

HYALUOL
— SCIENCE & RESULTS —

REDERMALIZATION

Proven improvement of skin quality by
increasing its regenerative potential



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Proven improvement of skin quality by increasing its regenerative potential

UNLIKE OTHER REJUVENATION PROCEDURES redermalization works at 3 different levels

1

Help in regulation of biochemical processes in cells

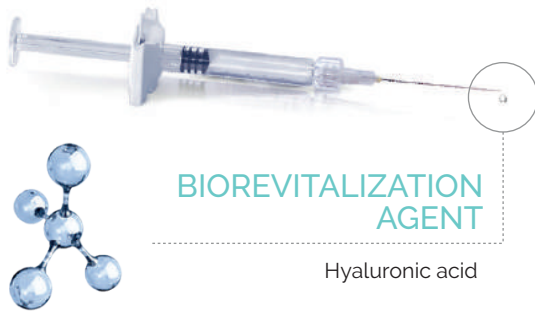
2

Restoration of water balance

3

Contributes in active blocking of free radicals

This triple effect is achieved by using of Double Synergic Effect technology: a synergistic effect resulting from two components in the product - high molecular weight hyaluronic acid and succinic acid (in the form of sodium succinate). This is the main advantage of the Redermalization procedure



VS



Hyaluronic acid

is a **natural material** that is contained in neuronal, connective and epithelial tissues

- Helps to activate antiinflammatory mediators
- Restores and maintains water balance
- Contributes to the synthesis of basic structural proteins
- Provides mechanical support for tissues

Preparations based on high molecular weight hyaluronic acid are used for the Redermalization procedure. Due to its properties, it provides a much longer-lasting effect on improving skin quality

Succinic acid

(succinate) is a natural component, which is found in all cells in the body

- Helps to normalize microcirculation, contributes to lymphatic drainage
- Helps to regulate cellular energy exchange
- Has antioxidant properties
- Helps to prevent damage of the cell membrane
- Contributes to the synthesis of basic structural proteins

Succinic acid has been found an important component which has provided a **breakthrough in improving skin quality**

Science & Results



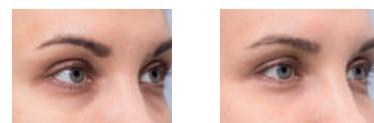
Hyalual Light Xela Rederm 1.1%

HA 1.1 mg/ml
SA 1.6 mg/ml

1/2 ml

Improves skin quality without swelling, even in patients with impaired lymph drainage

- Reduces edematous component and promotes lymphatic drainage
- Improves microcirculation
- Detoxifies tissue
- Lightens skin by 1-2 tones
- Reduces under eye circles
- Eliminates signs of fatigue



Polina, 28 years old

Indications: dark circles under the eyes
Procedure & products used: Three treatments with Hyalual Light Redermalization 10 days apart



Hyalual Smart Xela Rederm 1.8%

HA 1.8 mg/ml
SA 1.6 mg/ml

1/2 ml

Is an optimal ratio for intensive hydration with a minimum load on the lymphatic drainage system

- Restores dermal water balance
- Firms by restoring collagen structure
- Reduces pigmentation and lightens skin
- Flattens skin's microrelief
- Promotes skin radiance



Julia, 33 years old

Indications: wrinkles, skin elasticity
Procedure & products used: Three treatments with Hyalual Smart Redermalization 10 days apart



Hyalual Booster Xela Rederm 2.2%

HA 2.2 mg/ml
SA 1.6 mg/ml

1/2 ml

Provides superior hydration for maximum effect. It is intended for specific anatomical zones and morphotypes

- Improves skin quality by firming the dermis
- Improves lip contour
- Restores water balance within the dermis



Catherine, 25 years old

Indications: post acne
Procedure & products used: Three treatments with Hyalual Booster Redermalization 10 days apart

**Results may vary. Unretouched photos were taken before and after the course of procedures*

PROCEDURE PROTOCOL



REDERMALIZATION



Hyalual Light / Xela Rederm 1.1%



Hyalual Smart / Xela Rederm 1.8%



Hyalual Booster / Xela Rederm 2.2%



POST-TREATMENT CARE IN THE OFFICE



PROFI DELUX

Apply 3 coats of spray for post-treatment care 150 ml



SAFE SUN

Sunscreener Spf 50 150 ml



PRESCRIPTION OF POST-TREATMENT CARE AT HOME



PROFI DELUX

Spray for post-treatment care 3 coats every 3 hours, for 3 days 50 ml



SAFE SUN

Sunscreen daily in morning, for 5-7 days Spf 50 150 ml

REDERMALIZATION FOR MORPHOTYPES

Procedure I 2 weeks Procedure II 2 weeks Procedure III

	Procedure I 2 weeks	Procedure II 2 weeks	Procedure III
TIRED FACE*	HYALUAL Light / XELA REDERM 1,1% Papular, lymph drainage ✓	HYALUAL Light / XELA REDERM 1,1% или HYALUAL Smart / XELA REDERM 1,8% Papular ✓	HYALUAL Booster / XELA REDERM 2,2% Linear ✓✓
DEFORMATIVE*	HYALUAL Light / XELA REDERM 1,1% Papular, lymph drainage ✓	HYALUAL Light / XELA REDERM 1,1% Papular, lymph drainage ✓	HYALUAL Smart / XELA REDERM 1,8% или HYALUAL Booster / XELA REDERM 2,2% Linear ✓
WRINKLING*	HYALUAL Smart / XELA REDERM 1,8% Papular, linear ✓	HYALUAL Smart / XELA REDERM 1,8% или HYALUAL Booster / XELA REDERM 2,2% Papular, linear ✓✓	HYALUAL Smart / XELA REDERM 1,8% или HYALUAL Booster / XELA REDERM 2,2% Linear ✓✓
MUSCULAR*	HYALUAL Light / XELA REDERM 1,1% Papular, lymph drainage ✓	HYALUAL Smart / XELA REDERM 1,8% Papular, linear ✓✓	HYALUAL Booster / XELA REDERM 2,2% Linear ✓✓

Designation:



- Needle



- Cannula

STEP №1

CORRECTLY DETERMINE THE TYPE OF SKIN AGING USING KOLGUNENKO'S MORPHOTYPES

MORPHOTYPE*	TIRED FACE*	WRINKLING*	DEFORMATIVE*	MUSCULAR*
Outward appearance/ symptoms	The face looks refreshed upon waking, but by night the skin becomes drawn and tired looking with a "sad" appearance. Dark bags under the eyes, deepening of lacrimonasal and nasolabial folds, and drooping at the corners of the mouth are visible. The complexion appears gray and dull with an uneven skin tone and areas of hyperpigmentation. Facial contours appear to lose volume.	The muscular framework of the face and subcutaneous fat are weakly expressed. Facial skin hydration decreases, leaving the complexion with a "dried out" look. A network of fine wrinkles form, giving the skin a crepey appearance. This is made worse by a dehydrated, uneven complexion. The main areas of concern are the crow's feet around the outer eye corners, horizontal wrinkles on the forehead, deep nasolabial folds, and vertical lines near the lip.	The face looks tired and drained due to soft tissue laxity. Bags under the eyes are typical, as are drooping upper lids, buccula (double chin), sagging jowls, deflated cheeks, sharp nasolabial furrows, and thickening of the nose's alar. It is often accompanied by reddening of the cheeks due to rosacea and/or hyperpigmentation.	Deep, static forehead wrinkles, vertical furrows between the brows, pronounced nasolabial folds, alar thickening, and gaunt cheekbones are all typical. The face does not droop downward, and subcutaneous fat is almost absent. Uneven pigmentation and dryness are often present. Facial structure remains almost unchanged.
Leading pathogenesis mechanisms	Age-related lymphatic changes, along with a decrease in circulation, low muscle tone, and skin elasticity are known causes.	Leading causes include skin dehydration, the destruction of the collagen framework within the dermis, and low muscle tone in the face.	The weakened soft tissues droop, pulling the skin downward along with it. The muscle frame ceases to support subcutaneous tissue. A large amount of subcutaneous fat retains fluid and contributes to the development of edema (swelling). A reduction in the quantity and quality of collagen and elastin fibers means there is no longer a framework to support the skin.	The facial musculature appears prominent since the skin lacks adequate volume from subcutaneous fatty tissue. Due to the active clonus of the facial muscles and loss of fat pads under the skin, deep creases and folds begin to form.
Focus of therapy	The goal of treatment is to reduce the appearance of superficial epidermal wrinkles by boosting microcirculation, lightening the skin, and improving the tone of facial muscles.	Treatment focuses on restoring skin's water balance and strengthening facial muscles to improve skin quality.	Therapy aims to promote microcirculation and lymphatic drainage to reduce edema, and to stimulate collagen and elastin production.	The goal is to encourage microcirculation and increase hyaluronic acid levels to restore volume where fat pads in the face once were.

STEP №2

TO PREPARE SKIN FOR THE PROCEDURE

PRODUCT	APPLICATION TECHNIQUE	ACTION
Anesthetic	Cover the product on various parts of the skin surface, then gradually spread it over the entire area that was treated for redermalization.	Anesthetizes skin in preparation for treatment.
Profi Delux	Five minutes later, apply Profi Delux spray at a distance of 25-30 cm from the skin surface for a duration of three seconds. Shake well before using. Apply three layers.	Replaces the need for occlusal film. Speeds the anesthetic's onset of action.

STEP №3

ADMINISTER THE RECOMMENDED COURSE FOR REDERMALIZATION

MORPHOTYPE*	TIRED FACE*	WRINKLING*	DEFORMATIVE*	MUSCULAR*
Recommended quantity and frequency of procedures	3 procedures at a frequency of once every 2 weeks.	2-3 procedures at a frequency of once every 2 weeks.	3 procedures: Initial treatment, the second 2 weeks later, the third 3 weeks later.	2-3 procedures at a frequency of once every 2 weeks.
Procedure 1				
Product/ administration technique	Hyalual Light / Xela Rederm 1.1% - 2ml. Papular.	Hyalual Smart / Xela Rederm 1.8% - 2 ml. Papular, linear.	Hyalual Light / Xela Rederm 1.1% - 2 ml. Papular (lymph drainage).	Hyalual Light / Xela Rederm 1.1% - 2 ml. Papular.
Goal of procedure	Improve microcirculation, correct hyperpigmentation, and prevent the appearance of epidermal wrinkles.	Restore water balance in the dermis and initiate full-fledged collagen and elastin synthesis. The linear technique is the first stage of correction for dermal wrinkles.	Improve microcirculation and lymphatic drainage, reduce edema, and stimulate collagen and elastin production.	Contributes to recovery of the dermis.
Immediate results	Refreshed complexion and smoothed facial contours.	Restoration of skin nutrition, improved radiance, and a reduced quantity of superficial wrinkles.	Reduction of puffiness and dullness improved skin tone.	Glowing skin and reduction of superficial wrinkles and fine lines.
Postponed results	During the next month after treatment, dark circles and bags under the eyes become less visible, the complexion is restoring, and signs of fatigue and "sadness" reduce.	Following the next week skin is more moisturized, dryness is reduced and the depth and number of dermal wrinkles are reduced.	Soft tissue swelling is reduced with improved angiogenesis. Enhanced microcirculation and lymphatic drainage are present.	The skin is more moisturized, hyperpigmentation decreases, and skin elasticity increases.

*Kolgunenko I.I. Fundamentals of Gerontocosmetology, Moscow, Medicine: 1974, 224 p.

Procedure 2

Product/ administration technique	Hyalual Light / Xela Rederm 1.1% - 2 ml. Papular.	Hyalual Smart / Xela Rederm 1.8% - 2 ml - Papular. Hyalual Booster / Xela Rederm 2.2% - 2 ml. Linear.	Hyalual Light / Xela Rederm 1.1% - 2 ml. Papular.	Hyalual Smart / Xela Rederm 1.8% - 2 ml. Papular, cannulation.
Goal of procedure	Increase turgor (elasticity), flatten the skin's microrelief, and correct pigmentation.	Enhance skin's glow. The linear technique is the second stage for correcting dermal wrinkles.	Normalize lymph efflux and encourage microcirculation.	Promotion of dermal growth.
Immediate results	Revived complexion and preservation of facial contours.	Glowing complexion and reduction of superficial wrinkles.	Reduction of puffiness, an evened skin tone, and elimination of skin dullness.	Glowing skin and a reduction in superficial wrinkles.
Postponed results	Skin elasticity increases and lacrimonasal and nasolabial furrows appear smoother.	Skin radiance improves and wrinkles reduce.	The swelling in deeper soft tissues is reducing with improved angiogenesis, along with enhanced microcirculation and lymphatic drainage.	Reduction of overly-prominent facial muscle contours and reduced evidence of skin hyperpigmentation. The moisture balance within skin tissue improves, and fine wrinkles are reduced.

Procedure 3

Product/ administration technique	Hyalual Booster / Xela Rederm 2.2% - 2 ml. Linear, cannula.	Hyalual Smart / Xela Rederm 1.8% - 2 ml. Linear. Hyalual Booster / Xela Rederm 2.2% - 2 ml. Cannula.	Hyalual Smart / Xela Rederm 1.8% - 2 ml. Papular. Hyalual Booster / Xela Rederm 2.2% - 2 ml. Linear, along the vector lines (aproprietary technique of lifting).	Hyalual Booster / Xela Rederm 2.2% - 2 ml. Linear, cannula.
Goal of procedure	Reduce lacrimonasal and nasolabial furrows and improve skin texture.	Restore intermuscular volume and promote dermal growth.	Qualitative improvement of the skin structure due to the thickening of dermal fibers. The proprietary linear application technique reduces skin folds, resulting in a visible lifting effect due to normalized collagen and elastin production.	Reduce skin creases and provide a significant lifting effect by normalizing collagen and elastin production.
Immediate results	Reduction of lacrimonasal and nasolabial folds, along with improved contours of the middle and lower third of the face.	Deep hydration of the dermis, and lifting of the middle and lower third of the face.	Lifting at the "needle tip".	Lifting at the "needle tip".
Postponed results	Qualitative improvement in skin texture and color.	Full restoration of the skin's dermal layer and reduced hyperpigmentation.	On the 21-28th day, significant lifting develops due to increased collagen and elastin production within fibroblasts. Qualitative improvement in skin texture results due to thickening of fibrous structure in the skin's dermal layer. The lifting effect lasts 5-8 months.	Reduction of ptosis (drooping) and a decrease in the depth of nasolabial folds. Skin tone lightens. Dermal creases appear significantly smoothed.

STEP N°4

POST-INJECTION CARE

PRODUCT	APPLICATION TECHNIQUE	ACTION
Profi Delux Post-procedure spray	After the procedure is complete, spray at a distance of 25-30 cm away from the skin surface for three seconds. Shake well beforehand. Apply in three layers. Advise patient that the mild side effects of the spray (redness, skin irritation, dryness, and burning) are temporary.	Reduces recovery time. Allows the patient to quickly see the result of the procedure. Delivers a pleasant feeling of freshness on the patient's skin after treatment.
Safe Sun SPF 30, 50 Photo-ageing protection	Dot the product on various parts of the skin surface, then gradually spread it over the entire area that was treated for redermalization.	Derma-protector RE-DERM offers maximum skin protection against sun damage. Exceptional UVA and UVB protection guards against hyperpigmentation, making it especially useful for damaged skin. Preserves the integrity, structure, and function of the dermis. Performs double duty as a daily moisturizer.
Profi Delux Post-procedure spray	Five minutes after sunblock application, spray Profi Delux at a distance of 25-30 cm from the skin surface for three seconds, shaking well first.	Improves the onset of action for the cream.

STEP N°5

PRESCRIPTION FOR POST-INJECTION HOME CARE

PRODUCT	APPLICATION TECHNIQUE	ACTION
Profi Delux 50 ml Post-procedure spray	Apply three layers every three hours. Spray at a distance of 25-30 cm from the skin surface for three seconds, shaking well first.	Reduces recovery time. Allows the patient to quickly see the result of the procedure. Delivers a pleasant feeling of freshness on the patient's skin after treatment.
Safe Sun SPF 30, 50 Photo-ageing protector	Each morning, apply Safe Sun SPF 30 or 50 for protection against UVA and UVB rays.	Derma-protector RE-DERM offers maximum skin protection against sun damage. Exceptional UVA and UVB protection guards against hyperpigmentation, making it especially useful for damaged skin. Preserves the integrity, structure, and function of the dermis. Performs double duty as a daily moisturizer.

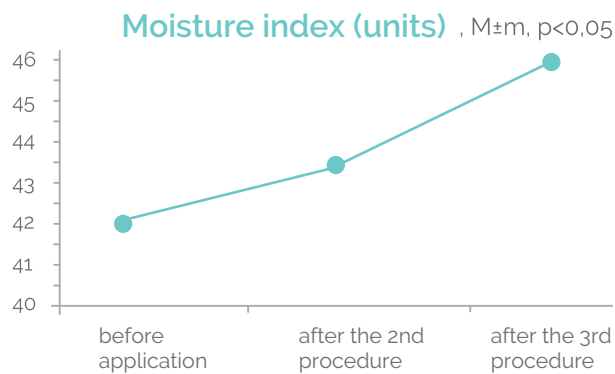
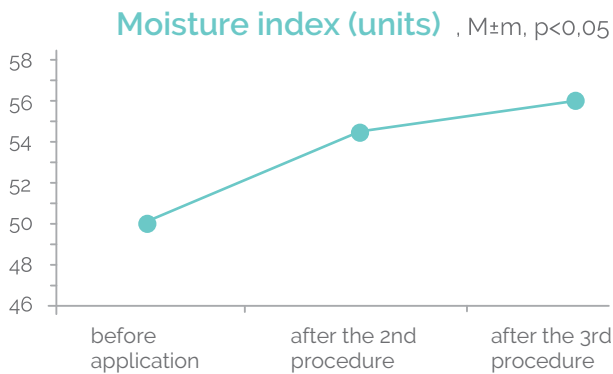
TARGET AREA: PERIORBITAL AREA



Technique: Papular
Products: Hyalual Light / Xela Rederm 1.1%, Hyalual Smart / Xela Rederm 1.8%
 Choice of therapy depends on severity of involutinal skin changes (atony, dryness, wrinkles)
 d=3-4 mm
Distance between papules: 0.7



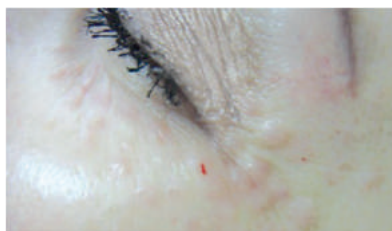
CLINICAL EFFECTIVENESS



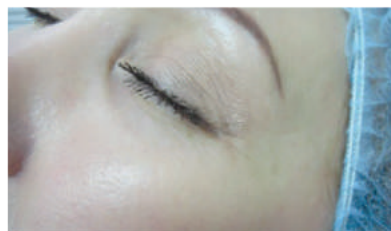
RESULTS



Before the procedure
 Pronounced wrinkles of the periorbital area, reduced turgor and skin hydration



Immediately after the procedure
 Improved skin quality, reduced severity of periorbital wrinkles



14 days after the 3rd procedure
 Significantly reduced severity of periorbital wrinkles, improved skin relief, turgor and texture

- Lifting effect
- Elimination of dark circles under the eyes
- Renewal of turgor tone and texture
- Improvement of skin relief and structure
- Improvement of skin color
- Reduction in number and depth of wrinkles

*Results based on post-clinical testing of hyaluronic acid injectibles bearing the Hyalual trademark (Yutskovsky's Professorial Clinic, Ltd., Moscow, 2012)

TARGET AREAS: NECK AND DÉCOLLETAGE



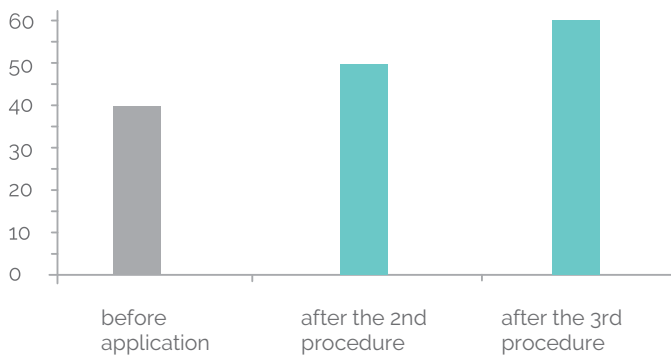
CLASSIC REDERMALIZATION

Technique: papular
 Products: Hyalual Light / Xela Rederm 1.1%, Hyalual Smart / Xela Rederm 1.8%
 Amount of product: 1-2 ml
 d=3-4 mm
 Distance between papules: 0.7-1 cm

COMBINED REDERMALIZATION

Products: Hyalual Light / Xela Rederm 1.1%
 Technique: Intrapapular in neck area
 Amount of product: 1-2 ml
 Products: Hyalual Smart / Xela Rederm 1.8%
 Technique: Reinforcement – linear retrograde in décolletage area
 Amount of product: 2 ml
 d=3-4 mm
 Distance between papules: 0.7-1 cm

CLINICAL EFFECTIVENESS



CORNEOMETRY RESULTS

Ultrasound skin scans, corneometry, and profilometry tests confirmed the high efficacy of the procedures. After the second procedure, product distribution at the injection sites showed a moderate increase in dermal thickness and echodensity. Two weeks after the third injection, the injected product was no longer visible in the dermis. There was a marked increase in dermal thickness and echodensity with uniform distribution of the echo signal and a linear, compact fiber arrangement.

RESULTS



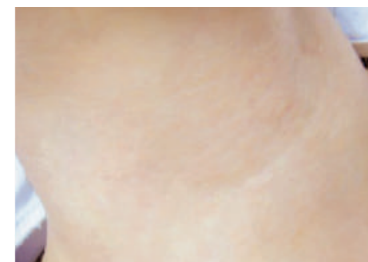
Before the procedure

Irregular skin relief, visible loss of hydration, moderate hyperkeratosis



Immediately after the procedure

Reduced signs of hyperkeratosis, improved turgor and skin hydration



14 days after the 3rd procedure

Significantly improved turgor and skin hydration, improved vascular structures of the skin

- Skin hydration
- Lifting effect
- Increase in tonicity and elasticity
- Lightening of pigmented spots
- Improvement of skin structure
- Reduction in number and depth of wrinkles

*Results based on post-clinical testing of hyaluronic acid injectibles bearing the Hyalual trademark (Yutskovsky's Professorial Clinic, Ltd., Moscow, 2012)

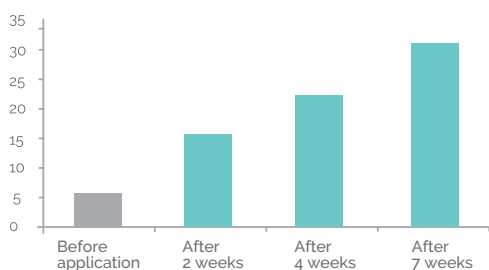
TARGET AREA: HANDS



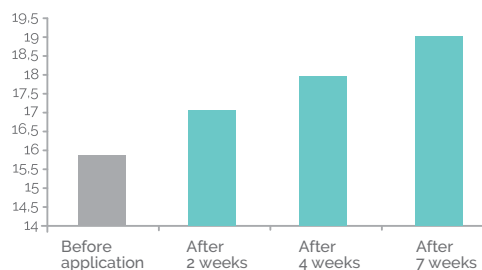
CLASSIC REDERMALIZATION	COMBINED REDERMALIZATION	REDERMALIZATION USING VECTOR TECHNIQUE
<p>Technique: Papular, micropapular Products: Hyalual Light / Xela Rederm 1.1% (<35 years old), Hyalual Smart / Xela Rederm 1.8% (25-45 years old) d=3-4 mm Distance between papules: 0.5-1 cm Amount of product: 2 ml</p>	<p>Technique: papular, vector Cannula: Hyalual 25 G Products: Hyalual Smart/ Xela Rederm 1.8% Technique: Macropapular Distance between papules: 0.5 cm Amount of product: 2 ml Products: Hyalual Booster/ Xela Rederm 2.2% Technique: Vector, using same point of puncture Amount of product: 2 ml</p>	<p>Technique: Vector, using same point of puncture Cannula: Hyalual 25 G Products: Hyalual Booster / Xela Rederm 2.2% Amount of product: 2 ml</p>

CLINICAL EFFECTIVENESS

Under the effect of a course of the classical redermatization procedure with injection of Hyalual 2.2%, the hydrometry index increased fourfold compared to the baseline



After the course of classical redermatization with Hyalual 2.2%, the elastometry index of the skin of the hands increased by 20.3% compared to the baseline



RESULTS



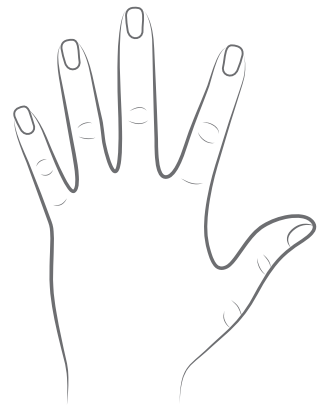
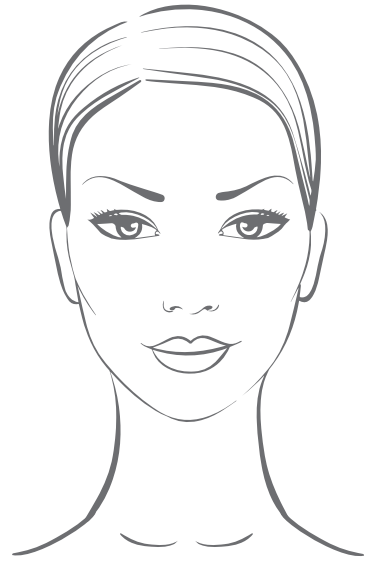
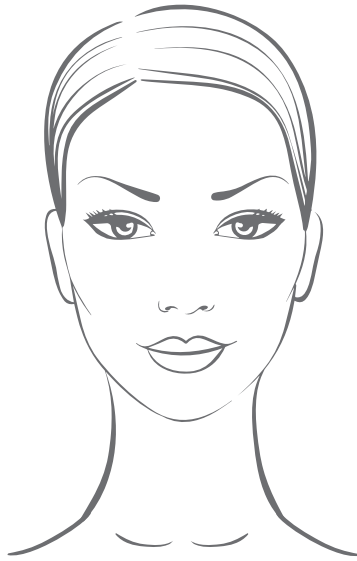
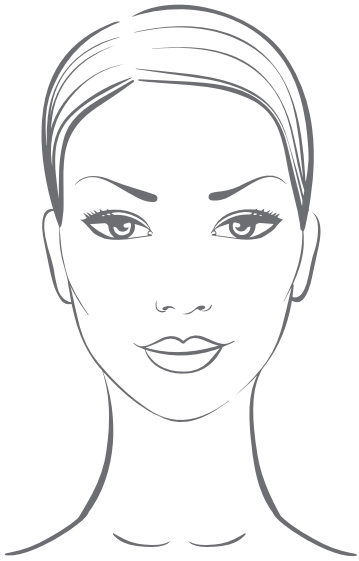
Before application

After 2 weeks

After 4 weeks

After 7 weeks

- Moisturizing effect
- Improvement of texture and relief alignment
- Increase in skin tone
- Lightening of pigmented spots



A series of horizontal dotted lines for taking notes.