ABSTRACT



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FACULTY OF HEALTH SCIENCES
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THE ASSOCIATION BODY MASS INDEX, SODIUM AND POTASSIUM INTAKE, SODIUM-TO-POTASSIUM RATIO, AND BLOOD PRESSURE AMONG ESA UNGGUL UNIVERSITY'S PERSONNEL

viii, VI BAB, 78 pages, 5 table

Background: Riskesdas (2013) shows that prevalence of hypertension in Indonesia is 25.8%. Prevalence of hypertension in DKI Jakarta is 20.0%. Some studies have found that body mass index, sodium and potassium intake, sodium-to-potassium ratio associated with blood pressure.

Objective: This study examined the association between body mass index, sodium and potassium intake, sodium-to-potassium ratio and blood pressure among of Esa Unggul University's personnel.

Design: This was a *cross sectional* study, samples are 45 years old and less, non cardiovascular or diabetics or kidney illnesses, non-smoker (n=75). Statistics analysis using correlation.

Result: Mean of BMI is 24.2 kg/m² (±4.5), sodium intake 583.0 mg/day (±200.2), potassium intake 1746.2 mg/day (±612.9), sodium-to-potassium ratio 1.4 (±0.6), systolic blood pressure 123.2 mmHg (±17.0) and diastolic 81.8 mmHg (±10.4). Samples that had normal blood pressure are 33 samples (44.0%), pre-hypertension are 21 samples (28.0%) and hypertension are 21 samples (28.0%). Analysis showed that body mass index and sodium-to-potassium had significant influence with blood pressure. Sodium intake, potassium intake, and blood pressure has no significant correlation with hypertension.

Conclusion: Periodic medical examinations for personnel twice a year are required to improve the quality of work.

Keywords : Body Mass Index, Sodium, Potassium Intake, Sodium-to-Potassium Ratio,

Blood Pressure

Reference : 64 (1996-2014)

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