

VIVACY®
P A R I S



STYLAGE® XXL | MEPIVACAINE

PRECISE FACIAL SHAPING
AND RESTRUCTURING

ANATOMICAL CHANGES IN THE STRUCTURE OF THE FACE



Facial sagging is a natural part of the aging process, and it is driven by several key factors. Over time, facial fat redistributes or decreases, and the **underlying bone structure recedes**, all contributing to a loss of support and the gradual **drooping of the skin**.



Lost of bone in the pyriform area weakens the support of the lateral crura

LOSS OF CONTOUR DEFINITION DUE TO AGING^{2,3,4,5}

- Bones are the framework for the attachment of overlying soft tissue, providing stability, structure, and definition
- With facial aging, facial skeleton undergo changes, impacting facial appearance

- **Resorption** of the **mandible** and **chin**
- **Loss** of **jawline definition**
- **Decrease** in the height and **projection of the chin**

- **Fat compartments** also undergo substantial changes.
- **Deflation of malar** fat pads and deep fat pads leads to **loss of support** and **descent** of the overlying superficial fat.

CONTOUR DEFINITION A WELL-IDENTIFIED DEMAND⁶



In today's aesthetics, the **jawline has become a key feature** in **defining facial** attractiveness for both **women** and **men**, but the **expectations differ**.



Women generally desire a refined, **sculpted jawline** and **chin** that **balances firmness with softness**. The goal is to enhance facial harmony without losing the **natural feminine contours**.

- **Well-contoured jawline** and **defined chin** not only boosts confidence but also serves to **harmonize facial features**.

Men typically seek a strong, **chiseled jawline** that **conveys masculinity, strength, and youth**. They turn to **contouring procedures** to achieve a sharper definition, aiming to **enhance facial symmetry** and project a robust, energetic image

- **Defined jawline** reinforces cultural **ideals** of **masculinity** and **attractiveness**.

A well-contoured jawline, a defined line from the mandible angle to the chin, is desirable in men and women, giving us a perception of beauty and youth.

STYLAGE[®] XXL^{7,8} | MEPIVACAINE

CHIN • JAWLINE • MANDIBULAR ANGLE • CHEEKBONES

A UNIQUE FORMULATION

- **21mg/ml** of cross-linked Hyaluronic Acid (HA)
 - Patented IPN-Like Technology
 - Mannitol enriched buffer
 - Mepivacaine Hydrochloride

ELASTICITY



VISCOSITY



PLASTICITY



TAN DELTA



- **Sharpens** facial angles
- **Redefines** balanced contours



Precise and sharp restructuring of **facial contours**⁸



Excellent tissue integration^{7,8}



Slow degradation and **long-lasting effect**^{7,8}



Great tolerance^{7,8}

PACKAGING

2 x 1mL syringe
2 X 27G1/2" NEEDLE AND
25G 40MM CANNULA
(With pre-hole needle)

STYLAGE[®] XXL MEPIVACAINE THE SHARP RESTRUCTURING



1. PATENTED IPN-LIKE TECHNOLOGY⁹

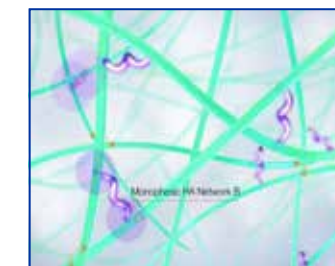
STYLAGE[®] XXL Mepivacaine

is formulated using **high-quality hyaluronic acid** combined with the patented **IPN-Like** (Interpenetrated Network-like) Technology. This unique formulation creates a stable, flexible gel that integrates seamlessly into the skin, delivering natural-looking results.



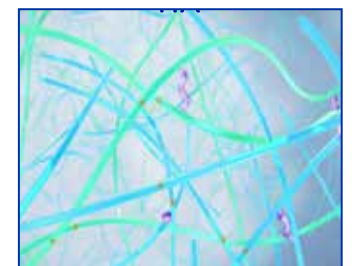
Matrix A

+



Matrix B

=



Mix of matrix A & B

- InterPenetrated Networks (IPN)

► Gives **SHAPE** and **STRUCTURE**

► Gives **FLEXIBILITY**

► **Dense & flexible** gels with adapted viscoelastic properties

2. MANNITOL ENRICHED BUFFER⁹

Known for^{10,11} :

- Scavenging of oxygen-free radicals

Available with an anesthetic **mepivacaine** for a more comfortable injection experience.

3. MEPIVACAINE HYDROCHLORIDE^{12,13}

- Belongs to the **same anesthetic family** as **Lidocaine Hydrochloride Monohydrate**
- **Similar to Lidocaine Hydrochloride Monohydrate** in terms of **onset of action, effectiveness duration** and **safety**

STYLAGE® XXL MEPIVACAINE

FINE-TUNED RHEOLOGY⁸



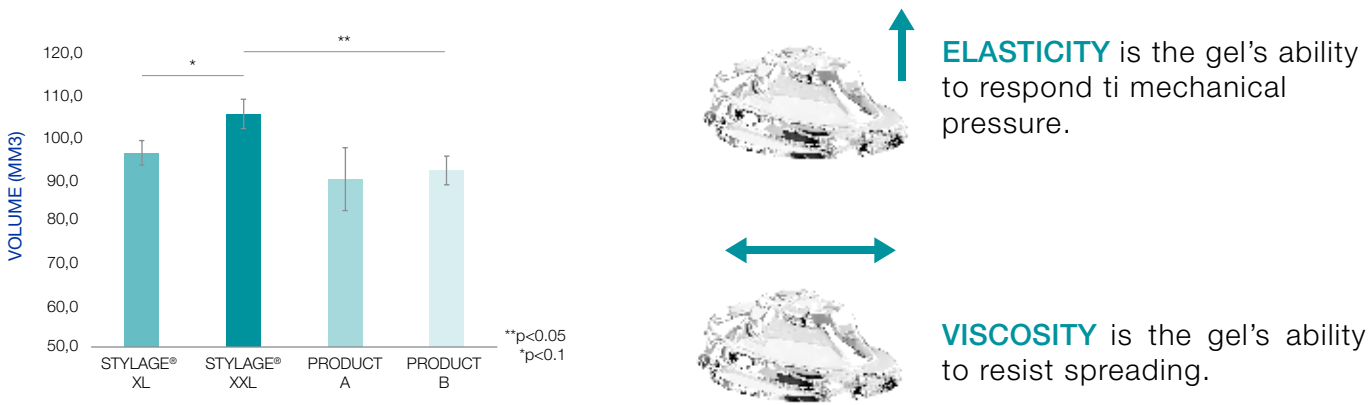
Highly cohesive gel with a projection capacity and precise rheology for sharp restructuration and contouring

1-ELASTICITY AND VISCOSITY

Evaluation of the projection capacity of STYLAGE® XL and XXL

- Study performed on rats
- Injected volume: 100 µL

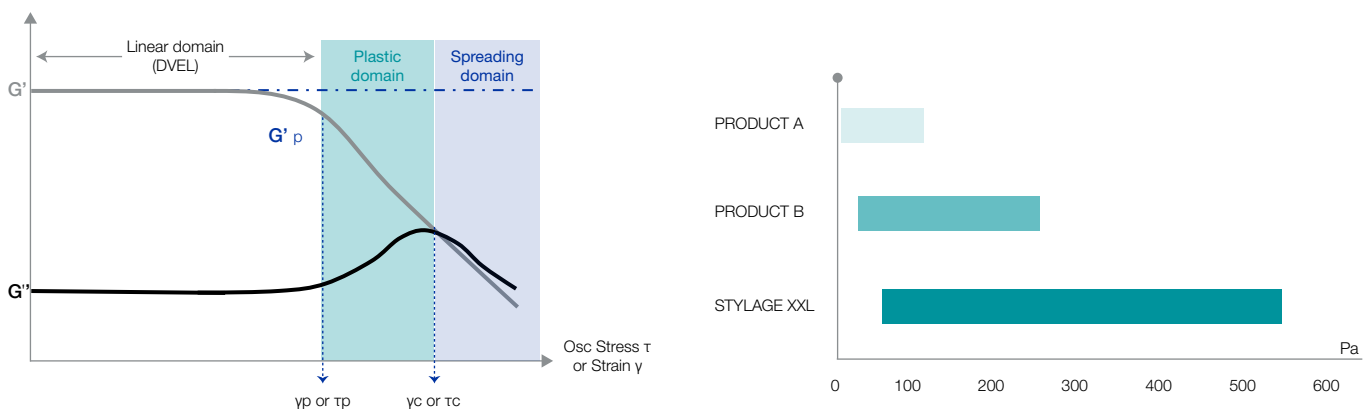
HIGHER PROJECTION CAPACITY OF STYLAGE® XXL¹⁴ FOLLOWING INJECTION



2-HIGH PLASTICITY

Plastic domain: a method by Vivacy to characterize the plasticity of our gels under constraints¹⁵

► Capacity to deform and to resist constraints, adaptability to movements



Plastic domain: transformation & adaptation of the gel without losing its structure and properties

The plastic domain : STYLAGE® XXL Mepivacaine is very efficient to induce tissue projection, with a higher capacity to adapt to dynamic and movements of the face, resulting in more natural and durable restructuration.

STYLAGE® XXL MEPIVACAINE

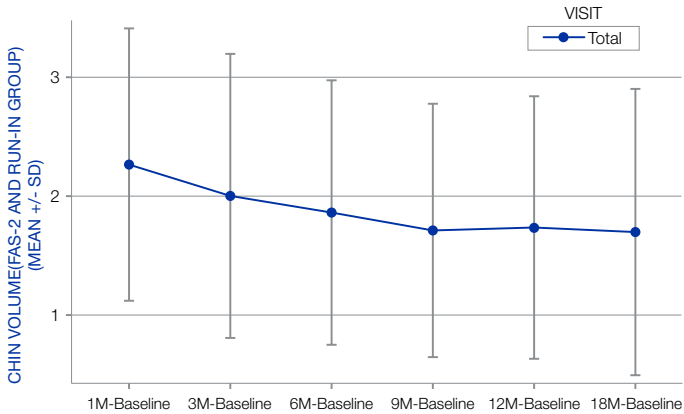
RESULTS OVER 18 MONTHS⁷



Superiority trial vs no treatment in subjects over 18 months. Evaluation of the efficacy (volume measurement with Quantificare, GAIS), patients' satisfaction (Face-Q questionnaire) and safety of STYLAGE® XXL in the chin.

1-STABLE CORRECTION OVER 18 MONTHS

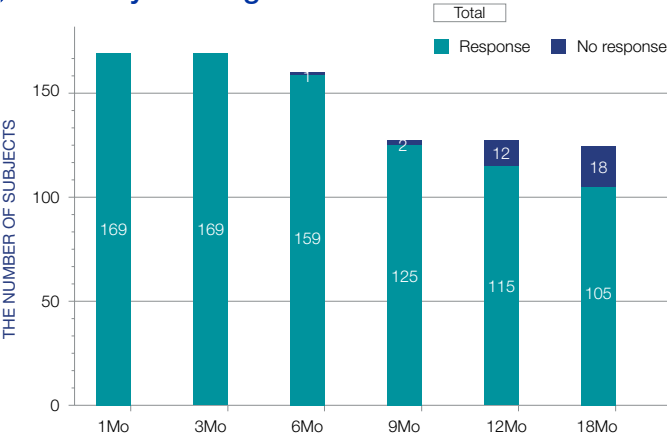
CHIN VOLUME CHANGE, FROM BASELINE TO 1, 3, 6, 9, 12 AND 18 MONTHS



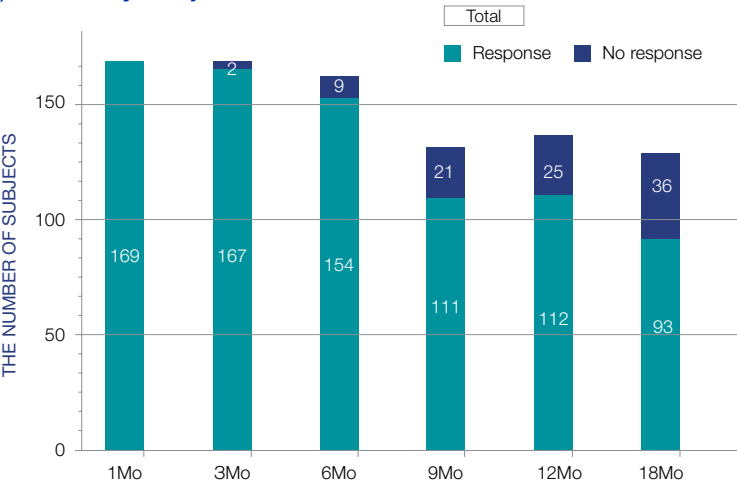
2-GAIS ASSESSMENT AND PATIENT SATISFACTION

- High improvement by subjects and investigator
- High satisfaction rate at each visit and maintained over time
- At 18 months, the satisfaction rate was more than 85%

► GAIS by investigator



► GAIS by subjects



3-PROVEN SAFETY

STYLAGE® XXL was well tolerated and safe. Adverse effects related to STYLAGE® XXL reported were well known and expected.¹⁷



A COMPLETE RANGE
TO RESTORE FACIAL
VOLUMES^{8,16,17}



 Composition	• 26 mg/g of crosslinked HA • Mannitol enriched buffer qs 1ml • Lidocaine Hydrochloride Monohydrate (0.3% w/w)	• 21 mg/g of crosslinked HA • Mannitol enriched buffer qs 1ml • Mepivacaine Hydrochloride (0.3%w/w)
 Technology	IPN-Like Technology	IPN-Like Technology
 Projection capacity¹⁴		
 Viscosity		
 Plasticity		
 Tan Δ^*		
 Indications	Restoration or augmentation of facial volumes	Restoration or augmentation of facial volumes
Recommended areas	Cheeks Cheekbones Temples	Mandibular angle Jawline Chin Cheekbones
 Packaging	2 x 1mL syringes 27G1/2" & 23G1"1/4" needles	2 x 1mL syringes 2 x 27G1/2" needles & 1 x 25G 40mm cannula
 Anatomical plan	Deep dermis, subcutaneous	Deep dermis, subcutaneous

*Tan $\Delta = G''/G'$

¹ Arcane survey – Aesthetic dermatology 2024; Basis: 5,350 French women aged 18 to 79

² Wan D, Amriak B, Rohrich R, Davis K. The clinical importance of the fat compartments in midfacial aging. Plast Reconstr Surg Glob Open. 2014 Jan 6;1(9):e92.

³ Rohrich RJ, Pessa JE, Ristow B. The youthful cheek and the deep medial fat compartment. Plast Reconstr Surg. 2008;121:2107–2112.

⁴ Mendelson B, Wong CH. Changes in the facial skeleton with aging: implications and clinical applications in facial rejuvenation. Aesthetic Plast Surg. 2012 Aug;36(4):753-60.

⁵ Swift A, Liew S, Weinkle S, Garcia JK, Silberberg MB. The Facial Aging Process From the «Inside Out». Aesthet Surg J. 2021 Sep 14;41(10):1107-1119.

⁶ Braz A, Eduardo CCP. Reshaping the Lower Face Using Injectable Fillers. Indian J Plast Surg. 2020 Aug;53(2):207-218.

⁷ Clinical study with STYLAGE® XXL on 174 Chinese subjects – internal data unpublished

⁸ Internal data - R&D department.

⁹ Laboratoires Vivacy (France). IPN-Like Technology Patent – “Biodegradable single-phase cohesive hydrogel.” WO2009/071697 - 2008.

¹⁰ Faraji H, Lindsay RC. Characterization of the antioxidant activity of sugars and polyhydric alcohols in fish oil emulsions. J Agric Food Chem. 2004 Nov 17;52(23):7164-71.

¹¹ Soltaninia O, Shojaaee M, Mannitol Reduces Pain and Trismus After Impacted Mandibular Third Molar Surgery. J Oral Maxillofac Surg 2024 May. 82(5):572-580.

¹² Tomin, J. et Al. « Differences in local anesthetic effects of optically active isomers of local anesthetic compounds ». Biotechnology & Biotechnological Equipment, 2006.

¹³ Clinical study – Stylage S and M lidocaine vs Stylage S and M mepivacaine (2015).

¹⁴ Internal ongoing preclinical data - projection capacity of STYLAGE® XL and XXL

¹⁵ International patent number:WO2022038156 – European patent number: EP4200590.

¹⁶ STYLAGE® XL IFU (OPDC726 v7 (04/2020)_Mastertext_EN).

¹⁷ STYLAGE® XXL IFU (OPDC726 v7 (04/2020)_Mastertext_EN).

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Class III medical devices (CE 0344), non-reimbursable. The STYLAGE® XL Lidocaine and XXL Mepivacaine products are intended to restore or increase volume in the face. There is also a version of the products with no local anaesthetic. The injection must be administered by a legally authorised practitioner trained in implant injection techniques. Read the Instructions for use carefully before use. The following side effects (nonexhaustive list) may occur: inflammation, redness, swelling, pain, erythema, induration, nodules, colouration or discolouration, bruising. All incidents should be reported directly to Laboratoires VIVACY: customer.complaint@vivacy.fr. Treatment with a filler product may require several sessions in order to achieve the desired level of correction. MK1159 vB (04.2025)

