

Definisse™ Threads

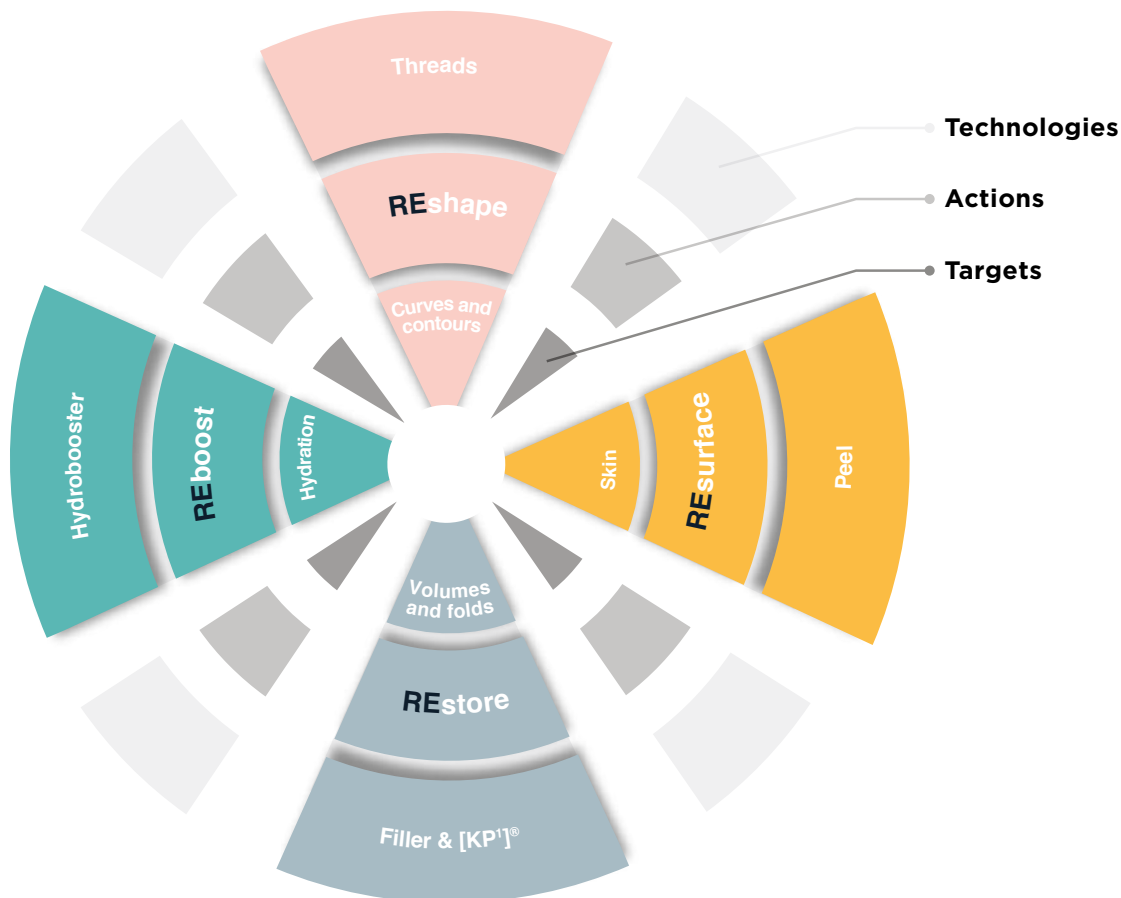
FOR FACIAL
CONTOURS
REDEFINITION.



AN INTEGRATED APPROACH TO AESTHETIC MEDICINE.

Through the process of conscious innovation Relife has developed a new approach in aesthetic medicine:

- Arising from **emerging aesthetic needs**
- Flexible and integrated portfolio of products **designed for dedicated Aesthetic Specialists**
- Targets the **Aesthetic needs** of patients



FOR FACIAL CURVES AND CONTOURS RESHAPING.

1 **Definisse™ Threads** are the result of 10 years of research and studies aimed at achieving an effective solution for a non-surgical, minimally invasive face lifting effect; adding definition to facial contours.

2 **Definisse™ Threads** are a range of absorbable, monofilament, suspension-barbed threads of synthetic origin (poly-L-lactic acid and caprolactone, p(LA-CL)) to be used for tissue mobilisation and reshaping^{1,2}

Key characteristics are:

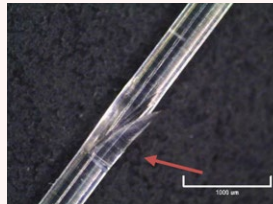
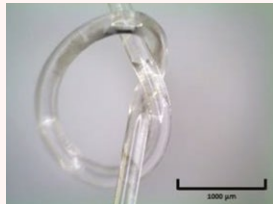
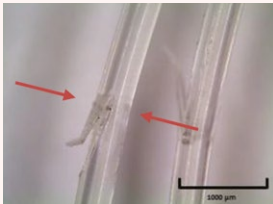
- **Definisse™ Threads** are barbed which allows the thread to be anchored once inserted in the tissue³. This results in:
 - **AN IMMEDIATE LIFTING EFFECT** ³
 - **A PROLONGED LIFTING EFFECT**, due to the fibrosis that appears along the length of the thread.³
- **Definisse™ Threads** show a **greater elasticity and a lower plasticity** compared to p(LA) threads, as showed measuring the maximum strain percentage and the recovered fraction after the load application and removal.⁴

3 Clinical studies show that **Definisse™ Threads** result in:

- **An immediate** facial reshaping³
- **91% satisfied or highly satisfied** patient satisfaction levels⁵

SUSPENSION BARBED THREADS.

The barbs of **Definisse™ Threads** are specially designed to obtain an immediate lifting effect² and a prolonged lifting effect, due to the fibrosis that appears along the length of the thread³



stereomicroscope images of strands at different magnification – Definisse™ Threads on the left, the comparator #1 in the middle and the comparator #2 on the right⁴.

- 1 The barbs along the length of the threads act as a hook to lift and support one area of the face whilst relaxed³
 - The barbs can be opened like an umbrella after positioning to form a support structure that lifts sagging skin³
- 2 With barbed threads it is possible to form a “**J stitch**”⁶
 - “J stitch” reinforces the anchoring and support capacity of the suture⁶

J Stitch



MECHANICAL PROPERTIES.

Definisse™ Threads are based on a blend of poly-L-lactic acid and caprolactone²

A tensile test, conducted on **Definisse™ Threads** versus p(LA) threads and another type of p(LA-CL) threads available in the market, highlights that **Definisse™ Threads** are **stronger** than other leading thread brands when compared head to head.⁴

Maximum resistance (Rm)⁴

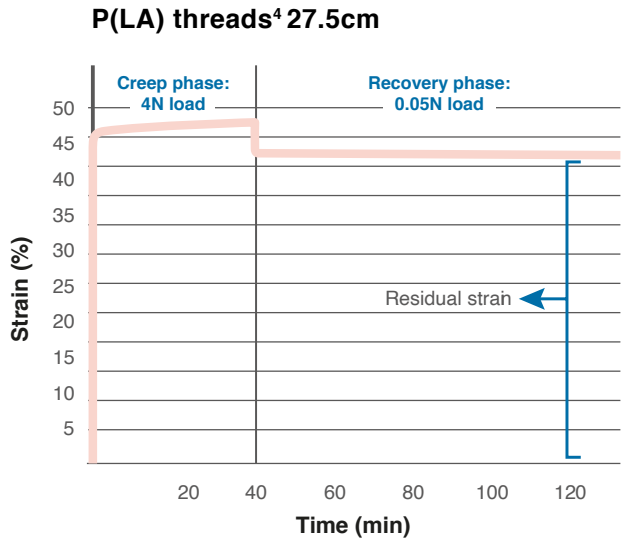
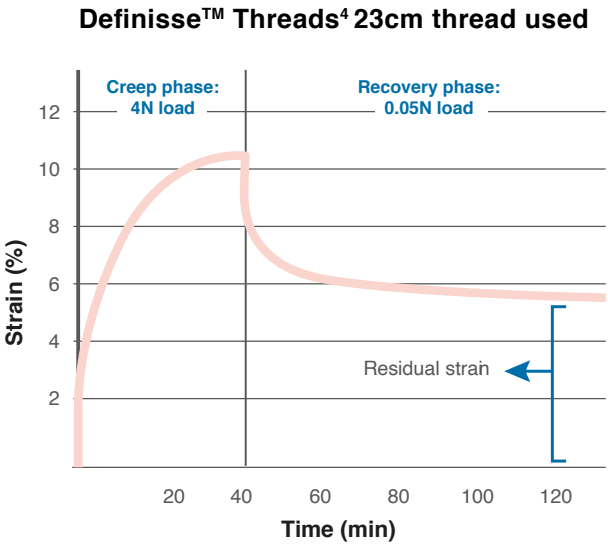
	Mean Rm (Newton)	Standard deviation	Sample number
Definisse 23cm	17.46	1.33	9
Definisse 12cm	16.75	1.36	10
p(LA) thread 27.5cm	11.00	0.75	7
p(LA-CL) thread 10cm	8.90	0.61	10

Force needed to break the threads. This test has been conducted at room temperature (25°C) after a preload of 0.03N with a speed of test of 50mm/min. Test stops at specimens failure⁴

MECHANICAL PROPERTIES.

Definissee™ Threads show a greater **elasticity** and a lower **plasticity** compared to p(LA) threads, as showed measuring the maximum strain percentage and the recovered fraction after the load application and removal.⁴

CREEP TEST: Strain recovery curve



The “Creep & Recovery test” has been conducted at room temperature (25°C). The duration of the “Creep phase” was 40 minutes with an applied load of 4N. The duration of the “Recovery phase” was 80 minutes with an applied load of 0.05N.⁴

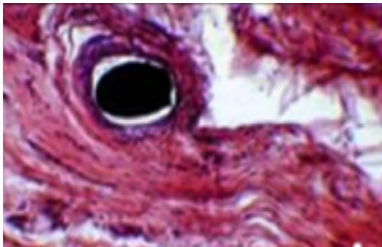
	Definissee™ Threads ⁴	P(LA) threads ⁴	P(LA-CL) threads ^{4*}
Maximum strain after 40 minutes of load application	10.5%	47.1%	7.4%
Residual strain 80 minutes after load removal	5.6%	42.3%	3.5%
Recovered fraction of the maximum strain 80 minutes after load removal	46.6%	10.2%	52.7%

MECHANICAL AND HISTOLOGICAL LIFTING.

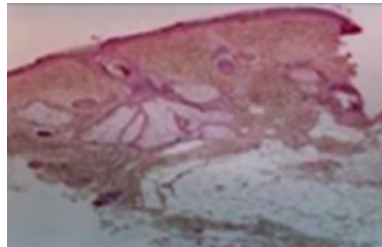
The combination of technical features of the **Definisse™ Threads** allows them to achieve a two-step lifting:

- 1 **Immediate lifting effect**, due to the mechanical action produced by the thread³
- 2 **Prolonged lifting effect**, guaranteed and fortified by the fibrosis that appears along the length of the thread³

A histopathological analysis was performed on two patients treated with **Definisse™** free floating threads on the zygomatic area: bioptic drawings were carried out 60 days after the procedure.³



Fragment of skin containing a microscopic filament.³

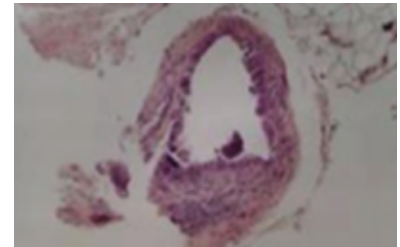


Fragment of skin next to inserted thread.³

It shows annexation

structures and vessels with no signs of inflammation.³

An increase in the thickness of the papilla can also be seen.³



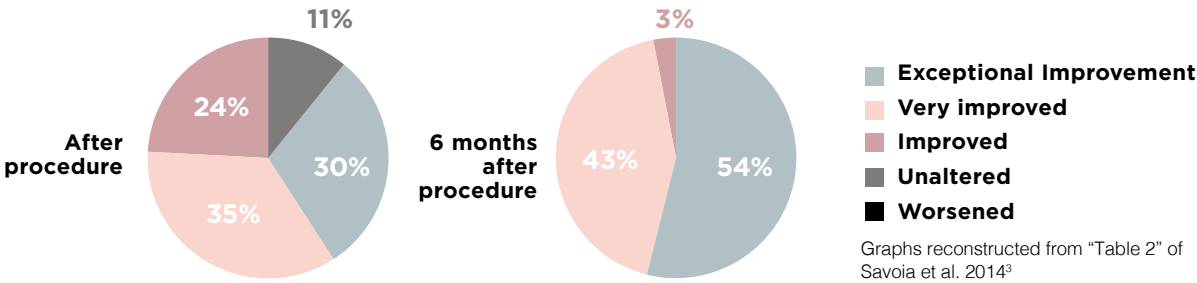
Fragment of subcutaneous tissue showing a connective structure forming a ring with a thickness of around 70µm around a cavity seat of the thread.³

EFFECTIVE AND LONG TERM FACIAL RESHAPING.

Savoia et al. evaluated **Definisse™ Threads** on 37 patients aged 37-65 years requiring a modest lift³
The patients were divided into 3 treatment groups³

	Group 1	Group 2	Group 3
Type of thread	Ancorage	Free Floating	Double Needle
Number of patients	5	8	24
Treated area(s)	Midface	Zygomatic area Mandibular area	Eyebrow Neck

- 1 **Satisfactory outcomes** were found after treatment in the majority of patients (89%)³
- 2 As scored throughout the Global Aesthetic Improvement Scale (GAIS), the **optimal aesthetic outcome** was still statistically significant after 6 months ($P<0.005$)³



- 3 The most frequent minor complication was small ecchymosis.³ - 62%
The study has shown that the use of Definisse™ Threads is a **well tolerated and successful technique** for facial revitalisation³

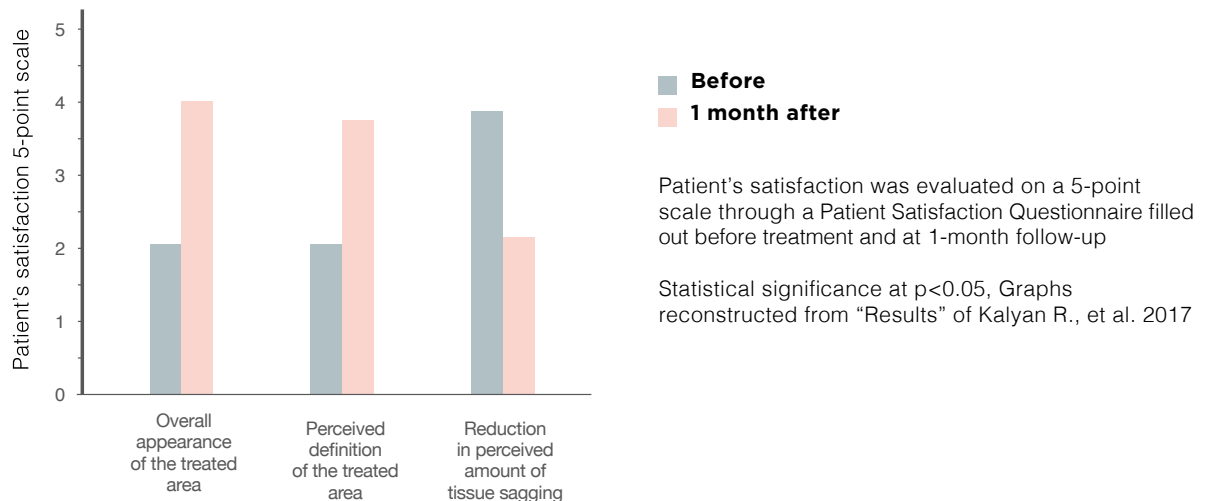
EFFECTIVE FACIAL RESHAPING.

Kalyan et al. evaluated free floating and double needle threads on 23 patients aged 32-57 years requiring mild to moderate lifting.⁵

1 The patients were treated with:

- Free floating threads on the zygomatic area⁵
- Double needle threads on the jaw line and submental area⁵

2 Fifteen patients (65%) were satisfied with the treatment and six patients (26%) were highly satisfied.⁵

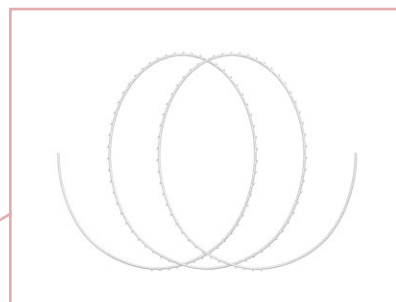


3 22 patients (95.65%) declared that they would have the procedure repeated⁵

4 The most frequent minor complication was bruising.⁵
The study indicates that sub-dermal suspension with these threads is an **efficient and well tolerated procedure** providing a mild to moderate soft tissue lifting⁵

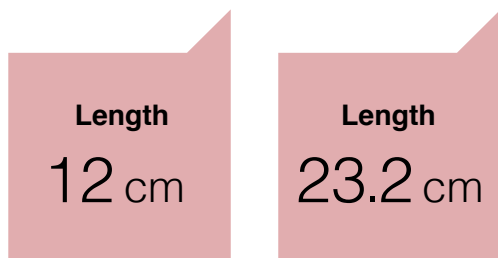
Definissee™ free floating threads

The **Definissee™** free floating threads are bidirectional and convergent threads.

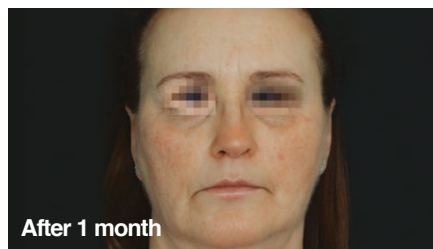


Each box contains 6 sterile threads packaged separately

The available lengths* are:



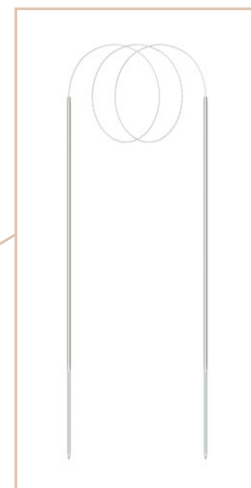
*The length referred to is the part with the barbs



Courtesy of Dr. S. Fundaro

Definisse™ double needle threads

The **Definisse™** double needle threads are bidirectional and convergent threads.



Each box contains 6 sterile threads packaged separately

The available lengths* are:

Length

12 cm

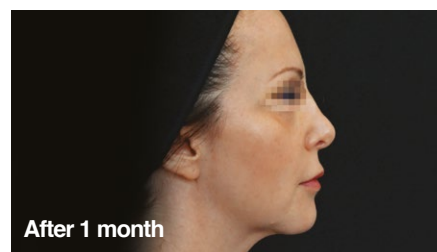
Length

23 cm

*The length referred to is the part with the barbs

The thread ends with **two straight triangular needles**:

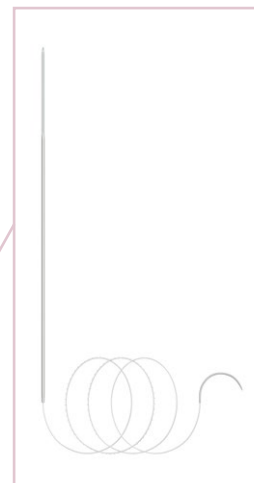
- 100 mm long with a diameter of 0.80 – 0.83 mm for the 12 cm long thread
- 150 mm long with a diameter of 1.26 – 1.28 mm for the 23 cm long thread



Courtesy of Dr S. Fundaro

Definisse™ ancorage threads

The **Definisse™** ancorage threads are unidirectional barbed threads.



Each box contains 10 sterile threads packaged separately

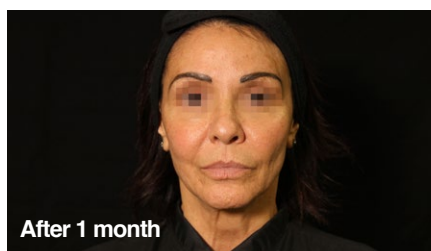
The available lengths* are:

Length

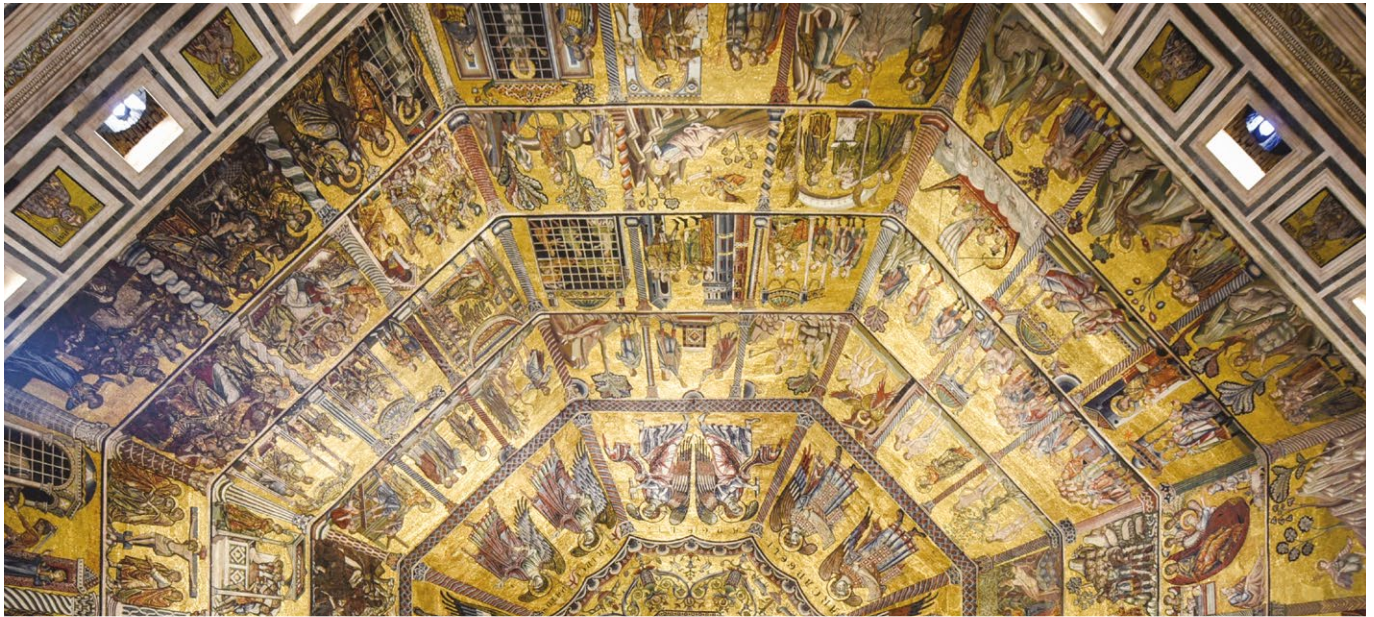
12.6 cm

***The length refers to the part of the thread with the barbs**

- Straight triangular needle 152 mm, 1.26 – 1.28 mm diameter
- Cylindrical needle 1/2 C 31.1 mm, 0.77 – 0.80 mm diameter



Courtesy of Dr. Cirillo

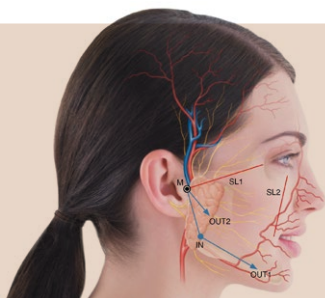


The whole is greater than the sum of its parts
Aristotle (384-322 BC)

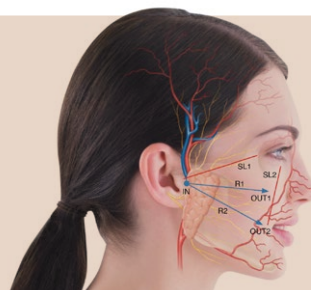


Definisse™ techniques

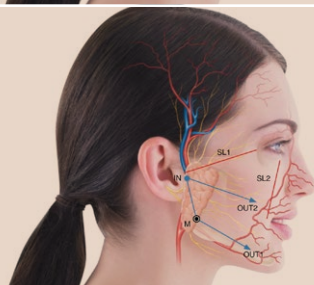
*JR
technique*



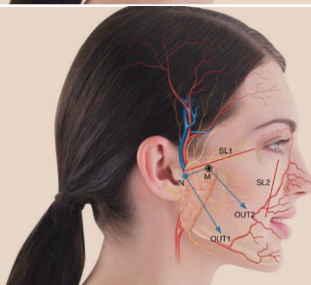
*MR
technique*



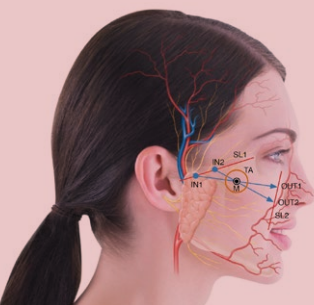
*LR
technique*



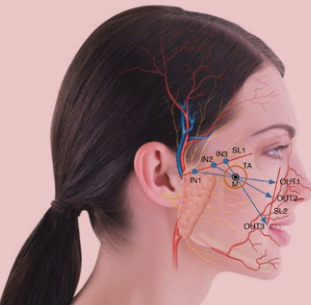
*OR-V
technique*



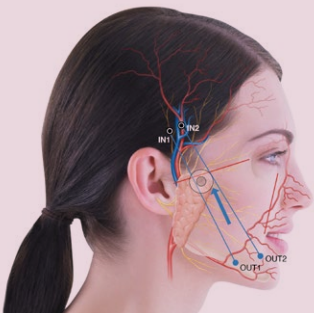
*STR-2
technique*



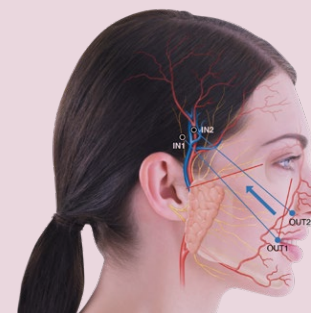
*STR-3
technique*



*AGR-J
technique*



*AGR-M
technique*



Threads	Technique	Indications	Actions
Definisse™ double needle	Jawline Reshaping (JR)	<ul style="list-style-type: none"> • Lifting action of the jawline and pre-auricular area • Definition of the jaw angle 	<input type="checkbox"/> IMMEDIATE ACTION: volumising ++ lifting action ++ <input type="checkbox"/> LONG TERM ACTION: revitalisation due to the fibrosis
	Malar Reshaping (MR)	<ul style="list-style-type: none"> • Lifting action of the malar area • Lifting action of the nasolabial fold 	
	Lateral Reshaping (LR)	<ul style="list-style-type: none"> • Lifting action of the nasolabial fold • Lifting action of the jawline and the supero-lateral neck 	
	Oval Reshaping (OR-V)	<ul style="list-style-type: none"> • Lifting action of the jawline and the mouth angle 	
Definisse™ free floating	Soft Tissue Reshaping-2 (STR-2)	<ul style="list-style-type: none"> • Volumising action of the cheekbone • Lifting action of the upper nasolabial fold and the cheekbone MILD PTOSIS	<input type="checkbox"/> IMMEDIATE ACTION: volumising +++ mild lifting action + <input type="checkbox"/> LONG TERM ACTION: revitalisation due to the fibrosis
	Soft Tissue Reshaping-3 (STR-3)	<ul style="list-style-type: none"> • Volumising action of the cheekbone • Lifting action of the nasolabial fold and the cheekbone MODERATE PTOSIS	
Definisse™ ancorage	Antigravity Jawline Reshaping (AGR-J)	<ul style="list-style-type: none"> • Lifting action of the wattle and the marionette line • Lifting action of the jawline and malar area 	<input type="checkbox"/> IMMEDIATE ACTION: mild volumising + lifting action +++ <input type="checkbox"/> LONG TERM ACTION: revitalisation due to the fibrosis
	Antigravity Malar Reshaping (AGR-M)	<ul style="list-style-type: none"> • Lifting action of the malar area and the cheekbone • Lifting action of the nasolabial fold 	

References

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2. Berardesca E. Reshaping with barbed threads. Edizioni Minerva Medica. 2020
3. Savoia A, et al. Outcomes in thread lift for facial rejuvenation: a study performed with Happy Lift™ Revitalizing. Dermatol Ther (Heidelb), 2014. 4(1):103-114
4. Analysis of different types of sutures wires. Rigano Laboratoires S.r.l. PROT 148/17
5. Kalyan R, et al. The efficacy of polycaprolactone threads in zygomatic and mandibular lifting: consecutive study from a single practitioner's experience. Int J Clin Expl Dermatol, 2017. 1(1):1-3
6. Fundarò S. Treatment of middle and lower third of face with barbed bidirectional absorbable sutures. In: The invisible face lift. 2nd edition OEO Firenze 2016 pp. 217-236

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