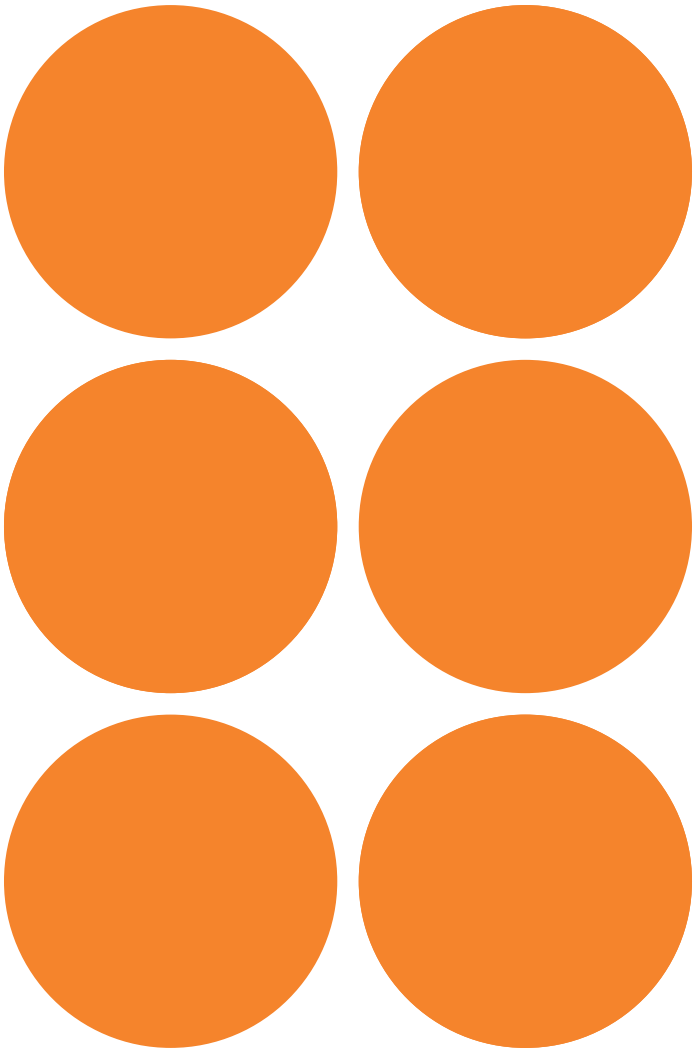
# Desirial®

IPN-Like TECHNOLOGY

PATENTED

HYALURONIC ACID + ANTIOXIDANT



VIVACY®

PARIS

MINODSVA (VE.CO.IT)

# Desirial®

IPN-Like TECHNOLOGY

A TRUE INNOVATION

for women's intimate health and well-being

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# When can DESIRIAL® be prescribed ?

**DESIRIAL® is indicated for all cases of vulvo-vaginal dryness.** This degradation of tissues may be perceived as discomfort or burning, increased sensitivity or chronic irritation and itching which can lead to wounds.

**DESIRIAL® and DESIRIAL® PLUS can also be used in cases of atrophy of the labia majora.** After a certain age, tissues tend to shrink, especially around the labia majora. This can compromise the natural protection of the vulva and lead to localised pain.

## Desirial®

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**INDICATIONS**

- Dryness
- Vaginal discomfort
- Chronic irritation

**RESULTS**

- Hydration of the vulvo-vaginal area
- Soothing effect of the irritated areas
- Improvement of the genital mucosal tissues

## Desirial® Plus

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**INDICATIONS**

- Hypotrophy, atrophy of the labia majora (volume loss)
- Aesthetic concerns

**RESULTS**

- Strengthening of the protective function of the labia majora induced by the increase in volume
- Improvement of the aesthetic appearance of the vulvo-vaginal area

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# *How can DESIRIAL® be defined ?*

**DESIRIAL®** is the world's first range of non-animal, bioresorbable, injectable hydrogels, exclusively developed to preserve women's intimate health. **DESIRIAL®** products are designed and manufactured in France by Laboratoires Vivacy, the Aesthetic and Anti-Ageing Medicine specialist.

**DESIRIAL®** products are based on the VIVACY's exclusive and patented IPN-Like Technology, with stabilised hyaluronic acid and the antioxidant mannitol.

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# *How can an injection of hyaluronic acid help relieve women suffering from vulvo-vaginal disorders?*

Injections bring hyaluronic acid directly into the tissues of the vulvo-vaginal area to contribute to its efficient hydration. This type of injection exerts a mechanical pressure on the cells of the vulvo-vaginal mucosa indirectly increasing their activity, leading to the synthesis of elastin and collagen fibres to improve the quality of the vulvo-vaginal mucosa[1].

## HYALURONIC ACID: HYDRATING ACTION

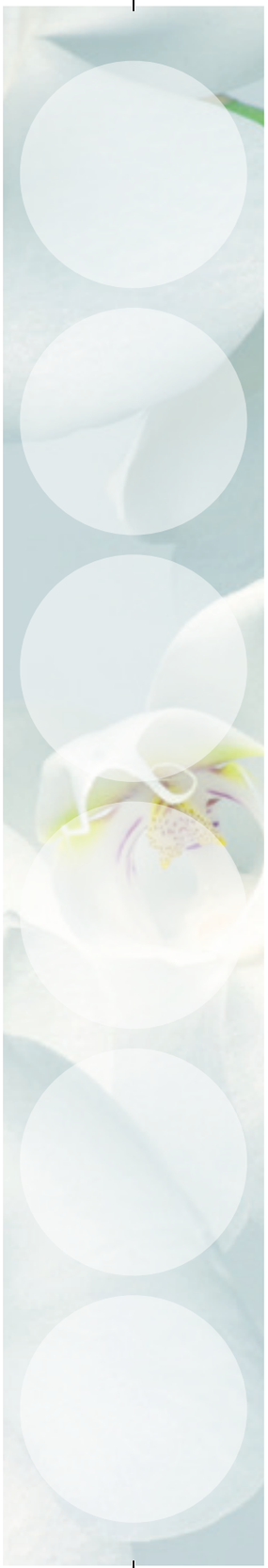
Hyaluronic acid is a naturally-occurring molecule in the human body, particularly in the skin and mucous membranes. It has the specific feature of retaining up to 1,000 times its weight in water[2], contributing to the hydration and the tone of the concerned tissues[3].

Hyaluronic acid has a short half-life and is soluble in water, so it needs to be crosslinked in order to stabilise the product. This process will bind molecules together according to the patented IPN-Like Technology to obtain a cohesive gel that will last for several months. As a result, **DESIRIAL®** is able to maintain its hydrating capabilities for several months.

## ANTIOXIDANT MANNITOL: PROTECTIVE ACTION

Mannitol is an antioxidant incorporated in **DESIRIAL®** products that limits the degradation of the gel immediately after injection. It preferentially scavenges the free radicals generated by the penetration of the needle or cannula during injection. Mannitol is consequently protecting hyaluronic acid during the first hours after injection[4].


1 – Quan T et al, : Enhancing structural support of the dermal microenvironment activates fibroblasts, endothelial cells, and keratinocytes in aged human skin in vivo. J Invest Dermatol. 2013 Mar;133(3):658-67. doi: 10.1038/jid.2012.364. Epub 2012 Oct 25.
2 – James Meschino DC, MS, ND. Encapsulated Hyaluronic Acid: An Essential Nutrient for Ageless Skin and the Reversal of Wrinkles.
3 - Stern R, Maibach HI. Hyaluronan in skin: aspects of aging and its pharmacologic modulation. Clin Dermatol. 2008 Mar-Apr;26(2):106-22.
4 – Mendoza G et al. Carbohydr Res. 2007 Jan 15;342(1):96-102.

**DESIRIAL® is available in two gel formulations: DESIRIAL® and DESIRIAL® PLUS. They have different concentrations and viscoelastic properties, so that your physician precisely decides which product is adapted for your specific needs.**

1. **DESIRIAL®** is dedicated to trophic conditions restoration (hydration, elasticity, tone, sensitivity) in the vulvo-vaginal area. Hyaluronic acid is directly injected into the concerned tissues to limit vaginal dryness and to improve the quality of the tissues.

2. **DESIRIAL® PLUS** is a more elastic gel designed to correct morphological vulvar imperfections. Among the consequences of these aesthetic corrections, a reduction of the functional disorders can be observed.

**HYALURONIC ACID DESIRIAL®**

- Strong hydrating power
- Specific viscoelastic properties

# *The consequences of ageing on the vaginal mucosa*

The female genital organs – like all organs of the body – are not immunised against the passage of time. During the menopause, the tissues of the vulvar area are particularly affected by the decreasing oestrogen production.

Without oestrogen, the vaginal mucosa thins and dries out, making it weaker. The vagina becomes less supple and less elastic. Vagina's natural protection mechanisms become less effective, exacerbating the risk of vaginal infection[5].

As a result, global discomfort and the modification of the vulvo-vaginal mucosa can have an adverse effect on the women's quality of daily life.

These symptoms are usually due to the loss of elasticity of the mucosa and occur specifically during the menopause[6]. Child-bearing age women can also be affected.

5 – Mac Bride MB et al, : Vulvovaginal atrophy. Mayo Clin Proc. 2010 Jan; 85(1):87-94
6 – Levine KB et al,: Vulvovaginal atrophy is strongly associated with female sexual dysfunction among sexually active postmenopausal women. Menopause. 2008 Jul-Aug;15(4 Pt 1):661-6

# What type of physician should I see to get this treatment?

Any practitioners specialised in reconstructive and functional gynaecology. The injections of **DESIRIAL®** and/or **DESIRIAL® PLUS** must be performed in the doctor's office by legally authorised practitioners with a good anatomical knowledge of the site to be treated and with experience of fillers injection techniques.

# What does the procedure involve?

A simple local anaesthetic may be suggested before each injection of **DESIRIAL®** and/or **DESIRIAL® PLUS**, which ensures a painless efficient treatment.

**DESIRIAL®** is injected typically into the vulvar area and at the entry of the vagina. The practitioner will use a very fine needle making it possible to inject the product very superficially, just below the mucosal tissue to be rehydrated.

The practitioner will inject **DESIRIAL® PLUS** just under the labia majora dermis. A small cannula will be used to spread the product along the labia without causing any damage.

The procedure lasts about 20 minutes.

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# *Are there any adverse effects?*

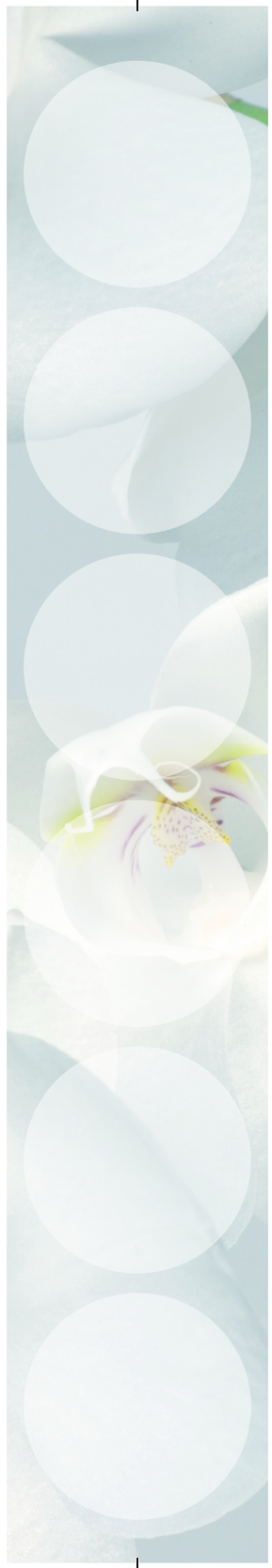
After an injection session, as with any injection of hyaluronic acid, some reactions may occur, such as swelling, bruising, itching, sensitivity at the injection site, but these are resorbed normally within a few days (non-exhaustive list; please read the product instructions for use carefully).
Any side effects that persist for more than a week or the appearance of any other adverse event must be notified to your physician as quickly as possible.

# *Are there any contraindications?*

- Pregnant or breastfeeding woman.
- Areas showing signs of clinical inflammation and/or viral infection (e.g.: Papilloma, Herpes), bacterial, fungal (e.g.: thrush), and/or in patients being treated for these pathologies.
- Patient with known hypersensitivity to one of the components (hyaluronic acid).

Remember to tell your doctor about your pathological history, such as autoimmune diseases or immunotherapeutic treatments.

The above mentioned contraindications are non-exhaustive. Please read carefully the instructions for use. A consultation with your doctor is required before any **DESIRIAL®** treatment.



# *What is the final outcome?*

**DESIRIAL®** and **DESIRIAL® PLUS** products reinforce hydration and can be used to restructure part of your body, where you feel discomfort. The mucosa becomes less sensitive to inflammation and associated symptoms decrease. Vulvar pain (dyspareunia), irritation and itching are also reduced. Improving or maintaining your quality of life is an important benefit of **DESIRIAL®** treatment and you should quickly appreciate it. **DESIRIAL®** preserves the femininity helping to limit the vaginal dryness.

Additional sessions of injections may be necessary to guarantee an optimal and long-lasting result. Your doctor will know which **DESIRIAL®** treatment fits you best. Ask your doctor for information on the **DESIRIAL®** range and book an appointment for a personal treatment.

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## *Laboratoires VIVACY*

**Laboratoires VIVACY is specialised in the design, production and distribution of high quality injectable medical devices for use in the field of Anti-ageing, especially in Medical Aesthetics and Viscosupplementation. All our products are based on patented IPN-Like Technology, a unique process that stabilise hyaluronic acid for safe and long-lasting therapeutic effects.**

Founded in 2007, the company has acquired recognised expertise in international markets with STYLAGE®, hyaluronic acid-based dermal fillers with the addition of natural antioxidants. The company also has recognised expertise in the fields of ophthalmology (I.SPACE®), rheumatology (KARTILAGE®) and now in aesthetic and functional gynaecology with DESIRIAL® range.

All our products are manufactured in France in compliance with European and International standards and regulations. The company's production plant is located in the dynamic Haute-Savoie region (France), next to the Swiss border. It has become a centre of advanced manufacturing technologies, research and product development.

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## *Absolute priority: product quality and safety*

**DESIRIAL® and DESIRIAL® PLUS products are manufactured in France, in the Laboratoires VIVACY's factory. They are subject to the many quality standards and regulations applicable to Class III medical devices and are specifically intended for gynaecological applications.**

DESIRIAL® products are medical devices, regulated health products which bear CE marking according to applicable regulation.

VIVACY is always seeking to develop innovative products meeting patients' and doctors' expectations, compliant with all relevant standards in terms of safety, quality and service.

As a manufacturer, VIVACY controls every stage of production.

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