

中文題目: 在台灣血壓, 血糖及尿酸和尿蛋白及 eGFR 有相關

英文題目: Blood pressure, fasting sugar and uric acid were associated with proteinuria and eGFR in a Taiwanese population

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## Abstract

**Objectives:** The aim of this study was to ascertain the relationships of blood pressure, blood sugar, total cholesterol, triglyceride, uric acid, and BMI measurements with proteinuria and eGFR in a southern Taiwanese population.

**Methods:** The cutting values of fasting blood sugar level was obtained according to the Bureau of Health Promotion, D.O.H., R.O.C criteria, blood pressure was assessed under the JNC 7 criteria and triglyceride levels were ascertained under the NCEP-ATP III criteria, uric acid was 7 mg/dL for males and 6 mg/dL for females and body mass index (BMI) was obtained under the Asia-Pacific criteria (23kg/m<sup>2</sup>). CKD was defined as per the Kidney Disease Outcomes Quality Initiative (K/DOQI) definition, and calculated with Taiwanese Modification of Diet in Renal Disease (Taiwanese-MDRD)

**Results:** In total, 20900 Taiwanese adults were enrolled, including 42.3% male subjects; the mean age of the males was 58.01 ± 11.13 years and that of the females was 56.03 ± 10.34 years. The prevalences of hypertension, diabetes mellitus and CKD were 25.7%, 8.9% and 66.7%, respectively, and the rates of abnormal measurements of blood pressure, BMI, fasting sugar, triglyceride, uric acid (male/female) and serum creatinine levels, and urine protein were 68.9%, 66.0%, 37.5%, 28.5%, 29.1% (36.4%, 23.7), 3.5% and 13.0%, respectively. Multivariate logistic analysis showed that blood pressure, fasting sugar, uric acid were found to be related to eGFR and proteinuria (p<0.05). Pulse pressure is inverse correlation to eGFR.

**Conclusion:** CKD is prevalent in southern Taiwan, and blood pressure, fasting sugar, and uric acid were found to be related to proteinuria and eGFR.