

HYALUOL  
-INJECTABLES-



## REDERMALIZATION COURSE

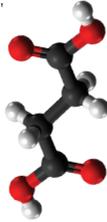
IS A PERFECT SOLUTION FOR ANTI-INFLAMMAGING  
CORRECTION AND TREATMENT OF DARK CIRCLES IN  
PERIORBITAL ZONE



# DOUBLE SYNERGIC EFFECT TECHNOLOGY

## High molecular weight hyaluronic acid;

- Improvement of intercellular space architectonics
- Longer effect in improving skin quality
- By moisturizing the skin, contributes to the reequilibration of the intercellular transfer between dermal proteins
- Normalization of skin hydrobalance



## Sodium succinate:

- Synergistic effect with HA
- Antioxidant protection
- It hampers the accumulation of heavy metals
- By filling the derma, it contributes to increase the flow of blood, lowering the level of hypoxia
- Prevention of skin pastosity due to regulation of adipogenesis



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**XELA REDERM** innovative product for complex treatment and improvement of skin quality

## POST MARKETING CLINICAL OBSERVATION



Dr. Jamil El Raee  
Plastic & Reconstructive  
Surgery, Head of Plastic  
Surgery Dpt, Raee  
Hospital, Lebanon,  
Lebanon

### Design

**Principal Investigator**  
**Clinical center**  
**Product**

**Indication**

**Treatment**

**Number of patients**

**Period**

### The role of Hyalual injections in eyelid rejuvenation

Dr. Jamil El Raee, plastic surgeon  
Single center trials (Saida, Citimedical Center)  
Xela Rederm (18 mg/ml Hualuronic acid,  
16 mg/ml Succinic acid)  
Treatment of dark circles in the periorbital  
area  
3 course procedure with 2 week interval  
(0- 45 days)  
30 female patients between 30-60  
Jun 2017- Jan 2018

## MATERIALS AND METHODS

The patients were subject to three sessions of non-cross-linked HA 18 mg/ml and succinic acid 16 mg/ml injection with 2 weeks interval between sessions. An average of 0.5 cc was injected per side. Photos were taken before the start of treatment and 2 weeks after the last session of injection. A specific skin analysis using a skin analysis machine was employed at the same time to determine hydration, pigmentation, and wrinkles. Baseline levels of skin hydration, elasticity and melanin were measured before beginning the treatment and then 2 weeks after the last session of injection. Patients were also asked to answer a questionnaire 2 weeks after the last session.

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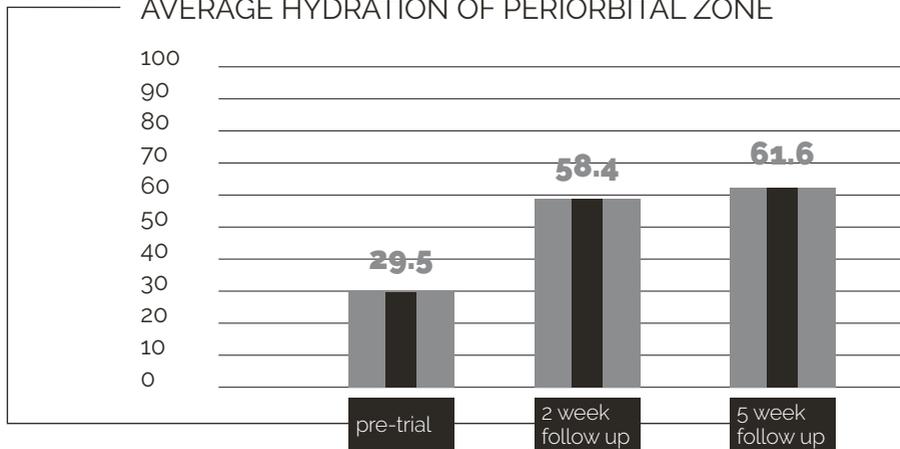
## TECHNIQUE

A total of 0.5 cc of Xela Rederm 1.8% was injected per side, in intradermic papules separated by 5 mm.



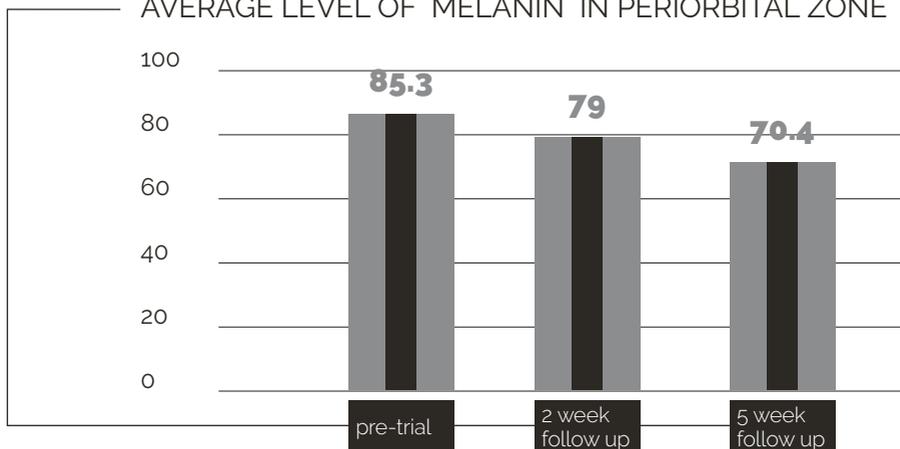
## RESULTS

### AVERAGE HYDRATION OF PERIORBITAL ZONE



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### AVERAGE LEVEL OF MELANIN IN PERIORBITAL ZONE



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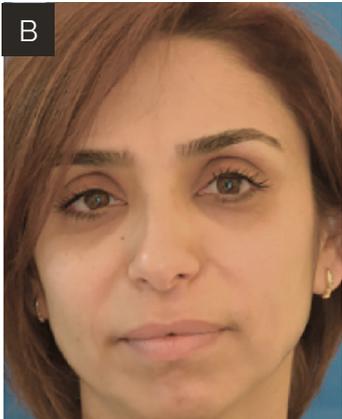
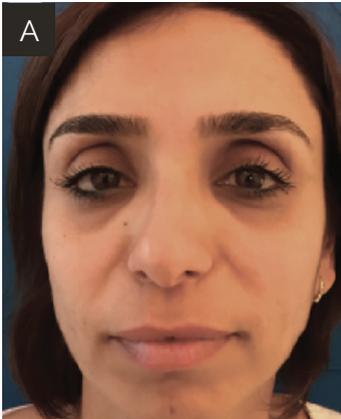


Figure 1 (A) before treatment

(B) 2 weeks after third session