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# NEUTRALIZATION OF A-HYDROXY ACIDS

## CLINICAL EVALUATION

### BACKGROUND

Medical use of chemical peelings containing  $\alpha$ -Hydroxy acids (AHA) with  $\text{pH} < 3$  leads to measure the exact exposition time needed to maintain whole neutralization of the acids.  
Efficiency and the risk of adverse reactions is in direct correlations with this.

### MATERIAL & METHOD

Chemical peel containing 27% of glycolic acid and 12% of mandelic acid with  $\text{pH} < 2$  was performed in a group of 30 female patients with skin photo aging, which were divided in 3 groups:

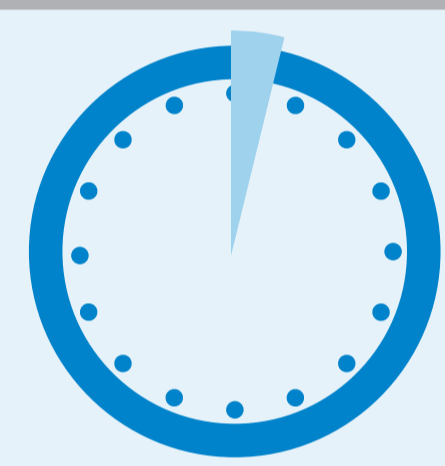


**GROUP 1**  
< 1 MINUTE

Neutralization applied 15 - 30 sec. after the peeling application.

### RESULTS

Low efficacy.  
No adverse reactions observed.



**GROUP 2**  
3 MINUTES

Neutralization applied 3 min. after the peeling application.

High efficacy.  
20% of adverse reactions which were solved without any medical treatments on the day 7.



**GROUP 3**  
6 MINUTES

Neutralization applied 6 min. after the peeling application.

High efficacy.  
60% of adverse reactions. 20% of adverse reactions required medical assistance and were solved on day 10.

Adverse reactions and the efficiency of the treatment were assessed during day 0 and day 10.



### CONCLUSION

The optimal time for neutralisation of chemical peeling containing 27% glycolic acid and 12% mandelic acid with  $\text{pH} < 2$  is 3 minutes of exposition time brings good effect in skin photo aging with minimum possible risk and adverse reactions.