

Made in Italy

Plexr[®] Thuzzle[®]

for COSMETIC and
FUNCTIONAL GYNECOLOGY



G|M|V
MEDICAL INNOVATION

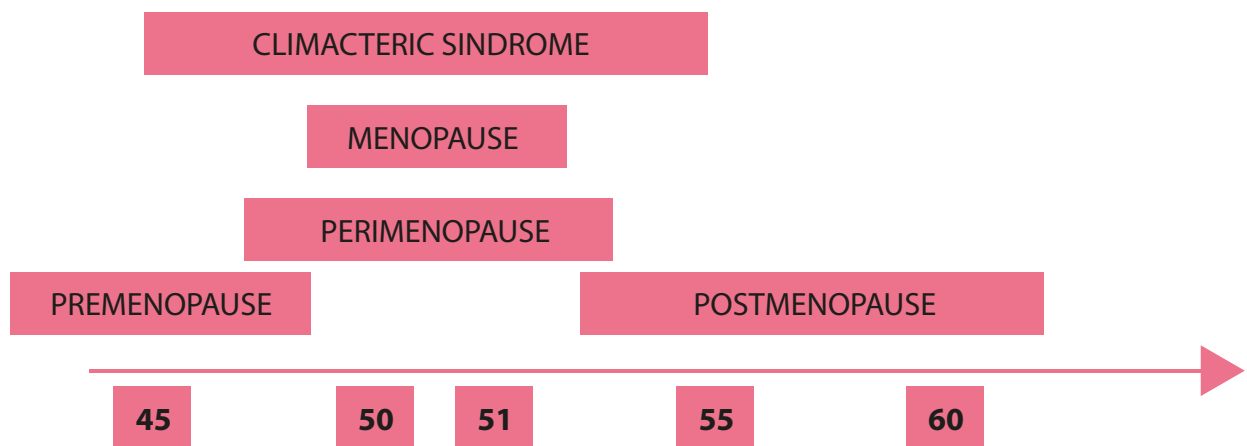
What is Cosmetic and Functional Gynecology?

Cosmetic and Functional Gynecology (CFG) is a new medical branch that deals with managing aesthetic and / or functional problems of the female external genitalia. It **uses therapeutic methods**, in some cases borrowed from Aesthetic Medicine.

Aesthetics is linked to the function of the organ: if the aesthetics are altered, the function is also altered (eg: the appearance of a healthy vulva vs atrophic vulva or affected by a scleroatrophic lichen).

Unlike the face, where folds are created, the opposite occurs in the vaginal canal: the epithelium thins, the mucosa becomes thin and inelastic (it loses its wrinkles), the lips shrink, and the fornix flattens. The physiological structure changes and consequently its functions change too. But it is not just aging: **CFG also deals with problems that precede the age of menopause**: genital dysmorphism, vulvodynia, vaginismus, lichen, vulval vaginal and pelvic floor laxity, atrophic / dystrophic states of the mucous membranes, chronic pelvic pain syndrome, in addition to the genitourinary syndrome.

Target patients



Patients of all ages can be affected by cosmetical or functional gynecological conditions, especially those at the turn of menopause. The problems mainly depend on the **modification of the urogenital system**, both in the lining epithelium and in the supporting structures. The predominant role in this type of **alteration** is **played by estrogens**, female hormones par excellence that also have effects on the skin and mucous membranes (as well as in sexual development). The **decrease in estrogen** is also **reflected in a reduction in collagen**: an estimated 1% reduction in dermal collagen / year in menopause.

Non-invasive surgery in gynecology: **Plexr®** is the **international patented technology** that embodies the novelty in functional and aesthetic gynecology treatments to perform non-invasive gynecological treatments.

What is Plexr®?

Plexr® is a **medical device** that generates a **totally secure plasma signal** through the ionization of gasses in the air. The action of the plasma, which occurs at the surface tissue level, generates:

- 1) the **sublimation of the corneocytes** without transmitting energy, and therefore selective controlled heat, to the surrounding tissues;
- 2) the **superficial contraction of collagen fibers**. At the same time, the ionized molecules (RONS - Reactive species of Oxygen and Nitrogen) stimulate the **release of regenerative factors** such as TGF beta and VEGF, resulting in **dermal regeneration** in the following weeks through neocollagenesis and neoangiogenesis.

The **safety** of treatments with Plexr® has been **clinically proven** in several scientific studies, published in important international journals. This technology offers an **alternative to invasive surgical procedures**, reducing recovery times and any complications that may arise before and after surgery.



Plexir[®]

In gynecology

The device is **indicated in the genital area** in the aesthetic and functional field **in all cases in which a dermal regeneration is desired for the treatment of atrophic states.**

Other important applications of Plexir[®] in gynecology are:

- Treatment of **neoformations**: dermatofibromas, sebaceous cysts, warts, etc.
- External **genital remodeling therapies**: labiaplasty, elimination of hymenal bands
- Treatment and **remodeling of dysfunctional scarring** (episiotomy outcomes)

Plexr®



Three handpieces, totally **wireless** with different energies, that generate an **extremely precise signal** that is controlled through a microprocessor.

White handpiece, designed to perform treatments in sensitive areas that require low energy power (**0.7 W**)

Green handpiece, intended to be used to transmit an energy flow of medium intensity (**1 W**)

Red handpiece, that conveys a higher and more powerful intensity of energy, ideal for treating severe skin imperfections and problems (**2 W**)

The choice of the handpiece is mostly related to the kind of treatment that the doctor wants to perform.



Why choose Plexr®

Versatile: Plexr® can work in **total safety and efficacy** both on the skin and on the mucosa, as **scientifically proven** and published in international literature

Profitable: **Affordable costs** and quick ROI (return on investment) for doctors

Non surgical: Plexr® allows to perform a **totally conservative and “tissue- friendly” treatment method**. No need of stitches, the healing time is very short and completely manageable for the patient

What is Thuzzle®?

Thuzzle® is the most advanced radiofrequency medical device, developed by GMV Medical Innovation.

It consists of **multiple advanced thermal energies** composing the "Puzzle of Beauty" for a **complete rejuvenation of the body**.

Its mechanism of action is based on the thermal effect which uses **electromagnetic waves to heat the connective tissue of the vaginal wall to a temperature of 40 - 42 ° C**

Main aims:

- *Collagen contraction*
- *Neocollagenogenesis and neovascularization*
- *Increase of elastin production*
- *Release of growth factors*
- *Increased density of small nerve fibers in the papillary dermis, improving sensitivity and consequently sexual function, including arousal and orgasmic dysfunction*
- *Revitalization and restoration of the tone, elasticity and lubrication of the vaginal mucosa.*



Thuzzle[®]

Main indications of Thuzzle[®] in gynecology

- GENITOURINARY SYNDROME
 - VULVODYNIA
- VAGINAL RELAXATION SYNDROME
- CHRONIC PELVIC PAIN SYNDROME
 - VAGINISM
 - SCLEROATROPHIC LICHEN
- STRESS URINARY INCONTINENCE (SUI)



Fractional



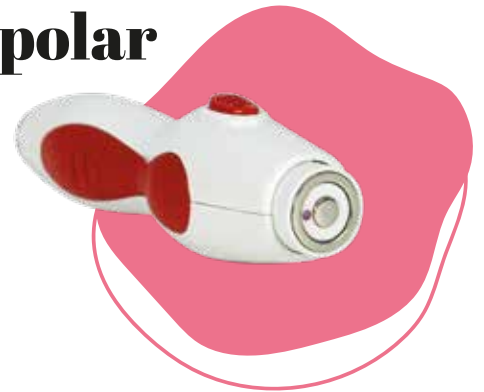
Monopolar

Indicated for functional and aesthetic gynecology
 User-friendly interface
 Unlimited updates
 Connection control
 Motion control
 Temperature control
 Skin recognition

Multimodal



Bipolar



**Mopoloar
Activation**

**Bipoloar
Activation**



Gynecological Probes Functions

Monopolar activation

Deep heat propagation
Stress Urinary Incontinence
Functional disorders, pain
Clitoral vascularization
Vaginal prolapse
Improvement of microcirculation
Thickening of the deep dermis

Bipolar activation

Quick and superficial heating
Atrophy
Dryness
Stimulation of collagen
Retraction and neocollagenesis





8 Nov 2018
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huzzle
Energy Based Devices

BODY FACE GINECOLOGY

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Why choose Thuzzle®

- **Non ablative technique**, more conservative for the tissue (compared to laser)
- **Cheaper** than laser, both for doctors and for patients
- **No side effects**
- Does **not** require **anesthesia**
- **Lack of downtime** (with lasers, patients cannot have sex for 7 days and sometimes bleedings occur after treatment)
- **Unpainful** (especially compared to laser and PRP injections): patients report feeling a sensation of warmth, which is very tolerable
- **Patient loyalty**: sessions of 20-30 min per week, from 5 to 10 sessions
- **Restores the vaginal pH**: so that it can support immune system against infections



Reviews of doctors who have already used it and recommend it

Paolo Mezzana, MD, PhD in plastic and reconstructive and aesthetic surgery (Italy)

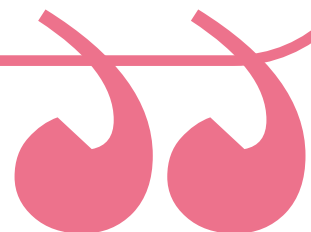
"This entirely -Made in Italy- technique is a mutation of non-surgical blepharoplasty using the Plexr® method. This new approach allows excess mucus to be removed without incisions and with excellent results that are respectful of anatomy and comparable with the results obtained by surgical or laser scalpels, while avoiding the discomfort and risks. [...] The fact of not passing through the basal lamina makes the technique particularly interesting for procedures in the genital area, as it allows the operator to work without anxiety. Plexr® doesn't come into direct contact with the mucus membrane as it releases plasma energy, excess tissue is sublimated without damaging the underlying and surrounding tissue, resulting in much shorter and less painful recovery times than traditional techniques. [...] Results are gradual, the method has no side effects and convalescence time is practically zero."

Dr. Agnieszka Nalewczyńska, MD PhD. Gynecologist and Expert in Aesthetic Medicine (Poland)

"I'm a great fan of the Thuzzle®. The Thuzzle® is like a real Puzzle, because it can cover all indications, like the face, the body but even gynecological indications. This is the reason why I think that Thuzzle® is an amazing tool for each doctor because you can achieve plenty of results with one machine, just changing the probs, and as I already said before it is also very versatile in treating many gynecological conditions, and nowadays is very important. It is also amazing for patients because you don't need any kind of downtime, it is painless, it is really nice to perform this treatment and you can see results immediately. So I recommend this device to each specialized doctor."

Dr. Alessandra Lusi, MD. Gynecologist and expert in Aesthetic Medicine (Italy)

"Non-ablative radiofrequency is a revolution in the gynaecological field, because it offers an alternative to pharmacological therapies and makes it possible to treat numerous genital problems safely and effectively. The Thuzzle® is a particularly innovative device, thanks to its dual working mode (monopolar and bipolar) that allows it to work at different depths."



Literature (specific for gynecology)

Genitourinary syndrome new therapeutic perspectives with vaginal radiofrequency. Pasquali G. 2019 [Thuzzle®]

The use of a Plasma Generator (Plexr) to treat the Symptoms of Vulvar and Vaginal Atrophy (VVA). Nalewczyńska A. et al. 2019 [Plexr®]

Treatment of genitourinary syndrome of menopause with a new radiofrequency device. Amori P. et al. 2020 [Thuzzle®]

Non-invasive labiaplasty with plasma energy device. [Plexr®] Paper in submission

*Search on PubMed for other international scientific publications on Plexr® and Thuzzle®
(more than 30 articles in different fields, from dermatology to ophthalmology)*



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