ABSTRACT

ESA UNGGUL UNIVERSITY
FACULTY SCIENCE OF HEALTH
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RELATIONSHIP OF PURINE CONSUMPTION, CARBOHYDRATE INTAKE, PROTEIN, FAT, VITAMIN C, BODY MASS INDEKS AND URIC ACID LEVELS IN MAN (AGED 26-45 YEARS OLD) IN RW 05 SUB-DISTRICT BUKIT DURI

Background: Hyperurisemia is a condition that uric acid levels in blood above the normal value. The normal value of uric acid levels is 3,6-7 mg/dl. Uric acid levels are influenced by consumption of purines, carbohydrate intake, protein, fat, vitamin C and BMI.

Objection: To describe correlation of consumption of purine, carbohydrate intake, protein, fat, vitamin C, Body Mass Indeks and uric acid levels in man (aged 26-45 years old) in RW 05 sub district Bukit Duri.

Method: Observational study with cross sectional design. Subject were 56 man aged 26-45 years. Data of purine consumption and vitamin C intake were collected from Food Frequency Questionaire semi quantitative, carbohydrate intake, protein, fat were collected from recall 2x24 hours. BMI was measured by following anthtopometric measurement. Uric acid levels was measured by GCU Easy Touch. Data was analyzed by Pearson's test and one-way ANOVA.

Result: Most of subject had uric acid levels in the normal category (3,4-7,0 mg/dl). Means of uric acid levels subject was 6,37±1,87 mg/dl, consumption of purines 842,20±422,67 mg, carbohydrate intake 392,78±93,49 gram, protein 86,47±31,04 gram, fat 84,56±40,07 gram, vitamin C 83,60±40,90 mg and BMI 22,46±3,95 kg/m². Pearson's test showed that consumption of purine, protein intake, fat, vitamin C and uric acid levels was significant correlation (p<0,05). There was no significant correlation carbohydrate intake, BMI and uric acid levels (p>0,05). One-way ANOVA test, there were a significant differences consumption of purine, carbohydrate intake, protein, fat and vitamin C based on uric acid levels (p<0,05).

Conclusions: There is significant correlation consumption of purine, protein intake, fat, vitamin C and uric acid levels (p<0,05). There were a significant differences consumption of purine, carbohydrate intake, protein, fat and vitamin C based on uric acid levels (p<0,05).

Keywords: carbohydrate intake, body mass index, consumption of purine, fat, protein, uric acid level, vitamin c.

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References: 96 (1987-2016)

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