

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

Dr. Mahmoud Abu-Ta'a

Assistant Professor

Department of Oral Surgery & Periodontology

Arab American University

Palestine

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 ≥ 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