

301. CONSERVATIVE TREATMENT ASPECTS IN FLUOROSIS AND POST ORTHODONTIC LESIONS

Author: **Ina Guidea**

Scientific adviser: Marcu Diana, MD, PhD, Associate professor, Department of odontology, periodontology and pathology

Nicolae Testemitanu State University of Medicine and Pharmacy of the Republic of Moldova

Introduction. Modern dentistry evolution trends are based on development of new treatment methods that must guarantee hard dental tissue preservation, that can be used for aesthetic and functional rehabilitation. Conservative methods ensure a comfortable treatment, without local anesthesia, with a long term perspective of maintaining teeth integrity. These new treatment methods that approach the post orthodontic lesions and fluorosis through the prism of enamel demineralization allow to point on their efficiency and advantages regarding to other methods.

Materials and methods. The study included 15 patients that acused enamel demineralization. Eligibility criteria: mild forms of fluorosis or post orthodontic incipient caries lesions. Patients were divided in 2 groups: group I- 9 patients, group II- 6 patients. The first group was subject for conservative fluorosis treatment, and the second one- conservative treatment for post orthodontic

lesions. Both groups were treated using ICON system. Data were analysed by photostatic examination, before and after treatment.

Results. There was a significant improvement in clinical status, characterized by macula disparition and reduction in brown striations intensity in group one and complete treatment for the second group.

Conclusions. The conservative therapeutic method used in this study offered good results in enamel demineralisation treatment, manifested by caries in macula stage, but additional research are necessary in case of dental discoloration.

Key words: conservative treatment, fluorosis, incipient caries, ICON