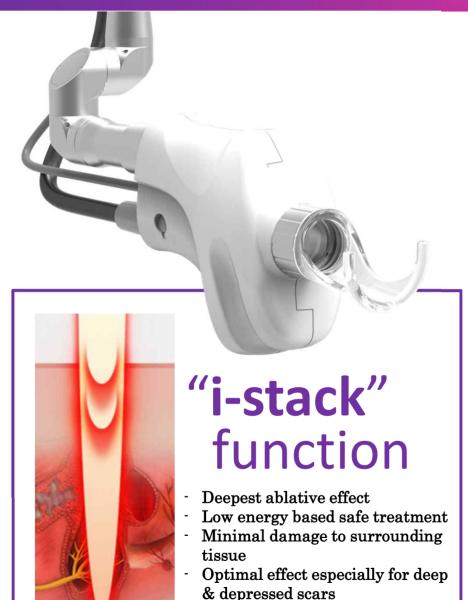


- Minimal invasive
- Less painful
- Minimal downtime
- Ideal spot size (100 µm)



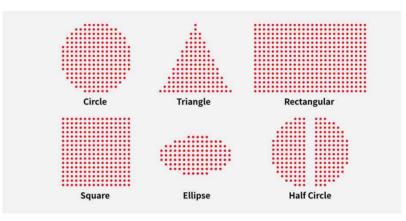
With 30 watt high power RF tube, uniform and stable laser beam with  $100 \sim 120 \mu m$  spot size reduces thermal damage and any unpredictable side effect for maximum treatment effect.

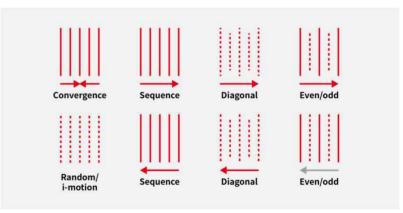
# **ADVANTAGES OF CO<sub>2</sub> LASER**



#### 6 different scan patterns for more treatment options

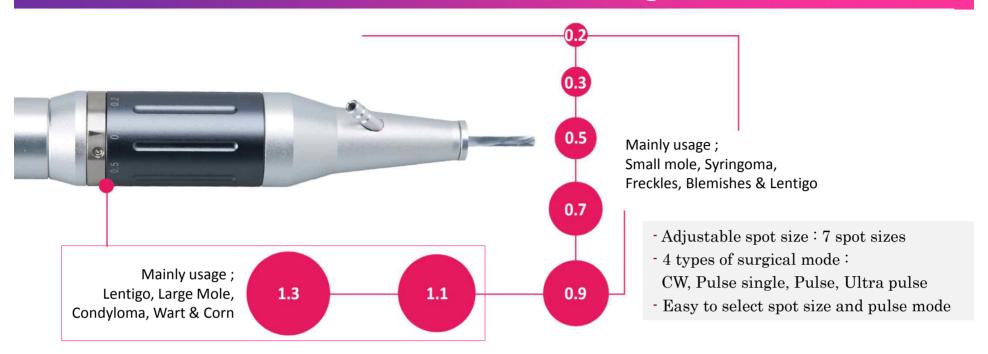
Scan size: 1x1 ~ 20x20mm Dot distance: 0.1 ~ 2.0mm

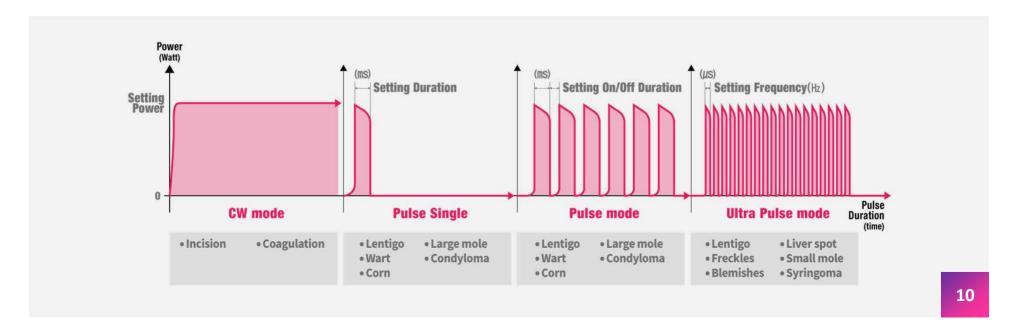




9 various scan modes to control energy delivery patterns for comfort treatment

# **ADVANTAGES OF Smart Surgi ™**





# **FEATURES OF MICRO-NEEDLE FRACTIONAL RF**



- Dimension ; 140 \* Ø40(mm)

- Weight; 205g

#### MTR-AC-25

25pin non-insulated micro-needle cartridges

Treatment Area; 10\*10(mm)

Max Output; 25watt

Main Usage;

mostly main indication



#### MTR-AC-C25

25pin semi-insulated micro-needle cartridges

Treatment Area; 10\*10(mm)

Max Output; 25watt

Main Usage;

Required for higher thermal effect at dermis/subcutaneous

tissues



#### MTR-AC-10

10pin non-insulated micro-needle cartridges

Treatment Area; 0.25\*18(mm)

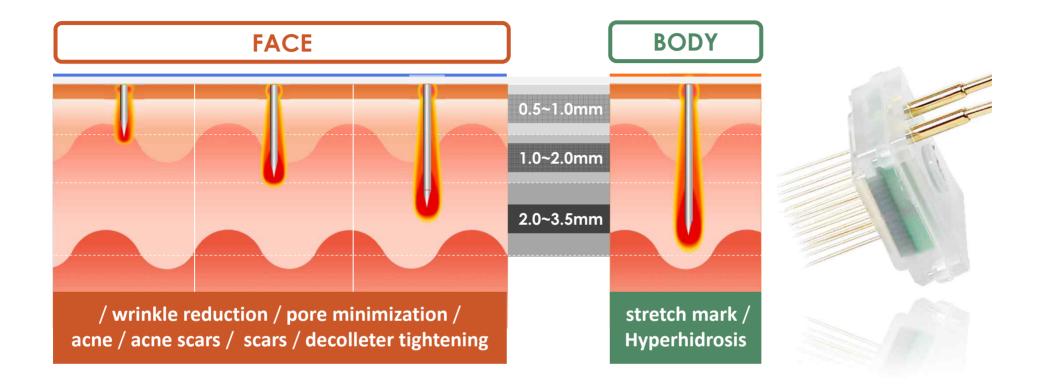
Max Output; 25watt

Main Usage;

stretch mark, naso labial folds,

crow's feet

### FEATURES OF MICRO-NEEDLE FRACTIONAL RF



- Micro-needle penetration depth can be adjusted from 0.5 to 3.5mm based on treatment target areas for the treatment of skin lifting, tightening and rejuvenation e.g., hyperpigmentation, wrinkle, acne, acne scar and pore treatments.
- Delivered RF energy is tightly focused at the edge/tip of the Micro-Needles, leading to far less trauma to the surrounding epidermis. This leads to far less down time and pain for the patient as compared to a conventional CO<sub>2</sub> fractional laser.

# **ADVANTAGES OF MICRO-NEEDLE RF**

# What is the safest micro-needles for patients?



# SPECIFICATION OF FRAXIS DUO

CO <sub>2</sub> Fractional Laser System	
Wave length	10,600nm
Laser power	Up to 30W (Up to 175mJ)
Pulse duration	20-5,000us
Overlap	1 - 10 <sup>th</sup>
Pixel size	≥100 micron
Distance	0.1 - 2.0mm
Treatment area	1x1 - 20x20mm
Pixel quantity	Up to 40,401
Repetition	0.2 - 2Sec / Single
Normal handpiece (option)	0.2, 0.3, 0.5, 0.7, 0.9, 1.1, 1.3mm

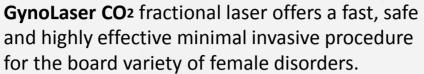
Micro-needle Fractional RF System	
RF Frequency	2MHz ±10%
RF Power	Up to 25W ±10%
Treatment duration (RF Emission)	50ms ~ 950ms
Intensity	0 - 100 Level (2/5/10 Step)
Needle thickness	0.25mm
Needle figure	25 electrode needle (5x5), 10 electrode needle (1x10)
Treatment area	25Pin (10 x 10mm), 10Pin (0.25 x 18mm)
Adjustable depth	0.5 ~ 3.5mm(0.1 step)
Repetition	0.2 / 0.5 / 0.8 / 1 / 2 Sec / Single
Electrical power	100 ~ 240VAC, 50/60Hz

# GYNOLASER\*\*\*

VAGINAL REJUVENATION
FOR ULTIMATE COMFORT AND
CONFIDENCE



# What is GYNOLASER™

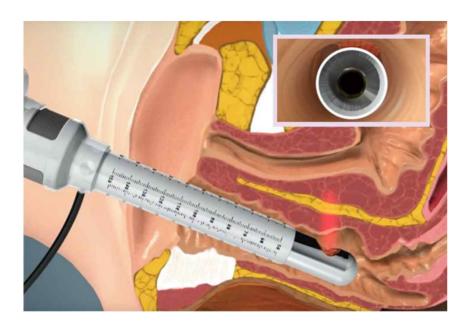


### **INDICATIONS**

- Vaginal laxity
- Stress incontinence
- Vaginal itchiness & burning
- Dryness and loss of lubrication
- Vaginal and vulvar pain or discomfort
- Diminished sensation during intercourse



# **GynoLaser treatment procedure for vaginal rejuvenation/stress incontinence**



**GynoLaser** has a 90° reflecting mirror, which provides vertical delivery of the CO<sup>2</sup> laser beam (8 x 8mm) onto the wall of the vagina for remodeling of vaginal connective tissue with neoformation of collagen and elastic fibers, without causing any damage to surrounding tissue.

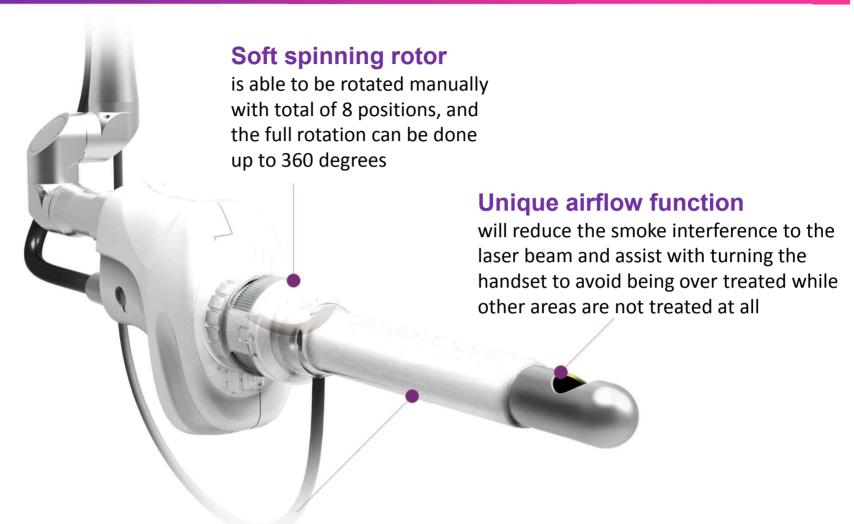


Petr Pícha, M.D.

Centre for Plastic gynecology
GynCentrum Prague

"In terms of comfort and safety, the FRAXIS  $CO_2$  laser is suited for treating various benign indications, as well as aesthetic indications. Fraxis  $CO_2$  laser with the GynoLaser applicator is a versatile tool, which can be used in the pulse or fractional mode, and which is reliable and very useful tool for obstetrics and gynecology aesthetics."

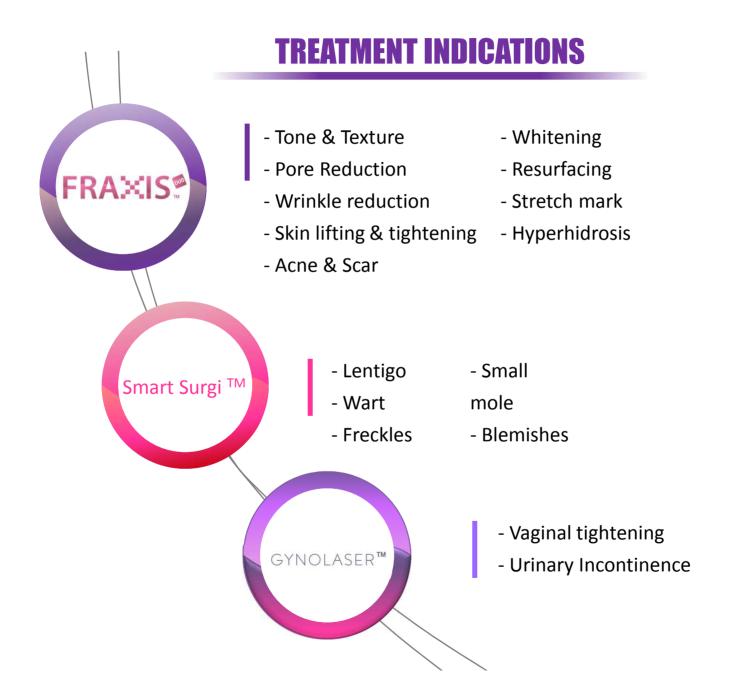
# Benefits of GYNOLASER™



### i-slide, Exclusive disposable external Slide

can prevent the entire probe from sticking to the internal tissues while the probe is spinning in 90 degrees of angle for the treatment

# **APPLICATION OF FRAXIS DUO**



### **CASE STUDIDES**

### Michaël NAOURI, M. D.

Centre Laser International de la Peau - Paris, Centre Laser - Nogent sur Marne, Nogent sur Marne, France

- Using micro-needle fracitonal RF
  - Atrophic Scars
  - Acne Scars
  - Photo-aging
- Using CO2 laser
  - Onychodystrophy
  - Wart

### Jae-We Cho, M.D., PhD.

Department of Dermatology, Laser and Esthetic Center, Keimyung University School of Medicine

- Using combination therpay
  - Striea Distensae

# I DR. M. NAOURI I HYPERTROPHIC SCARS USING MICRO-NEEDLE RF





Before After 2 sessions

# I DR. M. NAOURI I ATROPHIC SCARS USING MICRO-NEEDLE RF





Before After 1 session

# I DR. M. NAOURI I ACNE SCARS & ENLARGED PORES USING MICRO-NEEDLE RF





Before After 3 sessions

# I DR. M. NAOURI I PERIORBITAL & NASOLABIAL FOLD USING MICRO-NEEDLE RF





Before

After 3 sessions

# I DR. M. NAOURI I ONYCHODYSTROPHY USING CO<sub>2</sub> LASER





Before After 4 sessions

# I DR. M. NAOURI I WART USING CO<sub>2</sub> LASER





Before After treatment

# I DR. Jae-We Cho I STRIAE DISTENSAE ON THE BUTTOCK USING COMBINATION THERAPY





**Before** 

6 months after final treatment

# I DR. Jae-We Cho I STRIAE DISTENSAE ON THE CALF USING COMBINATION THERAPY





**Before** 

6months after final treatment

# I DR. Jae-We Cho I BURN SCARS USING COMBINATION THERAPY





Before After 3<sup>rd</sup> treatment

### **GLOBAL KOL**





"Fractional micro-needle radiofrequency, Secret RF could be an effective treatment for striae distensae and its combination treatment with fractional  $\mathrm{CO}_2$  laser, Fraxis could be a better choice without significant adverse effects."

Jae-We Cho, M.D., Ph.D.

Department of Dermatology Keimyung University School of Medicine Korea





Rulita Irawan M.D.

Younger Looks Aesthetic and Antiaging Clinic Tangerang, Indonesia

"FRAXIS DUO is the multiplatform laser with short downtime. I usually use the combination treatment of RF fractional and  $CO_2$  fractional for rejuvenation and acne scar suitable for skin type 4 or 5 and minimal erythema post laser."