

**RELATIONSHIP BETWEEN TREATMENT COMPLIANCE AND BLOOD SUGAR
LEVELS OF DIABETES MELLITUS PATIENTS AT GAMBIRSARI COMMUNITY
HEALTH CENTER**

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ABSTRACT

Background: The global prevalence of diabetes mellitus (DM) is currently 6.1%. In June 2023, the number of global diabetes cases is projected to increase from 529 million to 1.3 billion by 2050. Indonesia is in 6th place for the number of diabetes mellitus cases, with a total of 236 thousand cases in 2021, reaching around 19.5 million. In Central Java, there were 647,093 cases, and in Surakarta City in 2023, the number of cases was 17,191. **Objective:** To determine the relationship between medication compliance and blood sugar levels of diabetes mellitus patients at the Gambirsari Health Center. **Method:** The study used a quantitative cross-sectional design with a sample of 67 respondents who were analyzed using a bivariate test with the chi-squared test. **Results:** The results of the study showed that those who were compliant with GDS checks mostly had normal blood sugar levels (71.1%). Meanwhile, respondents who were quite compliant had a less good distribution because half of them still had high GDS levels (50%). Most of the respondents who were not compliant (75%) had high GDS levels. **Conclusion:** There was the most significant relationship between GDS Check Compliance and Diabetes Mellitus patients at Gambirsari Community Health Center.

Keywords: diabetes mellitus, blood sugar levels, medication compliance.