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Kidney Disease Risk Factor for Productive Age in Indonesia: Using IFLS 5

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Objectives: One of the frightening non-communicable diseases in the world is kidney disease. The number of kidney disease sufferers in Indonesia ranks second after heart disease according to the Ministry of Health (2015). The purpose of this study is to analyze the chances of the Indonesian population affected by kidney disease for productive age in Indonesia.

Methods: This study uses the Indonesian Family Life Survey 5 (IFLS 5) data with logit and probit models. There were 423 respondents affected by kidney disease (Acute Kidney Injury, Chronic Kidney Disease Stage 5 and Acute Superimposed on CKD). This study uses smoking and the quality of sleep variables as lifestyle indicators. Using variables hypertension and depression levels as etiology of respondents. The socioeconomic indicators are seen from income, age, and education.

Results: The results show that the probability of smoking significantly positively affects individuals suffering from kidney disease. The probability of sleep quality significantly negatively affects individuals suffering from kidney disease, the lower the quality of sleep the more chance of developing kidney disease. Based on the etiology of the patient, patients with hypertension are likely to cause kidney disease while depression rates are not. When viewed in terms of socio-economic age and income significant positive for probability to get kidney disease, the education has no effect. A significant opportunity is indicated by a p-value of less than a 5 % confidence level.

Conclusions: The importance of paying attention to good sleep patterns and not smoking in order to avoid the occurrence of kidney disease. In addition, individuals should pay attention to the etiology of patient hypertension and limited the working that will cause an individual to have kidney disease. In addition, residents can use health insurance claims to prevent and treat kidney disease.

Figure 1. result of analysis

Table 1. result

Dependent variable: kidney

| | LPM | LOGIT | PROBIT |
|-----------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| smoke | 0.00523** (0.00195) | 0.00518** (0.00196) | 0.00504** (0.00194) |
| stress | -0.00150 (0.00495) | -0.00167 (0.00501) | -0.00173 (0.00501) |
| <u>qualityofsleep</u> | -0.00385** (0.00118) | -0.00378** (0.00118) | -0.00370** (0.00118) |
| hypertension | 0.0194*** (0.00311) | 0.0130*** (0.00241) | 0.0132*** (0.00254) |
| age | 0.000416*** (0.0000801) | 0.000404*** (0.0000799) | 0.000410*** (0.0000807) |
| education | 0.00148 (0.000964) | 0.00132 (0.000961) | 0.00120 (0.000958) |
| <u>lnincome</u> | 0.00124* [†] (0.000809) | 0.00147* [†] (0.000844) | 0.00142* [†] (0.000834) |
| _cons | -0.0157 (0.0134) | | |
| <i>N</i> | 17132 | 17132 | 17132 |

Standard errors in parentheses

[†] $p < 0.1$, * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$