

**One-stage full-mouth disinfection combined with Doxycycline: A single-center, placebo controlled, randomized, controlled clinical trial**

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## ABSTRACT

### AIM

To compare the clinical benefit of doxycycline administered immediately after completion of one-stage full-mouth disinfection (OSFMD) in patients with generalized aggressive periodontitis .up to 6 months after therapy

### MATERIAL AND METHODS

This single-center, placebo-controlled, randomized study included 36 patients. After OSFMD, a test and a control group were selected by means of a computer-generated randomization list. Test group (n=18; 11 females and 7 males) received doxycycline 100 mg, once daily for 10 days and the control group (n=18; 13 females and 5 males) received OSFMD and a placebo. Both groups received thorough oral hygiene instructions. After 3 and 6 months, the clinical .periodontal parameters were recorded

### RESULTS

The doxycycline group showed a significant ( $p < 0.05$ ) additional pocket depth reduction and additional clinical attachment gain for the pockets of single- and multi-rooted teeth compared with the control group. A significant ( $p < 0.05$ ) lower percentage of sites with probing pocket .depth  $\geq 5$  mm were shown for the doxycycline group compared with the control group

### CONCLUSION

The use of doxycycline 100 mg for 10 days after OSFMD offers an additional clinical .improvement in patients with generalized aggressive periodontitis over a 6-month period