

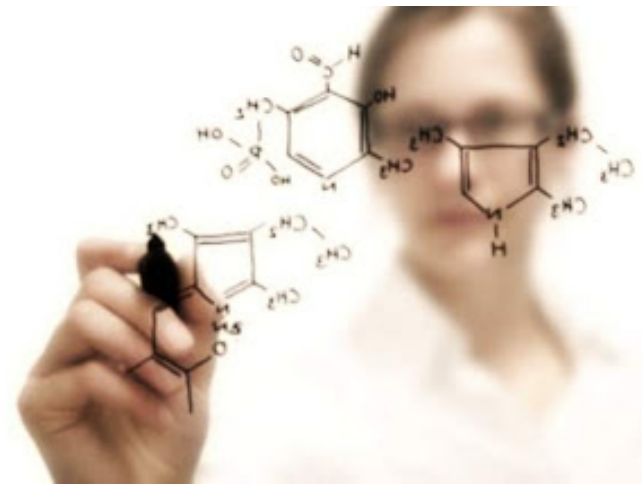
# BEAUTYFILL

**K**-surgery



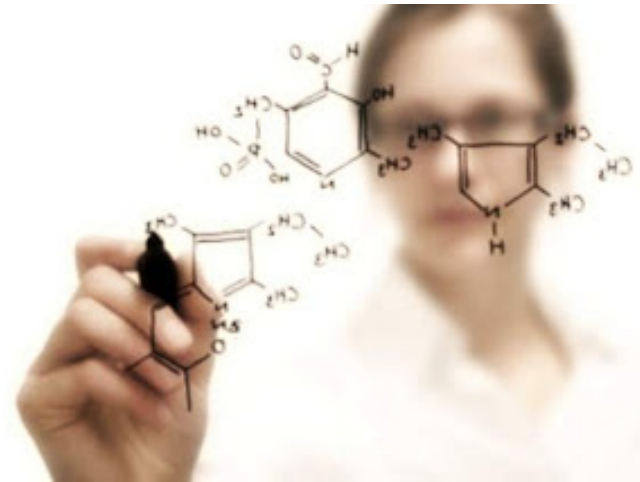
## HA FUNCTIONS IN THE SKIN:

- ◆ structural component of the extracellular matrix
- ◆ stimulation of the collagen-, elastin- and endogenic hyaluronic acid synthesis
- ◆ regulating the diffusion of water, electrolytes, nutrients and refuses
- ◆ space filler
- ◆ high capacity of waterbinding

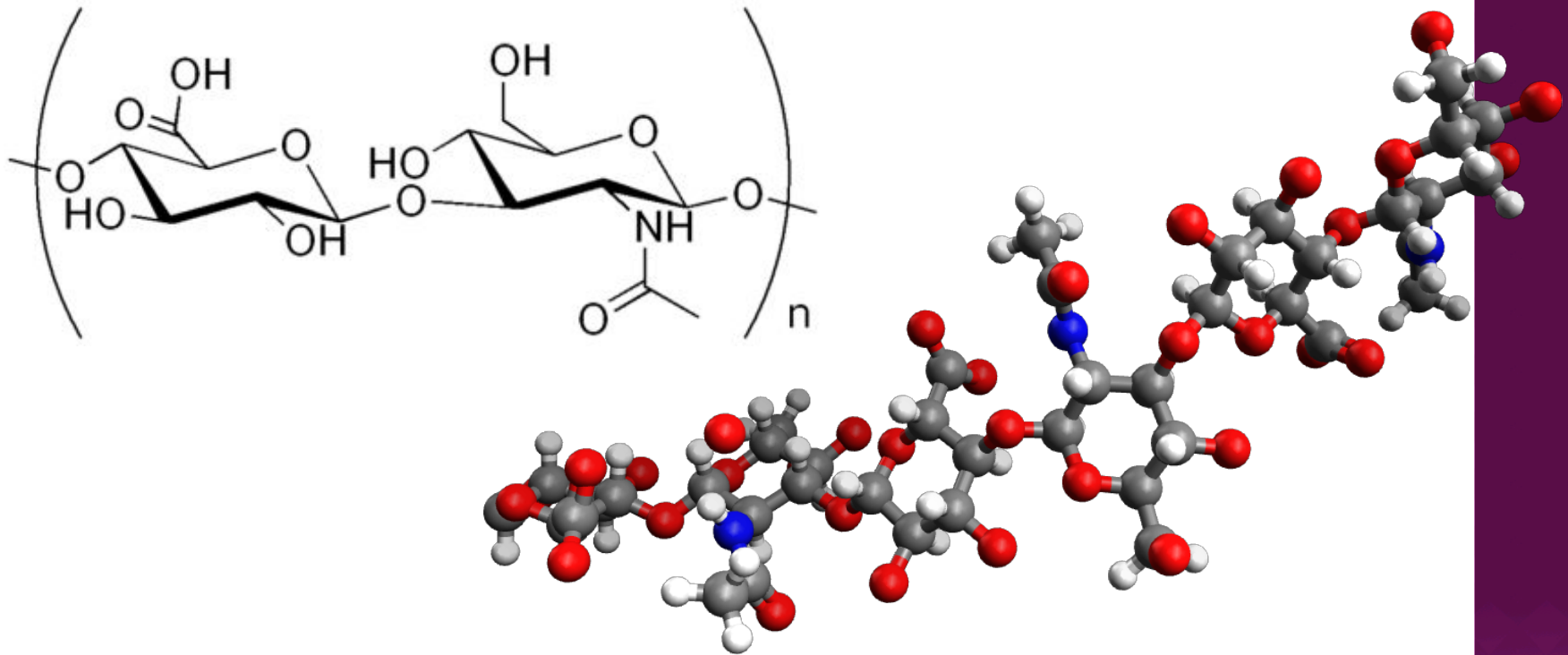


METABOLISM; decreasing of hyaluronic acid in the skin:

- Oxydation via hydroxylation of the glucuronic acid-containing molecular chains
- Enzymatically through hyaluronidase



## Chemical Structure of Hyaluronic acid



Hyaluronic acid is a polysaccharide built of sugar molecules:  
D-GLUCURONIC ACID and N-ACETYL-D-GLUCOSAMINE



### Crosslinked „stabilized“ hyaluronic acid:

- Chemical modification of the molecule
- Crosslinking has to take place at the OH-groups to secure the enzymatical degradation
- Carboxylate and acetamido groups stay stabil

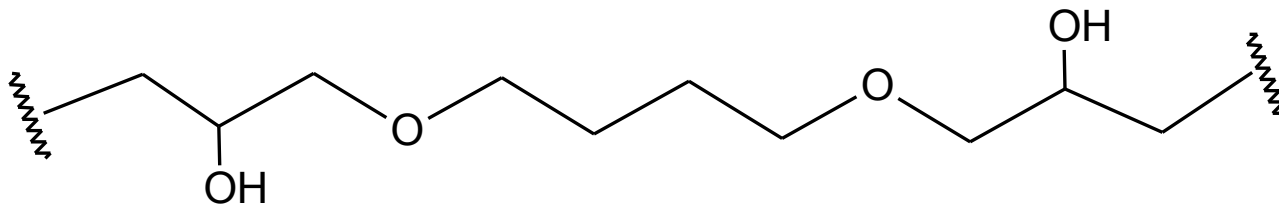
## Crosslinkage of Hyaluronic acid

### Purpose of crosslinkage: STABILIZATION

To retard the biodegradation to obtain longer duration in the skin.

Worldwide only two substances for crosslinkage are used:

**BDDE**



**MW 202**

## WRINKLE CLASSIFICATION (ACCORDING TO THERAPEUTIC APPROACHES):

1. MIMIC LINES
2. ELASTOSIS LINES
3. GRAVITY LINES
4. MIXED LINES

# MIMICAL LINES



# MIMICAL LINES

Frequently found even in young patients (25 years and older)

- Glabella, forehead, crow's feet
- (perioral lines)
- (nasolabial folds)
- Sunken labial angles

If they remain in the long term: „wrinkle scars “

# WRINKLE SCAR



# ELASTOSIS LINES





# ELASTOSIS LINES

- ☞ Cheek lines
- ☞ Sleep lines
- ☞ Nasolabial folds
- ☞ Throat lines
- ☞ Décolleté lines
- ☞ Perioral lines
- ☞ Sunken labial angles
- ☞ Causes: age, UV exposition, nicotine, genetic predisposition

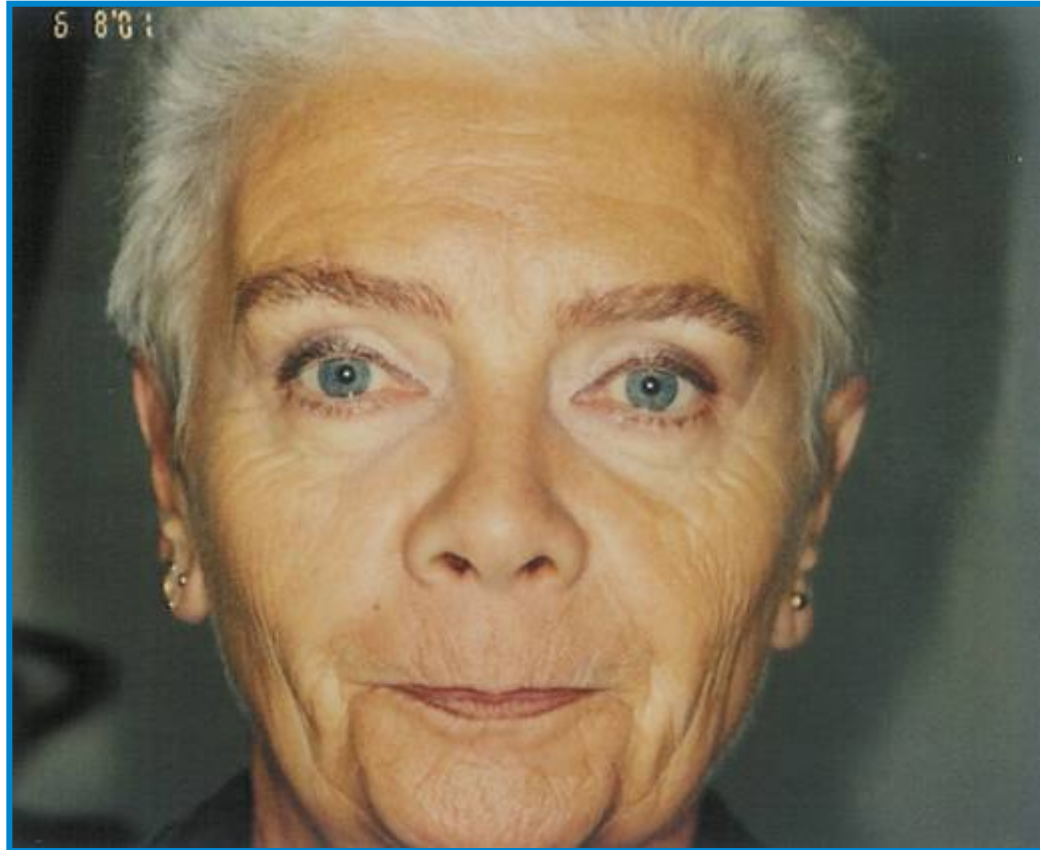
## MIXED LINES



## MIXED LINES

- ☞ **Nasolabial folds**
- ☞ **Sunken labial angles**
- ☞ **Perioral lines**

# GRAVITY LINES



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## WHY CHOOSE BEAUTYFILL?



This product is the result of Italian research : it has been conceived, developed and manufactured entirely in Italy.



It is highly tolerated, with virtually no endotoxins or other free toxic substances.



It has a higher concentration of cross-linked Hyaluronic Acid than other fillers on the market.



Its effects are immediately visible after the first application.



It lasts 3 to 5 months, as part of constant maintenance programme.



Its application is simple and effective.

# BEAUTYFILL'S BIOTECHNOLOGICAL REVOLUTION

## INNOVATIVE MANUFACTURING PROCESS

CE-certified manufacturing process is in progress, we expect to get it in 2018.

The sterility of the BEAUTYFILL filler is assured by terminal sterilisation by heating and the manufacturing process is performed in special microbiologically controlled cleanroom.

This provides more stability, preserves the active ingredient's chemical and physical features, and guarantees long-lasting effects of the treatment over time.

## HIGHLY SELECTED RAW MATERIALS

The HA selected by BEAUTYFILL is derived using a patented method based on the biofermentation of a bacterial strain that is non-pathogenic to human beings.

## SAFETY GUARANTEE

Its high purity and very low concentration of nucleic acids and proteins, as well as a bacterial endotoxin level of < 0.250 EU/ml (markedly lower than the limits set by the European Pharmacopeia for injectable products) provides maximum reduction of hypersensitivity reactions.

In addition, thanks to the cross-linked agent which is used, BEAUTYFILL's toxicity levels are much lower than other fillers using other cross-linked agents.



## PROTOCOL FOR USE

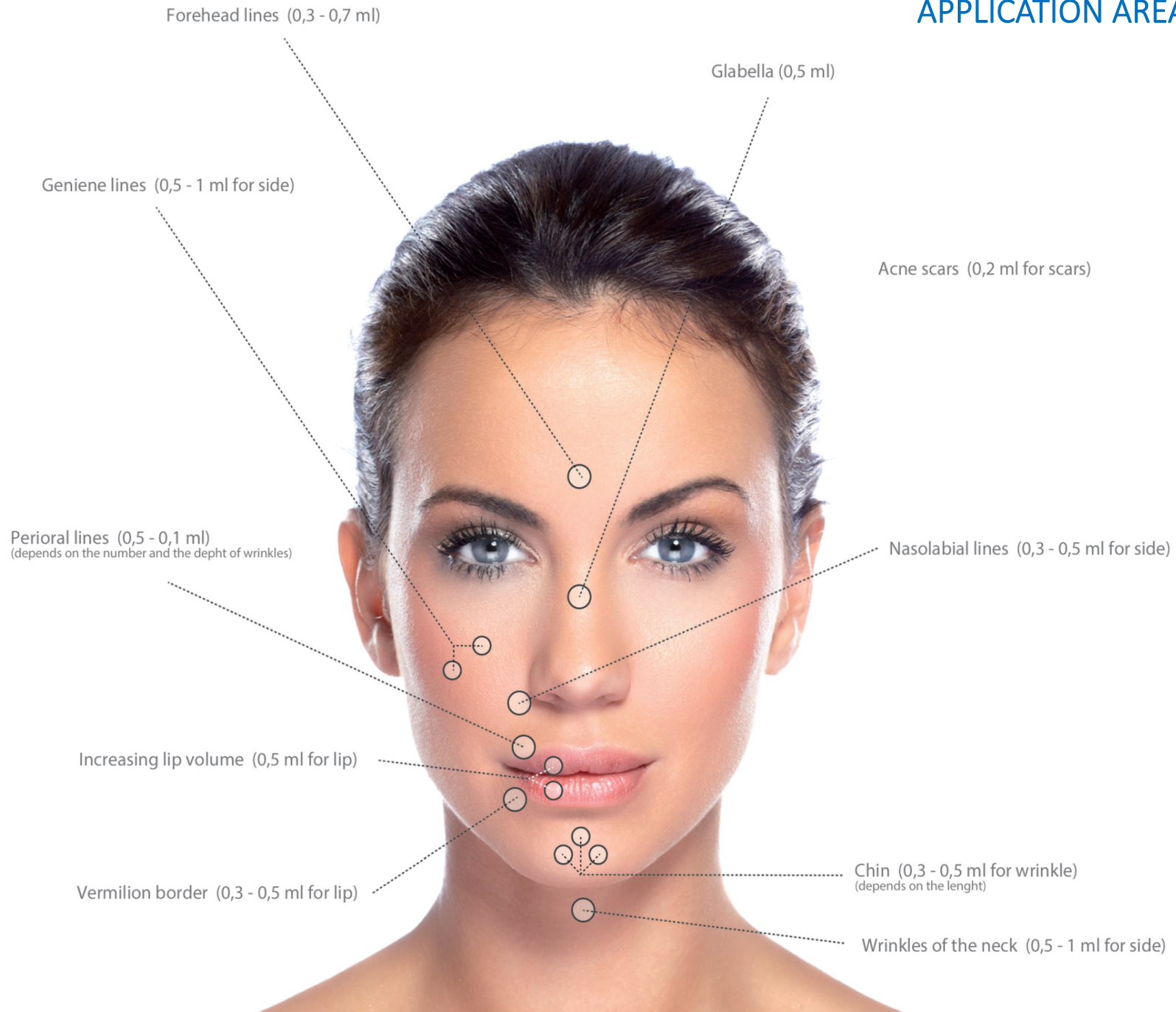
INJECTION TECHNIQUE :  
RETROGRADE LINEAR TECHNIQUE

FREQUENCY OF SESSIONS:  
EVERY 5/6 MONTHS

FEATURES	BEAUTYFILL STRONG
CONCENTRATION	26 mg/ml
PH	6,50 – 7,50
INTRINSIC VISCOSITY	1.8 m3/kg
TOTAL NO. OF ENDOTOXIN	< 0.250 EU/ml
DIRECTIONS FOR USE	Very deep wrinkles, enhancing lip volume, and remodelling of facial features.
INJECTION AREAS	Deep or supraperiosteal hypodermis
CROSS-LINKING AGENT	BDDE
AMOUNT IN EACH PACK	2 x 1 ml
ESTIMATED DURATION OF RESULTS	5-8 months
NEEDLE	27 G
STERILISATION	STERILE
CONSERVATION	5°-25° C



## APPLICATION AREAS



## PROTOCOL FOR USE

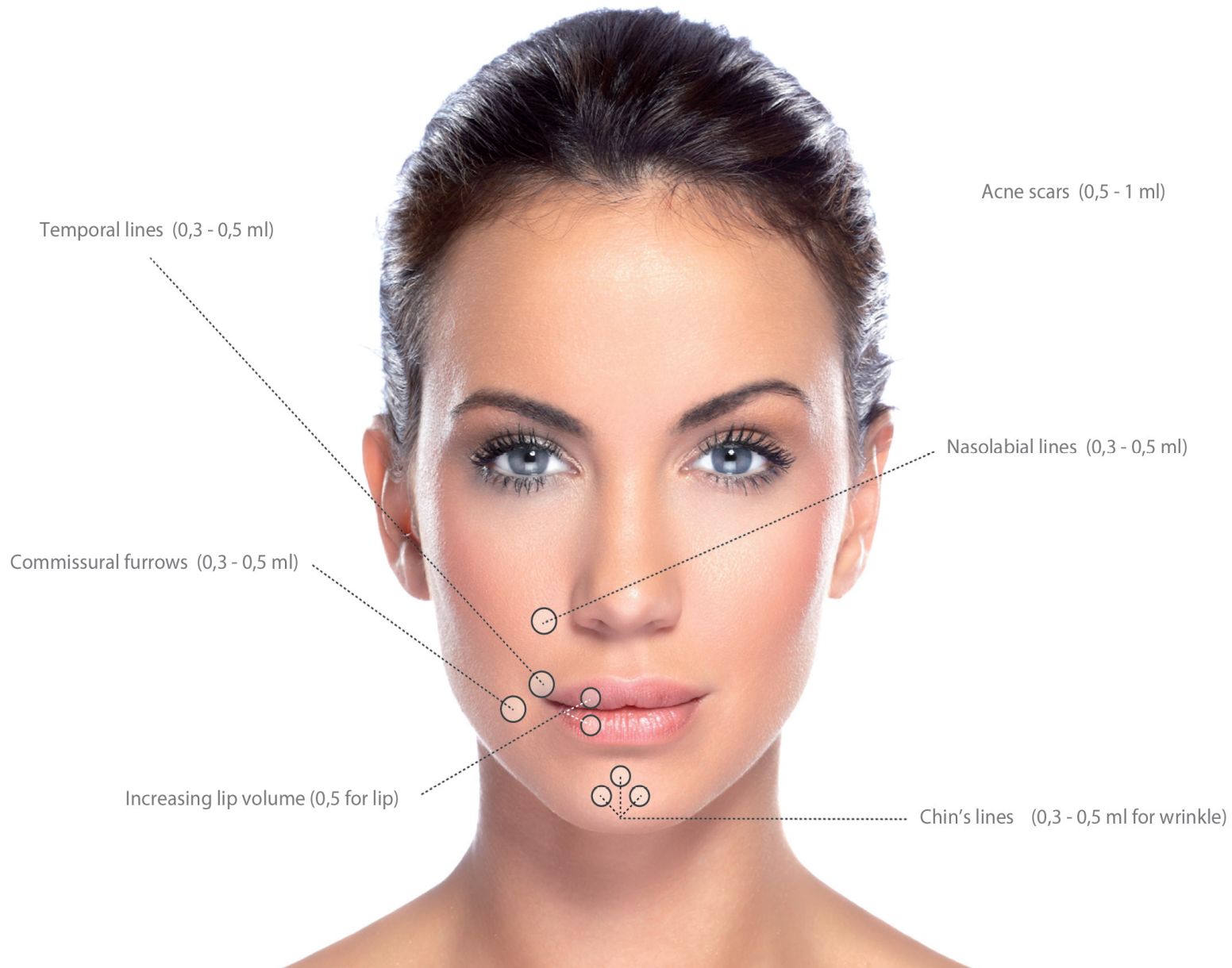
INJECTION TECHNIQUE :  
RETROGRADE LINEAR TECHNIQUE

FREQUENCY OF SESSIONS:  
EVERY 6/7 MONTHS



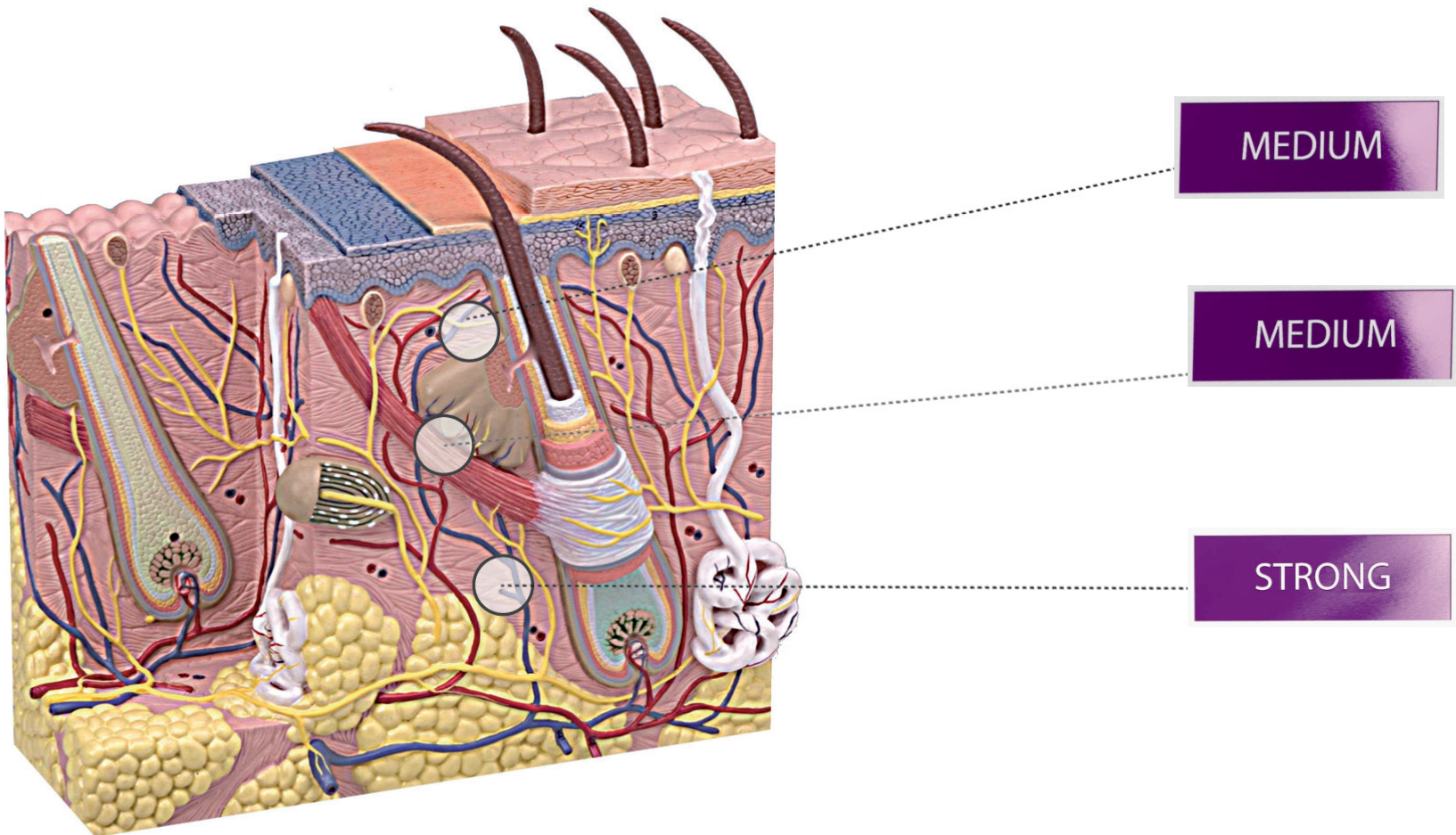
FEATURES	BEAUTYFILL MEDIUM
CONCENTRATION	22 mg/ml
PH	6,50 – 7,50
MOLECULAR WEIGHT	1.8 m3/kg
TOTAL NO. OF ENDOTOXIN	< 0.250 EU/ml
DIRECTIONS FOR USE	Fine expression lines, medium deep wrinkles, lip contours and treating scars.
INJECTION AREAS	Middle dermis and labial submucosa
CROSS-LINKING AGENT	BDDE
AMOUNT IN EACH PACK	2 x 1 ml
ESTIMATED DURATION OF RESULTS	5-8 months
NEEDLE	27 G
STERILISATION	STERILE
CONSERVATION	5°-25° C

## APPLICATION AREAS





# Depth of injection



# FEATURES

- ◉ Non animal, non permanent dermal implant
- ◉ No risk of allergic reactions
- ◉ Longer duration in the tissue
- ◉ Ophthalmological quality according to the related standards

# FEATURES

- ◉ Homogeneous distribution in the tissue – smooth and natural result
- ◉ Superior lifting capacity
- ◉ High performance and safety
- ◉ Made and certified in Italy



# CONTRAINDICATIONS

- ◉ Pregnancy
  - ◉ Psychosis
  - ◉ Dysmorphophobia
  - ◉ Autoimmune diseases
  - ◉ Patients under age
- 
- ◉ ASS 100 : NO contraindications
  - ◉ (however: hematoma formation)

# ACCELERATED DEGRADATION

- ◉ Older patients
- ◉ UV damaged skin
- ◉ Continuing UV exposition
- ◉ In mimic folds
- ◉ Men

*Thanks for your attention*

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