

RENAL STATUS AND FACTORS ASSOCIATING IT IN NEWLY DIAGNOSED DIABETES PATIENTS IN 2023 IN KK PONTIAN: A DESCRIPTIVE STUDY

Mohd Fadzly Bin Hussin
Klinik Kesihatan Pontian, Pontian, Johor

Nor Hana Binti Ahmad Bahuri
Unit NCD, Jabatan Kesihatan Negeri Johor

ABSTRACT

INTRODUCTION: Hypertension and dyslipidemia are among the most frequent comorbidities in diabetes with prevalence of 72% and 60% respectively. These conditions can affect the renal function. OBJECTIVE: This study is to investigate the renal status in newly diagnosed DM patients and factors affecting it. METHODOLOGY: A descriptive study to investigate the factors associated with renal status in diabetes patients diagnosed in 2023 in KK Pontian, Johor. Data were collected from diabetes linelisting comprises of components such as sociodemographic characteristic, hypertension, dyslipidemia and eGFR and HbA1C level upon diagnosis. Sociodemographic components such as gender, age and ethnic together with presence of hypertension and dyslipidemia were analysed with eGFR using Chi-square test to demonstrate the association of the factors with level of eGFR. RESULT: A total of 185 patients diagnosed with diabetes in 2023 in KK Pontian were selected. Hypertension is observed in 81 patients (43.8%), same with dyslipidemia. 70 patients (37.8%) have two comorbidities while 22 patients (11.9%) have at least one of the comorbidities. For eGFR level, they are classified further according to GFR categories with the majority of the patients belonging to group G1-2 with a total of 171 patients (92.4%). The association of hypertension and dyslipidemia with eGFR level were analysed and it is found that the P value is 0.626 for hypertension and 0.942 for dyslipidemia. CONCLUSION: From this study, it can be concluded that eGFR level is not associated with hypertension and dyslipidemia. Other variables that may affect the outcome of this study such as BMI, cardiovascular disease status, and many more should be included.

Keywords: Diabetes, Hypertension, Dyslipidemia, eGFR
