

# COMPARISON BETWEEN BLOOD GLUCOSE LEVELS OF PERIODONTAL POCKETS WITH FINGER TIPS PATIENTS WITH TYPE 2 DIABETES MELLITUS

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## ABSTRACT

**Introduction:** Periodontitis is a common oral health problem that has a fairly high prevalence in the community reaches 50%. It is closely related to systemic disease such as Diabetes Mellitus. **Objectives:** The purpose of this study was to compare the results of blood glucose levels taken from periodontal pocket 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 when (mg/dl) in both chronic periodontitis with diabetes mellitus and without diabetes mellitus between the fingertips and the periodontal pocket with a p-value  $\geq 0.05$ , where the p-value in patients diabetes mellitus 0.911 and p-value 0.982 without diabetes mellitus. **Conclusion:** Blood glucose levels of periodontal pockets as 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