

**A STUDY OF SELF-EFFICACY TOWARDS SKILL IN USING INSULIN
INJECTION PEN AMONG TYPE 2 DIABETES PATIENTS AT
HOSPITAL SULTANAH NORA ISMAIL,
BATU PAHAT, JOHOR**

ABSTRACT

This cross-sectional study was conducted among 39 respondents to determine their self-efficacy towards skill in using insulin injection pen with Type 2 Diabetes Mellitus patients. Besides that, demographic factors, knowledge, attitude and involvement of medical staff were studied. The study was conducted at Hospital Nora Ismail, Batu Pahat, Johor. Type 2 Diabetes Mellitus patients were chosen through systematic random sampling and data collection methods used were face-to-face interview at the first stage and followed by observation on respondents' skills in demonstrating the usage on insulin injection pen. Result of the study showed that the level of knowledge among the respondents was high which was 100%. Besides that, the involvement of medical staff towards the skill in using the insulin injection pen was also high which was 100%. The attitude also showed that 51.3% respondents were having positive attitude while the level of self-efficacy respondents showed were high which was 94.9%. However, the result for the skill in using the insulin injection pen showed 48.7% respondents were not competent. Based on Pearson Chi Square analysis (Fisher's Exact Test), it showed that there were no significant relationship ($p > 0.05$) between skill based on socio-demographic factors. Nevertheless, Pearson correlation test between attitude and self-efficacy showed there were a moderate correlation with the value of ($r = 0.527$, $p < 0.01$). This shows that the more positive attitude will increase the self-efficacy of respondent in using insulin injection pen. There were a weak and negative correlation between self-efficacy and skills in using insulin injection pen with the value of ($r = -0.117$, $p = 0.447$). Instead of that, the study result between attitude and knowledge showed a very weak negative correlation with the value of ($r = -0.093$, $p = 0.571$). Overall, the improvement of health education towards the skill of the insulin injection pen usage needs to give attention to the role's elements of the medical staff in making a checking to the usage of the insulin injection pen consistently in a way of asking the patients to do a demonstration in every appointment to ensure the patients are competence and able to control the complication as the result of diabetes.