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**THE EFFECTS OF METFORMIN TO SALIVA CONDITION AMONG TYPE 2
DIABETES MELLITUS PATIENTS AT A COMMUNITY HEALTH CENTER IN
BANJARSARI – CENTRAL JAVA**

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ABSTRACT

Diabetic Mellitus is a common chronic metabolic disorders nowadays. It is happened when the pancreas could not produce enough insulin. It could be existed when the body becomes resistant to insulin. Metformin is used as a first line monotherapy. Unfortunately, some studies reported that Metformin has responsibility to cause negative effects inside oral cavity. Thus, this research tried to reveal the effects of Metformin on Saliva condition (pH) among Diabetic patients. Methods: This study was an observational analytic with cross-sectional approach. The sampling was total sampling. It was conducted in a community service, its name is Gillingan in Banjarsari district, Surakarta – Central Java since September – November 2017. The samples were patients with Type 2 Diabetic Mellitus who met our inclusion and exclusion criteria. The Saliva were collected by drilling methods then measured by pH meter and analyzed statistically by Spearman Correlation Test. Results: Metformin intake affects to Saliva condition. Spearman Correlation test has significantly proven with p value = 0.000 ($p < 0.05$) and the correlation coefficient is 0.697. Conclusion: There was strong correlation between Metformin intake with Saliva condition inside oral cavity.

Keywords: Oral health, diabetic mellitus, saliva, metformin