

ABSTRACT

**PROFILE OF ADHERENCE RATE OF ANTIDIABETIC DRUG USE USING
DIGITAL APPLICATIONS FOR THE PERIOD
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(Studies conducted at Wonokromo Health Center)**

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The irregularity in taking medicine will decrease the effectiveness of therapies especially in diabetes mellitus. Therefore, a medication reminder application can be used as a tool to increase patient's adherence. The purpose of this study was to determine the relationship between the application of medication time reminders on patient adherence in taking drugs using digital applications and the MARS-10 questionnaire. This study is an observational study using the descriptive method on DM patients at the Wonokromo Health Center with prospective during February – March 2023 with a sample of 24 control group patients and 24 intervention group patients. The result of medication adherence measured using the MARS-10 questionnaire score, the most pre-score control group result were the adherence category as many as 21 patients (87,5%) and in the post questionnaire as many as 19 patients (79,17%). The most pre-scoring intervention groups were in the adherence category of 20 patients (83,3%) and in the post questionnaire as many as 21 patients (87,5%). Then based on the profile of blood sugar levels in the pre control group obtained an average of 166.29mg / dL and decreased at post average 142.25mg / dL, in the pre intervention group obtained an average of 191.75mg / dL and decreased when post averaged 165.5mg / dL.

Keywords : *Smartphone apps, medication adherence, MARS-10, diabetes mellitus*