

## GLUMA® Desensitizer PowerGel

Clinical study – University of Sao Paulo, Brazil  
Evaluation of different treatment protocols for dentine hypersensitivity: an 18-month randomized clinical trial

Numerous clinical studies have been run to show the desensitising effect of the GLUMA Desensitizer. The mentioned clinical study confirms again the sustained efficacy the liquid GLUMA Desensitizer has in reducing dentine hypersensitivity.

Giving a hand to oral health.



**KULZER**  
MITSUI CHEMICALS GROUP

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## Evaluation of different treatment protocols for dentine hypersensitivity: an 18-month randomized clinical trial

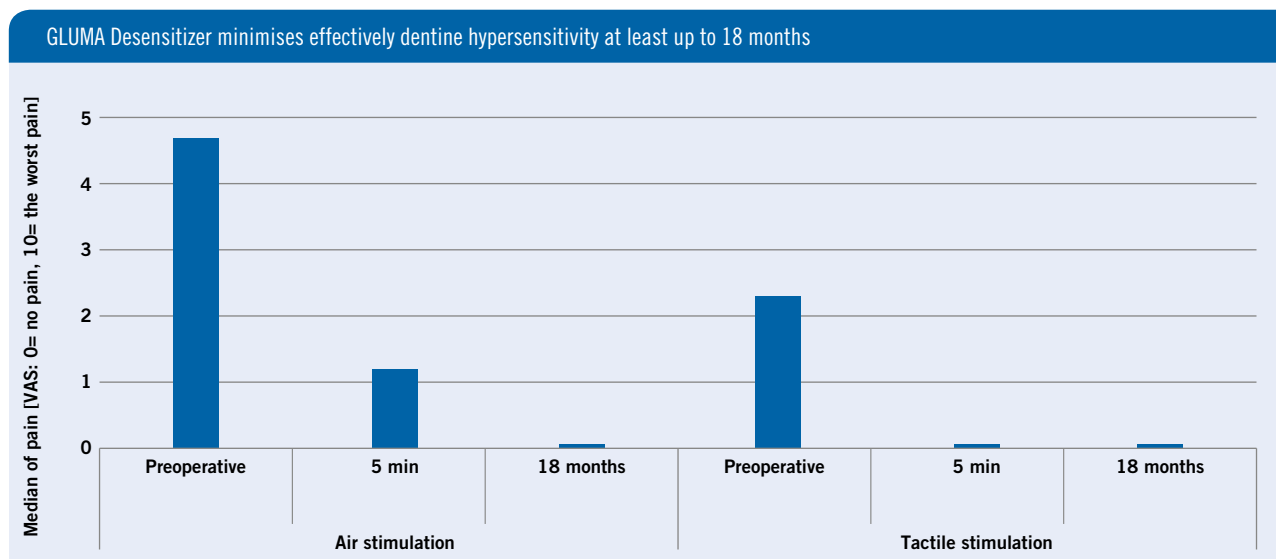
### Objective

This randomised in vivo study assessed different protocols for the treatment of dentine hypersensitivity with low-power laser, high-power laser, and a desensitising agent, for a period of 12 and 18 months.

### Materials & Methods

The lesions from 32 patients (117 lesions), were divided into nine groups (n=13): G1: GLUMA Desensitizer, G2: low-power laser with low dose, G3: low-power laser with high dose, G4: low-power laser with low dose + GLUMA Desensitizer, G5: low-power laser with high dose + GLUMA Desensitizer, G6: Nd:YAG laser, G7: Nd:YAG laser + GLUMA Desensitizer, G8: low-power laser with low dose + Nd:YAG laser, and G9: low-power laser with high dose + Nd:YAG laser. The level of sensitivity was rated by visual analog scale of pain (VAS) using air and a tactile stimulus of a probe 12 and 18 months after treatment. All analyses were performed separately for air and probe stimulus. The level of significance was  $p < 0.05$ .

### Results



All treatments were shown to be effective in reducing dentine hypersensitivity. Until the 18-month evaluation, no statistical differences were observed in the sensitivity levels for all treatments.

### Conclusion

All treatments performed were efficient in the reduction of cervical dentine hypersensitivity. GLUMA Desensitizer was the only group that presented no increase in pain over during the study. It is considered as an effective and non-invasive treatment.

### Comment

This study demonstrates the long-lasting effect a single application of GLUMA Desensitizer has in reducing pain from dentine hypersensitivity.

### Source

Lopes AO *et al.*: Evaluation of different treatment protocols for dentine hypersensitivity: an 18-month randomized clinical trial. *Lasers Med Sci*, 32, 2017:1023-30.

The study was abbreviated, summarised and commented and all diagrams and titles have been established by Kulzer.