COMPARISON BETWEEN BLOOD GLUCOSE LEVELS OF PERIODONTAL POCKETS WITH FINGER TIPS' PATIENTS WITH TYPE2 DIABETES MELLITUS

Utri Ghini Tjiptuningtah*; Nunung Rusminah**; Agus Susanto***

*Postgraduate Periodontia Student, Faculty of Dentistry, Padjadjaran University, Bandung, Indonesia; **Department of Periodontia, Faculty of Dentistry, Padjadjaran University, Bandung, Indonesia

ABSTRACT

Introduction: Periodontal disease is a health problem that has a fairly high prevalence in the community reaches 90% and is related to systemic disease such as Diabetes Mellitus. Objectives: The purpose of this study is to compare the results of blood glucose levels taken from periodontal pockets and fingertips of patients with type 2 diabetes mellitus and compares the results of blood glucose levels taken from the periodontal pocket with the tip of a finger in patients with type 2 diabetes mellitus.

Materials and Methods: A total of 20 patients, which consist 10 patients of periodontitis with diabetes mellitus and 10 patients of periodontitis without diabetes mellitus, checked his blood glucose levels were taken of gingival probing and (pricking) fingertips using Accu-check Glucometer Nano. Performance. Statistical analysis using Student's t-test and Pearson correlation significance test result determined based on the value of p<0.05. Results: there is no differences in blood glucose levels (mg/dl) in both chronic periodontitis with diabetes mellitus and without diabetes mellitus between the fingertips and the periodontal pocket with a p-value ≥ 0.05, where the p-value in patients diabetes mellitus 0.911 and p-value 0.962 without diabetes mellitus. Conclusion: Blood glucose levels of periodontal pockets are same with bloodglucose levels of the finger tips, so that the examination of periodontal pockets can be used as an indicator of bloodglucose levels in people with type 2 diabetes mellitus.

Keywords: generalized chronic periodontitis, diabetes mellitus, blood glucose levels, fingertips, periodontal pocket, Accu-check glucometer performance nano