

Natural & Gorgeous Volume and Longevity



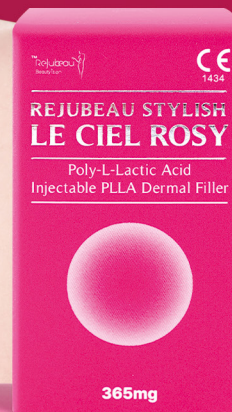
# REJUBEAU STYLISH LE CIEL ROSY

Poly L-Lactic Acid  
Injectable PLLA Dermal Filler

Gorgeous Volume Restoration with Natural Collagen Stimulation

For Professionals

Rejubeau Stylish Le Ciel Rosy is a medical device indicated for the treatment of severe facial wrinkles and folds, replacement of volume defects, facial lipoatrophy, and improvement of facial contour deformities. Before using Rejubeau Stylish Le Ciel Rosy, please read the "IFU (Instruction For Use) thoroughly or consult physicians.



# REJUBEAU STYLISH LE CIEL ROSY

Poly-L-Lactic Acid  
Injectable PLLA Dermal Filler

# REJUBEAU STYLISH LE CIEL ROSY

## Poly L-Lactic Acid Injectable PLLA Derma Filler

As a safe and effective collagen stimulator & regenerator, Rejubeau Stylish Le Ciel Rosy is an injectable and biocompatible medical device. Rejubeau Stylish Le Ciel Rosy helps to restore natural volume for aging skin lost collagen.

Poly L-Lactic Acid, the main ingredient is used for medical material over 20 years and confirmed safety by US FDA.

The injected Rejubeau Stylish Le Ciel Rosy (Poly L-Lactic Acid) into subcutaneous layer starts to stimulate the body's collagen regeneration.

It increases the skin's elasticity and volume naturally and makes looking young.

Depend on the condition of patients, 2 or 3 times of treatment are recommended for the longevity of volume staying.<sup>1)</sup>

► **Rejubeau Stylish Le Ciel Rosy, collagen stimulator & regenerator, is confirmed by CE**

► **Rejubeau Stylish Le Ciel Rosy, collagen stimulator & regenerator, is confirmed by Korean Ministry of Food and Drug Safety (MFDS)**

► **Rejubeau Stylish Le Ciel Rosy is a collagen stimulator & regenerator made of PLLA which is confirmed by FDA as a medical material**

Injected Rejubeau Stylish Le Ciel Rosy stimulates and regenerates collagen under the skin and restores volume of facial area. It naturally helps to reduce fine line wrinkles and present youth looking.<sup>2)</sup>

### Rejubeau Stylish Le Ciel Rosy Information:

Volume: 365mg x 1 vial (5ml)

Indication: For treatment of severe facial wrinkles, folds, and replacement of facial contour deformities

### Reference

1) Aesthetic Surgery Journal 2018, Vol. 38(51) 513517

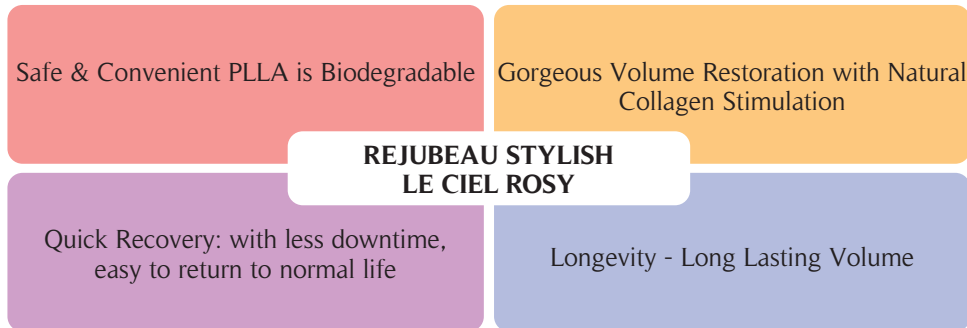
2) Rejubeau Stylish Le Ciel Rosy confirmed by KDFA (Korea of Drug and Food Safety)

3) EC certified

## WHY REJUBEAU STYLISH LE CIEL ROSY?

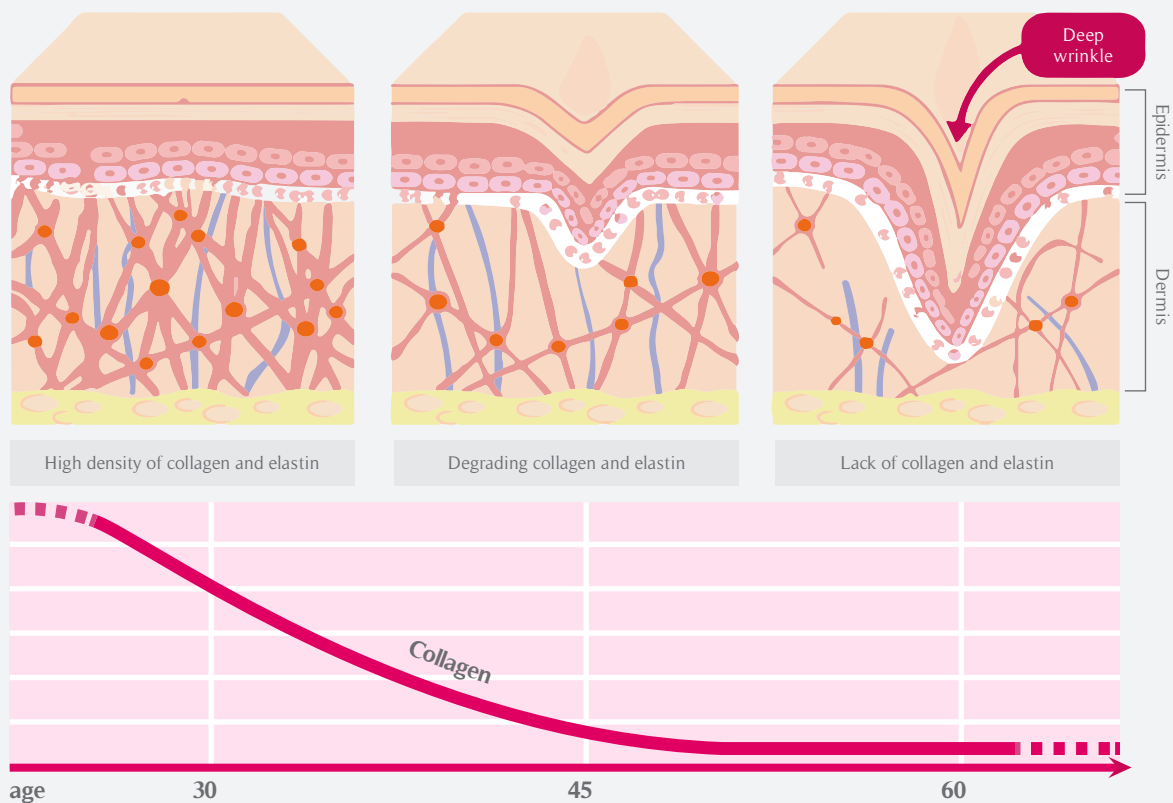
Natural Volume with Longevity and Wrinkle care

Injected Poly L-Lactide Acid (Rejubeau Stylish Le Ciel Rosy) restores volume through stimulating collagen in the skin layer. Generated volume with own collagen lasts more than 2 years.



## The correlation between Collagen & Skin aging

- The proportion of the collagen types in skin change with age. Young skin is composed of 80% type I collagen and about 15% Collagen type III. With age, the ability to replenish collagen naturally decreases by about 1.0%~1.5% per year.
- This decrease in collagen is one of the characteristic hallmarks associated with the appearance of fine lines and deeper wrinkles. [Picture 1]
- Moreover, deep inside in the dermis, fibrillar collagens, elastin fibres and hyaluronic acid, which are the major components of the extracellular matrix, undergo distinct structural and functional changes.



Picture 1. Collagen content in skin tends to increase until approximately the mid-20s. Thereafter, there is a progressive loss of collagen through the decades

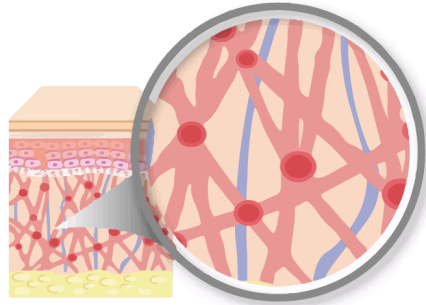
The loss of collagen is clearly correlated with changes to appearance attributes which are typically referred to as fine lines and wrinkles

**[Reference]** The relationship of skin collagen content (expressed per unit skin surface area) to age in males (a) and females (b). Females have less collagen than males at all ages but the rate of decrease is the same in both sexes. Ref. British Journal of Dermatology(1975) 93, 639

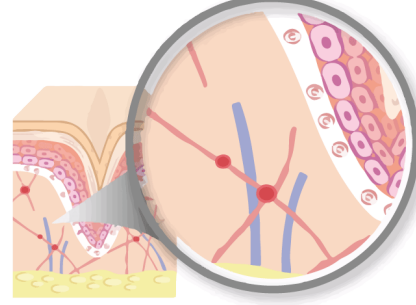
## Collagen is the key factor of young skin.

As people get aged, collagen is decreased from 20 years old, and the reducing rate is 1% per year. Adult skin declines the ability of generating collagen. From 40 years old, they lost 20% of collagen in the skin. The basic reason of wrinkles and fold are lost collagen. Thin skin gets sagged and brings aged face.

Rejubeau Stylish Le Ciel Rosy stimulates the collagen in the subcutaneous layer and fill the lost volume.



Collagen in young skin



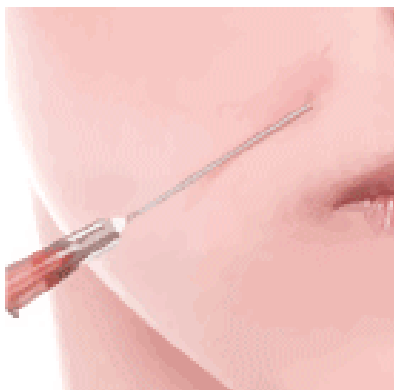
Collagen in aged skin

## How Rejubeau Stylish Le Ciel Rosy works

PLLA (Poly L-Lactic Acid, the main ingredient of Rejubeau Stylish Le Ciel Rosy) is biocompatible and biodegradable synthetic polymer that has been used for sutures and other medical devices.

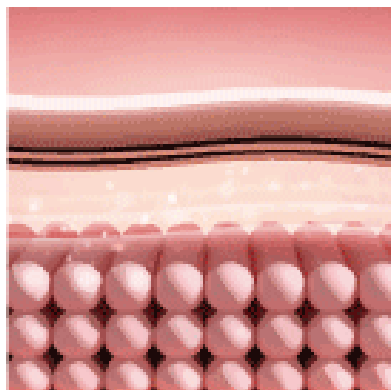
Injected PLLA stimulates collagen generation, the volume gradually restored improves wrinkles.

### Mechanism of action



#### STEP 01

Inject diluted Rejubeau Stylish Le Ciel Rosy into the subcutaneous layer of the skin.



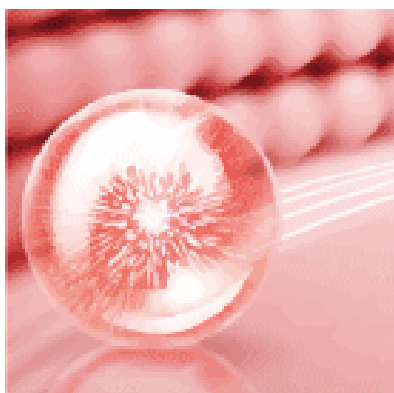
#### STEP 02

Firstly, wrinkle improvement can be shown with WFI (Water for Injection) and diluted Rejubeau Stylish Le Ciel Rosy.



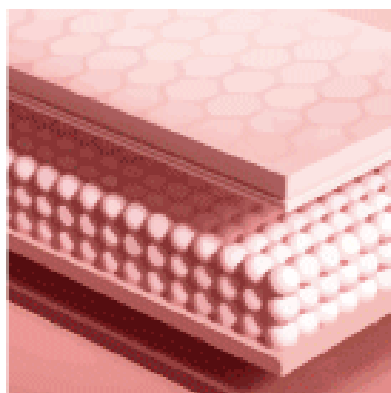
#### STEP 03

Within some days, after absorbing water, only Rejubeau Stylish Le Ciel Rosy particles left.



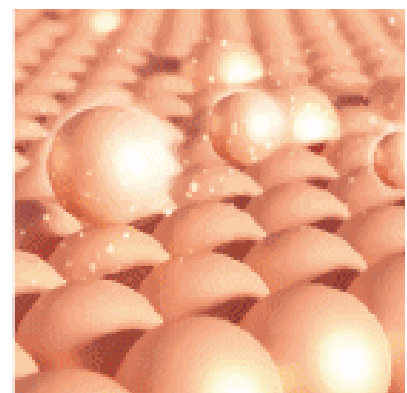
#### STEP 04

New cells are gathered around PLLA and increasing fibroblast.



#### STEP 05

Increased fibroblasts stimulate collagen generation and improve skin folds.



#### STEP 06

Generated collagen lasts for 2 years and Rejubeau Stylish Le Ciel Rosy particles are biodegraded.

# Superior Collagen stimulator PLLA

showed that PLLA MS has the most obvious effect on stimulating collagen regeneration, and it is indeed suitable for usage as dermal filler in comparison with the other two chiralities.

At the same time, to verify whether the microspheres with different particle sizes have any difference in collagen regeneration, we injected three chiral PLA microspheres with different particle sizes into the skin of guinea pigs in the same way. The particle sizes were 5 μm, 10 μm and 20 μm, respectively. It can be seen from Figs. S12-S13 (Supporting information), even though the particle size of microspheres is different, collagen regeneration in the PLLA MS group is still the best, and there is no significant difference between the different particle sizes of the same material. The results proved that particle size did not make a difference to the ability to stimulate collagen regeneration.

In summary, chiral injectable PLA microspheres with different particle sizes were prepared to verify the functions of dermal filler. After intradermal injection of these microspheres in guinea pigs, we found that PLLA MS groups showed less inflammation in the skin compared with PDLA MS and PDLLA MS groups, which could prove that PLLA MS has better biocompatibility than PDLA MS and PDLLA MS. Additionally, Masson staining and picrosirius red staining revealed that PLLA MS conducted the strongest

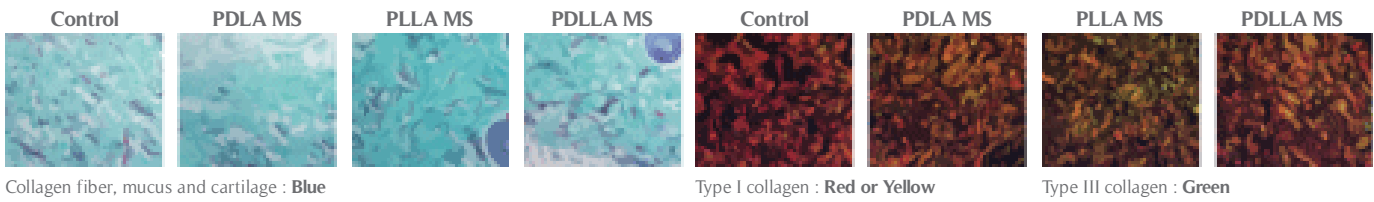
stimulation toward the regeneration of collagen fibers in the skin, which is an important factor as a filler. Meanwhile, the effect of different microspheres upon skin collagen regeneration was also significant. Therefore, compared with PDLA MS and PDLLA MS, PLLA MS is a skin filling material with lower cost, lower side reaction, better filling effect and excellent collagen stimulating effect. Furthermore, PLLA MS can contain collagen and other substances that are beneficial to skin repair and collagen regeneration, which can be released slowly through PLLA degradation to achieve better cosmetic effect. In brief, PLLA MS is a valuable and superior dermal filler.

**Declaration of competing interest**  
The authors declare no competing financial interest.

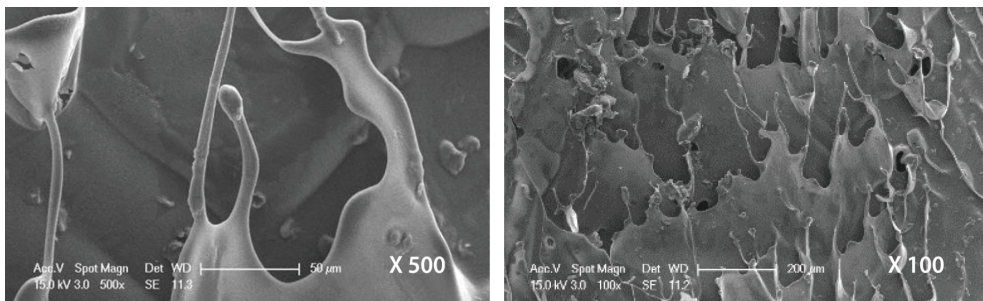
**Acknowledgments**  
This research was financially supported by the National Natural Science Foundation of China (Nos. 51703012 and 51603204) and the Science and Technology Development Program of Jilin Province (No. 20190701030AC0).

Therefore, **compared with PDLA MS and PDLLA MS, PLLA MS** is a skin filling material with lower cost, lower side reaction, better filling effect and excellent collagen stimulating effect. Furthermore, PLLA MS can contain collagen and other substances that are beneficial to skin repair and collagen regeneration, which can be released slowly through PLLA degradation to achieve better cosmetic effect

**In brief, PLLA MS is a valuable and superior dermal filler.**



Histological analysis of collagen regeneration (A) Masson staining and (B) Picrosirius red staining of the skin at the injection site of three kinds of PLA microsphere on Day 30. Type I collagen fibers are red or yellow, type III collagen fibers are green



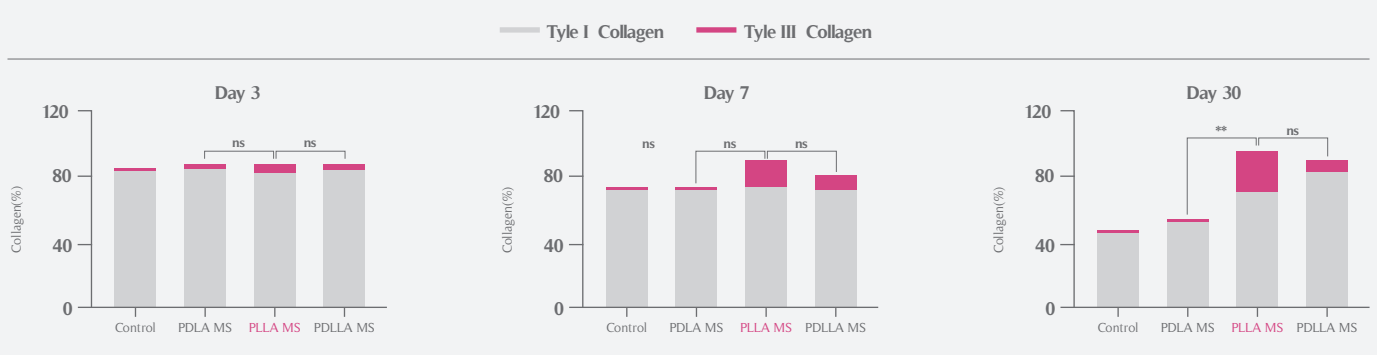
**[Reference]**  
5) Chinese Chemical Letters 32 (2021)577-582

inflammatory response shortly after the injection, while the inflammation was decreased or disappeared on Day 7 or Day 30 (Figs. S6 and S7 in Supporting information). Nevertheless, due to the rapid degradation rate of PDLLA MS, a large number of PDLLA MS were degraded and absorbed in the skin tissue on Day 30, which could not guarantee the long-term effect. And PDLA MS was easy to cause redness and swelling due to the strong inflammation after injection, the strong inflammation was not conducive to recover which was a major disadvantage of PDLA as a filler.

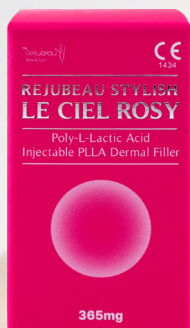
Collagen fibers are the most widely distributed fiber in connective tissue. In order to evaluate the effect of chiral PLA microspheres on collagen regeneration, collagen in the sections were observed under the optical microscope. Masson staining is an authoritative and classic technique for the staining of collagen fiber. It is frequently used in the analysis of collagen and smooth muscle. Collagen fiber, mucus, and cartilage were stained blue, and cytoplasm, muscle, cellulose, and glia were stained red. Nucleus was stained blue purple [25]. By using picrosirius red staining, different types of collagen fibers can be distinguished according to their specific forms and distinct colors under polarized light. For example, type I collagen fibers are densely arranged showing red and yellow colors, while type III collagen fibers exhibits threadlike structure in green color [26]. As shown in Figs. S8 and S9

(Supporting information), on three days and seven days after injection of microsphere, the collagen fibers were arranged neatly and densely, with no significant difference among the three groups. However, on Day 30, the collagen fibers in the control group were messy and sparse, and the collagen loss was very serious. On the contrary, the collagen fibers in the PLLA MS group still remained normal arrangement. Meanwhile, the collagen density of PDLA MS and PDLLA MS group was significantly sparse than that of PLLA MS group. Nevertheless, the results of PLLA MS group stimulation of collagen regeneration were better than that in PDLA MS group (Fig. 4A). Similar results were shown in optical photo of tissue sections stained with picrosirius red. Three days after injection, a large amount of type I collagen fibers (red and yellow) were observed in all the groups (Fig. S10 in Supporting information). On Day 7, collagen fibers turned darker and sparse. Specifically, type III collagen fiber was generated in PLLA MS group which was showing green in Fig. S11 (Supporting information). This difference was enlarged on Day 30, when new collagens were still mainly mainly shown in PLLA MS and PDLA MS groups (Fig. 4B). The content of type I collagen in the PLLA group was still 84.7%, and type III collagen was 15.1%. Total of type I and type III collagen were 1.4 times than the collagen in the PDLA group, and 1.1 times than the collagen in the PDLLA group (Fig. 4C). Which

The content of type I collagen in the PLLA group was still 84.7%, and type III collagen was 15.1%. Total of type I and type III collagen were 1.4 times than the collagen in the PDLA group, and 1.1 times than the collagen in the PDLLA group (Fig. 4C). Which showed that **PLLA MS has the most obvious effect on stimulating collagen regeneration, and it is indeed suitable for usage as dermal filler in comparison with the other two types of chirality**



Semi-quantitative analyses of type I and type III collagen fibers. Data are presented as mean A: standard deviation (n=; \*P<0.05, \*\*p<0.01, \*\*\*p<0.001, ns; not significant)



# REJUBEAU STYLISH LE CIEL ROSY

Safe, Natural, Long lasting, &  
Gorgeous Effectiveness

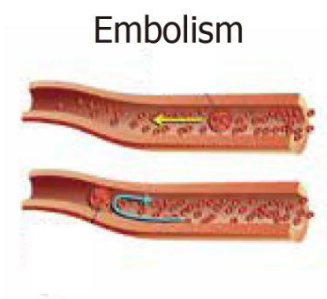
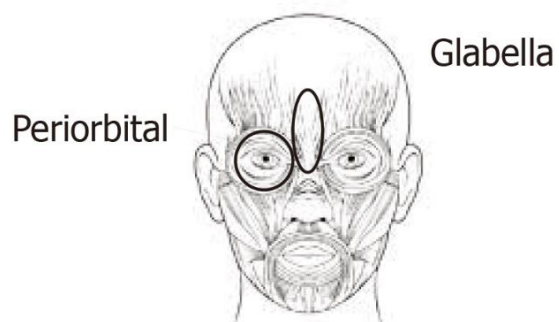
# Rejubeau Stylish Le Ciel Rosy treatment area and volume

※ Volume can be flexible according to patient's condition



## Cautions

- Avoid unintentional vessel injections.

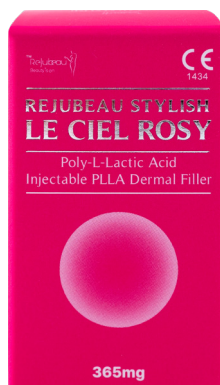


- Do not overcorrect with product during an injection session.  
Treatment should be Gradual correction

# Rejubeau Stylish Le Ciel Rosy Treatment Reference



## Protocol



8 ml of diluted Rejubeau Stylish Le Ciel Rosy PLLA solution  
= 1 vial of Rejubeau Stylish Le Ciel Rosy + 7mL of Saline water + 1 mL of Lidocaine  
= 3 ml x 2 syringes & 2 ml x 1 syringe with 21 ~ 23G blunt cannula needle 5cm  
Upper, Mid, & Lower Face  
Each part max of 1 syringe (=1/3 Vial)

※ It is important to wait for the progressive effect to take place over an interval or at least 4 weeks for Rejubeau Stylish Le Ciel Rosy.  
; In clinical practice, patients are typically evaluated at 4~6 weeks.



# Preparation for Rejubeau Stylish Le Ciel Rosy treatment



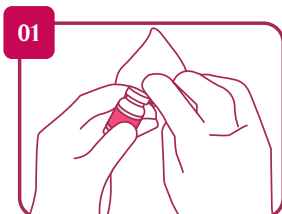
## ⊙ Check out point

- Expired date of the vial & Damage on the cap
- Before using this product, doctors should fully understand this instruction guide
- All the suspension procedures of this product should be done under the aseptic condition in the environment free microorganism contamination.

## ⊙ Preparation material

Sterilized saline water, 2% Lidocaine, 18G needle, 21~23G blunt cannula, disposable 5ml syringe, alcohol cotton, gauze, & gloves

## ⊙ How to prepare before treatment



Remove the cap from the vial and clean with alcohol cotton.



Connect 18G needle to disposable 5ml syringe. Take 7ml of sterilized saline water with syringe and add into the vial. At this time pierce the rubber cap with needle.



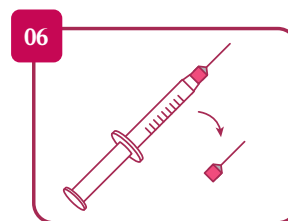
To dilute enough the powder, let the vial for minimum 12 hours. Do not shake the vial. And this diluted solution should be used within 72 hours.



When the patient be ready, lightly swing the vial and the solution can be mixed as a translucent suspension

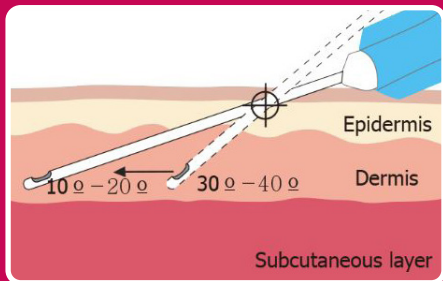


Just before the treatment clean the rubber cap of Rejubeau Stylish Le Ciel Rosy. Add 1ml of Lidocaine and fill the diluted solution with 18G needle with 5ml syringe. Do not store the solution in the syringe.

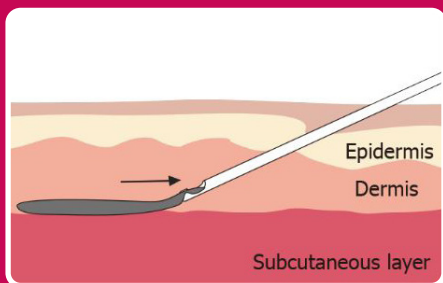


Before treatment change the 18G needle to 21~23G blunt cannula. Inject to deep dermis and subcutaneous layer.

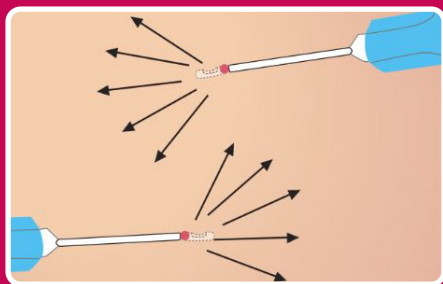
# Injection Technique for Rejubeau Stylish Le Ciel Rosy treatment



When the needle tip is in the deep dermal plane, the needle angle should be lowered to 10~20 degrees and the needle should be advanced in the deep dermal plane parallel to the surface of the skin



Inject Rejubeau Stylish Le Ciel Rosy parallel to the skin fold.



Start the first injection on at the base of the point, additional injections should be radial to the first injection. Picture above shows a radial pattern after completing the last injection.

## Injection TIP

- Do not inject smaller than 23G needle.
- During the treatment, frequently agitate the solution keep the homogeneous suspension.
- During the treatment, massage in a circular fashion after 3~4 injections to evenly distribute the Solution.
- Before the treatment, expel a few drop of Rejubeau Stylish Le Ciel Rosy to check the needle is blocked and to remove the air.
- During the treatment, if clogging occurs, please change the needle.

# Injection Technique for Rejubeau Stylish Le Ciel Rosy treatment

## © Technique

- a. Before Rejubeau Stylish Le Ciel Rosy treatment, always perform a reflux maneuver to avoid intravascular injection. If blood returns to the syringe, the needle is in a blood vessel and should be withdrawn. And a new syringe should be prepared.
- b. Base on the treatment plan, start the first injection at the base of the nasolabial fold. After completing the length with injections parallel to the nasolabial fold. The radial pattern is achieved with additional injections perpendicular to the first session.

## © Volume per injection

The maximum volume of Rejubeau Stylish Le Ciel Rosy per individual injection should be limited to 0.1ml~0.2ml, spaced at a distance of 0.5~1cm.

Avoid overcorrection.

## Post-treatment care

- a. Immediately after Rejubeau Stylish Le Ciel Rosy treatment redness, swelling, and bruising may occur in the treatment area.
- b. To help Rejubeau Stylish Le Ciel Rosy distribute every in the contour deficiency, it is very important at the end of the treatment session to manually massage in a circular fashion the treatment area for a minimum of 2 minutes.
- c. To reduce the risk of edema or bruising after treatment, an ice pack in applied to the treated area. (Avoid any direct contact of the ice with the skin)
- d. Treatment make-up may be applied a few hours post-treatment if no complications are present.
- e. Avoid from exposure of the treated area to sun and UV until any initial swelling and red- ness has resolved. Physician should advise to patients about appropriate sunscreen protection.



# Natural & Gorgeous Volume and Longevity

Gorgeous Volume with Natural Collagen Stimulation

