The Prevalence of Pre-hypertension and Hypertension in an Iranian Urban Population

OBJECTIVE:

To determine the prevalence of hypertension and pre-hypertension and its determinants in the $rac{\xi \cdot -7 \cdot \xi}{2}$ year old population of Shahroud in the north of Iran.

METHODS:

The blood pressure of o, \quad \cdot \text{of the \$\frac{\psi_1}{\psi_2}\$ year old people participating in the first phase of Shahroud Eye Cohort Study was measured using the standard method. Sampling was done in \quad \cdot \cdot \quad \text{using a random cluster approach.} The prevalence of hypertension and pre-hypertension was determined by age and sex, and we used a multi-nominal logistic regression model to calculate the odds ratio (OR).

RESULTS:

The prevalence of pre-hypertension was $\Upsilon^{V,\Upsilon}$ % in men and $\Upsilon^{\bullet,\P}$ % in women, and the prevalence of hypertension was respectively $\Upsilon^{V,\Upsilon}$ % and $\Upsilon^{\P,\bullet}$ %. In both sexes, there was an increase in the prevalence of hypertension and a decrease in the prevalence of pre-hypertension with age. Older age, male sex, higher body mass index, blood glucose higher than $\Upsilon^{\bullet,\Phi}$ mg/dl were found associated with hypertension and pre-hypertension. Also, diabetes increases the odds of hypertension (OR = $\Upsilon^{\bullet,\Phi}$) and a history of smoking was correlated with a decreased odds of having hypertension and pre-hypertension.

CONCLUSION:

According to the criteria of Joint National Committee on Prevention, Detection, Evaluation and Treatment of High Blood Pressure, the prevalence of hypertension and pre-hypertension was high in the studied population, and considering the epidemiologic transition of diseases in Iran, it can be concluded that a high percentage of the population are at risk of cardiovascular diseases.